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HAVERLAND

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SO.ERRE
tecnologia dell'aria

P+L Systems

**Ray
tech**

SANGAMO

SUNVIC
comfort in control

WasteMaid
Elite

...The complete solution

Levanté®



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Your local Levanté stockist:



LEV0193



The Pursuit of Excellence

Welcome to the Levanté second edition catalogue.

Levanté has built its reputation on providing a breadth of air handling, hygiene and control products of outstanding quality to satisfy the demands of specifiers, wholesalers, contractors and end users, within domestic, industrial and commercial markets alike.

Levanté is a fully established company in the UK and Eire. Our aim is to capitalise on our strong market position, focussing on key strategies to increase our market share on our extensive range, not forgetting, utilising our experts within the company to deliver integrated solutions to solve the challenges presented by our customers

With a product range that really is second to none, Levanté offer outstanding product quality and value for money.

With over 2,000 product lines available in stock at our 40,000 square foot distribution and technical centre in Doncaster, South Yorkshire, Levanté are just a phone call away for advice and support.

Contact us today and see how Levanté offer...

...The complete solution



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Contact Us!...



NEXT DAY DELIVERY SERVICE!

on all orders received
before 3pm



Technical Support

The emphasis is quality. Levanté staff receive full and on-going training throughout their employment, to ensure complete technical competency.

Quality & Price

Levanté pride ourselves on providing the widest and broadest range of quality branded products at an affordable price.

Backed by Levanté's renowned professional service and technical support, customers can be sure that their product requirements will be satisfied.

All customers receive a first class service whatever the size of their order, helping them to run their business more efficiently.

Customer Service

Levanté provide a dedicated service to our customer base, operating from Doncaster, South Yorkshire.

We are one of the leading specialists in the supply of air handling products.

Delivery

Dedicated to service, Levanté carry thousands of product lines ex-stock.

Ready for immediate despatch, any order received before 3:00pm can be delivered next day, anywhere in the country!

As a specialist supplier, customer satisfaction is paramount to the success of our company, and prompt delivery plays a vital role in this.

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Our email account is available for any questions you may have regarding our products and services.



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Our fax lines are operating 24 hours a day.

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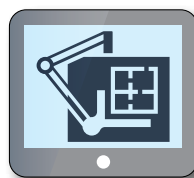
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Heating and Ventilation Design Scheme Service Available from Levanté

As part of Levanté's commitment to service and support, we offer a design service for our customers.

Working from drawings supplied, we can calculate the optimum specification for your heating and ventilation projects. Whether commercial or domestic applications, Levanté will provide a solution.

Our policy is one of constant development and improvement. Whilst every effort is made for all details to be correct at time of press, specification and/or appearance may be changed in the interest of continuing improvement. Errors and omissions excepted.
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section one

Air Warming

Levante's reputation is established on providing an extensive range of heating products, offering our customers a wide choice of solutions whatever their budget. From one of the largest and most diverse ranges of wall mount panel heaters including energy efficient new generation oil based systems, dwarf wall options, digital ranges and convector heaters, to an extensive offering of underfloor heating solutions including cable, mat and foil options.

Levanté also boast the largest range of electric or water based towel rails available from a single UK source.

During some of the harshest winters on record recently Levanté have also invested in a range of frost protection products, from external pipe protection to external underground heating for walk ways and drive ways.

**Whatever your heating requirements,
Levanté have a solution.**

Air Warming

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Convector Heaters

A range of Levante 2kW, thermostatically controlled convector heaters which can be either portable or wall mounted. Stylish in design and ideally suited for commercial applications.



LEVC2000TT

LEVC2000N

Compact Size Convactor Heater

ref: **LEVC2000N**

Features:

- Motor power: 17W
- 3 selectable power settings (750W/1250W/2000W)
- Adjustable thermostat
- Free standing or wall mountable (c/w fixing brackets)
- Cable and plug included
- Dimensions (W x H x D): 530 x 380 x 75mm (without feet)

Standard Convactor c/w 24hr Timer

ref: **LEVC2000T**

Features:

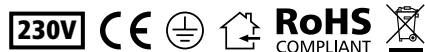
- Motor power: 20W
- 3 selectable power settings (750W/1250W/2000W)
- Adjustable thermostat
- 24 hour timer (15 minute intervals)
- Free standing or wall mountable (c/w fixing brackets)
- Cable and plug included
- Dimensions (W x H x D): 585 x 430 x 110mm (without feet)

Standard Convactor c/w 24hr Timer & Turbo

ref: **LEVC2000TT**

Features:

- Motor power: 20W
- 3 selectable power settings (750W/1250W/2000W)
- Adjustable thermostat
- Turbo boost switch (for fan assist)
- 24 hour timer (15 minute intervals)
- Free standing or wall mountable (c/w fixing brackets)
- Cable and plug included
- Dimensions (W x H x D): 585 x 430 x 110mm (without feet)



Slimline Panel Heaters

A range of Levante wall mounted panel heaters for domestic and commercial applications. Featuring extra slim design with thermostatic control and 24 hour timer.

The whole range has the same height, providing an ideal solution for conservatories with dwarf walls.



Features:

- 24 hour timer
- Thermal cut-out protection
- Slimline design, suitable for dwarf walls
- Wall fixing bracket included
- c/w 1.2m white cable (0.75mm²)



LEVPH500TPS

ref	wattage	dimensions (W x H x D)	suggested room volume
LEVPH500TPS	500W	380 x 280 x 70mm	Up to 5m ²
LEVPH1000TPS	1000W	540 x 280 x 70mm	5 - 10m ²
LEVPH1500TPS	1500W	790 x 280 x 70mm	10 - 15m ²
LEVPH2000TPS	2000W	1140 x 280 x 70mm	15 - 20m ²



Premium Digital Panel Heaters

The Levante Premium Digital Panel Heater is a stylish, aesthetically pleasing heater which incorporates the latest digital multi-function LCD control module.



The slimline design and choice of wattages from 750W through to 2200W makes this affordable premium panel heater ideal for most home, office, commercial or leisure applications.

The multi-function LCD control module provides full control of the temperature and timer setting of the heater.

This control of the temperature and timer settings can be defined, either by the user or by selecting any one of the 9 pre-set heating programmes. The thermostat is ideal for highly accurate and stable room temperatures. It can be set to switch the heating element on/off with a temperature range of 5°C to 30°C.

The 7 day timing programme is set using 30 minute time slots.

Features:

- LCD display
- Overheat protection
- 9 pre-set heating programmes (including 7 day, 5/2 split and frost protection), plus 3 custom settings
- Wall fixing bracket included
- c/w white cable



LEVPH1250NTPR

ref	wattage	dimensions (W x H x D)	suggested room volume
LEVPH750NTPR	750W	500 x 400 x 85mm	9 - 12m ²
LEVPH1250NTPR	1250W	640 x 400 x 85mm	13 - 16m ²
LEVPH1500NTPR	1500W	640 x 400 x 85mm	17 - 20m ²
LEVPH2200NTPR	2200W	940 x 400 x 85mm	21 - 30m ²



Econ Slimline Convector Heaters

Offering a slimline design with advanced digital thermostatic control, giving you one of the most cost effective and energy efficient electric heating systems available on the market today.



Features:

- Available in 600W - 1500W models
- High quality aluminium construction
- LCD digitally controlled electronic thermostat
- Temperature settings: comfort, economy, anti-frost
- Adjustable thermostat control
- 7 day timing programme is set using 1 hour time slots
- 3 modes - manual, automatic & temporary manual
- Blue LCD screen. Operating switch
- Tamper proof heating schedule lock
- Frost guard protection
- Thermal uniformity
- Remote control
- Thermal cut-off for extra safety
- Wall mount or free standing
- Safe, clean and easy to operate
- White powder coated finish
- No maintenance required
- All radiators are supplied with wall fixing brackets and feet
- Supplied with 1.3m length cable



ref	description	elements	width	height	depth	weight
HE600	600W slimline electric radiator - White finish	4	410mm	580mm	55mm	4kg
HE900	900W slimline electric radiator - White finish	6	550mm	580mm	55mm	5kg
HE1200	1200W slimline electric radiator - White finish	8	690mm	580mm	55mm	6kg
HE1500	1500W slimline electric radiator - White finish	10	830mm	580mm	55mm	8kg



Designer XR Electric Radiators

Stylish, electric radiators featuring a built-in, state of the art, energy management and control system based on an integrated range of technical features.

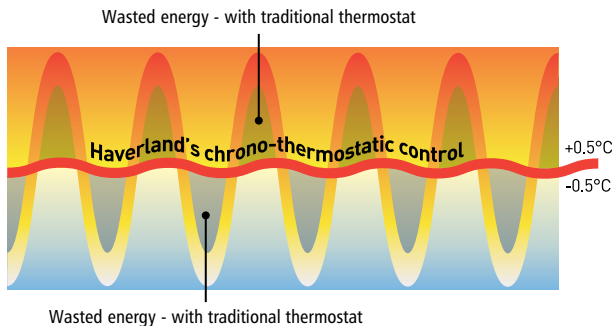


Designer
XR

Electronic Chrono-Thermostat

Unlike traditional heating systems, which mostly utilise mechanical thermostats, Haverland provide higher levels of energy efficiency by using electronic chrono-thermostatic control.

This state of the art solution provides high precision temperature control, which ensures that your precious energy is accurately controlled and optimised to provide major energy savings:



Traditional heating systems waste energy by allowing heat to fluctuate around the set temperature. Haverland's high precision chrono-thermostat controls temperatures to within $\pm 0.5^{\circ}\text{C}$.

Precise 'Zonal' Heating

In a Designer XR heating system, each room or area is treated as a 'zone' and therefore controlled precisely in terms of a specific temperature setting and heating schedule. Precise zonal control optimises energy usage and enhances further energy savings. Haverland XR meets the requirements of Part L building regulations and is used to provide 'partitioned' heating systems in new build office developments etc.

Built-in Digital Programming

Featuring 7 typical 'lifestyle' heating schedules which can be easily adjusted to suit specific requirements, plus one 'bespoke' schedule.

Thermo-dynamic Media

A high density, thermo-dynamic fluid is used in Designer XR for general heating applications such as houses, apartments, business premises etc.



Haverland radiant heating performance warms you and not the air, providing a comfortable temperature throughout the room.

Built-in energy monitoring

Keep track of energy usage for up to 1 month.

Built-in Energy Monitoring

This feature encourages end-users to monitor energy use, enabling them to make reductions in radiator temperature settings (for example, by 1°C). This simple action can result in significant energy savings between 6-8%, without impairing thermal comfort!

Thermal 'Safety Limiter'

Ensures that the surface temperature across the face of the radiator does not exceed 75°C . Haverland have leading European certifications and accreditations for this safety feature.

Thermal Uniformity

Another key feature - The surface temperature across the whole face of the radiator is uniform to within $\pm 0.5^{\circ}\text{C}$. This means that there are no 'hot and cold' spots as experienced with traditional radiators, thus enhancing radiant performance.

No Damage to Decor

Designer XR radiators will not leave dirty marks or stains on your decor. Haverland have European accreditations and certifications for these features.

Designer XR Electric Radiators

Features:

- Available in 500W - 1500W models
- State of the art energy management and control system
- Electronic chrono-thermostatic control
- Built-in energy monitoring
- Digital programmer with 7 heating schedules, plus one bespoke option
- Optimised energy use
- Three temperature settings: Comfort, economy and anti-frost
- Thermal uniformity
- Easy to install - Minimal costs
- No disruption or damage to decor
- No boiler to purchase and service
- No plumbing or expensive pipework to install
- Lock-out feature
- Supplied with 1.5m length cable



ref	description	elements	width	height	depth	weight
XR4	500W Designer XR radiator - White finish	4	447mm	580mm	94mm	11kg
XR6	700W Designer XR radiator - White finish	6	606mm	580mm	94mm	15kg
XR8	1000W Designer XR radiator - White finish	8	765mm	580mm	94mm	19kg
XR10	1250W Designer XR radiator - White finish	10	924mm	580mm	94mm	23kg
XR12	1500W Designer XR radiator - White finish	12	1083mm	580mm	94mm	27kg



230V CE IP24 RoHS COMPLIANT



Air Warming

Designer Inerzia Dry Stone Radiators

Dry stone technology is a highly effective thermo-dynamic medium which absorbs heat quickly and then radiates it in a more intensified form.



Designer
**INERZIA
DRY STONE**



The Designer Inerzia range is specifically designed to meet the challenge of heating rooms or spaces in larger houses, public areas, communal stairwells, listed, public and commercial buildings, offices etc.

These environments, which typically have high ceilings, open-plan design and large windows, were always considered to be expensive and difficult to heat using traditional heating methods. However, the energy efficient and intensified performance of Inerzia Dry Stone have made it a cost-effective and viable heating solution.

The secret of Inerzia's success lies in Haverland's Dry Stone thermal technology. This lightweight, thermal medium provides a more imposing level of thermal performance.

Features:

- Intensified thermal output
- State-of-the-art energy management and control
- High precision chrono-thermostatic control
- Digital programming
- Energy saving
- Takes up less space than typical oil-filled radiators
- Supplied with 1.5m length cable



RC8TTI

ref	description	elements	width	height	depth	weight
RC8TTI	1000W Inerzia Dry Stone radiator - White finish	8	765mm	580mm	100mm	21kg
RC10TTI	1500W Inerzia Dry Stone radiator - White finish	10	924mm	580mm	100mm	26kg
RC12TTI	1800W Inerzia Dry Stone radiator - White finish	12	1083mm	580mm	100mm	30kg



Haverland's built-in digital programme controllers allow the temperature settings of each radiator to be set individually so that different "comfort zones" may be created throughout the building.



Designer RCE Electric Radiators

The unobtrusive shape and styling allow it to blend in with its surroundings and its clean technology means no stains or damage to decor.



Designer
RCE



A budget option for low to medium thermal applications, the RCE is an attractive addition to any interior or environment.

Suitable for domestic homes, social housing, offices, shops and student accommodation.

Features:

- Available in 500W - 1500W models
- High precision, electronic-thermostatic control
- State-of-the-art energy management
- Digital programming
- 3 pre-programmed settings: Comfort, economy and anti-frost
- 7 heating schedules + 1 bespoke
- Supplied with 1.5m length cable



RC4E

ref	description	elements	width	height	depth	weight
RC4E	500W Designer RCE radiator - White finish	4	435mm	580mm	94mm	11kg
RC6E	750W Designer RCE radiator - White finish	6	593mm	580mm	94mm	15kg
RC8E	1000W Designer RCE radiator - White finish	8	751mm	580mm	94mm	19kg
RC10E	1250W Designer RCE radiator - White finish	10	909mm	580mm	94mm	23kg
RC12E	1500W Designer RCE radiator - White finish	12	1067mm	580mm	94mm	27kg



Designer RCA Electric Radiators

A simple heating solution with precise control. The RCA range is the ideal solution for sheltered housing, care homes and hotel rooms.



Designer
RCA



The Designer RCA is a simple to control radiator of robust construction. The specification includes an ambient temperature limiter of 25°C and a proven track record of reliability and performance. RCA radiators have just two controls - The top is a simple on/off switch, while the other regulates the amount of heat, making RCA ideal for people who prefer simple to use controls.

Features:

- Available in 500W - 1500W models
- Heavy duty specification
- High precision, electronic-thermostatic control
- 3 temperature settings: Comfort, economy and anti-frost
- Ambient temperature Limiter (25°C maximum)
- Thermo-Dynamic fluid
- Simple to use controls
- Supplied with 1.5m length cable



1. On/off switch
2. Thermostat with three settings: Comfort, economy, anti-frost (ie, 22°C, 16°C and 7°C)



ref	description	elements	width	height	depth	weight
RC4A	500W Designer RCA radiator - White finish	4	435mm	580mm	94mm	11kg
RC6A	750W Designer RCA radiator - White finish	6	593mm	580mm	94mm	15kg
RC8A	1000W Designer RCA radiator - White finish	8	751mm	580mm	94mm	19kg
RC10A	1250W Designer RCA radiator - White finish	10	909mm	580mm	94mm	23kg
RC12A	1500W Designer RCA radiator - White finish	12	1067mm	580mm	94mm	27kg



Designer Conservatory Electric Radiator

The all-year-round heating solution specifically designed for conservatories and garden rooms with dwarf walls.



Designer
CONSERVATORY



Haverland Conservatory radiators are specifically designed to provide efficient heating in conservatories and garden rooms, including those with dwarf walls.

The specification features two programmable settings controlled by a built-in electronic thermostat. The control panel is positioned upwards, enabling the user to easily set the temperature and operating mode.

Features:

- Designed for low level dwarf walls
- Durable construction
- Easy and quick to install
- LCD electronic thermostat with timer function
- Weekly temperature programming
- Thermo-dynamic inertia media
- Supplied with 1.5m length cable



ref	output	finish	elements	dimensions (W x H x D)	weight
RC12B	1200W	White	12	1025 x 380 x 85mm	20kg



Air Warming

Mini Oil Filled Radiator

Stylish, mobile and convenient, giving warmth when and where it's needed. Filled with environmentally friendly oil. c/w cable and plug.



ref: **LEV9RM900**

Features:

- 900W Output
- 9 radiator fins
- Filled with environmentally friendly conducting oil
- Thermal cut-off for extra safety
- Adjustable thermostat control
- High quality construction
- Tough durable finish
- Illuminated operating switch
- Frost guard protection
- Cable and plug included
- Dimensions (W x H x D):
345 x 390 x 150mm



Slimline Oil Filled Radiators

Stylish, mobile and convenient, giving warmth when and where it's needed. Incorporating a mechanical 24 hour timer and filled with environmentally friendly oil. c/w cable and plug.

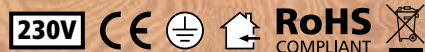


Features:

- 3 heat settings
- Filled with environmentally friendly conducting oil
- Thermal cut-off for extra safety
- Safety tip-over switch
- Adjustable thermostat control
- High quality construction
- 24 hour segmented dial timer (15 minute intervals)
- Tough durable finish
- Operating switches with indication lights
- Handle and castors for easy movement
- Frost guard protection
- Cable and plug included
- Wrap around cable storage
- Dimensions (W x H x D):
LEVRS1500T: 340 x 635 x 240mm
LEVRS2000T: 410 x 635 x 240mm



ref	max output	fins	heat settings	timer
LEVRS1500T	1500W	7	600W/900W/1500W	24 hours
LEVRS2000T	2000W	9	800W/1200W/2000W	24 hours



Towel Rails

Levanté
air warming

All towel rails are manufactured to EN 60335-1/A13:2008 and EN 60335-2-43:2008 for safety and peace of mind, plus built using quality components and procedures:

- Standard and thermostatic element versions are pre-filled with water and glycol - an oily substance which diffuses the heat from the heating element, preventing internal corrosion.
- Manufactured using Ø19mm metal bar, which gives a larger heat surface area
 - *For faster heat up and drying time*
 - *Energy saving*
- PTC electric elements - superior quality.
 - *Fast response time to temperature changes*
 - *Saves valuable energy*
- Electroplated finish to 30 microns.
 - *Using copper and nickel, preventing corrosion and staining for superior protection*
 - *3 micron paint/chrome finish for durability (impact and scuffs), giving longer life expectancy*
- Pressure tested to 10 bar.
 - *'Standard' industry testing is 6 bar*
 - *Oven welded joints - Superior and more reliable than hand welded joints*

Levanté towel rail guarantee:

- **Body - 5 years**
- **Electric element - 2 years**



Ladder Style Towel Rails

Standard Element Electric Towel Rails

Levante 230V electric towel rails, incorporating "Positive Thermal Co-efficient (PTC)" technology.

The PTC element automatically maintains temperature by giving maximum power at lower temperatures and reduced power once the required output level is reached. The element is self regulating to eliminate burn out.



Chrome - Straight Bar

ref	dimensions (mm)		bar qty	rating (W)
	width	height		
LEV470SECTR150	400	700	12	150
LEV5825SECTR150	500	825	17	150
LEV510SECTR300	550	1000	16	300
LEV5125SECTR300	550	1200	20	300
LEV516SECTR600	550	1600	28	600

White - Straight Bar

ref	dimensions (mm)		bar qty	rating (W)
	width	height		
LEV470SEWTR150	400	700	12	150
LEV510SEWTR300	550	1000	16	300
LEV5125SEWTR300	550	1200	20	300
LEV516SEWTR600	550	1600	28	600

Chrome - Curved Bar

ref	dimensions (mm)		bar qty	rating (W)
	width	height		
LEV470SECCTR150	400	700	12	150
LEV5825SECCTR150	500	825	17	150
LEV510SECCTR300	550	1000	16	300
LEV5125SECCTR300	550	1200	20	300
LEV516SECCTR600	550	1600	28	600

White - Curved Bar

ref	dimensions (mm)		bar qty	rating (W)
	width	height		
LEV470SEWCTR150	400	700	12	150
LEV510SEWCTR300	550	1000	16	300
LEV5125SEWCTR300	550	1200	20	300
LEV516SEWCTR600	550	1600	28	600



CHROME - STRAIGHT BAR

WHITE - STRAIGHT BAR

CHROME - CURVED BAR

WHITE - CURVED BAR

Ladder Style Towel Rails

Thermostatic Electric Towel Rails

Levante 230V electric towel rails. Incorporating a PTC thermostat with boost facility for instant heat, allowing the user full temperature control.



Chrome - Straight Bar

ref	dimensions (mm)		bar qty	rating (W)
	width	height		
LEV470ECTR150	400	700	12	150
LEV582SECTR150	500	825	17	150
LEV510ECTR300	550	1000	16	300
LEV512SECTR300	550	1200	20	300
LEV516ECTR600	550	1600	28	600

White - Straight Bar

ref	dimensions (mm)		bar qty	rating (W)
	width	height		
LEV470EWTR150	400	700	12	150
LEV510EWTR300	550	1000	16	300
LEV512SEWTR300	550	1200	20	300
LEV516EWTR600	550	1600	28	600

Chrome - Curved Bar

ref	dimensions (mm)		bar qty	rating (W)
	width	height		
LEV470ECCTR150	400	700	12	150
LEV582SECCTR150	500	825	17	150
LEV510ECCTR300	550	1000	16	300
LEV512SECCTR300	550	1200	20	300
LEV516ECCTR600	550	1600	28	600

White - Curved Bar

ref	dimensions (mm)		bar qty	rating (W)
	width	height		
LEV470EWCTR150	400	700	12	150
LEV510EWCTR300	550	1000	16	300
LEV512SEWCTR300	550	1200	20	300
LEV516EWCTR600	550	1600	28	600



CHROME - STRAIGHT BAR

WHITE - STRAIGHT BAR

CHROME - CURVED BAR

WHITE - CURVED BAR

Ladder Style Towel Rails

Wet Towel Rails

Stylish, space saving and practical, the Levante range of wet towel rails can be easily connected to an existing central heating supply.

All wet towel rails are now supplied with a Dual Fuel adaptor, for use with the Dual Fuel kits on the following page.



Chrome - Straight Bar

ref	dimensions (mm)		bar qty	rating (BTU)
	width	height		
LEV470WCTR	400	700	12	448
LEV5825WCTR	500	825	17	1125
LEV510WCTR	550	1000	16	731
LEV5125WCTR	550	1200	20	893
LEV516WCTR	550	1600	28	1219

White - Straight Bar

ref	dimensions (mm)		bar qty	rating (BTU)
	width	height		
LEV470WWTR	400	700	12	448
LEV510WWTR	550	1000	16	731
LEV5125WWTR	550	1200	20	893
LEV516WWTR	550	1600	28	1219

Chrome - Curved Bar

ref	dimensions (mm)		bar qty	rating (BTU)
	width	height		
LEV470WCCTR	400	700	12	448
LEV5825WCCTR	500	825	17	1125
LEV510WCCTR	550	1000	16	731
LEV5125WCCTR	550	1200	20	893
LEV516WCCTR	550	1600	28	1219

White - Curved Bar

ref	dimensions (mm)		bar qty	rating (W)
	width	height		
LEV470WWCTR	400	700	12	150
LEV510WWCTR	550	1000	16	300
LEV5125WWCTR	550	1200	20	300
LEV516WWCTR	550	1600	28	600



CHROME - STRAIGHT BAR

WHITE - STRAIGHT BAR

CHROME - CURVED BAR

WHITE - CURVED BAR

Dual Fuel Kits

Consisting of an electric element and 'T' piece, these kits allow wet towel rails to be operated on a 'Dual Fuel' basis - either by the central heating or mains electricity and are complete with 1.5 metre of cable.

Available as either a standard PTC element or thermostatically controlled. The IP54 rating ensures safe operation.



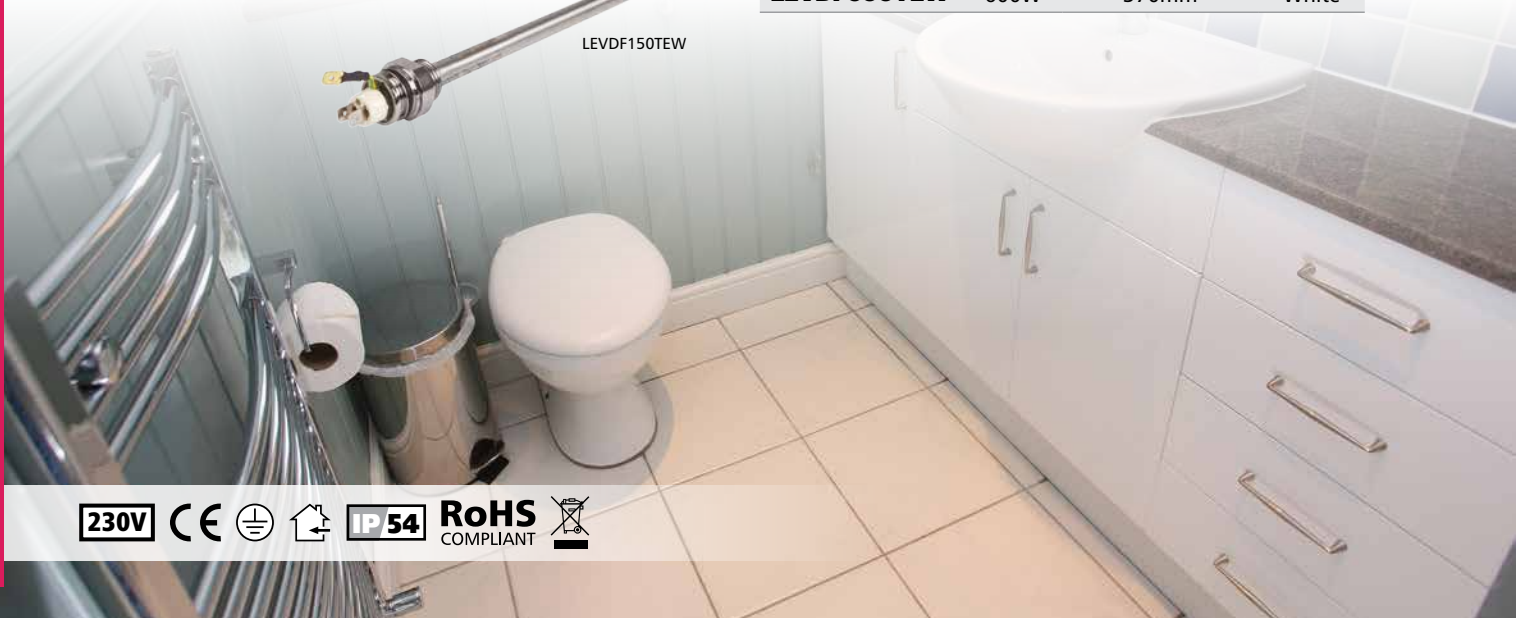
Standard Element

ref	output	element length	finish
LEVDF150EC	150W	178mm	Chrome
LEVDF300EC	300W	240mm	Chrome
LEVDF600EC	600W	450mm	Chrome



Thermostatic Element

ref	output	element length	finish
LEVDF150TEC	150W	290mm	Chrome
LEVDF300TEC	300W	300m	Chrome
LEVDF600TEC	600W	370mm	Chrome
LEVDF150TEW	150W	290mm	White
LEVDF300TEW	300W	300m	White
LEVDF600TEW	600W	370mm	White



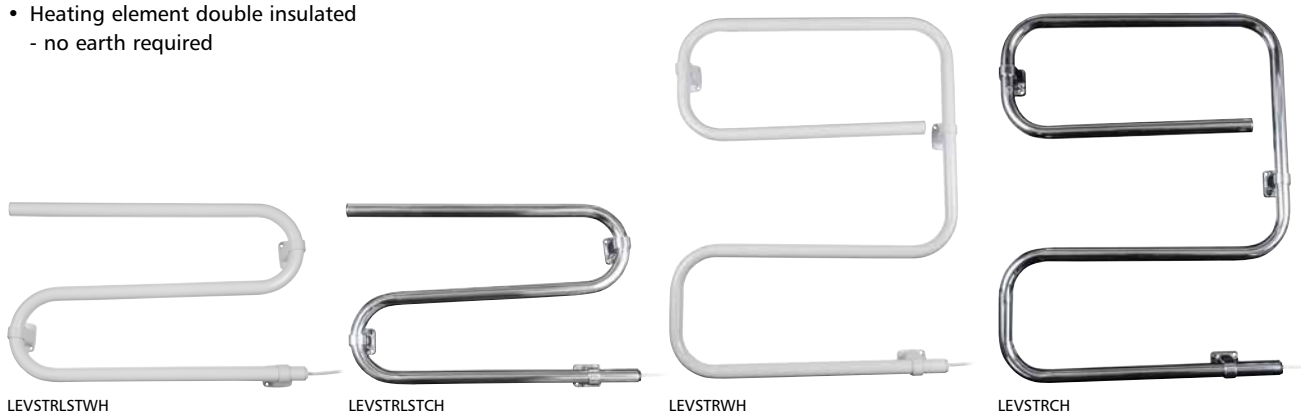
S-Type Towel Rails

Maintenance free, pre-wired towel rails. Ideal for use in hotel bathrooms or en-suites. Low surface temperature options available.



Features:

- 1.5 metre of rubber cable (0.75mm²) without plug.
- Wall mount only
- Set of 3 PE wall brackets
- Choice of finishes: white or chrome
- 2 year unlimited guarantee
- Heating element double insulated - no earth required



ref	description	finish	width	height	depth	diameter
LEVSTRLSTWH	35W low surface temperature towel rail	White	500mm	320mm	85mm	25mm
LEVSTRLSTCH	25W low surface temperature towel rail	Chrome	500mm	320mm	85mm	25mm
LEVSTRWH	80W towel rail	White	500mm	650mm	85mm	25mm
LEVSTRCH	50W towel rail	Chrome	500mm	650mm	85mm	25mm



XTAL Plasma Towel Rails

An innovative, state-of-the-art range of Designer towel rails to complement stylish, contemporary design environments. XTAL also meets the growing demand for enhanced towel rail heating comfort and performance.



Designer
**XTAL
PLASMA**



The new range features a 'plasma style', flat plate of tempered safety glass, which provides heating across its entire surface area, thus maximising towel drying and energy efficiency. Heating schedules are controlled via a wireless remote programmer.

Features:

- Innovative flat plate plasma style
- Stylish brushed aluminium rails
- High precision electronic digital thermostat
- 9 pre-set programmes with 4 bespoke options
- Tempered safety glass
- Heats across the entire surface area
- Radio frequency remote control digital programmer



RF PROGRAMMER



XTAL6B



XTAL4N

ref	description	finish	width	height	depth	weight
XTAL6N	600W plasma style towel designer towel rail	Black/ Aquamarine	580mm	1090mm	145mm	13kg
XTAL6B	600W plasma style towel designer towel rail	White	580mm	1090mm	145mm	13kg
XTAL4N	400W plasma style towel designer towel rail	Black/ Aquamarine	480mm	840mm	145mm	10kg
XTAL4B	400W plasma style towel designer towel rail	White	480mm	840mm	145mm	10kg



Designer TE Towel Rails

A cost effective solution for creating a bathroom comfort zone. These towel rails are not only functional, they are also an attractive and cost effective design feature in any modern or period-style bathroom.



Designer
TE

Standard ladder style towel rails. Available in white enamel and in three convenient sizes, the range is supplied with wall supports and mounting template.



TE425E



TE700I

TE700I model features an infrared remote control digital programmer.



ref	description	elements	width	height	depth	weight
TE425E	425W electric towel rail with thermostatic control	17	500mm	800mm	110mm	13.5kg
TE700E	700W electric towel rail with thermostatic control	25	500mm	1200mm	110mm	19.5kg
TE700I	700W electric towel rail with digital programmer	25	500mm	1200mm	110mm	19.5kg



Underfloor Heating



Our underfloor heating products are manufactured to the latest European standards and are available in a range of options and sizes from cable and mat, to energy saving foil kit systems to suit almost any application.

All of our under floor heating kits are supplied with a 10 year warranty for your peace of mind and full installation instructions are also included. Our technical helpline is there to guide you through from product selection to installation advice.

Whether cable, matting, foil or bespoke systems, Levante has a solution for you.

Versatile Cable Kits



Energy Saving Foil Kits



Quick Installation Matting Kits



Underfloor Heating Cable Kits

The Levanté Cable Kit is a complete system that includes everything that you need to install underfloor heating - all packaged neatly in one box.



Thin, yet robust cable (3.2mm diameter) can be installed in all rooms around the home including kitchens, bathrooms, and under all types of floor - tiles, stone, laminate*, timber* and low tog carpets*.

Can be laid on timber, concrete or high compression strength insulation.

Using a 10mm insulation board combined with a thin layer of self-levelling compound gives only a very small increase in overall floor height.

Kit Contents:

- Heating tape (length dependent on model)
- 3m connecting cable
- Fixing tape (number of rolls dependent on model)
- Programmable digital thermostat
- Underfloor sensor
- Conduit pipe (for use with sensor)



Cable Kits

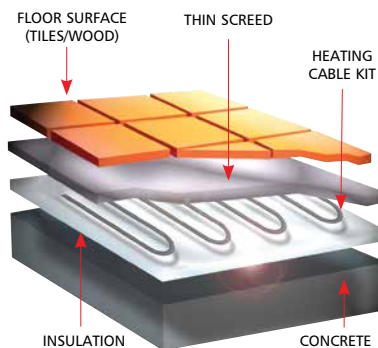
ref	power	length	coverage	
			100W/m ²	150W/m ²
LEV140-14D	140W	14m	1.4m ²	0.9m ²
LEV200-19D	200W	19m	2.0m ²	1.3m ²
LEV250-24D	250W	24m	2.5m ²	1.7m ²
LEV330-31D	330W	31m	3.3m ²	2.2m ²
LEV400-37	400W	37m	4.0m ²	2.7m ²
LEV470-44D	470W	44m	4.7m ²	3.1m ²
LEV530-49D	530W	49m	5.3m ²	3.5m ²
LEV640-60D	640W	60m	6.4m ²	4.3m ²
LEV790-74D	790W	74m	7.9m ²	5.3m ²
LEV940-88D	940W	88m	9.4m ²	6.3m ²
LEV1170-108D	1170W	108m	11.7m ²	7.8m ²
LEV1360-126D	1360W	126m	13.6m ²	9.1m ²
LEV1700-159D	1700W	159m	17.0m ²	11.3m ²
LEV2050-190D	2050W	190m	20.5m ²	13.7m ²

Additional Cable Only

ref	power	length	100W/m ²	150W/m ²
LEV1700-159	1700W	159m	17.0m ²	11.3m ²
LEV2050-190	2050W	190m	20.5m ²	13.7m ²

technical tips...

To ensure maximum efficiency of this system, we recommend the use of flooring insulation sheets (ref **LEV6012010-1** or **LEV601206-01**). See page 33 for further details.



* Cable must be covered with a flexible screed before covering with laminate, timber or carpet.

Underfloor Heating Mat Kits

The Levante underfloor heating mat is a self-adhesive heating mat consisting of a heating cable fixed with a specific centre to centre (c-c) distance on a plastic mat. The construction makes it fast and easy to install.

The mat is rolled out and fixed in only one operation and is then covered with thin flexible screed or flexible tile adhesive. The total build-up height is only approx. 4mm. The mat is approved for lying directly onto materials such as particle boards. It can also be laid on concrete and gypsum boards.

The Levante underfloor heating cable mat is available in a variety of sizes and two power ratings - 120W and 175W for different applications.

120W/m² Heating Mat Kits

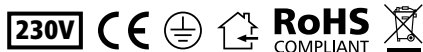
For regular shaped internal rooms, use under tiles, stone, laminate*, timber* and low tog carpets*. Can be laid over timber, concrete or high compression strength insulation.

A mat size smaller than the area to be heated must be selected. Typically 90-95% floor coverage is ideal.

ref	power	length	area
LEV120-1.25D	150W	2.5m	1.25m ²
LEV120-1.7D	200W	3.4m	1.70m ²
LEV120-2.1D	250W	4.2m	2.10m ²
LEV120-2.7D	340W	5.4m	2.70m ²
LEV120-3.4D	400W	6.8m	3.40m ²
LEV120-3.9D	480W	7.8m	3.90m ²
LEV120-4.4D	530W	8.8m	4.40m ²
LEV120-5.4D	640W	10.8m	5.40m ²
LEV120-6.6D	780W	13.2m	6.60m ²
LEV120-7.9D	940W	15.8m	7.90m ²
LEV120-8.8D	1060W	17.6m	8.80m ²
LEV120-9.6D	1170W	19.2m	9.60m ²
LEV120-10.6D	1270W	21.2m	10.60m ²
LEV120-11.5D	1380W	23.0m	11.50m ²

Additional Mats Only

ref	power	length	area
LEV120-10.6	1270W	21.2m	10.60m ²
LEV120-11.5	1380W	23.0m	11.50m ²



* Mat must be covered with a flexible screed before covering with laminate, timber or carpet.

Kit Contents:

- 500mm wide cable mat (length dependent on model)
- 3m connecting cable
- Programmable digital thermostat
- Underfloor sensor
- Conduit pipe (for use with sensor)

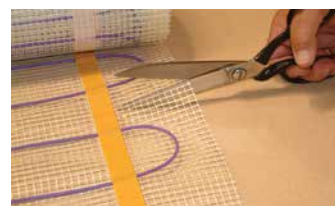


Features:

- Heats the whole room - no need for radiators.
- Provides a perfect living comfort that is unmatched by any other form of heating.
- Very low running costs.
- Quick and easy to install.
- Clean and silent in operation.
- Totally maintenance free.
- Highly efficient heating system.
- Additional mat lengths are also available.

technical tips...

To ensure maximum efficiency of this system, we recommend the use of flooring insulation sheets (ref **LEV6012010-1** or **LEV601206-01**). See page 33 for further details.



Underfloor Heating Mat Kits

The Levante underfloor heating mat is a self-adhesive heating mat consisting of a heating cable fixed with a specific centre to centre (c-c) distance on a plastic mat. The construction makes it fast and easy to install as a primary heat source.



175W/m² Heating Mat Kits

For rooms with higher heat loss
For regular shaped conservatories and Garden rooms, use under tiles and stone only.

Kit Contents:

- 500mm wide cable mat (length dependent on model)
- 3m connecting cable
- Conduit pipe

Please Note:

A thermostatic controller is not included with this kit.



Mat Kits

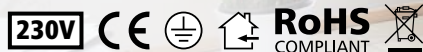
ref	power	length	coverage
LEVUFH-1M	175W	2m	1m ²
LEVUFH-1.5M	263W	3m	1.5m ²
LEVUFH-2M	350W	4m	2m ²
LEVUFH-3M	525W	6m	3m ²
LEVUFH-4M	700W	8m	4m ²
LEVUFH-5M	875W	10m	5m ²
LEVUFH-6M	1050W	12m	6m ²
LEVUFH-7M	1225W	14m	7m ²
LEVUFH-8M	1400W	16m	8m ²
LEVUFH-10M	1750W	20m	10m ²
LEVUFH-12M	2100W	24m	12m ²

technical tips...

175W heating kits require a thermostat controller (available separately) - See page 34 for details.

technical tips...

To ensure maximum efficiency of this system, we recommend the use of flooring insulation sheets (ref **LEV6012010-1** or **LEV601206-01**). See page 33 for further details.



Underfloor Foil Heating Kits

Levante foil heating is an easy to fix room heating system that can be used as the only source of heating in a room, without the need for radiators or other fixed or mobile heaters.

The entire floor surface becomes a radiant heat source providing invisible and silent heat.



The Levante foil heating system is cost effective to run. When the thermostat allows maximum power to the floor, each square metre uses only as much energy as two 60 Watt light bulbs. In a well insulated room the system will usually need full power for only 20% of the time.

Specifically designed for use with laminate flooring up to 15mm thick, Levante foil heating can be used on both concrete and timber subfloors, in conjunction with 6mm insulation.

This product is not suitable for use in bathrooms, shower rooms or wet rooms or under ceramic tiling. Levante foil heating should not be fitted under fixed units such as kitchen cabinets and wardrobes.

Please Note:

A thermostatic controller is not included with this kit.



technical tips...

Foil heating mat kits require a thermostat controller (available separately) - See page 34 for details.

130W/m² Foil Heating Kits

For regular shaped internal rooms, use under laminate, and low tog carpets*. Can be laid over timber, concrete or high compression strength insulation.

ref	power	length	coverage
LEV130-02	260W	4m	2m ²
LEV130-03	390W	6m	3m ²
LEV130-05	650W	10m	5m ²

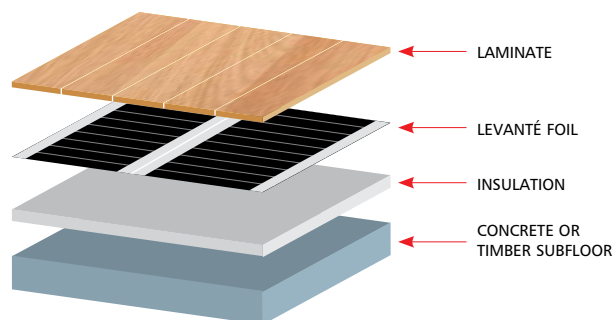
160W/m² Foil Heating Kits

For regular shaped conservatories and Garden rooms, use under laminate, and low tog carpets*. Can be laid over timber, concrete or high compression strength insulation.

ref	power	length	coverage
LEV160-02	320W	4m	2m ²
LEV160-03	480W	6m	3m ²
LEV160-05	800W	10m	5m ²

technical tips...

Insulation boards **MUST** be used with this system (ref LEV0610-01). See page 33 for further details.



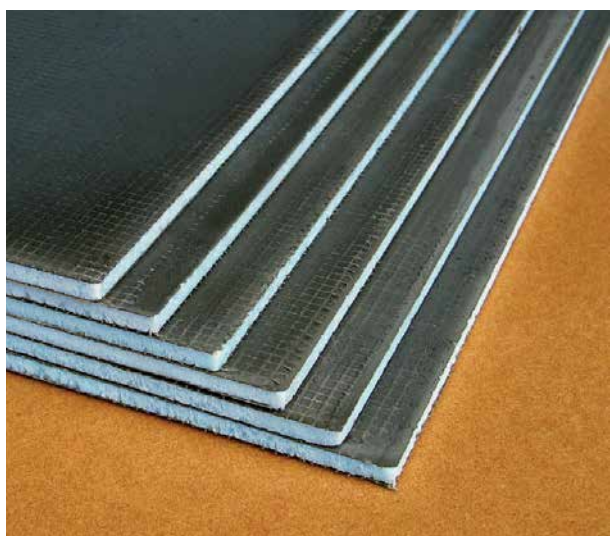
* Foil must be covered with 6mm ply or MDF board before covering with carpet.

Flooring Insulation

These light weight, high efficiency thermal boards are an ideal choice when fitting underfloor heating on to a poorly insulated concrete or screed base.



Standard Flooring Insulation



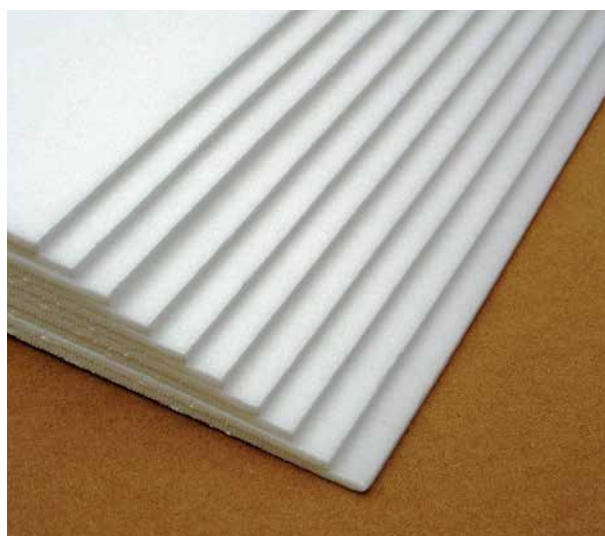
ref: **LEV6012010-01** - 10mm Thick Sheet

ref: **LEV601206-01** - 6mm Thick Sheet

High performance insulation material with excellent thermal and acoustic properties.

- 1200 x 600mm sheet
- 0.75m² coverage.

Insulation for Foil Kits

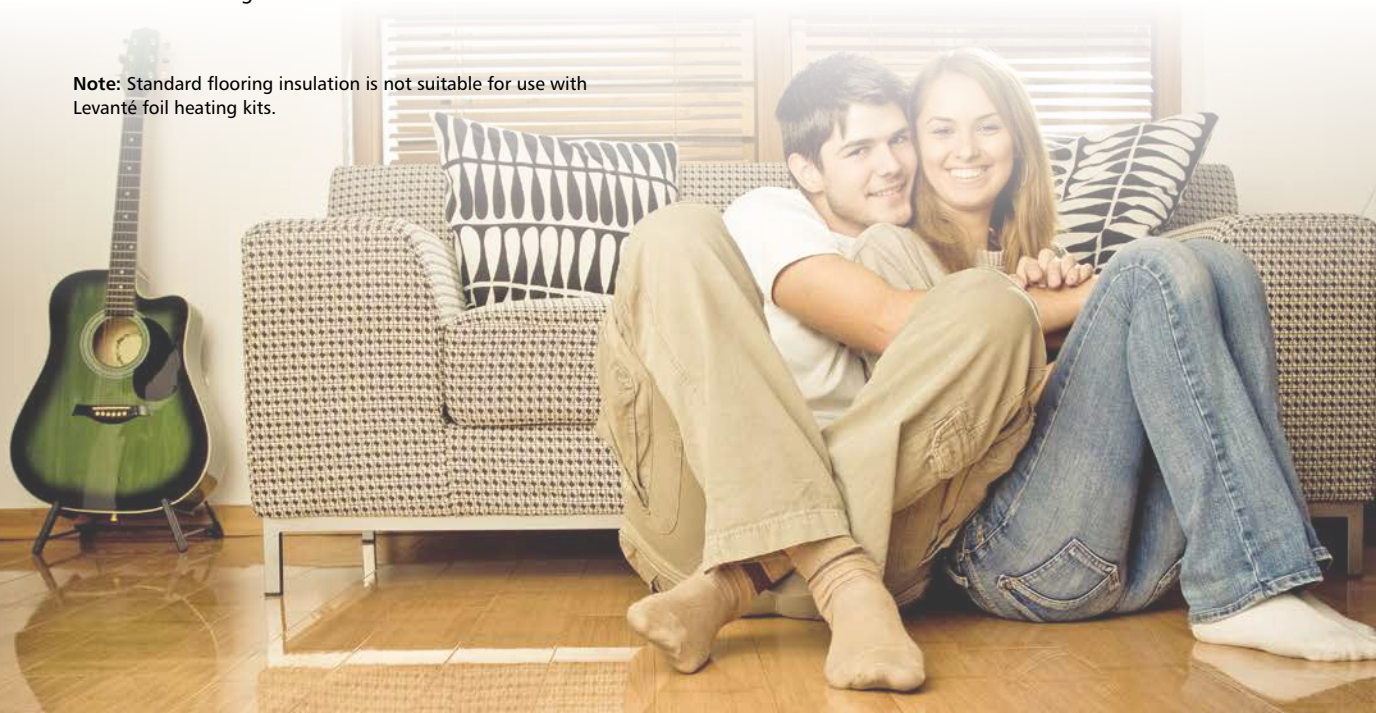


ref: **LEV0610-1**

High performance insulation material with excellent thermal and acoustic properties. It is moisture resistant, effectively blocking out damp and coldness from solid flooring.

- 1000 x 1000mm sheet
- 1m² coverage.

Note: Standard flooring insulation is not suitable for use with Levante foil heating kits.



Underfloor Heating Thermostats

A range of underfloor heating controls including dial type, digital and touchscreen. Designed to be flush mounted, resulting in a slim profile on the wall after installation.

heatmiser™



Touchscreen Thermostat

ref: **LEVHMTSET**

The Heatmiser Touchscreen is a programmable room thermostat for electric underfloor heating featuring 5 user-selectable sensing modes:

- Built in Air Sensor
- Remote Air Sensor
- Floor Sensor Only
- Floor Sensor and Built in Air Sensor
- Floor Sensor and Remote Air Sensor

Features:

- Blue back-lit touchscreen
- Supplied with a 3m remote floor probe
- Heating: 5/2 or 7 day programming
- Holiday function
- Flush mounting (35mm back box)
- Key locking facility
- Frost protection with adjustable temperature
- IP20 rated
- Outputs: Volt free 13 Amp maximum
- Dimensions: 110mm x 100mm x 17mm



Digital Thermostat

ref: **LEVHMET**

The Heatmiser Slimline Thermostat is a switchable thermostat offering 3 modes of operation:

- Air only measurement
- Floor only measurement
- Air and Floor measurement

Featuring a slimline design and a large LCD display with backlight, this is a 230V thermostat offering 16A switching making it ideal for electric underfloor heating.

Features:

- Temperature range: 5-35°C (41-95°F)
- 5/2 day programming mode
- 7 day programming mode
- 4 heating levels
- Holiday function
- Frost protection
- Max switching current: 16 Amp
- Accuracy: +/-1°C
- Adjustable switching differential
- Dimensions: 98mm x 85mm x 13mm



Electronic Dial Thermostat

ref: **LEVHMDT**

The Heatmiser electronic dial type thermostats are simple to use and offer a greater level of accuracy than standard bi-metallic versions. These thermostats are used in conjunction with a separate programmer.

Features:

- Temperature range: 5-35°C (41-95°F)
- Surface mount for easy installation
- Built in air sensor
- Power on and heat on indication
- Max switching current: 13 Amp
- Accuracy: +/-1.5°C
- Adjustable switching differential
- Dimensions: 92mm x 92mm x 34mm



Mirror Heaters

The simple to install Mirror Heaters enable you to shave or apply make-up at your leisure without having to worry about the bathroom mirror steaming up.

At only half a millimetre thick the heater is totally invisible in your bathroom and the only way that you'll know that it's there is the clear reflection it provides in a steamy environment.



Installation to any bathroom mirror is very easy. Simply apply to the back of the mirror and connect to a power supply. The lighting or extraction fan circuit are ideal or it can have it's own circuit if there's no supply nearby. Then just flip a switch and the heater automatically warms up to keep your mirror mist free, leaving a clear image reflected.

Available in a number of sizes to suit most mirrors, the heaters can be used individually or, for large mirrors, in multiples to clear the whole mirror. With a unique construction the heaters provide an unbeatable even heat across the their surface and are superbly reliable - backed up by a 10 year guarantee.

Features:

- Easy installation
- Low running costs
- Silent running
- Multi-layered insulation
- Low, even temperature

Specification:

- Aluminium heating element 7µm
- Multi-layer polymer enclosure
- Pad thickness 0.5mm
- Silicon termination 55 x 45 x 5mm
- 1 metre twin core 0.75mm oval cable
- VDE approval

ref	dimensions	power	voltage
LEV4045	400 x 450mm	70W	230V
LEV3060	300 x 600mm	70W	230V
LEV5060	500 x 600mm	85W	230V
LEV5776	570 x 760mm	85W	230V
LEV6012	600 x 1100mm	130W	230V





2.4kW Plinth Heater

Fits discreetly in the space beneath kitchen cupboards.
Can be installed in similar areas such as stair risers and other built in furniture



ref: **LEV2.4PH**

Features:

- 3 facia options included:
Brown (standard fixed), white and stainless steel
- Designed to fit to a plinth or board
- Adjustable for hot or cold air
- Choice of 3 heat setting: 800W, 1600W or 2400W Max.
- Safety re-set facility
- Dimensions (W x H x D):
480 x 125 x 210mm



3kW Over Door Air Curtain

An electrical over door heater which can be used for small doors, kiosk or drive through windows.



ref: **LEV3KAC**

Features:

- Ceiling or wall mounting
(vertical or horizontal)
- c/w easy fix bracket
- 3 switched controls for fan only and 2 heat settings (1500W and 3000W)
- Maximum air speed 4.8m/sec
- Air volume 254m³/hr
- Noise level 60dB
- c/w 1.5 metre of cable
- Pressed steel epoxy coated body
- Weight 5.2kg
- Auto reset thermal cut-out protection
- Dimensions (W x H x D):
580 x 105 x 205mm



2kW Fan Heaters

A family of 230V fan heaters, for a variety of heating solutions, all with a thermal cut-out safety feature.

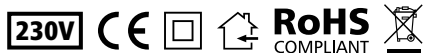


2kW Free Standing Fan Heater c/w Thermostat

ref: **LEVFP2000**

Features:

- 2 heat settings (1000W/2000W)
- Cold blow setting
- Adjustable thermostat
- Overheat protection with safety cut-out device
- Tip-over cut out switch
- Integrated carry handle
- Cable and plug included
- Dimensions (W x H x D): 210 x 265 x 150mm

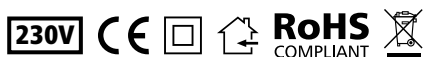


2kW Letterbox Style Fan Heater c/w Thermostat

ref: **LEVFLB2000**

Features:

- 2 heat settings (1000W/2000W)
- Cold blow setting
- Adjustable thermostat
- Overheat protection with safety cut-out device
- Cable and plug included
- Dimensions (W x H x D): 240 x 105 x 255mm



2kW Fan Heaters



2kW Bathroom Fan Heater c/w Pull Cord

ref: **LEVBHN2000**

Features:

- Wall mounted
- Thermal cut out
- Pull-down activation cord
- 2 heat settings (1000W/2000W)
- Fan only setting
- Dimensions (W x H x D): 227 x 240 x 117mm



Frostwatch Radiant Heaters

Wall mounting Frostwatch heaters, ideal for frost protection in conservatories and greenhouses etc.



200W Frostwatch Heater

ref: **LEVFW200**

Features:

- Adjustable thermostat
- Wall mounting
- Overheat protection
- Cable and plug included
- Dimensions (W x H x D):
357 x 120 x 75mm



500W Frostwatch Heater

ref: **LEVFW500**

Features:

- Adjustable thermostat
- Wall mounting
- Overheat protection
- Cable and plug included
- Dimensions (W x H x D):
290 x 250 x 145mm



Easy Ramp External Heating Mats

Anti-freeze tracing for ramps, steps and walkways. Keep garage access ramps, parking areas, outdoor bleachers and walkways free of snow and ice. Available in constant power and self-regulating versions.

**Ray
tech**



Raytech Easy Ramp consists of a constant wattage heating cable assembled with tape to form a heating mat, which is easily and quickly spread on the surfaces to be protected. Easy Ramp is ideal for solving the problems caused by ice formation and the accumulation of snow on the access ramps to garages, pathways, outdoor parking areas, footpaths, etc. It can be installed in concrete, asphalt, and interlocking bricks or under porphyry paving or other paving materials blocked with cement and sand.

The standard width of Easy Ramp pads is 600mm; a sufficient width to free the track of vehicle wheels from ice and snow or to create an extremely safe pedestrian pathway. The power density developed by Easy Ramp is 300W/m². The mat is available in various lengths which are easily adaptable to the size of the area to track and where the size of the mat is larger than that of the ramp, the excess part of mat can be easily folded 90 degrees.

The mat is supplied completely finished and ready for installation, complete with 4 meters of cold cable (3 x 1.5mm² or 3 x 2.5mm²) for connection to the power supply. The constant wattage heating cable, which constitutes the mat, is a 2 conductor heating cable, which is shielded; this allows one end only to be powered, making installation even faster and easier.

Technical Characteristics:

- Mat specific power: 300W/m²
- Power supply: 230V ~ 50/60 Hz
- Mat thickness: 7.5 mm
- Minimum installation temperature: + 5°C
- Maximum working temperature: + 80°C
- Cold cable (supply) length 4 metres -3 x 1.5mm² or 3 x 2.5mm²
- Heating cable type: 2 conductors, screened cable
- Heating cable dimensions: ~ 5 x 7mm
- Heating cable power: 25W/m
- Insulation: XLPE
- External sheath: PVC



ref	length	power
EASYRAMP4300	4m	670W
EASYRAMP7300	7m	1140W
EASYRAMP13300	13m	2560W
EASYRAMP21300	21m	3730W

technical tips...

Remember to remove the Easy Ramp matting before passing over the area in a vehicle.

Stop Ice Anti-freeze Maintenance

Use Stop Ice cable in conjunction with Linus thermal insulating tape to keep pipes, tanks, basins, valves and taps, meters etc from freezing.

Stop Ice is an innovative pre-assembled kit consisting of a constant wattage heating cable of 12W/m, complete with contact thermostat (installed on the end of the heating cable) and power cable with plug.

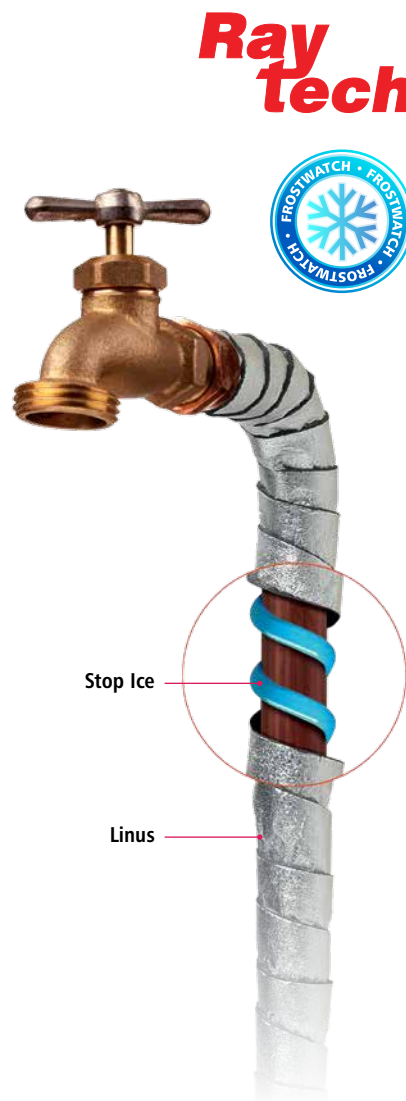
Stop Ice is particularly suitable for frost protection, and prevention of possible damages caused by low temperatures on pipes, valves, taps, water meters, troughs, bowls and small tanks. This is made even more effective by the use of Linus thermal insulation.

Benefits:

- Easy and quick to install
- No need for any external temperature control system, thanks to its built-in thermostat
- Low energy consumption

Please Note:

Stop Ice cable can be spiraled around the pipe, but not overlapped.



ref	description	length	power
STOPICE212	Stop Ice anti-freeze cable	2m	24W
STOPICE512	Stop Ice anti-freeze cable	5m	60W
STOPICE1012	Stop Ice anti-freeze cable	10m	120W
STOPICE1812	Stop Ice anti-freeze cable	18m	216W
LINUS	Linus thermal insulating tape	10m	-
STOPICEPLUS2	Full installation kit (Cable + tape)	2m	24W
STOPICEPLUS5	Full installation kit (Cable + tape)	5m	60W

Ice Killer Self Regulating Frost Protection Cable

ref: **ICEKILLER6**

Features:

- 30 metre self regulating cable
- 18W/m
- c/w termination pack
- Can be cut to required length



technical tips...

Ice Killer cable can be spiraled around the pipe, as well as being overlapped.

Frost Protection Heat Tape

Frost protection heat tape is designed for 'on pipe' applications to protect water from freezing. Heat tape is a constant wattage cable with a built-in frost thermostat, which closes at 5°C and opens at around 15°C - A true "fit and forget" product.



Ideal for use in non-accessible areas and in hostile environments

Ready for use - fixed length, pre terminated c/w 2 metre (tail) mains supply cable.

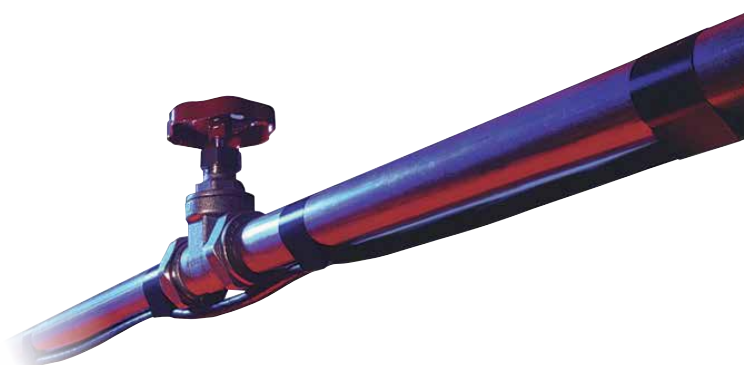
Also suitable for protecting central heating header tanks and gutters.

Note: This tape is not self regulating, meaning it must be fixed straight along the pipe. **DO NOT** spiral around the pipe. Plug not included.



LEVHT6.3/100W

ref	length	power
LEVHT1.6/25W	1.6m	25W
LEVHT3.2/50W	3.2m	50W
LEVHT4.7/75W	4.7m	75W
LEVHT6.3/100W	6.3m	100W
LEVHT9.5/150W	9.5m	150W
LEVHT12.6/200W	12.6m	200W
LEVHT15.8/250W	15.8m	250W
LEVHT19/300W	19.0m	300W
LEVHT33.2/525W	33.2m	525W



Aluminium Tape

ref: **AL50**

For fixing to plastic piping prior to heat tape installation.
50mm x 45m roll.



technical tips...

Any plastic pipe will need to be covered in aluminium tape before the installation of the heat tape to stop the pipe from warping! The tape will then need to be insulated with a fibre insulation material such as hessian strand.



Slimline Tubular Heaters

The Levanté slimline heater is a major innovation in low-cost, energy efficient heating with a patented built-in thermostat, keeping energy usage to a minimum.



The attractive, space-saving design makes it suitable for use anywhere in the home or office and it is extremely versatile, with brackets for either wall mounting or floor standing operation.



The Slimline Heater is ideal for preventing dampness, condensation and freezing in a wide range of environments including built-in wardrobes, conservatories, sheds, garages, caravans and mobile homes, boats, shop windows and portable buildings.



Features:

- Adjustable thermostat
- Neon indicator
- Supplied with 1.5m push-fit cable, plug and brackets for either wall mounted or floor standing operation
- Manufactured in seamless tube with easy-clean, white enamel finish
- CE approved and compliant to BS EN 60335/1:2002

ref	description	diameter	power
LEVTH05ECO	500mm slimline tubular heater	40mm	55W
LEVTH10ECO	1000mm slimline tubular heater	40mm	120W
LEVTH15ECO	1500mm slimline tubular heater	40mm	190W
LEVWG05ECO	500mm wire guard	-	-
LEVWG10ECO	1000mm wire guard	-	-
LEVWG15ECO	1500mm wire guard	-	-



230V



IP44

RoHS
COMPLIANT



Standard Tubular Heaters

Intelligent heating with minimal energy usage - The Levante Tube Heater is one of the most energy efficient ways of providing low cost, ambient heating and frost protection, whatever the conditions.



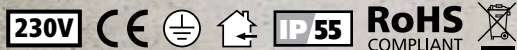
Designed to provide gentle, constant heat which is ideal for preventing dampness, condensation and freezing in a wide range of environments including built-in wardrobes, conservatories, sheds, garages, caravans and mobile homes, boats, shop windows and portable buildings.



Features:

- Low cost operation - Using around 25% less electricity than other tube heaters
- Easy set-up
- Ready-wired to run on standard 230V mains power, supplied with 1m cable and wall brackets (Plug not included).
- Manufactured in seamless tube with easy-clean, white enamel finish
- CE approved and compliant to BS EN 60335/1:2002

ref	description	diameter	power
LEVTH1FT	1ft (305mm) tubular heater	54mm	45W
LEVTH2FT	2ft (610mm) tubular heater	54mm	80W
LEVTH3FT	3ft (915mm) tubular heater	54mm	135W
LEVTH4FT	4ft (1220mm) tubular heater	54mm	180W
LEVTH5FT	5ft (1525mm) tubular heater	54mm	225W
LEVTH6FT	6ft (1830mm) tubular heater	54mm	270W
LEVWG1FT	1ft (305mm) wire guard	-	-
LEVWG2FT	2ft (610mm) wire guard	-	-
LEVWG3FT	3ft (915mm) wire guard	-	-
LEVWG4FT	4ft (1220mm) wire guard	-	-
LEVWG5FT	5ft (1525mm) wire guard	-	-
LEVWG6FT	6ft (1830mm) wire guard	-	-



1.2kW Quartz Heaters

Levante quartz heaters use radiant heat to warm people and objects, and not the air in between. This is the only method of heating that does not blow out or blow away. The heaters are specifically designed for outdoor use and are therefore weatherproof.



ref: **LEVQ12** - Black Finish

ref: **LEVQ12WH** - White Finish

Features:

- Includes infrared lamp
- Extra lamp included free of charge
- Toughened safety glass
- c/w mounting bracket kit
- Weight: 3.7kg
- Dimensions (W x H x D):
400 x 180 x 190mm



Replacement Lamp

ref: **LEVQ12LAMP**



2kW Stainless Steel Quartz Heater

Levante quartz heaters use radiant heat to warm people and objects, and not the air in between. This is the only method of heating that does not blow out or blow away. The heaters are specifically designed for outdoor use and are therefore weatherproof.



ref: **LEVQ20**

Features:

- Stainless steel and aluminium construction
- Anti-tamper screws
- Long life gold lamp
- c/w mounting bracket kit and 1.5m cable
- Weight: 2.5kg
- Dimensions (W x H x D): 540 x 105 x 95mm



Replacement Lamp

ref: **LEVQ20LAMP**



Radiant Ceiling Heating Panels

The ideal solution for all low thermal comfort environments. Suspend, fix or encase.



Radiant ceiling heating panels can be installed invisibly and built into the ceiling of any home, office, showroom, workshop, greenhouse, camper vans etc, maximising space and freeing up wall space. Their positioning does not require any invasive procedures on the walls of the room, and their electrical connection is extremely simple.

They can be installed at the points where maximum thermal efficiency is required, with any mounting system: hung with chains, flush mounted, or recessed in false ceilings, always easily and quickly. The type of heating, based on infrared radiation, which makes it similar to solar radiation, is safe and harmless, quick, efficient and extremely comfortable.

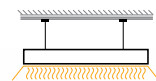
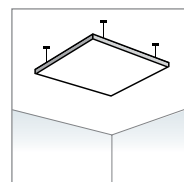


Technical Characteristics:

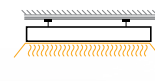
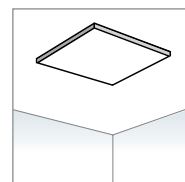
- Class 2, degree of protection IP44
- Colour: white, paintable
- Power required for primary heating, to obtain 20°C room temperature: approx 60W/m² (1x LEVCT600 panel every 4m²)

ref	dimensions	power
LEVCP600	590 x 590 x 40mm	240W
LEVCP1200	1190 x 590 x 40mm	500W

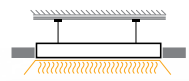
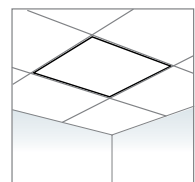
SUSPENDED



FIXED



ENCASED



Benefits Compared to Other Systems:

- Heating is immediate.
- It leaves room walls free because it is installed on the ceiling, flush mounted or recessed in false ceilings.
- It does not pollute, as it does not use gas or hydrocarbons.
- It optimises heating and reduces costs.
- Unlike other types of heating systems, it does not require maintenance!
- It can be painted, and is therefore easily camouflaged or used as a decorative element.

3kW Space Heater

A totally dry heat with no condensation, no gas, no fumes and no smell. Ideal for workshops, garages etc



ref: **LEVSH3K**

Features:

- Free standing with integrated carry handle
- 2 Heat settings (1500W/3000W)
- Fan only setting
- Adjustable thermostat
- Thermal protection with automatic reset
- Phased shutdown
- Supplied with 1.5m power cable and plug
- Weight: 7kg
- Dimensions (W x H x D): 355 x 320 x 405mm



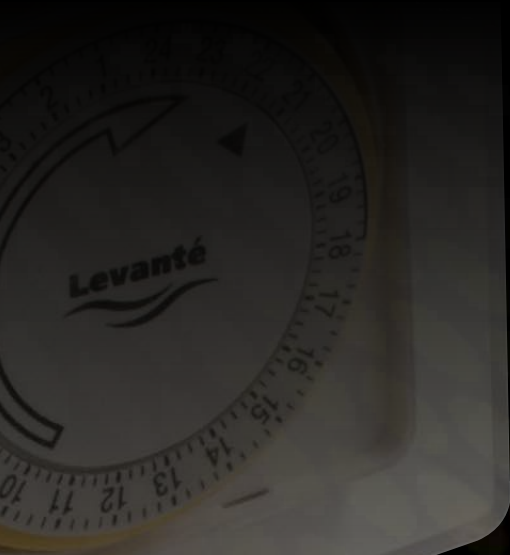
section two

Controls

Levanté prides itself on providing a breadth of heating and lighting controls of outstanding quality to satisfy the demands of specifiers, wholesalers, contractors and end users within domestic, industrial and commercial markets alike.

With a wide range of Levanté products as well as branded partners consisting of Sangamo, Sunvic, Heatmiser and Elkay, why not:

Take control with Levanté.



Controls

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Choice Thermostats & Timers

Sangamo **Choice** is an entire new range of energy saving controls, all designed to reduce energy consumption and control domestic central heating and hot water in the modern home.

SANGAMO



Cylinder Thermostat

ref: **CHOICECSTAT**

- Easy fixing to all hot water cylinders
- Suitable for use on uninsulated and foam lagged cylinders
- Cylinder strap and hooks provided
- Thermosetting paste provided to ensure heat sensing accurate.



Frost Thermostat

ref: **CHOICEFSTAT**

- Bi-metallic temperature sensing element
- Suitable for surface or switch box mounting
- -5°C to 25°C set point range
- Tamper resistant cover fitted with accelerator heater



Basic Room Thermostat

ref: **CHOICERSTAT1**

- Dual diaphragm temperature ensuring element
- Suitable for surface or box mounting
- 10°C to 30°C Set point range
- 16 Amp current rating



Electronic Room Thermostat

ref: **CHOICERSTAT2**

- Electronic temperature sensing element
- Large easy to read and adjust dial
- Industry Standard back plate for quick and easy installation
- 5°C to 35°C set point range
- 3 wire installation



Digital Room Thermostat

ref: **CHOICERSTAT3**

- LCD displaying room temperature
- Comfort/Economy or ON/OFF modes
- Frost protection
- Battery Powered (with low battery indicator)
- Large easy to adjust dial



Digital RF Room Thermostat

ref: **CHOICERSTAT3-RF**

- Wireless communication between the thermostat and the control box
- LCD displaying room temperature
- Comfort/Economy or ON/OFF modes
- Frost protection
- Battery Powered (with low battery indicator)
- Large easy to adjust dial

Choice Thermostats & Timers



Digital Programmable Room Thermostat

ref: **CHOICERSTAT8**

- 24 or 7 day programmable
- 6 time/temperature events per day
- Default adjustable program
- Permanent hold temperature
- Timed hold temperature
- Temporary temperature override
- Automatic Summer/Winter time change
- Low battery voltage indication
- Button press back-light operation



Digital RF Programmable Room Thermostat

ref: **CHOICERSTAT9-RF**

- 24 or 7 day programmable
- 6 time/temperature events per day
- Default adjustable program
- Permanent hold temperature
- Timed hold temperature
- Temporary temperature override
- Automatic Summer/Winter time change
- Low battery voltage indication
- Button press back-light operation



1 Channel Programmer

ref: **CHOICEPR1N**

- 24 hour, 5/2 day and 7 day selectable
- 2 or 3 ON/OFF periods selectable
- 1, 2 or 3 hour boost
- Advance to next programmed event
- Automatic Summer/Winter time change
- Factory set time & date
- Programme options:
 - ON, OFF, All day or Auto
- Mains powered with battery backup
- Standard wall plate - Simply plug in and replace



2 Channel Programmer

ref: **CHOICEPR2N**

- 24 hour, 5/2 day and 7 day selectable
- 2 or 3 ON/OFF periods selectable
- 1, 2 or 3 hour boost
- Advance to next programmed event
- Automatic Summer/Winter time change
- Factory set time & date
- Programme options:
 - ON, OFF, All day or Auto
- Mains powered with battery backup
- Standard wall plate - Simply plug in and replace
- Pumped or gravity system selectable



3 Channel Programmer

ref: **CHOICEPR3N**

- 3 channel
- Industry standard back plate
- 24 hour, 5/2 day and 7 day selectable
- 2 or 3 ON/OFF periods selectable
- Large backlit display
- 1,2 or 3 hour boost
- Advance to next programmed event
- Automatic Summer/Winter time change
- Factory set time & date
- Programme options:
 - ON, OFF, All day or Auto
- Pumped or gravity systems selectable
- Lithium battery reserve
- 6A total rating

Powersaver Heating Controls

The Powersaver range provides the time control facility needed to help households lower their electric hot water costs by minimising energy consumption.

Sangamo Powersaver products are a set of simple to use, multi application controllers which offer a wide choice of programming functionality & flexibility. All of the products are designed to control the timing operations of applications such as water heating to ensure expensive energy is not wasted.

Heating and hot water heating account for 43% of a home's energy usage - The Powersaver range can reduce energy and fuel costs for these domestic applications.

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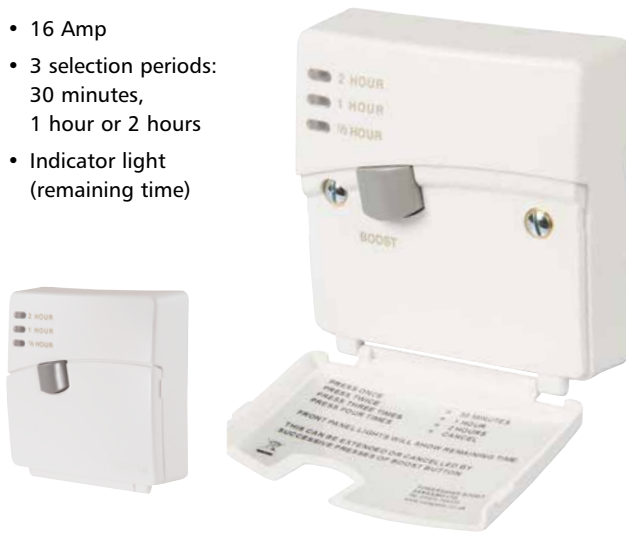


Electronic Boost Controller

ref: **BOOST**

Perfect for turning on and off applications that may need to be on for a short time but could be easily forgotten to be switched off.

- 16 Amp
- 3 selection periods:
30 minutes,
1 hour or 2 hours
- Indicator light
(remaining time)



Electronic Extended Boost Controller

ref: **BOOST MAXI**

Designed for applications where extended boost hours are needed. Switches appliance off automatically after boost period.

- 16 Amp
- 3 selection periods:
1 hour, 3 hours
or 5 hours
- Indicator light
(remaining time)



Powersaver Heating Controls

Electronic 24 Hour Controller

ref: **DAILY**

A 24 hour immersion heating and hot water controller with the ability to programme up to 3 operations per day.

- 16 Amp
- Boost feature
- 3 operations per day maximum
- LCD display
- Memory reserve
- Auto time change
- Button lock feature



Electronic 5/2 Weekly Controller

ref: **WEEKLY**

An electronic 5 day/2 day controller with the advantages of the Daily model in addition to 3 alternative operations on SAT/SUN.

- 16 Amp
- Boost feature
- 3 operations per day Mon- Fri
- 3 operations per day Sat - Sun
- LCD display
- Auto time change
- Button lock feature



Electronic 24/7 Weekly Controller

ref: **POWERSAVER 24/7**

An electronic 7 controller, allowing each day to be individually programmed with up to 3 operations per day.

- 16 Amp
- Boost feature
- 3 operations per day Mon - Sun
- LCD display
- Auto time change
- Button lock feature



Electronic Dual Controller

ref: **POWERSAVER DUAL FLEXI**

The Powersaver Dual bridges the gap between the bulky, aged electro-mechanical immersion controllers and the complicated 'bells and whistles' digital versions.

- 16 Amp
- 7 day electronic timer
- 1 hour and 2 hour boost feature
- Suitable for single, dual and twin immersion elements
- Pre-set programs for use with low rate tariffs
- Ability to minimise or cancel operating times



DIN Rail Digital Time Switches

The Solar and Standard DIN ranges have an array of product features that enable a wide choice of programming flexibility and functionality for the user.

These include:

- Single, Dual & 4 channel switches.
- 16 Amp voltage free changeover contacts.
- Sunrise to sunset solar programming alternatives.
- Pulse programming.
- Switch significant loads for Halogen, Fluorescent, Mercury Vapour and Sodium Discharge - no need for additional contactors.
- Battery reserve.

The Sangamo DIN product range has both Solar and Standard programming options that suit a variety of applications.

The solar switches - Suntracker range - also combines the flexibility of a timed offset adjustment to sunset & sunrise times and part night switching.

The innovative Single Module Suntracker, in particular, has been designed specifically to meet the need for sophisticated, automatic, time control of a wide range of lighting applications where space is at a premium. It is designed to be fit for purpose and, specifically for the lighting industry.

Key Technology

Don't waste your precious time & energy on manually altering programme times on numerous switches!

Sangamo have the key-literally.

A range of DIN time switches are available with Key Programming options: programme one switch once to then use the key to programme hundreds of other switches with the same programme in minutes!

In addition, this master key can then be used to make any future adjustments to programme times.

Software is also available for a quick and easy way of creating a number of master keys for a selection of programming requirements.

SANGAMO



DIN Rail Digital Time Switches



SANGAMO

Solar DIN Suntracker - 01 Series

7 day, Single channel programmer
with solar and standard settings

ref: **71101**



- Pre-programmed real time and date.
- Quick and easily programmable time switch.
- Removable programmable module.
- Can be programmed with supply disconnected.
- Specially adapted for lamp loads.
- Specially designed for lighting applications.
- Tailored for applications, such as street lighting, where space is at a premium.
- Part night switching capability.
- Programming convenience through ability to set times with supply disconnected.
- Dimensions (W x H x D): 17.5 x 90 x 60mm

Solar DIN Suntracker - 04 Series

Single or Dual channel switches with solar
and standard settings



- The Suntracker 04 range comes with key programming.
- Software is available to easily create programme master keys.
- Programming convenience through ability to set times with supply disconnected.
- Power reserve - Lithium battery with 5 years reserve.
- Ideal for applications where the flexibility of solar and fixed time programming is required.
- Dimensions (W x H x D): 35.8 x 85 x 60mm

ref	description
04566	7 day, single solar channel, with programme key
04567	7 day, dual solar channel, with programme key
23195	Interface & software for programming by PC
23193	Virgin programming key
143602	Compatible IP40 enclosure

Typical Solar DIN Applications:

- Illumination
- Street Lighting
- Car Park Lighting
- Festive Lighting
- Signage
- Bus Shelters



DIN Rail Digital Time Switches



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Standard DIN

4 channel switch with daily & weekly programming settings



- 7 day programmer with multiple programme options per day.
- Each channel has separate switching functions which mean applications can work independently from each other.
- In addition, each channel has an independent override function to compensate for days when individual applications are not in use.
- Ability to switch off all 4 channels by a remote switch connected to the mains.
- Dimensions (W x H x D): 71.5 x 90 x 63mm

ref	description
26404	7 day, 4 channel
143541	Compatible Enclosure

Standard DIN - 20 Series

Single channel switches with pre-set or free programming options



- 24 hour or 7 day versions available
- Designed for applications where space economy is a factor.
- Dimensions (W x H x D): 17.8 x 88.5 x 59.5mm

ref	description
20110	24 hour, choice between 5 pre-registered and adjustable programmes. Max 6 switchings per day
20821	7 day, choice between 10 pre-registered and adjustable programmes. Max 6 switchings per day
20722	70 day, 10 free programmes. Max 6 switchings per day
143602	Compatible IP40 enclosure



DIN Rail Digital Time Switches



SANGAMO

Standard DIN - 23 Series

Single or Dual channel switches with key programming options



23141

- The 23151, 23152 and 23162 come with key programming.
- Software is available to easily create programme master keys.
- Pulse programming available for refined timing flexibility.
- Dimensions (W x H x D): 35.8 x 85 x 60mm

ref	description
23141	7 day, single channel
23151	7 day, single channel with key programming
23142	7 day, dual channel
23152	7 day, dual channel with key programming
23162	7 day, dual channel with key programming and pulse programming
23195	Interface & software for programming by PC
23193	Virgin programming key
143602	Compatible IP40 enclosure

Standard DIN - 25 Series

Single channel Yearly switch with software and key programming



- Standard Weekly programming.
- 10 special weekly programmes allocated by date.
- Extra switching options allocated by date.
- Permanent ON/OFF operations allocated by date.
- Manual override/Permanent override.
- Pulse and cycle function options.
- Software allows for ease of programming and creation of master keys.
- Dimensions (W x H x D): 71.5 x 90 x 63mm

ref	description
25999	Yearly, single channel switch with software, USB adapter and program key as standard
25193	Virgin programming key
143602	Enclosure
25195	Interface & software for programming by PC



Typical Standard DIN Applications:

- Fountains
- Swimming Pools
- Water features
- School Bells
- Heating

Round Pattern Time Switches

SANGAMO

Sangamo round pattern time switches are renowned for their quality and reliability as well as ease of setting, installation and replacement, characteristics which make them the installer's switch of choice for a wide range of lighting and other electrical systems control applications.

They are unique in that all models have 20 amp switching capability allowing the products to be utilised in many heavy duty applications. All models have BEAB approval.

Sangamo produce two basic types of time switches - standard and solar - in three different product groups:

1. The S250 series with 24 Hour Electro-Mechanical operation
2. The Q550 series with 24 Hour Quartz Controlled Electro-Mechanical operation c/w battery reserve.
3. The E850 series with 7 Day Electronic operation c/w battery reserve.

S250 Series: Quartz Control without Reserve - 24-Hour Dial Models

The S250 range of Round Pattern (RPTS) Standard time switches are robust, 20 Amp switches that are ideal for the switching of heating and lighting applications- up to three times a day.

3-pin Standard Dial with Day Omit

ref: **S254/2**

- Analogue
- 3 Pin base
- 20 Amp
- 24 hour Timer programme
- 230V 50Hz AC
- Day Omit ON
- Switch Type: SPST
- 1 Channel

4-pin Standard Dial with Day Omit

ref: **S255/2**

- Analogue
- 4 Pin base
- 20 Amp
- 24 hour Timer programme
- 230V 50Hz AC
- Day Omit ON



Round Pattern Time Switches

Q550 Series: Standard Electro-Mechanical Quartz time switches with 100hr battery reserve

SANGAMO

Q550 Series Round Pattern (RPTS) Standard time switches are robust, 20 Amp switches that are ideal for the switching of heating and lighting applications- up to three times a day.

All feature a 100 hour battery reserve which is useful should there be a power failure.

The day omit feature means you can skip any day of the week if necessary. There is also a manual override button for your convenience. A true fit-and-forget time clock!



4-pin Standard Dial with Day Omit OFF

ref: **Q557**

- 1 Pole 1 Throw
- 4 Pin base
- 20 Amp
- Day omit OFF

4-pin Standard Dial with Day Omit ON

ref: **Q559**

- 1 Pole 1 Throw
- 4 Pin base
- 20 Amp
- Day omit ON, early OFF

4-pin Standard Dial Changeover

ref: **Q563**

- 1 Pole 2 Throw
- 4 Pin base
- Changeover 10/20 Amp
- Day omit one circuit only

4-pin Standard Dial with Early ON

ref: **Q586**

- 1 Pole 1 Throw
- 4 Pin base
- 20 Amp
- Day omit ON, early ON

3-pin Standard Dial with Day Omit 2 ON/2 OFF

ref: **Q544/2**

- Analogue
- 3 Pin base
- 20 Amp
- 24 hour Timer programme
- 230V 50Hz AC
- Day Omit ON
- Switch Type: SPST
- 1 Channel

4-pin Standard Dial with Day Omit 2 ON/2 OFF

ref: **Q555/2**

- Analogue
- 4 Pin base
- 20 Amp
- 24 hour Timer programme
- 230V 50Hz AC
- Day Omit ON
- Switch Type: SPST
- 1 Channel

Q550 Solar Range

3-pin Solar Dial with Day Omit ON

ref: **Q550/13XX**

- Analogue
- 3 Pin base
- 20 Amp
- 230V 50Hz AC
- 24 hour Timer programme
- Early OFF, Day Omit ON
- ON Sunset & 1 OFF
- Switch Type: SPST
- 1 Channel

3-pin Solar Dial with Day Omit 2 ON/2 OFF

ref: **Q551/13XX**

- Analogue
- 3 Pin base
- 20 Amp
- 230V 50Hz AC
- 24 hour Timer programme
- Early OFF
- Switch Type: SPST
- 1 Channel

4-pin Solar Dial with Day Omit ON

ref: **Q553/13XX**

- Analogue
- 4 Pin base
- 20 Amp
- 230V 50Hz AC
- 24 hour Timer programme
- Early OFF
- Switch Type: SPST
- 1 Channel

Solar Range Suffixes

Replace the 'XX' in the reference number with the relevant suffix for time zone suitability. (See page 63 for solar dial map).

56° North: XX = 14

54° North: XX = 13

52° North: XX = 12

50° North: XX = 11

Round Pattern Time Switches

E850 Series: Electronic 7-Day Single Channel Models - 50-Day Power Reserve

SANGAMO

Allows up to 48 ON and 48 OFF operations per day (96 operations per day) and automatically allows for the changes between British Summer Time (BST) and Greenwich Mean Time (GMT). General purpose time switch for heating, ventilation equipment control applications etc.

3-pin Electronic Standard Dial

ref: **E854**

- Digital
- 3 Pin base
- 20 Amp
- 7 day timer programme
- 96 operations per day
- 230V 50Hz AC
- Switch Type: SPST
- 1 Channel

4-pin Electronic Standard Dial

ref: **E855**

- Digital
- 4 Pin base
- 20 Amp
- 7 day timer programme
- 96 operations per day
- 230V 50Hz AC



Conduit Mounting Box

ref: **FD930**

For the Sangamo range of Round Pattern Time Switches, designed for interior use. Made of pressed steel with black stove enamel finish.

- Suitable for use with S250, Q550 and E850 Series RPTS
- Dimensions (W x H x D):
129 x 129 x 30mm

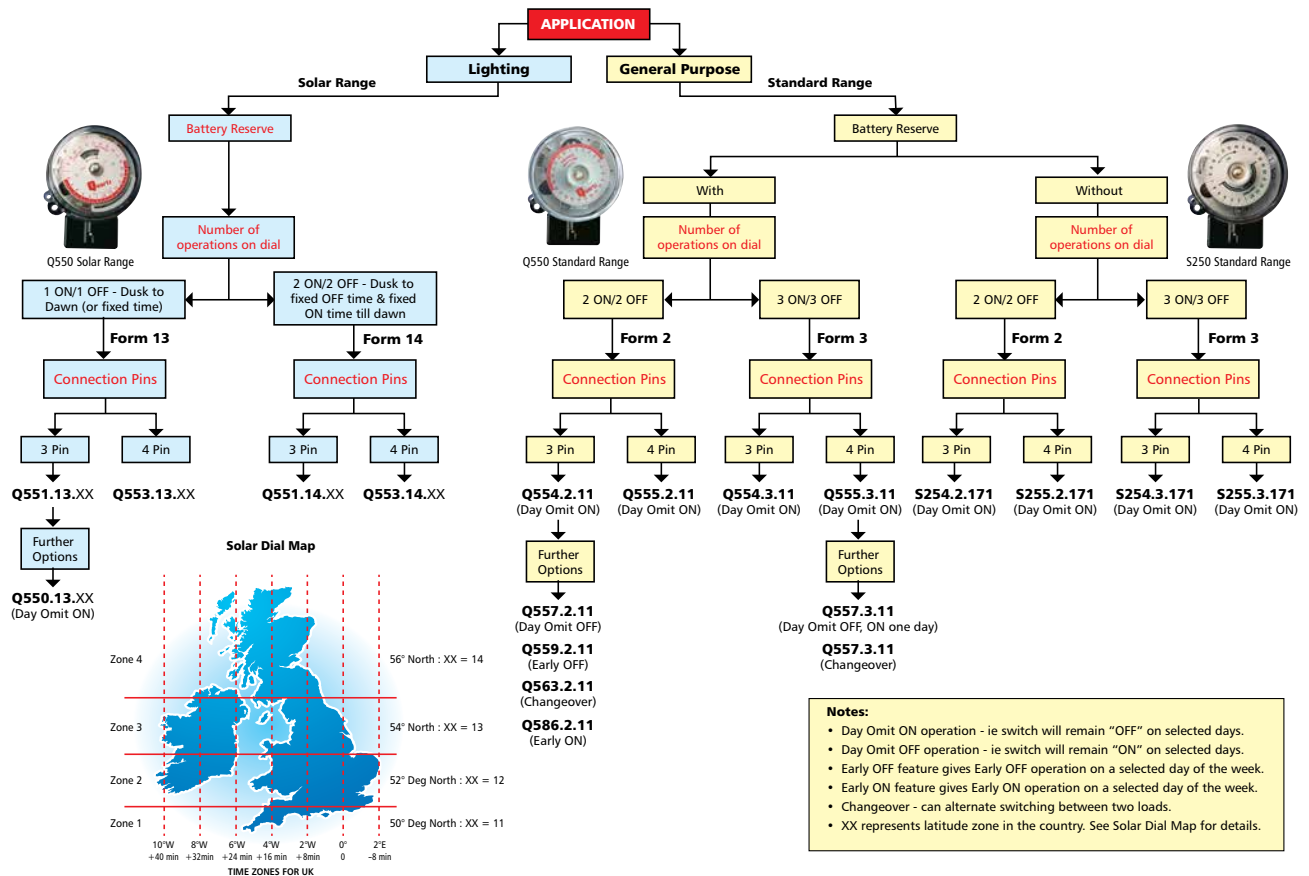


Round Pattern Time Switches

S250/Q550 Product Range Selector



Based on operation and specification details.



TLM 2000 Room Thermostats

The TLM range is renowned for its high specification and reputation for accuracy. It is suitable for medium to heavy duty applications, with a rating of 4 Amp to 20 Amp resistive loads.



sunvic
comfort in control

They incorporate a single pole, single throw (SPST or On/Off) or single pole, double throw (SPDT or changeover) switch, depending on the model and have a robust magnetically controlled switching mechanism. Supplied with steel base plate for surface mounting or fitting to standard conduit boxes.

Note: Where rating does not exceed 6 Amps, the TLX 2000 range should be used.



Standard Dial Adjustable Thermostat

ref: **TLM2253**

Controls any direct electrical heating system.

- 220/240V AC
- 20(9) Amp
- Switch Type: SPST
- 3°C to 27°C



Standard Thermostat with Indicated OFF Position

ref: **TLM2628**

For use when a positive switch is required.

- 220/240V AC
- 20(9) Amp
- Switch Type: SPST
- 3°C to 27°C



Standard Thermostat with Changeover Back Contact

ref: **TLM2802**

Rated at 5 Amps resistive.

- 220/240V AC
- 20(9) Amp
- Switch Type: SPST
- 10°C to 40°C



Frost Thermostat

ref: **TLM2257**

To protect heating systems, machinery etc. from low temperature damage.

- 220/240V AC
- 20(9) Amp
- Switch Type: SPST
- -15°C to 10°C



Tamper-Proof Thermostat with Ventilated Setting Case

ref: **TLM2453**

Concealed to prevent unauthorised use. c/w shear off screws. For use in schools, public buildings etc.

- 220/240V AC
- 20(9) Amp
- Switch Type: SPST
- 3°C to 27°C



Tamper-Proof Thermostat - Non-Ventilated

ref: **TLM2402**

Concealed to protect against dust etc and unauthorised use. For use in schools, public buildings etc.

- 220/240V AC
- 20(9) Amp
- Switch Type: SPST
- 3°C to 27°C

TLX 2000 Room Thermostats

The TLX2000 thermostat couples accuracy and reliability with a high specification and is suitable for light to medium applications up to a maximum load of 6 Amp resistive loads.



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They incorporate a single pole, single throw (SPST or ON/OFF) or single pole, double throw (SPDT or changeover) switch, dependent on model. The bimetal strip mechanism incorporates an accelerator heater for rapid and accurate temperature control, improving system efficiency and reducing running costs. Supplied with steel base plate for surface mounting or fitting to standard conduit boxes.



Low Voltage Thermostat

ref: **TLX2251**

To control warm air heating systems etc.

- 24V AC
- 6(2) Amp
- Switch Type: SPST
- 3°C to 27°C



Standard Thermostat

ref: **TLX2259**

To control boilers, pumps, spring return motorised valves and any device requiring On/Off switching.

- 220/240V AC
- 6(2) Amp
- Switch Type: SPST
- 3°C to 27°C



Standard Thermostat with Changeover Back Contact

ref: **TLX2356**

To control motor open motor close motorised valves or any other device requiring changeover switching.

- 220/240V AC
- 6(2) Amp
- Switch Type: SPST
- 3°C to 27°C



Tamper-Proof Standard Thermostat

ref: **TLX2358**

Features 2 accelerator heaters and concealed casing to prevent unauthorised use. For schools, public buildings etc.

- 220/240V AC
- 6(2) Amp
- Switch Type: SPST
- 3°C to 27°C



Tamper-Proof Frost Thermostat

ref: **TLX2360**

Concealed casing to prevent unauthorised use. For schools, public buildings etc.

- 220/240V AC
- 6(2) Amp
- Switch Type: SPST
- 0°C to 15°C



IP65 Die Cast Aluminium Protective Case

ref: **BX3**

Weather resistant case to protect against external weather conditions.

For use with TLM 2000 and TLX 2000 ranges.

TLX 1000 Room Thermostats

The TLX1000 series features industry leading TPI technology which reduces bills by up to 10%. With dial or push button interface and wired or wireless models, this is a very versatile, energy saving range.



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Time Proportional Integral (TPI) technology helps achieve the most economic and fuel efficient performance of a condensing boiler by ensuring that it operates in the optimal condensing mode for the majority of the time. Sunvic's TLX 1000 range of TPI enabled thermostats calculates, learns and anticipates the 'on' time of the boiler thus ensuring maximum boiler efficiency.



Digital Room Thermostat

ref: **TLX1009**

Large digital display, TPI thermostat with economy mode. Volt-free switching with 2-wire installation.

- 6(2) Amp
- TPI technology
- 5°C to 35°C
- Practical modern design

TPI technology ensures that the slow reaction time of conventional thermostats is a thing of the past. Electronic thermostats with TPI technology react much more quickly to small changes in temperature. Room temperatures are therefore kept much closer to the chosen comfortable setting.

Latest research suggests that TPI technology can achieve a saving of up to 10% per annum. A TPI enabled, room thermostat can therefore give a return on investment of less than 6 months.



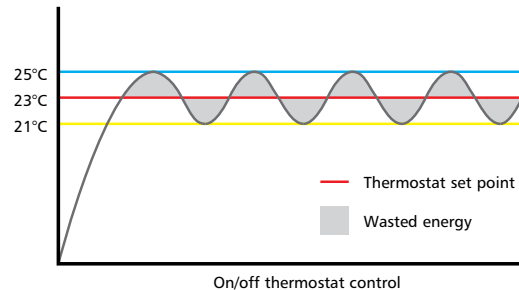
Wireless Digital Room Thermostat

ref: **TLX1010** - Flush Mounted Receiver

ref: **TLX1012** - Surface Mounted Receiver

Large digital display TPI wireless thermostat with economy mode and receiver. Volt-free switching with 2-wire installation.

- 6(2) Amp
- TPI technology
- 5°C to 35°C
- Practical modern design



Standard Cylinder Thermostat

ref: **SA2452**

To control temperature of domestic hot water cylinders and pre-insulated cylinders. Comprises of a single pole, double throw micro gap switch c/w with an expanding galvanised wire for cylinders up to Ø450mm (18").

- 220/240V AC
- 45°C to 90°C
- 5(1) Amp
- Self test facility
- Switch Type: SPST

16 Way Wiring Centre

ref: **SWC3202A**

Provides a quick and safe means of connection and is suitable for use with most popular central heating systems.



- 16 terminal block
- 220/240V
- 10 Amp
- Knock out cable entries
- Moulded terminal numbers to aid wiring

All-in-one Programmers

Allows the user to be in complete control of central heating and hot water. Sunvic programmers are easy to use and have an unbeatable range of features.



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Digital Wireless Programmer

ref: **TLXRFPV**

Radio frequency programmable room thermostat.
Easy to install - No wiring between thermostat and receiver.

- Up to 60 metres transmission range
- Large Multi-parameter backlit display
- 6 Pre-defined and 3 User-defined control programmes
- Room temperature display
- Manual or automatic operation



1 Channel Programmer

ref: **SUNPRO1000**

Allows volt-free switching of central heating controls (necessary for most combination boilers).

- 3(1) Amp contact rating
- Selectable 7-day, 5/2 day and 24 hour programming options
- Advance and Boost facility
- Holiday mode
- Easy to set up
- Automatic summer time adjustment
- Temperature control option
- Frost protection/Night setback option

2 Channel Programmer

ref: **SUNPRO2000**

Allows independent control of hot water and central heating.

- 3(1) Amp contact rating
- Selectable 7-day, 5/2 day and 24 hour programming options
- Advance and Boost facility
- Holiday mode
- Easy to set up
- Automatic summer time adjustment
- Temperature control option
- Frost protection/Night setback option

3 Channel Programmer

ref: **SELECT 307XLS**

The Select 307 XLS has 3 separate channels to allow control of hot water and two individual heating zones.

- 6(2) Amp contact rating
- Selectable 7 day, 5/2 day and 24 hour programming options
- Advance and Boost Facility
- Easy to set up
- Up to 3 ON/OFFs per day
- Automatic summertime adjustment

Sunvic Specification Guide

Sunvic room thermostats are sensing devices which measure the air temperature within a building and switch the central heating on or off according to the required level of comfort. Their expertise in room temperature control means that you will find a thermostat to suit a wide variety of applications.



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The range includes products suitable for industrial, commercial and domestic installations:

TLX1000 SERIES - Electronic Room Thermostats with TPI enabled (energy saving) and RF options available.

TLX2000 SERIES - Electromechanical range for light to medium duty applications.

TLM2000 SERIES - Electromechanical range for medium to heavy duty applications.



TLM RANGE



TLX RANGE

Room Thermostats - Selection Guide

ref	Current Rating (Amps)	Temperature Range (°C)	Changeover Contacts	Tamper-proof	Wireless (RF)	Operating Voltages	Accelerator Heater	Adjustable Range Stops	LED Status Indicator	Digital Display	Volt Free Contacts	ON/OFF Switch	Heating Applications Only	Heating & Cooling Applications	TPI Control	Flush Mount Receiver	Surface Mount receiver	Battery Operated	Low Power Indicator	Night Setback
TLX2251	1	3/27	-	-	-	24	■	-	-	-	-	-	■	-	-	-	-	-	-	-
TLX2259	6(2)	3/27	-	-	-	220/240	■	-	-	-	-	■	■	-	-	-	-	-	-	-
TLX2356	6(2)	3/27	■	-	-	220/240	-	-	-	-	-	-	-	■	-	-	-	-	-	-
TLX2358	6(2)	3/27	■	■	-	220/240	■	-	-	-	-	-	-	■	-	-	-	-	-	-
TLX2360	6(2)	0/15	-	■	-	220/240	■	-	-	-	-	-	■	-	-	-	-	-	-	-
TLM2253	20(9)	3/27	-	-	-	220/240	■	-	-	-	-	-	■	-	-	-	-	-	-	-
TLM2257	20(9)	-15/10	-	-	-	220/240	■	-	-	-	-	-	■	-	-	-	-	-	-	-
TLM2402	20(9)	3/27	-	■	-	220/240	■	-	-	-	-	-	■	-	-	-	-	-	-	-
TLM2453	20(9)	3/27	-	■	-	220/240	■	-	-	-	-	-	■	-	-	-	-	-	-	-
TLM2628	20(9)	3/27	-	-	-	220/240	■	-	-	-	-	■	■	-	-	-	-	-	-	-
TLM2802	20(9)	10/40	■	-	-	220/240	■	-	-	-	-	-	-	■	-	-	-	-	-	-
TLX4101	4	8/30	■	-	-	Volt Free	-	-	-	-	-	-	-	■	-	-	-	-	-	-
TLX9201	10(4)	5/30	■	-	-	220/240	■	■	■	-	-	-	-	■	-	-	-	-	-	-
TLX9301	16(7)	5/30	-	-	-	220/240	■	■	■	-	-	-	■	-	-	-	-	-	-	-
TLX9401	10(4)	-5/15	■	■	-	220/240	■	■	■	-	■	-	-	■	-	-	-	-	-	-
TLX9701	10(4)	5/30	■	■	-	220/240	■	■	■	-	-	-	-	■	-	-	-	-	-	-
TLX1001	6(2)	5/35	■	-	-	230V AC	-	-	■	-	■	-	-	■	-	-	-	-	-	■
TLX1005	6(2)	5/35	■	-	-	230V AC	-	-	-	■	■	-	-	■	■	-	-	-	-	■
TLX1009	6(2)	5/35	■	-	-	230V AC	-	-	-	■	■	-	-	■	■	-	-	■	■	■
TLX1010 Thermostat	-	5/35	-	-	-	-	-	-	-	■	-	-	-	■	■	-	-	■	■	■
TLX1010 Receiver	6(2)	5/35	■	-	■	230V AC	-	-	■	-	■	-	-	■	-	■	-	-	-	-
TLX1012 Thermostat	-	5/35	-	-	-	-	-	-	-	■	-	-	-	■	■	-	-	■	■	-
TLX1012 Receiver	6(2)	5/35	■	-	■	230V AC	-	-	■	-	■	-	-	■	-	-	■	-	-	-

Sunvic Specification Guide



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Programmers - Selection Guide

feature	SUNPRO1000	SUNPRO2000	SELECT 307XLS
Digital programming	■	■	■
No. ON/OFFs per channel	3	3	3
Gravity/fully pumped	■	■	■
Manual override	■	■	■
24 Hour	■	■	■
5/2 days	■	■	■
7 days	■	■	■
Number of channels	1	2	3
Boost/advance	■	■	■
Industry standard backplate	■	■	■
Backlit display	■	■	■
Current rating	6A	6A	6A
Pre-defined programming	■	■	■
Volt free contacts	■	■	■
LCD display	■	■	■



Universal Thermostats

Elco surface mounted thermostats are widely used in residential homes. Suitable for room temperature control, easy to install, with high sensitivity and reliability.



elco

These thermostats must be located where they would not be subjected to heat gain/loss (such as above radiators, direct sunlight or in draughts).

Room Thermostat

ref: **CTR246**

- 0-240V SPDT Changeover contacts switching
- 15 Amp contact rating
- Lockable frost protection
- 2 Wire (No neutral connection required)
- Internal locking pins



Benefits:

- Changeover switching of low or mains voltage.
- Ideal for both combi and system boilers plus drive open/drive close type valves.
- Allows for switching high electrical loads. Applicable to electric heating, fans etc.
- Low cable cost. Simplified wiring reducing possibility of error.
- For range restriction or fixed point setting.

Frost Thermostat

ref: **FTR244**

- 0-240V SPDT Changeover contacts switching
- 16 Amp contact rating
- 5°C Fixed temperature setting
- 2 Wire (No neutral connection required)
- Tamper proof fascia



Benefits:

- ON/OFF switching of low or mains voltage. Ideal for both combi and system boilers.
- Allows for switching high electrical loads. Applicable to electric heating, fans etc.
- Eliminates risk of incorrect temperature setting.
- Low cable cost.
- Simplified wiring reducing possibility of error.
- Eliminates interference of temperature setting.

Cylinder Thermostat

ref: **TCYL46**

- 0-240V SPDT Changeover contacts switching
- 15 Amp contact rating
- 15 - 90°C range
- Spring wire fixing



Backplate

ref: **PAT5**

For use in mounting a thermostat to a back-box.



Underfloor Heating Thermostats

A range of underfloor heating controls including dial type, digital and touchscreen. Designed to be flush mounted, resulting in a slim profile on the wall after installation.

heatmiser™



Touchscreen Thermostat

ref: **LEVHMTSET**

The Heatmiser Touchscreen is a programmable room thermostat for electric underfloor heating featuring 5 user-selectable sensing modes:

- Built in Air Sensor
- Remote Air Sensor
- Floor Sensor Only
- Floor Sensor and Built in Air Sensor
- Floor Sensor and Remote Air Sensor

Features:

- Blue back-lit touchscreen
- Supplied with a 3m remote floor probe
- Heating: 5/2 or 7 day programming
- Holiday function
- Flush mounting (35mm back box)
- Key locking facility
- Frost protection with adjustable temperature
- IP20 rated
- Outputs: Volt free 13 Amp maximum
- Dimensions: 110mm x 100mm x 17mm



Digital Thermostat

ref: **LEVHMET**

The Heatmiser Slimline Thermostat is a switchable thermostat offering 3 modes of operation:

- Air only measurement
- Floor only measurement
- Air and Floor measurement

Featuring a slimline design and a large LCD display with backlight, this is a 230V thermostat offering 16A switching making it ideal for electric underfloor heating.

Features:

- Temperature range: 5-35°C (41-95°F)
- 5/2 day programming mode
- 7 day programming mode
- 4 heating levels
- Holiday function
- Frost protection
- Max switching current: 16 Amp
- Accuracy: +/-1°C
- Adjustable switching differential
- Dimensions: 85mm x 98mm x 13mm



Electronic Dial Thermostat

ref: **LEVHMDT**

The Heatmiser electronic dial type thermostats are simple to use and offer a greater level of accuracy than standard bi-metallic versions. These thermostats are used in conjunction with a separate programmer.

Features:

- Temperature range: 5-35°C (41-95°F)
- Surface mount for easy installation
- Built in air sensor
- Power on and heat on indication
- Max switching current: 13 Amp
- Accuracy: +/-1.5°C
- Adjustable switching differential
- Dimensions: 92mm x 92mm x 34mm



Time Delay Switches and Sensors

Levante offer a wide selection of time delay and sensors that can be used to control lighting sources within the home, commercial or industrial environments.



Pneumatic Time Delay Switch

ref: **LEVPTLS**

The unit can be fitted to existing single gang switches, making it a perfect low cost energy saving solution in areas such as stairways and storerooms.



- Load Rating:
6A - Incandescent.
3A - Fluorescent and CFL
- No neutral required
- Replaces existing single gang wall switch
- White finish

Electronic Time Delay Switch

ref: **LEVETLS**

Easy to fit, cost effective way of automatically turning lighting off after a set period of time. Pushing the button switches the timer and activates the time delay, which can be set at installation anywhere between 20 seconds and 20 minutes using a potentiometer.



- Load Rating:
6A - Incandescent.
3A - Fluorescent and CFL
- Paired terminals for easy looping in and out
- No neutral required
- White finish

Electronic Push Button Time Delay Switch

Designed to retrofit into projects of any size where energy saving is required. Simple, stylish and easy to install.



- 10 Amp rated switching
- Adjustable from 2 minutes to 1 hour
- Time cancellation
- Can be used for multiple switching in parallel
- 10A - 240V
- White finish

IP66 Outdoor Electronic Push Button Time Delay Switch

Provides an electronic time delay switch for lighting and other power uses in outdoor environments



- 10 Amp rated switching
- Adjustable from 2 minutes to 1 hour
- Time cancellation
- Can be used for multiple switching in parallel
- 10A - 240V
- White finish

ref	description	timing range
LEV3WPB	3 wire - White finish	2 mins - 1 hr
LEV2WPB	2 wire - White finish	2 mins - 1 hr

ref	description	timing range
LEV3WPB/IP66	3 wire - White finish	2 mins - 1 hr
LEV2WPB/IP66	2 wire - White finish	2 mins - 1 hr

Time Delay Switches and Sensors



Electronic PIR Time Switch

ref: **LEV2WPIR** - 2 Wire

ref: **LEV3WPIR** - 3 Wire

A fully automatic device which controls various power loads via a passive infrared movement sensor.



- 10 Amp rated switching
- Adjustable from 2 minutes to 1 hour
- Re-trigger function
- Red LED last minute indicator
- 10A - 240V
- White finish

Ceiling Mounted Electronic PIR Timer

ref: **LEVCPIR**

Complete with ceiling surface mount box, white and chrome bezels, terminal cover and cable clamp.



- 10A - 240V
- 2 minutes to 1 hour sensitivity adjustment
- Lux adjustment
- Test mode
- Easy fit – Secure arm fixing
- Choice of chrome or white fascia included



Power Factor Correction Capacitor

ref: **LEVPFCC**

A 4uf 230VAC lighting capacitor that may be required when using time switches with compact fluorescent or very low power lighting. For example: 2D fittings, energy saving lamps, LEDs or any low power consuming loads.

Capacitors are essential when switching 3 wire timers (with a neutral) with contactors.



Time Delay Switches and Sensors

The new Elkay Energy range gives architects, planners and electrical contractors a broad selection of simple yet highly effective solutions to minimise the amount of energy used in all types of commercial and industrial environments.



Columbus® Timer Pneumatic Time Delay Switch

An easy to fit and cost effective way of automatically turning lighting off after a set period of time. Pushing the button switches the contacts and activates the time delay, which can be set at installation anywhere between 5 seconds and 5 minutes.



- For fluorescent 3A (6 fittings maximum)
- For incandescent lighting 6A max
- White finish
- No neutral required
- Replaces existing single gang wall switch

ref	description	timing range
400A	Single contact arrangement	5 secs - 5 mins
400A-3	Double contact arrangement	5 secs - 5 mins

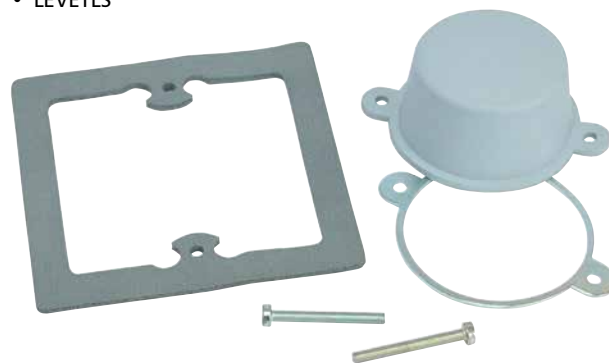
Columbus® Splash-proof Shroud Kit

ref: **163**

Splash-proof Shroud Kit for, consists of rubber shroud, finger ring, gasket and 2 screws.

Product Suitability:

- 400A
- 400A-3
- LEVPTLS
- LEVETLS



Note: Does not provide switch with an IP rating for outdoor use.



Time Delay Switches and Sensors

Pushbutton Timer Electronic Time Delay Switch

Stylish, electronic time delay switch for lighting and other power use, the pushbutton timer can replace an existing switch to provide energy saving functionality by timing lighting and power sources off to avoid unnecessary power usage.



- 16 Amp max load regardless of load type
- Retrofit into 25mm standard back boxes
- Re-trigger function
- Concealed fixing screws
- Blue neon indicator ring
- Last minute indicator
- Time cancellation function

ref	description	timing range
3875A-1	3 wire - White finish	2 mins - 2 hrs
350A-1	2 wire - White finish	2 mins - 2 hrs
350A-3	Slave unit - White finish	-

Touch Timer Electronic Time Delay Switch

With the reliability of a fully electronic unit, with no mechanical moving parts, it has all the features of the Elkay pushbutton timer unit with the additional benefit of tactile, feather light touch activation.



- Feather light touch activation
- 16 Amp max load regardless of load type
- Retrofit into 25mm standard back boxes
- Re-trigger & cancellation
- Concealed fixing screws
- Blue neon indicator ring
- Last minute indicator

ref	description	timing range
2235A-1	3 wire - White finish	2 mins - 2 hrs
360A-1	2 wire - White finish	2 mins - 2 hrs
360A-3	Slave unit - White finish	-

Remote Timer Remote Activated Timer Switch

The remote timer is suitable for use in inaccessible areas, such as stairwells and corridors, using remote slave activator switches to operate the timer. The unit has a blank faceplate and is therefore tamper-proof.



- 16 Amp max load regardless of load type
- Retrofit into 25mm standard back boxes
- Clip on front plate 8mm deep
- Works in conjunction with all Elkay slave switches and momentaries

ref	description	timing range
320A-1	3 wire - White finish	2 mins - 2 hrs

PIR Timer Movement Sensor

The PIR timer is a fully automatic device which controls various power loads through the detection of body heat. If body heat is no longer detected, the time period will elapse and the load will be switched off.



- Passive infrared sensor
- 16 Amp max load regardless of load type
- Retrofit into 25mm standard back boxes
- Re-trigger function
- Concealed fixing screws
- Blue neon indicator ring
- Last minute indicator

ref	description	timing range
370A-1	3 wire - White finish	2 mins - 2 hrs
376A-1	2 wire - White finish	2 mins - 2 hrs
376A-3	Slave unit - White finish	-

Outdoor Time Delay Switches and Sensors

IP66 rated timers and sensors ideal for controlling outdoor heating and lighting.



Outdoor Pushbutton Timer IP66 Electronic Time Delay Switch

Ideal for use in driveways, gardens and patio areas. This easy to fit and highly cost effective unit offers energy saving functionality by timing lighting and power sources off to avoid unnecessary power usage.



- IP66 rated
- 16 Amp max load regardless of load type
- Re-trigger function
- Concealed fixing screws
- Blue neon indicator ring
- Last minute indicator
- Time cancellation function

ref	description	timing range
550A-1	3 wire - White finish	2 mins - 2 hrs
550A-3	2 wire - White finish	2 mins - 2 hrs
550A-5	Slave unit - White finish	-

Outdoor Touch Timer IP66 Electronic Time Delay Switch

Superb functionality and energy saving features with a subtle touch activation for a wide range of outdoor use. The touch timer, when used in outdoor environments, offers increased reliability as a non-mechanical electronic unit.



- IP66 rated
- Feather light touch activation
- 16 Amp max load regardless of load type
- Re-trigger & cancellation
- Concealed fixing screws
- Blue neon indicator ring
- Last minute indicator

ref	description	timing range
560A-1	3 wire - White finish	2 mins - 2 hrs
560A-3	2 wire - White finish	2 mins - 2 hrs
560A-5	Slave unit - White finish	-

Outdoor PIR Timer IP66 Movement Sensor

The PIR timer is a fully automatic device which controls various power loads through the detection of body heat. If body heat is no longer detected, the time period will elapse and the load will be switched off.



- IP66 rated
- Passive infrared sensor
- 16 Amp max load regardless of load type
- Re-trigger function
- Concealed fixing screws
- Blue neon indicator ring
- Last minute indicator

ref	description	timing range
570A-1	3 wire - White finish	2 mins - 2 hrs
570A-3	2 wire - White finish	2 mins - 2 hrs
570A-5	Slave unit - White finish	-



Time Delay Switches and Sensors



Microwave Timer Microwave Presence Detector

ref: **380A-1**

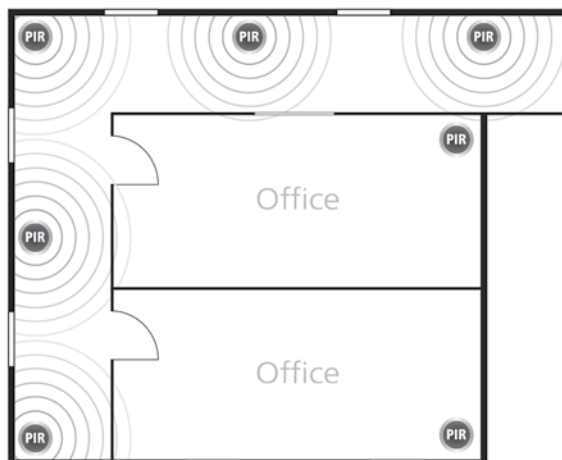
This microwave sensor is a high performance presence detector with a built in Lux level and sensitivity adjustment that is ideal for schools, warehouses and factories and a host of public buildings. They are ideal for switching large rooms, aisles and corridors and other larger areas.

The microwave sensor sends out an electromagnetic wave over a range of up to 30 metres. Any disturbance of the frequency in that wave from a moving object within the detection zone will activate the unit.

Can be wired with ordinary switches on the switch live line to give end user control and maximise presence and absence detection.

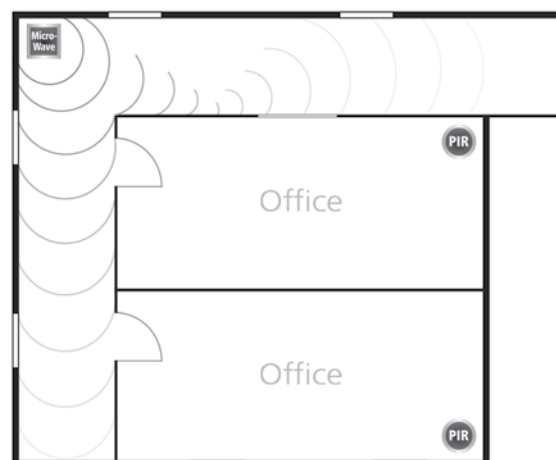


- LED indicators
- 16 Amp switching regardless of load type
- Timing from 2 minutes to 2 hours
- Lux level/Daylight adjustment
- Sensitivity adjustment
- Concealed fascia screws
- 15-30 metre detection zone
- Option to retrofit into existing systems
- c/w back box



When using PIRs in long corridors or spaces, there is often a need to position them every 6 to 8 metres. This incurs additional cabling, labour and connection costs at install.

Maintenance costs over time are also increased from a PPM perspective as there are more devices to check and maintain.



With the Elkay Microwave detector 380A-1 mounted on the wall only one device is needed to cover areas up to 30 metres with lateral cover provided for up to 8 metres which increases overall flexibility.

Microwave Detectors reduce cabling, connection, labour and future PPM costs simply because fewer detectors are needed. They can be mounted from 1.2 to 2.5m in height and should be wall mounted for best effect. They can also be used in high bay lamps that are PL types or hot re-strike luminaires.

Time Delay Switches and Sensors

Product Range Specifications and Wiring Diagrams



Elkay

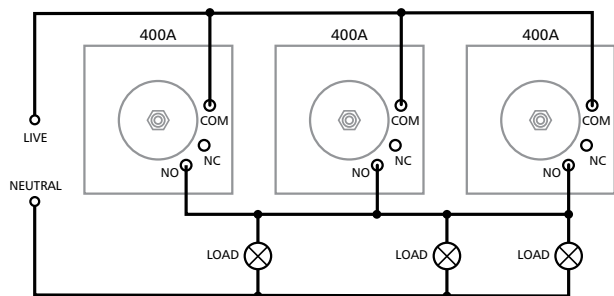
Levante[®]
controls

Columbus Timer

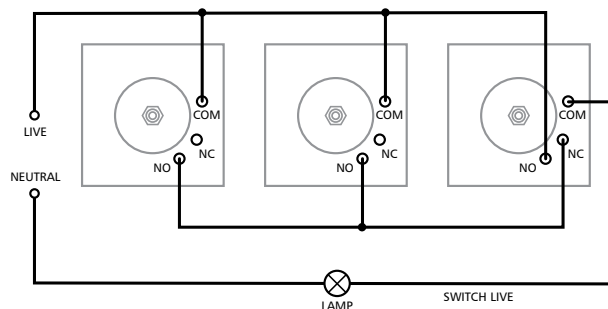
400A Single contact push button timer
400A-3 Double contact push button timer

Levante Timer

LEVPTLS Pneumatic timer
LEVETLS Electronic timer



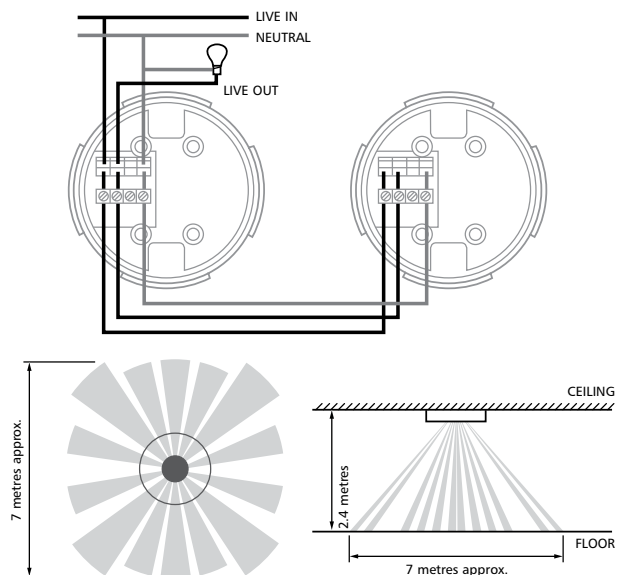
Typical Circuit for Corridor Lighting
(ie: Lights will stay on until last timer goes off)



Typical Circuit for Staircase Lighting where
the Live and Switch Live are at different positions.

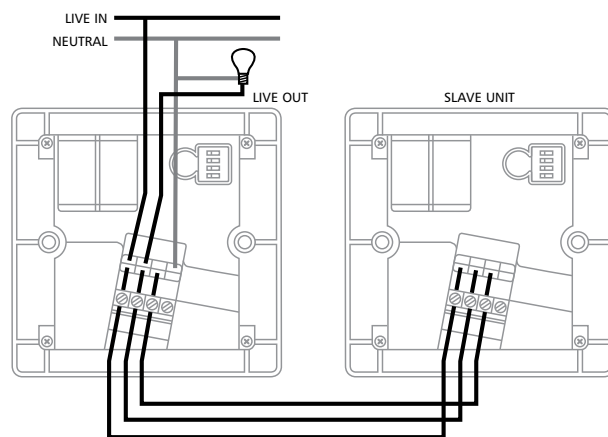
Ceiling Mount PIR

LEVCPIR 3 Wire PIR



Remote Timer

320A-1 3 Wire



Time Delay Switches and Sensors

Product Range Specifications and Wiring Diagrams



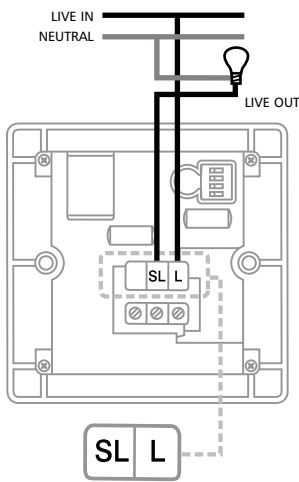
Push Button/PIR Timer - 2 Wire (For lighting only)

LEV2WPB Push Button Timer

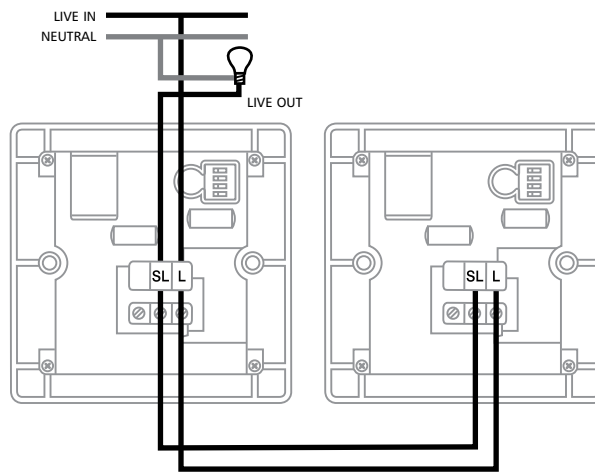
LEV2WPB/IP66 IP66 Push Button Timer

LEV2WPIR PIR Timer

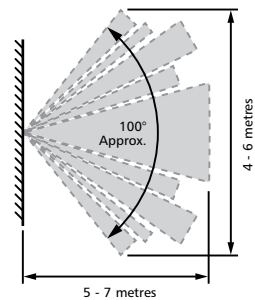
SINGLE SWITCHING



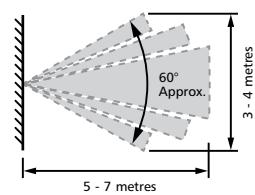
MULTIPLE SWITCHING



PIR PLAN VIEW



PIR SIDE VIEW



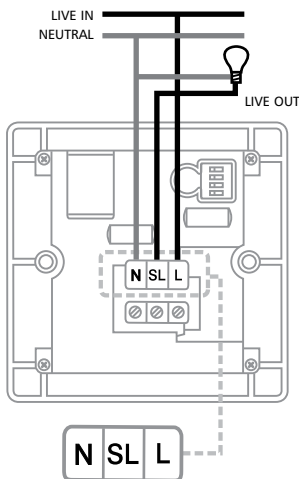
Push Button/PIR Timer - 3 Wire (For all load types)

LEV3WPB Push Button Timer

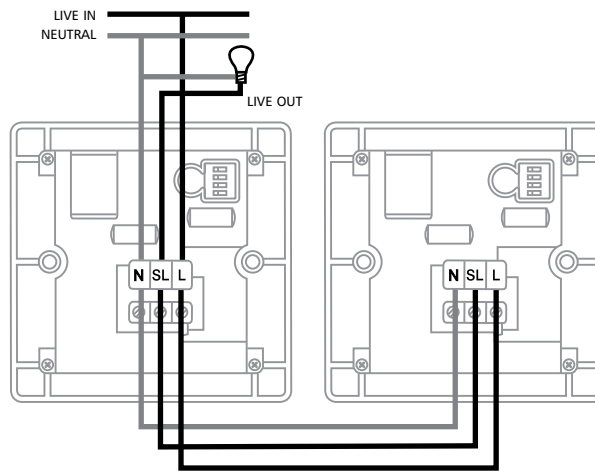
LEV3WPB/IP66 IP66 Push Button Timer

LEV3WPIR PIR Timer

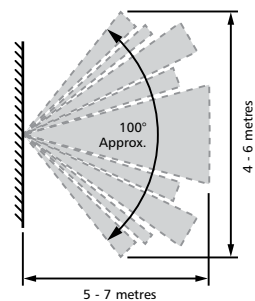
SINGLE SWITCHING



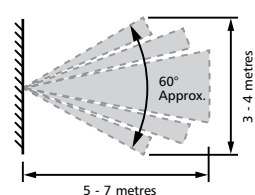
MULTIPLE SWITCHING



PIR PLAN VIEW



PIR SIDE VIEW

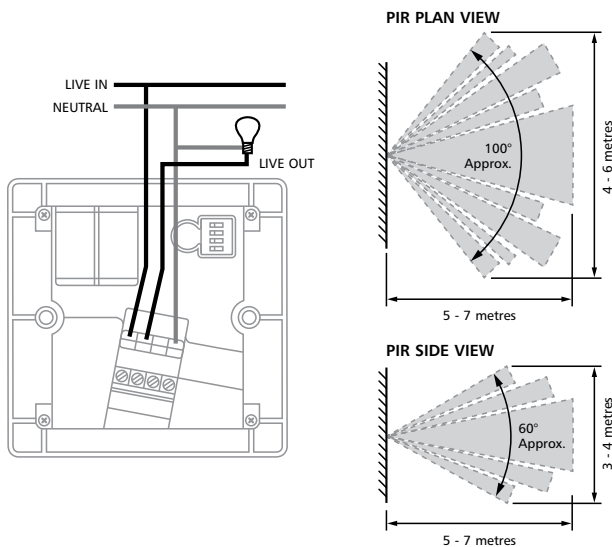


Time Delay Switches and Sensors

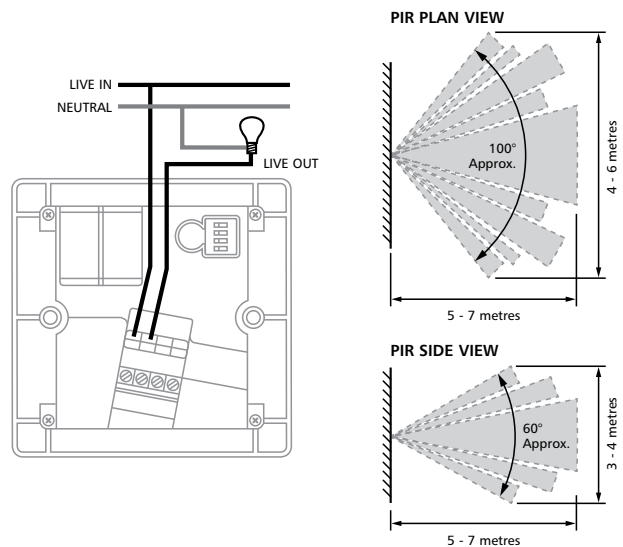
Product Range Specifications and Wiring Diagrams



PIR Timer - 3 Wire 370A-1

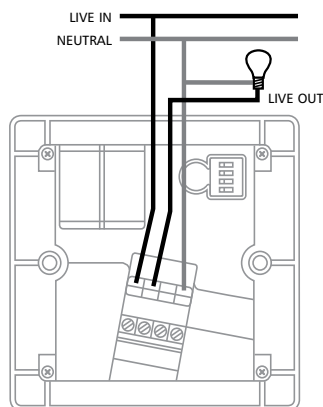


PIR Timer - 2 Wire 376A-1



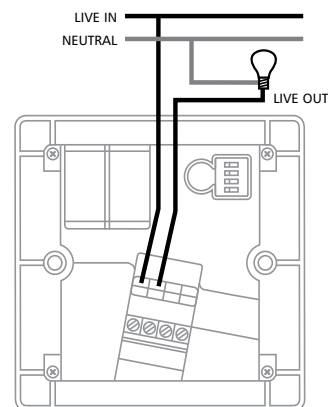
Pushbutton/Touch Timer - 3 Wire

- 3875A-1** Pushbutton Timer
- 550A-1** IP66 Pushbutton Timer
- 2235A-1** Touch Timer
- 560A-1** IP66 Touch Timer



Pushbutton/Touch Timer - 2 Wire

- 350A-1** Pushbutton Timer
- 550A-3** IP66 Pushbutton Timer
- 360A-1** Touch Timer
- 560A-3** IP66 Touch Timer



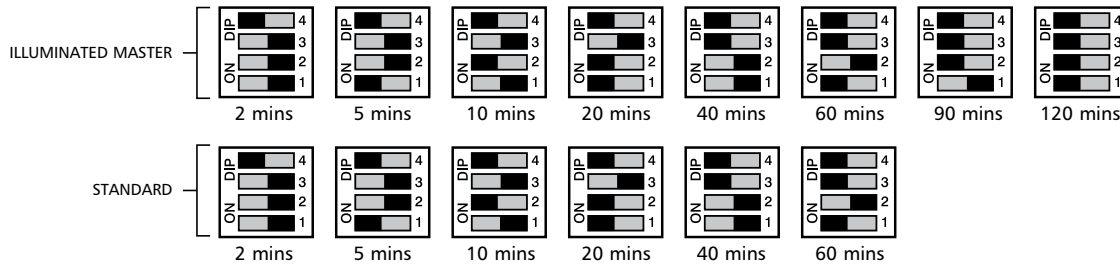
Time Delay Switches and Sensors

Product Range Specifications and Wiring Diagrams



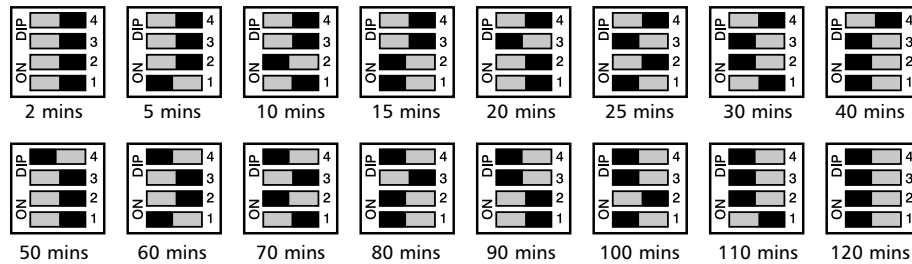
Dip Switches for all 2 Wire Units

Please note that the black bar denotes the position of the dip switch.



Dip Switches for all 3 Wire Units

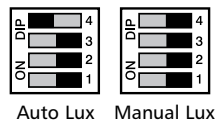
Please note that the black bar denotes the position of the dip switch.



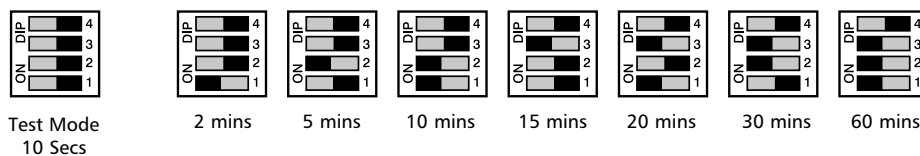
Dip Switches for LEVCPIR

Please note that the black bar denotes the position of the dip switch.

Dip switch 4 is only used for setting Automatic (150 Lux) or Manual Lux.



Time Settings (Test Mode to 60 minutes)



Mechanical Time Switches

Levante's range of 24 hour mechanical timers offer a choice of options for control of your heating, security and lighting applications.



General Purpose 24-Hour Timer

ref: **TM8GP-24**

- 24 hour
- Minimum time setting 15 minutes
- Override switch
- Surface mounting
- Single socket size
- Versatile 16 Amp version



Plug-in 24-Hour Timer

ref: **TM8PI-24**

- 24 hour
- Minimum time setting 15 minutes
- Override switch
- Front entry socket
- 3 pin
- Sleeved pins
- 13 Amp



Immersion 24-Hour Timer

ref: **TM8IM-24**

- 24 hour
- Minimum time setting 15 minutes
- Override switch
- Surface/panel mounting
- 16 Amp



Sensors, Controllers and Timers

O.Erre offer a full range of control products for your air extraction requirements.



Sensors

Accessory for all domestic fans (base version) with a maximum power of 200W.



PIR Sensor

ref: **OERPIR**

The fan starts automatically when the infrared sensor detects a presence in the room. When the room is vacated the timer takes control keeping the fan operating for a preset time (from 2 up to 25 minutes). In accordance with EN 60335-2-80.

HT Sensor

ref: **OERHT**

The fan starts at a pre-determined humidity level. When humidity levels fall the timer takes control, keeping the fan operating for a preset time from 2 up to 25 minutes automatic or manual functioning.

Controllers

5 Speed Controller

ref: **OERRG5**



For basic fan models of up to 80 Watts.

- Control motor ON/OFF
- Variable speed

5 Speed Reversible Controller

ref: **OERRG5AR**



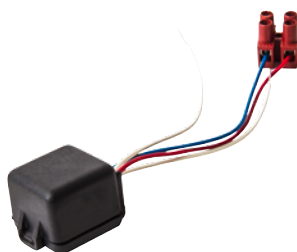
For basic fan models of up to 80 Watts.

- Control motor ON/OFF
- Variable speed
- Airflow reversibility

Timers

Timermatic

ref: **OERTMATIC**



Self adjusting proportional timer from 4 to 13 minutes approx. It can be used with any fan up to a maximum power of 200W.

For installation inside switch box, junction box and inside the appliance.

Timertronic

ref: **OERTTRONIC**



The Timertronic is an electronic timer designed to delay the turn-off operation of any fan with power as high as 200VA.

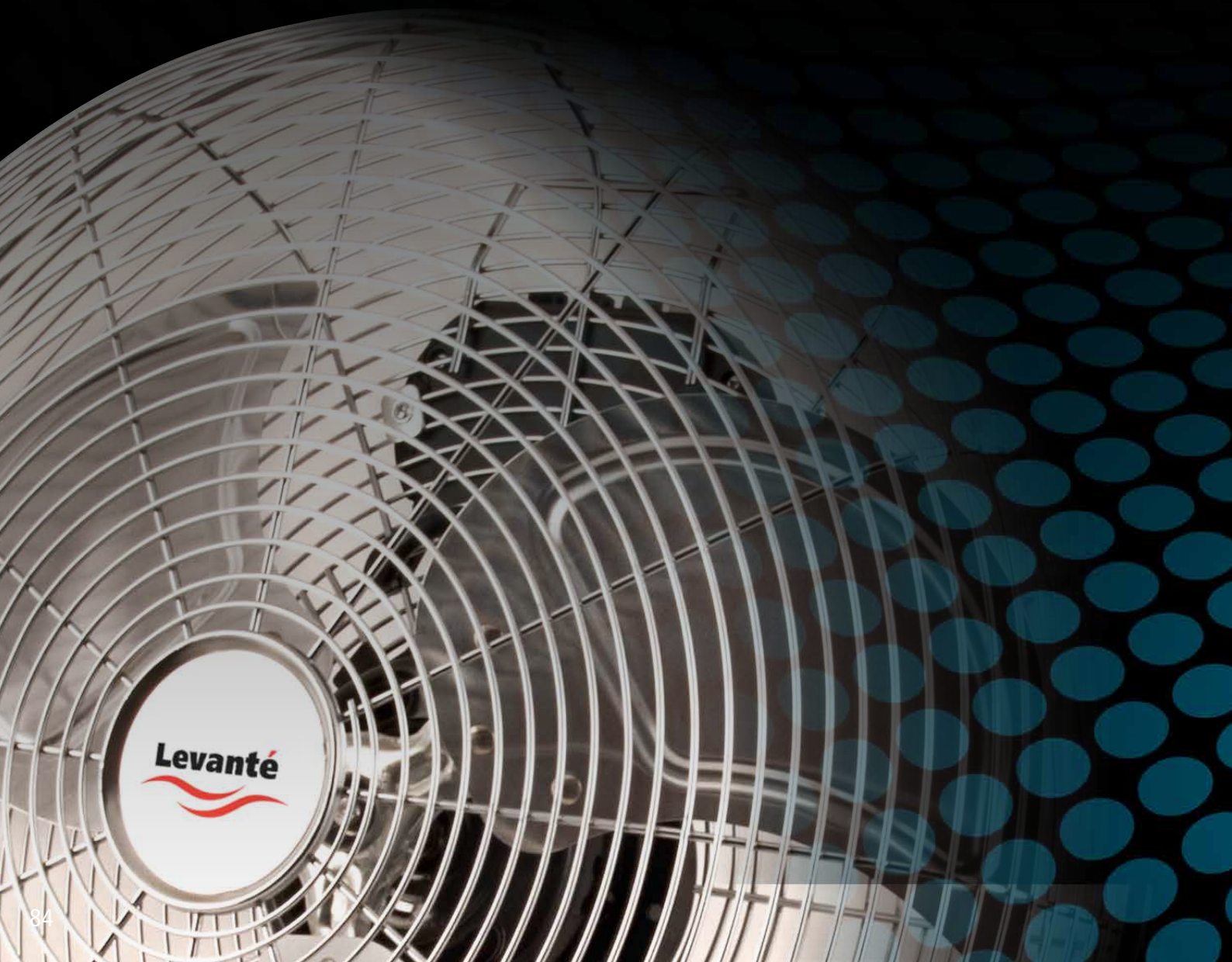
For installation inside switch boxes or unattended connection. Delay is adjustable from 3 to 25 minutes; no delay is added when the fan starts.

section three

Air Cooling

Cooling is essential in today's increasing Summer heat and Levanté have produced a range of cooling products suitable for domestic and commercial environments, allowing our customers to:

Stay cool with Levanté.





84-93

Air Cooling

Levanté 4" USB Desk Fan86
Levanté 6" Clip-on Desk Fan87
Levanté 12" and 16" Desk Fans88
Levanté 16" Remote Control Wall Fan89
Levanté 16" Pedestal Fan90
Levanté Tower Fan91
Levanté 18" Air Circulator92

4" USB Desk Fan

Simply plug into any powered USB socket.



ref: **LEV4DF/USB**

Features:

- 2W output
- Plug and play USB connector
- Chrome finish
- Adjustable angle
- Anti-vibration rubber feet
- 130mm diameter
- c/w 2m cable



6" Clip-on Desk Fan

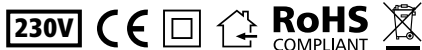
Clips easily onto a desk or shelf. Use as a standard fan with the base supplied, or hang on the wall using the keyhole aperture.



ref: **LEV6DF/CLIP**

Features:

- 20W output
- Adjustable angle
- Spring loaded clip
- 50mm clip-on jaw
- Separate base
- 2 speed settings
- Mesh safety grill
- 200mm diameter fan
- 305mm overall height
- c/w 1.5m cable and plug



12" & 16" Desk Fans

The ideal solution for office environments.



Features:

- Oscillating action
- Adjustable angle
- 3 speed settings
- Piano switch
- Mesh safety grill
- c/w 1.5m cable and plug



12" Desk Fan

ref: **LEV12DF**

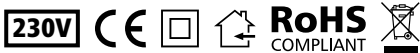
- Fan diameter 300mm/12"
- Overall height 460mm/18"
- 35W output



16" Desk Fan

ref: **LEV16DF**

- Fan diameter 405mm/16"
- Overall height 600mm/23.5"
- 45W output



16" Remote Control Wall Fan

Wall mount, remote control fan, ideal for commercial applications.



ref: **LEV16WF+RM**

Features:

- 55W output
- Oscillating action
- Adjustable angle
- 3 speed settings (low/medium/high)
- 3 wind settings (normal/natural/sleep)
- 0.5 - 7.5 hour timer
- c/w remote control
- 405mm/16" diameter fan
- 580mm/22.5" overall height
- c/w 1.5m cable and plug
- Wall mounting only



16" Pedestal Fan

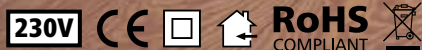
Pedestal fan for direct cooling when and where required.



ref: **LEV16PF**

Features:

- 45W output
- Oscillating action
- Adjustable angle
- 3 speed settings
- Piano switch
- Mesh safety grill
- 405mm/16" diameter fan
- 1060mm-1300mm overall height
- c/w 1.5m cable and plug



32" Tower Fan

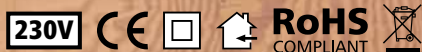
With its 32" height and oscillating action, this product is ideal for all environments. Also incorporating a 2 hour timer.



ref: **LEVTF32T**

Features:

- 55W output
- Oscillating action
- 3 speed settings
- Timer: up to 2 hours
- Adjustable airflow angle
- 800mm (32") overall height
- c/w 1.5m cable and plug



18" Air Circulator

A powerful, high velocity floor fan suitable for home and office use.



ref: **LEV18AC**

Features:

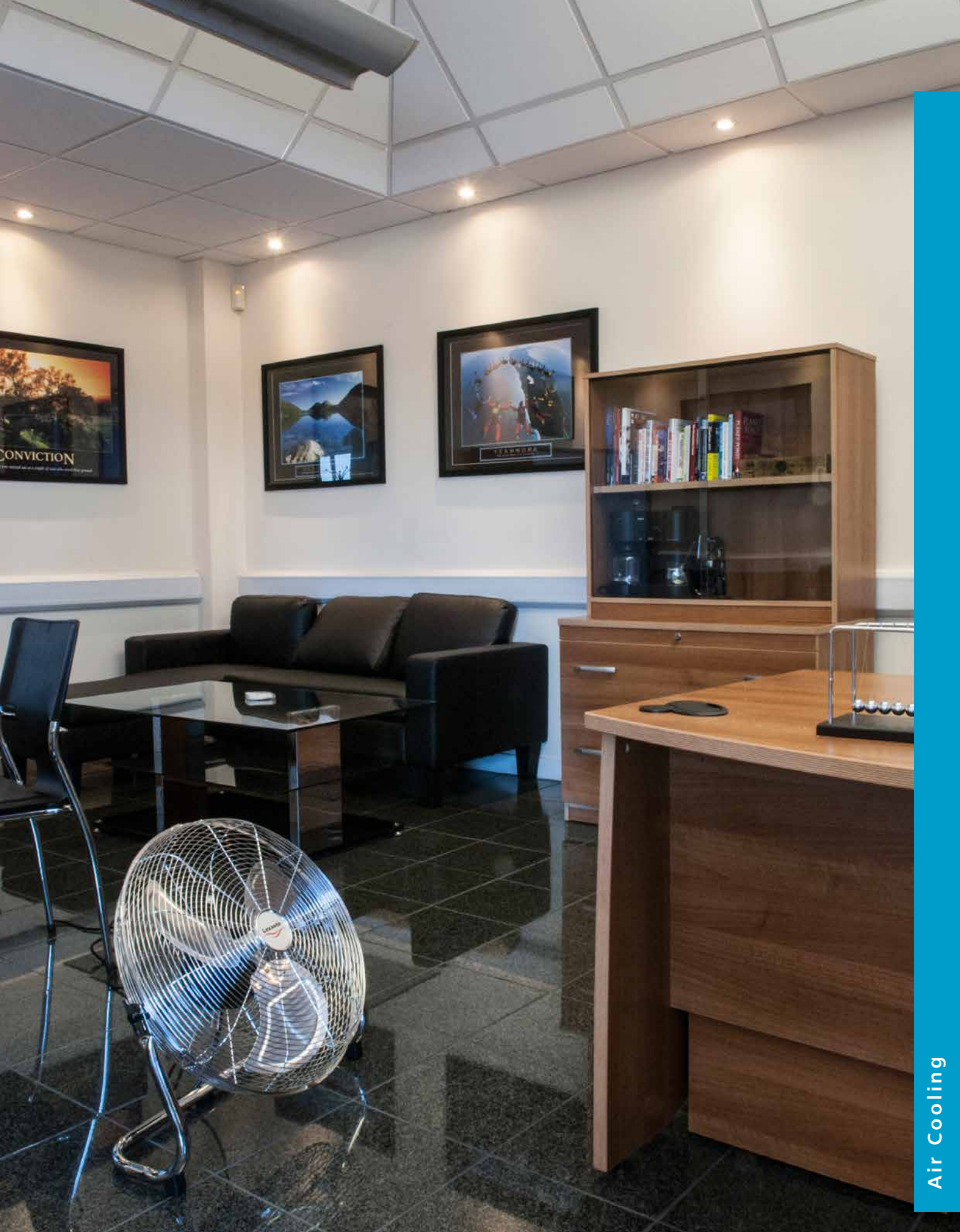
- 140W output
- Built-in thermal protection
- Aluminium blades
- Tilt adjustment
- 3 speeds
- c/w 1.5m cable and plug



technical tips...

The Levante air circulator can also be used in conjunction with submersible pumps and dehumidifiers to aid cleanup in the aftermath of flooding.





section four

Hygiene

With an extensive range of hand dryers, hair dryers, fly killers and waste disposal units, Levanté is the number one choice for your washroom and food preparation environments.

Keep clean with Levanté.



Hygiene

Levanté 1.8kW Energy Efficient Automatic Hand Dryer	96
Levanté Dual Wattage Automatic Hand Dryer	97
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Master Edition - 490W, 0.6HP	112
Master Edition - 550W, 0.75HP	113
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Batch Feed - 475W, 0.5HP	115
Batch Feed - 550W, 0.75HP	116
Batch Feed - 900W, 1.25HP	117

Energy Saving Commercial Hand Dryers

1.8kW Metal Energy Efficient Automatic Hand Dryer



Conventional hand dryers take approximately 30-45 seconds to dry the hands.

With this powerful model from Levante, hands can now be completely dry in just 10 seconds, whilst the 1.8kW output uses approximately 80% less energy than a standard hand dryer. Ideal for high traffic areas.



Polished Steel Finish

ref: **LEVHD1.8MHP**

White Finish

ref: **LEVHD1.8MHP/WH**

Now features an internal dual wattage switch, adjustable between 1800W warm dry and 650W cool dry for increased energy efficiency.

Features:

- Automatic Infrared operation
- Polished stainless steel or white powder coated finish
- Air flow rate 90m³/hr
- Air flow speed 80m/s
- Operating Level 90db(A)
- Unit weight 3.1kg
- Dimensions (W x H x D): 290 x 315 x 175mm



Celtic Football Club

Energy Saving Commercial Hand Dryers

Dual Wattage Automatic Hand Dryer

Adjustable between 1350W warm dry and 600W cool dry for increased energy efficiency.



White Finish

ref: **LEVHD1350WH**

Silver Finish

ref: **LEVHD1350SIL**

Features an internal dual wattage switch, adjustable between 1350W warm dry and 600W cool dry for increased energy efficiency.

Features:

- Automatic Infrared operation
- Air flow rate 96m³/hr
- Air flow speed 106m/s
- Blue LED power indication lights
- Overheat protection
- Operating Level 84db(A)
- Unit weight 3.8kg
- Dimensions (W x H x D): 270 x 185 x 225mm



Commercial Hand Dryers

1.5kW Plastic Automatic Hand Dryer



This model is ideal for use in schools and hospitals etc, where children will be the main users, due to the lower heat output which is kinder to sensitive skin.

ref: **LEVHD1.5P**

Features:

- Automatic Infrared operation
- Air flow rate 88m³/hr
- Air flow speed 14.5m/s
- Operating Level 75db(A)
- Unit weight 1.7kg
- Dimensions (W x H x D):
198 x 253 x 145mm



2.1kW Plastic Automatic Hand Dryer



This lightweight hand dryer features a strong ABS plastic case. The 2.1kW motor makes this model ideal for offices and public washrooms with medium traffic flow.

ref: **LEVHD2.1P**

Features:

- Automatic Infrared operation
- Air flow rate 192m³/hr
- Air flow speed 20m/s
- Operating Level 70db(A)
- Unit weight 2.9kg
- Dimensions (W x H x D):
225 x 265 x 210mm



Commercial Hand Dryers

2.1kW Stainless Steel Automatic Hand Dryer



A lightweight hand dryer with a decorative, polished stainless steel finish. The 2.1kW motor makes this model ideal for offices and public washrooms with medium traffic flow.

ref: **LEVHD2.1SS**

Features:

- Automatic Infrared operation
- Air flow rate 192m³/hr
- Air flow speed 20m/s
- 240V~50Hz
- IPX1 rated
- Operating Level 70db(A)
- Unit weight 2.9kg
- Dimensions (W x H x D):
230 x 265 x 210mm



2.5kW Plastic Automatic Hand Dryer



Offering a balance of performance and price, this lightweight yet powerful model is an ideal choice for the more cost conscience consumer.

ref: **LEVHD2.5ABSW**

Features:

- Automatic Infrared operation
- Air flow rate 270m³/hr
- Air flow speed 30m/s
- Operating Level 85db(A)
- Unit weight 3.25kg
- Dimensions (W x H x D):
270 x 140 x 240mm



Commercial Hand Dryers

2.2kW Metal Automatic Hand & Face Dryer



This hand & face dryer is constructed in a heavy duty metal shell with a durable white powder-coated finish. Its 2.2kW power rating makes it suitable for use in areas of medium to high traffic.

ref: **LEVHD2.2MHF**

Features:

- Automatic Infrared operation
- 360° rotating nozzle
- Air flow rate 210m³/hr
- Air flow speed 22m/s
- Operating Level 78db(A)
- Unit weight 6.3kg
- Dimensions (W x H x D):
265 x 233 x 210mm



2.5kW Stainless Steel Automatic Hand & Face Dryer



A heavy duty hand & face dryer with a decorative, brushed stainless steel finish. Its extremely powerful motor makes it perfect for long term use in high traffic areas such as pubs, night clubs, shopping centres etc.











ref: **LEVHD2.5SSHF**

Features:

- Automatic Infrared operation
- 360° rotating nozzle
- Air flow rate 270m³/hr
- Air flow speed 30m/s
- Operating Level 85db(A)
- Unit weight 5.8kg
- Dimensions (W x H x D):
270 x 240 x 190mm



Hand Dryer Selection Chart

	example areas	suitable for	type	product ref	description	rating	air flow rate	air flow speed	IP rating	operating level	drying time
	Schools, Colleges, Hospitals	Children, Elderly	Hand dryer	LEVHD1.5P	1.5kW Plastic	Light-weight	88m³/hr	14.5m/s	IP22	75db(A)	30-45 seconds
	Offices, Washrooms	Medium traffic flow	Hand dryer	LEVHD2.1P	2.1kW Plastic	Light-weight	192m³/hr	20m/s	IPX1	70db(A)	30-45 seconds
	Offices, Washrooms	Medium traffic flow	Hand dryer	LEVHD2.1SS	2.1kW Stainless steel	Light-weight	192m³/hr	20m/s	IPX1	70db(A)	30-45 seconds
	Schools (cool setting) Colleges, Washrooms	All	Hand dryer	LEVHD1350WH	1.35/0.6kW Powder coated white	Heavy Duty	96m³/hr	106m/s	IP22	84db(A)	<10 seconds
	Schools (cool setting) Colleges, Washrooms	All	Hand dryer	LEVHD1350SIL	1.35/0.6kW Powder coated silver	Heavy Duty	96m³/hr	106m/s	IP22	84db(A)	<10 seconds
	Offices, Washrooms, Leisure centres	Medium traffic flow	Hand dryer	LEVHD2.5ABS	2.5kW High impact white ABS	Heavy Duty	270m³/hr	30m/s	IPX1	85db(A)	30-45 seconds
	Pubs, Nightclubs, Shopping centres, Leisure centres	High traffic flow	Hand dryer	LEVHD1.8MHP	1.8/0.65kW Stainless steel	Heavy Duty	90m³/hr	80m/s	IPX1	90db(A)	<10 seconds
	Pubs, Nightclubs, Shopping centres, Leisure centres	High traffic flow	Hand dryer	LEVHD1.8MHP/WH	1.8/0.65kW Powder coated white	Heavy Duty	90m³/hr	80m/s	IPX1	90db(A)	<10 seconds
	Offices, Washrooms, Leisure centres	Medium/ High traffic flow	Hand and face dryer	LEVHD2.2MHF	2.2kW Powder coated white	Heavy Duty	210m³/hr	22m/s	IPX1	78db(A)	30-45 seconds
	Offices, Guest houses, Leisure centres	High traffic flow	Hand and face dryer	LEVHD2.5SSHf	2.5kW Brushed stainless steel	Heavy Duty	270m³/hr	30m/s	IPX1	85db(A)	30-45 seconds

1.2kW Commercial Hair Dryer

Wall mounted hair dryer ideal for use in hotels and guest houses.



ref: **LEV1.2HD**

Features:

- High/low heat setting
- Spring loaded operating button prevents unit from being left on unintentionally
- Air flow rate 71m³/hr
- Air flow speed 13m/s



1.5kW Commercial Hair Dryer

Levante wall mounted 1.5kW digital hair dryer with integrated shaver socket. Ideal for use in hotels, leisure centres etc.



ref: **LEV1.5HD**

Features:

- Provides constant drying temperature between 40°C - 80°C
- 5 heat settings
- LCD screen
- Starts automatically when handset is lifted and stops when replaced
- Safety shut-off after 18 minutes of constant use
- Air flow rate 77m³/hr
- Air flow speed 15m/s



Venus Fly Killers

The Venus range of fly killers is designed to offer a low energy solution in commercial and food production environments.



Features:

- Three mounting options (Wall mount, suspended, table top)
- Large killing grid
- Specially designed boards for maximum attraction
- Treated aluminium alloy
- Large collection tray
- Includes UV fluorescent lamps



LEVFK30

ref	output	coverage	dimensions (W x H x D)	lamp type
LEVFK16	16W	50m ²	260 x 310 x 90mm	2 x 8W
LEVFK30	30W	100m ²	480 x 310 x 90mm	2 x 15W
LEVFK40	40W	150m ²	635 x 310 x 90mm	2 x 20W



Replacement Lamps

ref	wattage	suitability
LEVFK16 LAMP	8W	LEVFK16
LEVFK30 LAMP	15W	LEVFK30
LEVFK40 LAMP	20W	LEVFK40

technical tips...

It is recommended that you replace the fly killer lamps every 12 months, due to deterioration of the UV to attract flies.



Exocutor Fly Killers

The Exocutor brand has been a favourite with specifiers for over 20 years, selected for its longstanding reliability and proven efficiency in demanding commercial environments.

P+L Systems®
EXOCUTOR

Available in 16W, 30W, 40W or 80W units in a stainless steel or white finish, the Exocutor range is full of features designed to maximise useful UV light output. Staggered tube positioning ensures that the maximum amount of UV light is radiated from all areas of the unit, luring flying insects into the highly effective triangular killing grid.

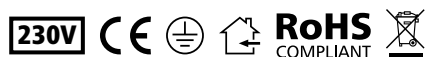
Features:

- Unique corner light scoops give increased UV light output
- Internal aluminium UV light reflectors
- Staggered, high efficiency UV tubes for maximum light output
- Reliable high specification 3750V transformer
- Unique triangular killing grid for a larger effective catch area
- Strong UV stable polycarbonate and coated mild steel/stainless steel construction
- Large capacity, mains inter locked catch tray with anti-blow out folds
- Simple wall, ceiling or desk mounting
- Easy cleaning and servicing
- Range of spare parts available
- Independently tested and certified to RoHS and all relevant European standards
- Contemporary market leading British design



EX16W

ref	output	finish	coverage	dimensions (W x H x D)	lamp type	weight
EX16S	16W	Stainless	50m ²	390 x 140 x 265mm	2 x TPX8-12	3.3kg
EX16W	16W	White	50m ²	390 x 140 x 265mm	2 x TPX8-12	3.3kg
EX30S	30W	Stainless	100m ²	538 x 140 x 265mm	2 x TPX15-18	4.5kg
EX30W	30W	White	100m ²	538 x 140 x 265mm	2 x TPX15-18	4.5kg
EX40S	40W	Stainless	140m ²	694 x 140 x 265mm	2 x TPX18-24	5.6kg
EX40W	40W	White	140m ²	694 x 140 x 265mm	2 x TPX18-24	5.6kg
EX80S	80W	Stainless	280m ²	694 x 140 x 265mm	2 x TPX36-24	5.7kg
EX80W	80W	White	280m ²	694 x 140 x 265mm	2 x TPX36-24	5.7kg



Halo Aqua Fly Killer

P+L Systems®

halo Aqua

The Halo Aqua is suitable for use in harsh environments that may require hosing down. Incorporates FEP coated shatterproof tubes and robust construction, while still maintaining a contemporary design.

Offering a variety of installation options, the Halo Aqua can be wall mounted vertically or horizontally. With a swing down front guard, it provides complete access to the UV tubes and glueboard, while the quick release lampholder covers make it extremely quick to service.

Features:

- Stainless steel construction
- Commercial efficiency with a contemporary discreet aesthetic for a wide range of applications
- Side access to glueboard for quick and easy servicing
- Aluminium removable debris tray
- Unique, quick release IP65 lampholder covers protect against water ingress
- Closeable light apertures for maximum light output or prevention of dust ingress
- Quick tool free access gives simple access to consumables for easy maintenance
- High efficiency shatterproof UV tubes
- Designed for use with GLUPAC® pheromone impregnated glueboards, made from durable PVC that can withstand hosing down and harsh environments
- Independently tested and certified to RoHS and all relevant European standards



ref	output	finish	coverage	dimensions (W x H x D)	lamp type	weight
HL45IP	45W	Stainless	120m ²	588 x 404 x 118mm	3 x TPX15-18S	7.0kg



Replacement Glueboard

ref: **GB013**



WasteMaid Food Waste Disposal Systems

The WasteMaid Elite under sink waste disposal systems offer an energy efficient, environmentally responsible solution to the growing problem of food waste.



Damp organic food waste, stored in a kitchen bin is the ideal breeding ground for bacteria.

It is also a magnet for attracting unwanted insect attention and producing unwelcome odours. With open plan kitchen/ diners the smell of rotting food is even less welcome.

Instant removal of kitchen scraps and unwanted food waste at meal preparation and after meal serving is the sensible, hygienic alternative. Inclusion of a WasteMaid Elite Disposer in the kitchen sink will enable the homeowner to dispose of all the unwanted food instantly.

Safe and simple to operate - a quarter turn of the tap, flip the power switch and then Food waste is fed into the disposer and in seconds swiftly ground into very fine particles that are flushed through the existing water waste pipe.

Energy efficient WasteMaid Disposers are designed to run at jam busting speeds (twice as fast as other makes) and use minimal water/electricity. Their lightweight compact design allows them to sit comfortably in even the tightest of kitchen cabinets. They can also be used where homes have Septic Tanks (750 gallons).

International Studies endorse a Disposer as the most cost effective, hygienic and environmentally friendly method of handling and disposing of food waste.

Easy and Fast to Install

WasteMaid Elite disposers feature Speed Master Mounting, an exclusive system that provides fast and economical installation.

Corrosion Proof

WasteMaid Elite disposers carry a lifetime warranty against failure due to corrosion.

Permanent Magnet Motors

WasteMaid Elite motors offer maximum torque instantly with the power to cut through potential jams.

Removable Splash Guard

All WasteMaid Elite models have a removable splash guard, ideal for easy cleaning and replacement.

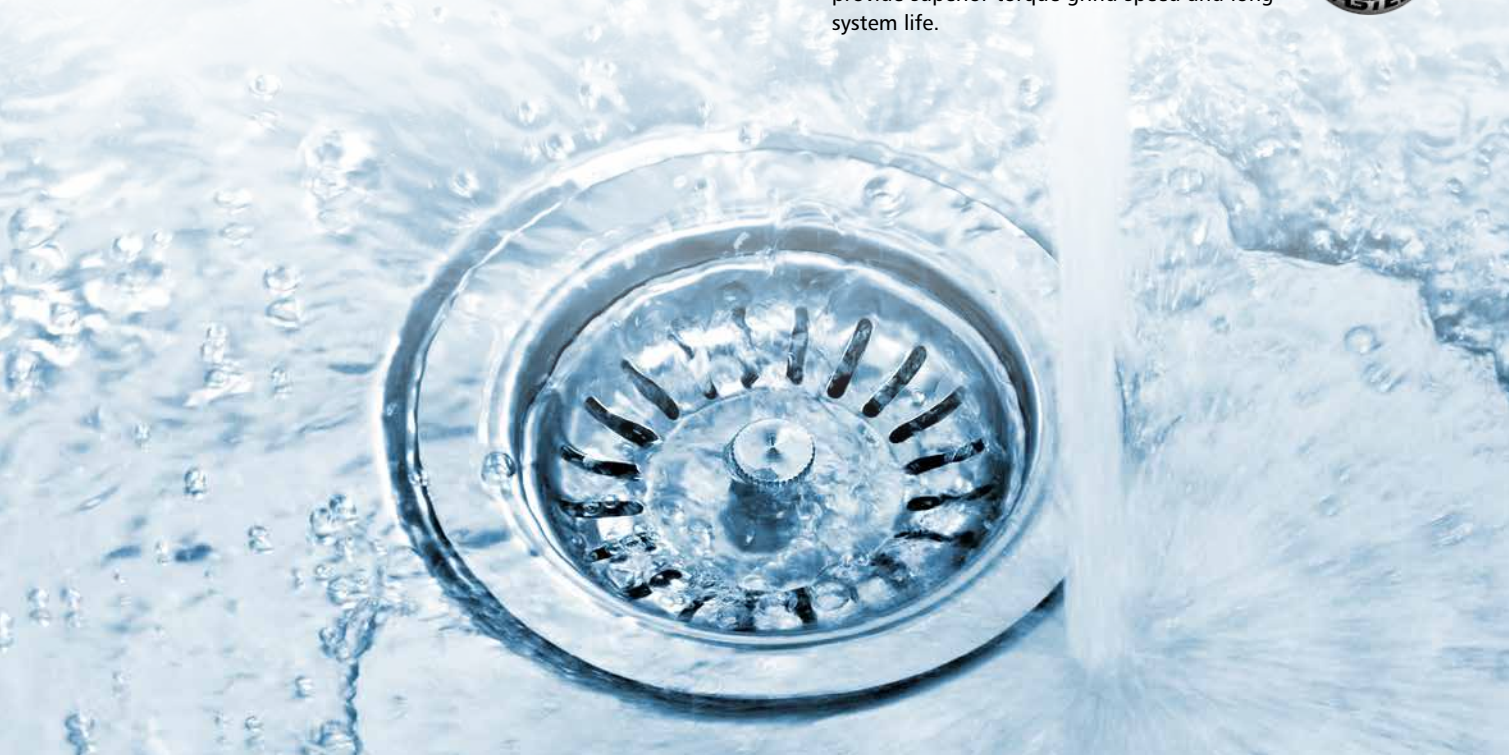
Bio Shield (Antimicrobial)

For odour protection - Disposers are treated with an antimicrobial agent moulded inside providing protection against odour causing bacteria growth.



Torque Master Grinding System

A combination of computer designed and balanced components working in unison to provide superior torque grind speed and long system life.





WasteMaid Master Edition

An energy efficient, environmentally responsible solution to the growing problem of food waste.

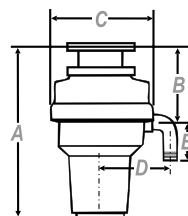


375W, 0.5HP Food Waste Disposer

ref: **WMECO1580**

Specifications:

Horsepower:	0.5HP
Motor speed:	2600 RPM
Voltage:	220V - 240V
Power:	375W
Current:	2.25A
Cycles:	50/60
Motor type:	Permanent magnet
Splash guard:	EPDM rubber
Drain outlet:	Polycarbonate 940
Grind ring:	Stainless steel
Swivel impellers:	Stainless steel
Balanced turntable:	Stainless steel
Balanced armature shaft:	Stainless steel
Hopper:	ABS
Drain housing:	Thermoset polymer
Appliance protector:	Manual reset
Sink flange:	Polyamide 66
Stopper:	Polypropylene
Bearings:	Permanently lubricated, sleeve type
Sink waste:	90mm
Unit weight:	4..09kg
Measurement A:	354mm
Measurement B:	161mm
Measurement C:	132mm
Measurement D:	137mm
Measurement E:	70mm
Corrosion guarantee:	Lifetime



WasteMaid Master Edition

An energy efficient, environmentally responsible solution to the growing problem of food waste.

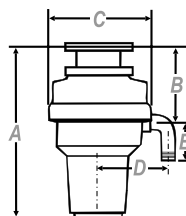


450W, 0.5HP Food Waste Disposer

ref: **WMST1680**

Specifications:

Horsepower:	0.5HP
Motor speed:	2600 RPM
Voltage:	220V - 240V
Power:	450W
Current:	2.25A
Cycles:	50/60
Motor type:	Permanent magnet
Splash guard:	EPDM rubber
Drain outlet:	Polycarbonate 940
Grind ring:	Stainless steel
Swivel impellers:	Stainless steel
Balanced turntable:	Stainless steel
Balanced armature shaft:	Stainless steel
Hopper:	ABS
Drain housing:	Thermoset polymer
Appliance protector:	Manual reset
Sink flange:	Polyamide 66
Stopper:	Polypropylene
Bearings:	Permanently lubricated, sleeve type
Sound shell:	Partial
Sink waste:	90mm
Unit weight:	4.12kg
Measurement A:	354mm
Measurement B:	161mm
Measurement C:	132mm
Measurement D:	137mm
Measurement E:	70mm
Corrosion guarantee:	Lifetime



WasteMaid Master Edition

An energy efficient, environmentally responsible solution to the growing problem of food waste.

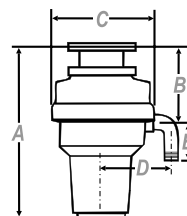


475W, 0.5HP Food Waste Disposer

ref: **WMMD1780**

Specifications:

Horsepower:	0.5HP
Motor speed:	2600 RPM
Voltage:	220V - 240V
Power:	475W
Current:	2.25A
Cycles:	50/60
Motor type:	Permanent magnet
Splash guard:	EPDM rubber
Drain outlet:	Polycarbonate 940
Grind ring:	Stainless steel
Swivel impellers:	Stainless steel
Balanced turntable:	Stainless steel
Balanced armature shaft:	Stainless steel
Hopper:	ABS
Drain housing:	Thermoset polymer
Appliance protector:	Manual reset
Sink flange:	Polyamide 66
Stopper:	Polypropylene
Bearings:	Permanently lubricated, sleeve type
Sound shell:	Full
Sink waste:	90mm
Unit weight:	4.5kg
Measurement A:	372mm
Measurement B:	179mm
Measurement C:	182mm
Measurement D:	137mm
Measurement E:	70mm
Corrosion guarantee:	Lifetime



WasteMaid Master Edition

An energy efficient, environmentally responsible solution to the growing problem of food waste.

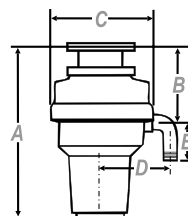


490W, 0.6HP Food Waste Disposer

ref: **WMHD1880**

Specifications:

Horsepower:	0.6HP
Motor speed:	2700 RPM
Voltage:	220V - 240V
Power:	490W
Current:	3.25A
Cycles:	50/60
Motor type:	Permanent magnet
Splash guard:	EPDM rubber
Drain outlet:	Polycarbonate 940
Grind ring:	Stainless steel
Swivel impellers:	Cast stainless steel
Balanced turntable:	Stainless steel
Balanced armature shaft:	Stainless steel
Hopper:	ABS
Drain housing:	Thermoset polymer
Appliance protector:	Manual reset
Sink flange:	Polyamide 66
Stopper:	SUS304/NBR/ABS
Bearings:	Permanently lubricated, sleeve type
Sound shell:	Full
Sink waste:	90mm
Unit weight:	5.45kg
Measurement A:	378mm
Measurement B:	185mm
Measurement C:	220mm
Measurement D:	140mm
Measurement E:	70mm
Corrosion guarantee:	Lifetime



WasteMaid Master Edition

Features a built-in air switch - Turn on your disposer by the power switch or by pushing a button that creates air pressure to turn on the disposer. Great option for use with kitchen islands.

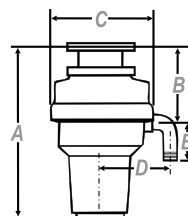


550W, 0.75HP Food Waste Disposer

ref: **WMD1980**

Specifications:

Horsepower:	0.75HP
Motor speed:	2700 RPM
Voltage:	220V - 240V
Power:	550W
Current:	3.25A
Cycles:	50/60
Motor type:	Permanent magnet
Splash guard:	EPDM rubber
Drain outlet:	Polycarbonate 940
Grind ring:	Stainless steel
Swivel impellers:	Cast stainless steel
Balanced turntable:	Stainless steel
Balanced armature shaft:	Stainless steel
Hopper:	ABS
Drain housing:	Thermoset polymer
Appliance protector:	Manual reset
Sink flange:	Polyamide 66
Stopper:	SUS304/NBR/ABS
Bearings:	Permanently lubricated, sleeve type
Sound shell:	Full
Sink waste:	90mm
Unit weight:	6.35kg
Measurement A:	404mm
Measurement B:	185mm
Measurement C:	220mm
Measurement D:	140mm
Measurement E:	70mm
Corrosion guarantee:	Lifetime



Premium 2080 Waste Disposal System

Features a built-in air switch - Turn on your disposer by the power switch or by pushing a button that creates air pressure to turn on the disposer. Great option for use with kitchen islands.

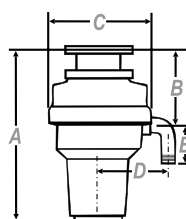


900W, 1.25HP Food Waste Disposer

ref: **WMP2080**

Specifications:

Horsepower:	1.25HP
Motor speed:	2800 RPM
Voltage:	220V - 240V
Power:	900W
Current:	4A
Cycles:	50/60
Motor type:	Permanent magnet
Splash guard:	EPDM rubber
Drain outlet:	Polycarbonate 940
Grind ring:	Stainless steel
Swivel impellers:	Cast stainless steel
Balanced turntable:	Stainless steel
Balanced armature shaft:	Stainless steel
Hopper:	ABS
Drain housing:	Thermoset polymer
Appliance protector:	Manual reset
Sink flange:	Polyamide 66
Stopper:	SUS304/NBR/ABS
Bearings:	Permanently lubricated, sleeve type
Sound shell:	Full
Unit weight:	6.81kg
Measurement A:	439mm
Measurement B:	185mm
Measurement C:	220mm
Measurement D:	140mm
Measurement E:	70mm
Corrosion guarantee:	Lifetime



WasteMaid Batch Feed

Batch feed disposers utilise a stopper/actuator which makes operation safer and quieter and eliminates the need for an outside on/off switch.

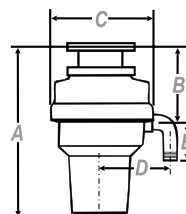


475W, 0.5HP Food Waste Disposer

ref: **WMMD1785BF**

Specifications:

Horsepower:	0.5HP
Motor speed:	2600 RPM
Voltage:	220V - 240V
Power:	475W
Current:	2.25A
Cycles:	50/60
Motor type:	Permanent magnet
Drain outlet:	Polycarbonate 940
Feed:	Batch loading
Waste elbow:	ABS
Grind ring:	Stainless steel
Swivel impellers:	Stainless steel
Balanced turntable:	Stainless steel
Hopper:	ABS
Drain housing:	Thermoset polymer
Overload protector:	Manual reset
Sink flange:	Polyamide 66
Stopper:	Polypropylene
Bearings:	Permanently lubricated, sleeve type
Sound shell:	Full
Unit weight:	5.6kg
Measurement A:	430mm
Measurement B:	233mm
Measurement C:	178mm
Measurement D:	137mm
Measurement E:	70mm
Corrosion guarantee:	Lifetime



WasteMaid Batch Feed

Batch feed disposers utilise a stopper/actuator which makes operation safer and quieter and eliminates the need for an outside on/off switch.

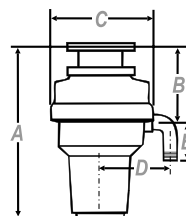


550W, 0.75HP Food Waste Disposer

ref: **WMD1985BF**

Specifications:

Horsepower:	0.75HP
Motor speed:	2700 RPM
Voltage:	220V - 240V
Power:	550W
Current:	3.25A
Cycles:	50/60
Motor type:	Permanent magnet
Drain outlet:	Polycarbonate 940
Feed:	Batch loading
Waste elbow:	ABS
Grind ring:	Stainless steel
Swivel impellers:	Cast stainless steel
Balanced turntable:	Stainless steel
Hopper:	ABS
Drain housing:	Thermoset polymer
Sink flange:	Polyamide 66
Overload protector:	Manual reset
Stopper:	Polycarbonate
Bearings:	Permanently lubricated, sleeve type
Sound shell:	Full
Unit weight:	7.0kg
Measurement A:	460mm
Measurement B:	240mm
Measurement C:	220mm
Measurement D:	140mm
Measurement E:	70mm
Corrosion guarantee:	Lifetime



WasteMaid Batch Feed

Batch feed disposers utilise a stopper/actuator which makes operation safer and quieter and eliminates the need for an outside on/off switch.

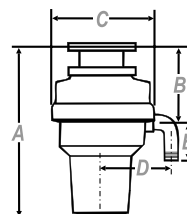


900W, 1.25HP Food Waste Disposer

ref: **WMP2085BF**

Specifications:

Horsepower:	1.25HP
Motor speed:	2800 RPM
Voltage:	220V - 240V
Power:	900W
Current:	4A
Cycles:	50/60
Motor type:	Permanent magnet
Drain outlet:	Polycarbonate 940
Feed:	Batch loading
Waste elbow:	ABS
Grind ring:	Stainless steel
Swivel impellers:	Cast stainless steel
Balanced turntable:	Stainless steel
Hopper:	ABS
Drain housing:	Thermoset polymer
Sink flange:	Polyamide 66
Overload protector:	Manual reset
Stopper:	Polycarbonate
Bearings:	Permanently lubricated, sleeve type
Sound shell:	Full
Unit weight:	7.7kg
Measurement A:	494mm
Measurement B:	240mm
Measurement C:	220mm
Measurement D:	140mm
Measurement E:	70mm
Corrosion guarantee:	Lifetime

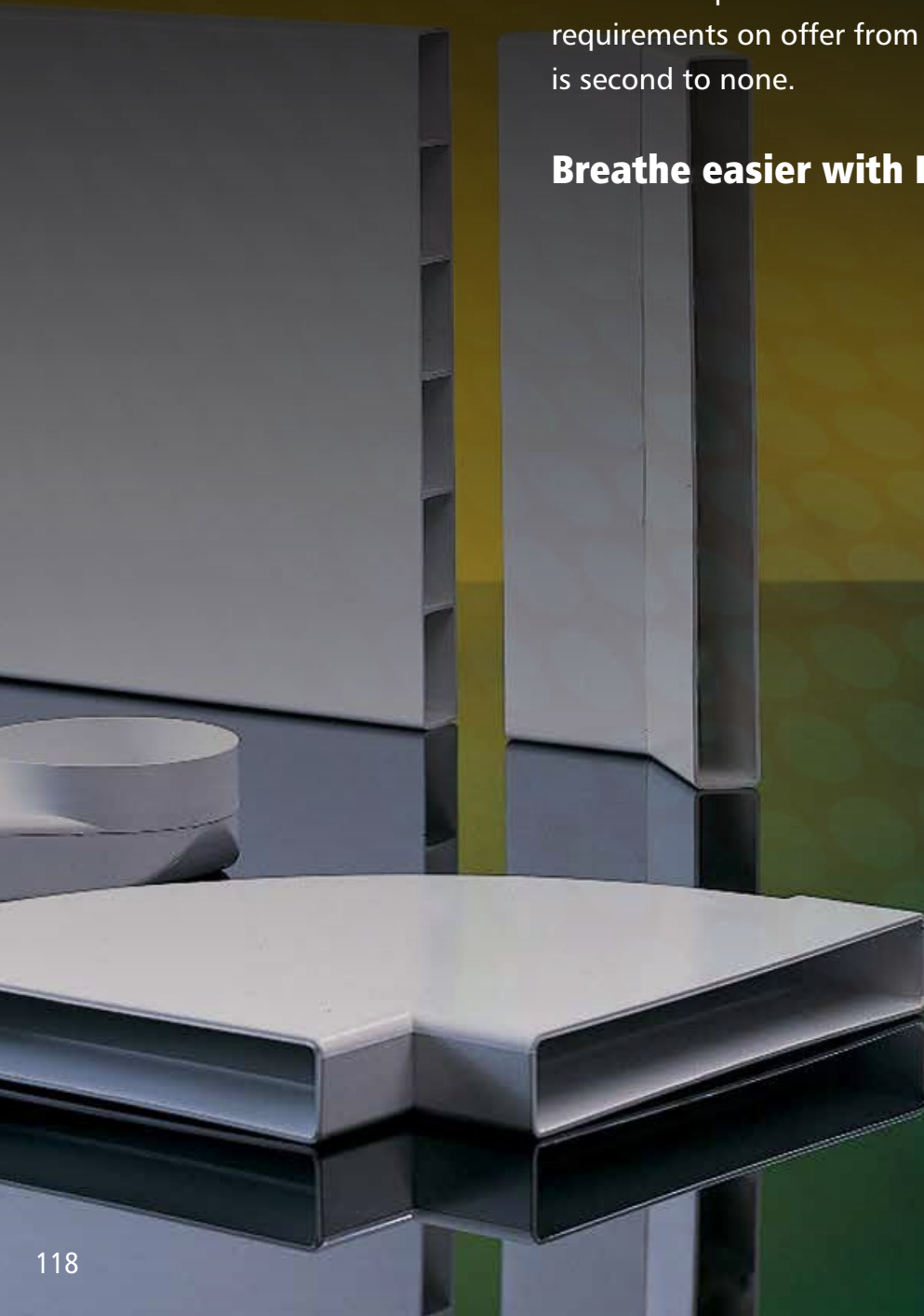


section five

Air Movement

Levanté have joined forces with O.Erre and Domus to offer an extensive range of extraction and ducting products for domestic, commercial and industrial applications. These include Part L and F compliant fans, heat recovery, destratification and a wide variety of industrial and commercial products. This combined with all the ducting requirements on offer from Domus, the Levanté offering is second to none.

Breathe easier with Levanté.



Air Movement

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Domus Plenums

Domus Ancillary Components

Domus Background Ventilators

Domus High Rise Kits

Domus Cooker Hood Extraction Kits

Domus Tumble Dryer Extraction Kits

Air Extraction Products

Levanté and O.Erre - Working in partnership for quality ventilation.



Fan Variations

Axial Fans

Suitable for wall, window, ceiling and panel mounting, axial fans extract directly outside over short distances. Short solid duct runs are an option but the length of solid duct should be limited (see fan selection guide).

Centrifugal Fans

Centrifugal fans are pressure developing fans which achieve good flow against the resistance created in a ducted system, with bends and elbows or wrinkled duct. They are particularly useful in venting areas with long ducting such as internal bathrooms and laundry rooms.

O.Erre Fan Range

Axial Fans

IN Series

A range of axial fans to extract air directly outside or through ducting that are suitable for wall, ceiling and window (with optional window kit accessory) installations.

The IN low profile range offers a 'slim' grille profile design to fit in with modern décor designs. The fan features a 'click' assembly for fast installation and easy cleaning access, two fixing screws only for wall installation. The fan has an integrated internal shutter to prevent foul air and insects entering the room when the fan is idle. The IN range is extremely quiet with a decibel rating from only 36 dB(A) 3m and low power consumption at 13 Watts, it is a powerful fan with a maximum extraction rate of 105m³/h for the 4" and 325m³/h for the 6". The IN is powerful and efficient which is achieved by clever optimisation of both the motor and impeller.

The IN range also features an operating indication light, a clear visual indication that the fan is operational. Reduced internal wall dimensions will allow installation where the bend of ducting is close to the outlet of the product.



36dB(A) 3m

SELV 12V - IN Series Fan

The safety extra low voltage IN version works at 12V AC and is based upon the axial IN 10/4 model. With the supply unit being installed outside of zone 2, the fan unit can be located within zones 1 and 2 if required - see page ?? for our zone guide.

Available models include standard, timer, PIR, humid-stat & 12V.



Cromo - Axial Decorative Fan

The Cromo is an Axial Fan to extract air directly outside or through short ducting and can be wall or ceiling mounted.

The Cromo Axial Fan is the latest edition to the range, featuring a ball bearing motor for long life and trouble free operation. The Cromo is a decorative fan that features a unique chrome cover, the chrome finish is real chrome and not a spray paint finish type, this finish is achieved by a unique process using quality materials to produce a superior chrome finish. This fan's key features include a 'click' assembly grille which is oversize to prevent dirt staining on the wall, a back draught shutter manufactured from 'mylar' material which is very strong to prevent foul air and insects entering the room when idle (this can be removed if required) and an operating indication light. This fan has low power consumption too, at only 10 Watts it is very efficient and very quiet, at an almost silent 36dB(A) 3m.



36dB(A) 3m

Available models include base, timer and humid-stat.

Ventilor - Axial Window or Wall Fan

A range of axial fans to extract air and fumes directly outside and for installation in windows, double glazing, walls (with optional wall and double glazing fixing kit accessory) and panels up to 50mm.

The Ventilor has a low motion and silent automatic shutter with the 20/8 model featuring manual opening via an integrated pull cord. The Ventilor models feature reversible air flow so that they provide air extraction and airflow options. Quick and simple installation, plus easy maintenance is achieved by a simple locking ring with extra tolerance. Manufactured in a tough and durable gloss ABS material, the Ventilor will blend in with modern interior design and decoration. The Ventilor has high flow rates of 450-70m³/h and features an operating *indication light and rain proof external grille*.

*Excluding 20/8m

Available models include manual (pull cord) and AR (automatic)



Air Extraction Products

Smart - Axial Window or Wall Fan (Smart 23/9 AR Wall)

A range of axial fans for window, wall or panel installation in medium to large domestic and commercial environments.

Suitable for installation in a single, double glazing window glass (with optional window kit accessory), panel or wall.

The Smart Range are built to last, constructed from strong ABS material and finished in high gloss, the smart will blend in with modern décor designs. The ball bearing motor will ensure many years of quiet, efficient and trouble free operation. The click assembly of the smart ensures quick installation and easy maintenance; the grille includes an internal automatic shutter which prevents foul air back-flow and insect ingress when the unit is turned off. The Smart also features a finger guard to prevent finger contact with the impeller. The Smart AR models feature reversible air flow so that they provide air extraction and airflow options.



32dB(A) 3m

Available models include base, timer, PIR and humid-stat.

Compact - Centrifugal Fan

The compact is a centrifugal fan to extract air and fumes through ducting or pipes which can be ceiling mounted and with an optional accessory (window kit) can be also glass mounted.

The compact range features ABS material in its construction, making the compact very strong and durable. The gasket in the compact is made from elastomer which makes installation on uneven surfaces a breeze.

The compact also features a rotating body with the outlet hole positioned in the corner, which provides a solution for awkward wall and ceiling installations.



An integral backdraught shutter is included to prevent foul odours and insects entering the room from outside. The hinged 'click' grille reveals a removable washable filter for easy and simple cleaning.

Available models include timer, humid stat and sensor (sensor will operate in light and dark and has a radius of 8 metres, so ideal for public areas)

Silente - Helico Centrifugal Extractor Fans

Centrifugal fans to extract air and fumes directly outside or through long ducts. Can be installed in holes with diameters of 100mm, 120mm and 150mm.

The Silente or 'silent' Centrifugal fan range is one of the quietest and high flow rate fans on the market. The Silente range operates between 36dB(A) 3m and 60-75m³/h flow rates. It operates at only 15-19 Watts making the Silente a quiet and efficient fan for trouble free operation.



The Silente can be wall or ceiling mounted and is supplied with an easy cleaning washable filter, the filter which is designed to protect the motor for a longer life. The mounting gasket is manufactured from elastomer which is ideal for uneven surfaces and has anti-vibration properties - making installation a breeze.

All components are based upon a 'click' system for simple and quick installation. The air outlet is centred and reduced which is ideal for ducts with curves. The reduced protrusion of the exit spigot allows you to install the unit into the ducting, even if a curve is placed immediately behind the exit hole. An integral back draught shutter is included to prevent unwanted odour and insect ingress when the fan is idle.

Silente - 12 Volt

Based upon the Silente base model this is a safe extra low voltage model.

Available models include base, timer, humid stat and sensor (base and timer only Silente 12 Volt)



36dB(A) 3m

TB In-Line Axial Fan

In-line axial fans for installation into ducting with a diameter of 100mm, 120mm and 150mm.

The TB in line axial fan can be used to extract air, intake air or simply to boost airflow in an existing installation.

The TB body and impeller are manufactured from tough and durable thermoplastic material and polypropylene for long life.



The induction motor on the TB is impedance protected and incorporates thermal overload protection for the ultimate in safety. Designed to be discreetly installed within ducting, the TB is very quiet at only 42dB(A) 3m* and has a low power consumption of only 15 Watts*, it is very powerful with an air extraction rate of 80m³/h*....quiet, efficient and with a long life describes the TB range.

(*TB10 Version)

Available models include standard model.

Aspirodor 165 - Centrifugal Fan

Centrifugal fans to extract air and fumes through ducts or pipes, suitable for wall or duct mounting.

The Aspirodor 165 features dual purpose spigots suitable for 100mm or 120mm and is manufactured from strong and durable ABS material.

The Aspirodor 165 features in-line (replacing part of a duct) or angle (replacing a curve of the duct) mounting options by simple adjustment of the frame.

A flange is also supplied to enable wall mounting. The fixing bracket has elongated fixing holes to allow positional adjustment.



Diverso - Centrifugal Fan

Centrifugal fans to extract air and fumes through ducting or pipes from 75.5mm diameter and can be wall and or ceiling installation.

The Diverso Centrifugal fan is a versatile built in and surface mounted unit as it incorporates a rotating body with the position of the outlet in the corner, enabling installation in awkward places. Manufactured from strong and robust ABS material to a finish that will blend in with modern décor designs. The unique design ensures no dust deposits will be visible on the wall. The Diverso also features a ball bearing motor, for efficient, quiet and trouble free operation for many years.



Available models include base, timer*, humid-stat*.

Diverso timer operations*

When switched on the fan will start rotating after 5 seconds and will over-run after being switched off according to the pre-set timer period. Adjusted over-run timer from 2-30 minutes with the standard setting being 15 minutes.

Diverso humidity timer operations*

The fan starts automatically when the humidity level in the room is higher than the predetermined humidity level on the potentiation meter which allows 40-90% options. The fan can be set to manual a option where it will operate as the timer version only. In manual function, the fan will start when manually switched and when the fan is switched off, the timer takes control by keeping the fan operational for a preset time from 2-25 minutes (in accordance with EN60335-2-8).



36dB(A) 3m

Air Extraction Products

Destratification

The O.Erre range of de-stratification fans can be used in stores, warehouses, factories and workshops as well as many other industrial applications.

These units provide effective and efficient ventilation to large open areas where heat is lost near the ceiling. The units re-circulate the hotter air down to the working level to help eliminate large heating bills during the winter months.



Heat Recovery

Tempero

A single speed energy recovery system suitable for single room application; wall or panel mounting.

Incorporating cross flow air exchanger welded PVC plates and two centrifugal fans with sleeve bearing motors for quiet, efficient and trouble free operation.

Every model is equipped with operating indicator light and the filters are manufactured from polyurethane to grant higher motor protection and longer life.



The Tempero is a simple to retrofit heat recovery, energy saving Centrifugal fan system that is quiet in operation at only 34dB(A) 3m, energy efficient at only 40 Watts to operate, saving up to 75% in energy costs. High performance is reached in terms of balance between energy recovery, consumption, flow rate and noise level.

Available models include base, timer & pre-heat (for colder climates).

Model Types

Standard models (Base): Switch on and off

Timer models (T): Are complete with an adjustable electronic timer, the fan will operate from 2 to 20 minutes approx.

Humidstat (HT): A humidity level adjustable fan, which can be adjusted from 40% to 90% and a timer adjustable from 2 to 20 minutes. Both these options are controlled by small dials and the fan starts automatically at a pre-determined humidity level. When the humidity level falls, the timer takes control keeping the fan operational for a pre-set time.

Sensor (S): Automatically starts when the infrared sensor detects a presence in the room and when the person leaves the room it will continue to run on the time setting you have determined.



Domestic Range



IN Low Profile Axial Fans

To extract air directly outside or through short ducting - base, timer and humidstat/timer model options.
Wall, window* or panel mountable.



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(*with optional window kit)

Features:

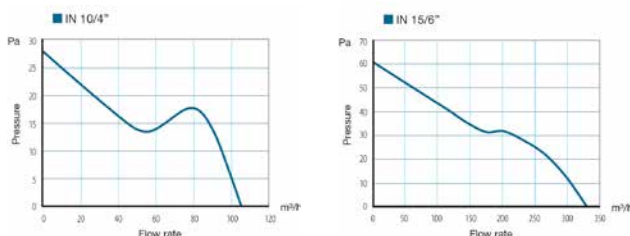
- Low power consumption only 13 Watts
- High performance flow rate up to 330m³/hr
- Low sound level only 35.6dB(A) 3m
- Manufactured from strong ABS material for longer life
- Clean gloss finish to blend with modern interior design and decoration
- Low profile 'click' assembly grille with operating light
- For ducts 100-150mm can be wall or window mounted



Low Sound
Level 36dB(A) 3m



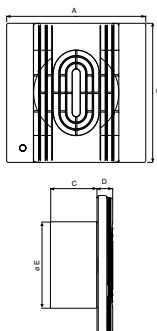
Flow Rate Graph - m³/hr



ref	description	hole Ø (mm)	voltage at 50Hz	flow rate (m ³ /h)	max pressure (mm H ₂ O)	max pressure (Pa)	output	dB(A) 3m	weight (kg)
OERIN10/4LP	IN 4" extractor fan	100	220-240V	105	2.8	28	13W	35.6	0.5
OERIN10/4TLP	IN 4" extractor fan with timer	100	220-240V	105	2.8	28	13W	35.6	0.5
OERIN10/4HTLP	IN 4" extractor fan with timer & humidistat	100	220-240V	105	2.8	28	13W	35.6	0.5
OERIN10/4LPP	IN 4" extractor fan with pull cord	100	220-240V	105	2.8	28	13W	35.6	0.5
OERINLV10/4T	IN 4" extractor fan with timer	100	12V AC	105	2.8	28	13W	35.6	0.5
OERINLV10/4HT	IN 4" extractor fan with timer & humidistat	100	12V AC	105	2.8	28	13W	35.6	0.5
OERIN15/6LP	IN 6" extractor fan	150	220-240V	330	6.2	61	30W	42.2	0.8
OERIN15/6TLP	IN 6" extractor fan with timer	150	220-240V	330	6.2	61	30W	42.2	0.8
OERIN15/6HTLP	IN 6" extractor fan with timer & humidistat	150	220-240V	330	6.2	61	30W	42.2	0.8
OERIN15/6LPP	IN 6" extractor fan with pull cord	150	220-240V	330	6.2	61	30W	42.2	0.8

Dimensions

ref	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)
OERIN10/4LP	160	160	53	18	Ø100
OERIN10/4TLP	160	160	53	18	Ø100
OERIN10/4HTLP	160	160	53	18	Ø100
OERINLV10/4T	160	160	53	18	Ø100
OERINLV10/4HT	160	160	53	18	Ø100
OERIN15/6LP	210	210	66	20	Ø150
OERIN15/6TLP	210	210	66	20	Ø150
OERIN15/6HTLP	210	210	66	20	Ø150



Accessories

ref	description
OERWINKIT10/4IN	IN 4" window kit
OERWINKIT15/6IN	IN 6" window kit
OERSHUTTER10/4	Ø100mm shutter
OERGRILLE10/4	Ø100mm grille
OERGRILLE15/6	Ø150mm grille



WINDOW KIT

SHUTTER

GRILLE



Ducting Accessories - See pages 179-219

Cromo Decorative Axial Fans

To extract air directly outside or through short ducting - base, timer & humid-stat/timer and 12V SELV model options. Wall & ceiling mountable.



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Features:

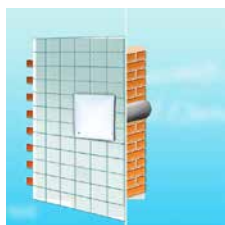
- Low power consumption only 10 Watts
- Quiet & trouble free ball bearing motor from only 35.6dB(A) 3m
- Chrome cover with operating indicator light 'click assembly'
- Integrated internal automatic shutter prevents ingress of foul odours and insects from outside
- Reduced internal wall dimensions for ducts 100mm



Low Sound
Level 36 dB(A) 3m



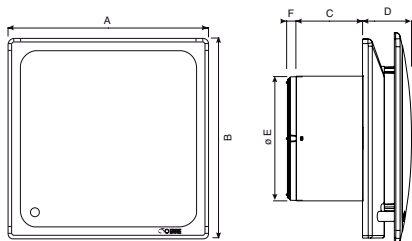
Long Life
Ball-bearing motor



ref	description	hole Ø (mm)	voltage at 50Hz	flow rate (with shutter)	flow rate (no shutter)	max pressure (mm H ₂ O)	max pressure (Pa)	output	dB(A) 3m	weight (kg)
OERCROMO10/4	Cromo 4" extractor fan	100	220-240V	80m ³ /h	90m ³ /h	3	30	10W	35.6	0.5
OERCROMO10/4T	Cromo 4" extractor fan with timer	100	220-240V	80m ³ /h	90m ³ /h	3	30	10W	35.6	0.5
OERCROMO10/4HT	Cromo 4" extractor fan with timer & humidistat	100	220-240V	80m ³ /h	90m ³ /h	3	30	10W	35.6	0.5

Dimensions

ref	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)	F (mm)
OERCROMO10/4	170	170	53	38	Ø100	7
OERCROMO10/4T	170	170	53	38	Ø100	7
OERCROMO10/4HT	170	170	53	38	Ø100	7



Accessories

ref	description
OERSHUTTER10/4	Ø100mm shutter
OERGRILLE10/4	Ø100mm grille



SHUTTER



GRILLE



Ducting Accessories - See pages 179-219

TB In-Line Axial Duct Fans

Axial fan to extract or intake air - ideal to 'boost' extraction/intake in existing systems.

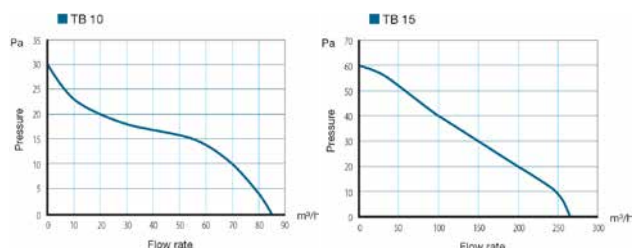
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Features:

- Discreet in-duct installation
- Manufactured from strong durable polypropylene for long life
- Induction motor impedance protected (TB10)
- Thermal protection (TB15)
- Low power consumption from only 15 Watts

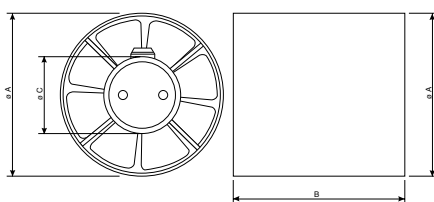
Flow Rate Graph - m³/hr



ref	description	hole Ø (mm)	voltage at 50Hz	flow rate (m³/h)	max pressure (mm H ₂ O)	max pressure (Pa)	output	dB(A) 3m	weight (kg)
OERTB10	TB 4" in-line axial duct fan	100	220-240	85	3.0	30	15W	42	0.5
OERTB15	TB 6" in-line axial duct fan	150	220-240	250	6.1	60	25W	50	0.7

Dimensions

ref	A (mm)	B (mm)	C (mm)
OERTB10	Ø96	Ø97	Ø55
OERTB15	Ø147	Ø113	Ø55



Accessories

ref	description
OERSHUTTER10/4	Ø100mm shutter
OERGRILLE10/4	Ø100mm grille
OERPIR	PIR sensor
OERHT	Humidity sensor



SHUTTER



GRILLE



PIR/HUMIDITY SENSOR



Ducting Accessories - See pages 179-219

Commercial Range

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Air Movement

Compact Centrifugal Fans

Compact fans to extract air directly outside or through long duct - base, timer, humid-stat & sensor model options. Wall or ceiling mounting.

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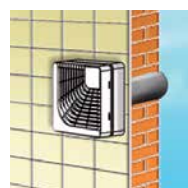
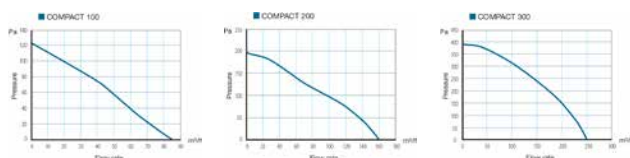


Features:

- Low power consumption from only 28 Watts
- High performance flow rate up to 250m³/hr
- Quiet trouble free motors from only 40dB(A) 3m
- Manufactured from strong ABS material for longer life
- Unique rotating body for awkward installations - outlet hole in the corner
- Elastomer gasket suitable for uneven surfaces for trouble free installation
- Integral back draught shutter prevents insect and odour ingress from outside
- Simple to remove washable filters to protect the motor
- Reduced air outlet - ideal for ducts and curves close to the wall



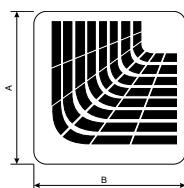
Flow Rate Graph - m³/hr



ref	description	hole Ø (mm)	voltage at 50Hz	flow rate (m ³ /h)	max pressure (Pa)	output	dB(A) 3m	weight (kg)
OERCOMPACT100	Compact fan - 85m ³ /hr	100-120	220-240	85	123	28W	40	1.3
OERCOMPACT100T	Compact fan with timer - 85m ³ /hr	100-120	220-240	85	123	28W	40	1.3
OERCOMPACT100HT	Compact fan, timer and humidistat - 85m ³ /hr	100-120	220-240	85	123	28W	40	1.3
OERCOMPACT100SEN	Compact fan with sensor - 85m ³ /hr	100-120	220-240	85	123	28W	40	1.3
OERCOMPACT200	Compact fan - 156m ³ /hr	100-120	220-240	156	196	76W	45	1.8
OERCOMPACT200T	Compact fan with timer - 156m ³ /hr	100-120	220-240	156	196	76W	45	1.8
OERCOMPACT200HT	Compact fan, timer and humidistat - 156m ³ /hr	100-120	220-240	156	196	76W	45	1.8
OERCOMPACT300	Compact fan - 250m ³ /hr	100-120	220-240	250	392	95W	54	2.3
OERCOMPACT300T	Compact fan with timer - 250m ³ /hr	100-120	220-240	250	392	95W	54	2.3
OERCOMPACT300HT	Compact fan, timer and humidistat - 250m ³ /hr	100-120	220-240	250	392	95W	54	2.3

Dimensions

ref	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)
OERCOMPACT100	210	210	95	20	Ø97
OERCOMPACT200	250	250	111	20	Ø97
OERCOMPACT300	250	250	111	20	Ø97



Accessories

ref	description
OERCOMPOFILT100	Compact 100 Replacement filter (x3)
OERCOMPOFILT200/300	Compact 100/200 Replacement filter (x3)
OERSHUTTER10/4	Ø100mm shutter
OERGRILLE10/4	Ø100mm grille

Ducting Accessories - See pages 179-219



Except Compact 300T & HT models

RoHS
COMPLIANT



Silente Centrifugal Fans

Low noise fans to extract air directly outside or through long duct - base, timer, humid-stat/timer, sensor & 12V model options. Wall and ceiling mounting.

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Features:

- Low power consumption from only 15 Watts
- High performance flow rate up to 75m³/hr
- Quiet trouble free motor only 36dB(A) 3m
- Manufactured from strong ABS material for longer life - quick 'click' installation
- Unique rotating body for awkward installations - outlet hole in the corner
- Elastomer gasket suitable for uneven surfaces for trouble free installation
- Integral back draught shutter prevents ingress of foul odours and insects from outside
- Simple to remove washable filters to protect the motor
- Centred and reduced air outlet - ideal for ducts and curves close to the wall



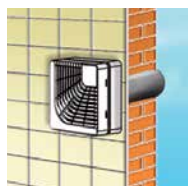
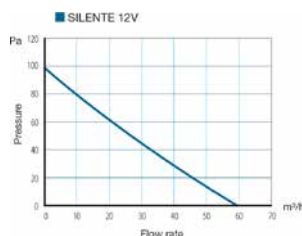
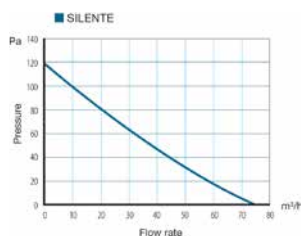
Low Sound
Level 36 dB(A) 3m



Rotating
Body



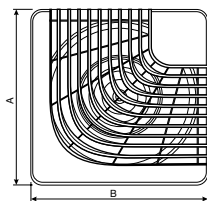
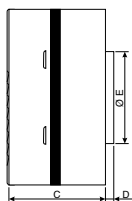
Flow Rate Graph - m³/hr



ref	description	hole Ø (mm)	voltage at 50Hz	flow rate (m ³ /h)	max pressure (mm H ₂ O)	max pressure (Pa)	output	dB(A) 3m	weight (kg)
OERSILENTE	Silente low noise fan	100-150	220-240	75	12	118	19W	36	0.9
OERSILENTET	Silente low noise fan with timer	100-150	220-240	75	12	118	19W	36	0.9
OERSILENTE12V	Silente low noise fan - Low voltage	100-150	12V	60	10	98	15W	36	0.9
OERSILENTE12VT	Silente low noise fan with timer - Low voltage	100-150	12V	60	10	98	15W	36	0.9

Dimensions

ref	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)
ALL MODELS	184	184	101.5	8.5	Ø98



SHUTTER



GRILLE

Accessories

ref	description
OERSILENTFILTER	Replacement filter (x4)
OERSHUTTER10/4	Ø100mm shutter
OERGRILLE10/4	Ø100mm grille
OERGRILLE15/6	Ø150mm grille



(Silente 12V)

Ducting Accessories - See pages 179-219

Diverso Centrifugal Fans

Fans to extract air through ducting or pipes - rotating body with outlet hole in the corner for awkward installations. Base, timer, humidistat/timer model options. Wall and ceiling mounting.

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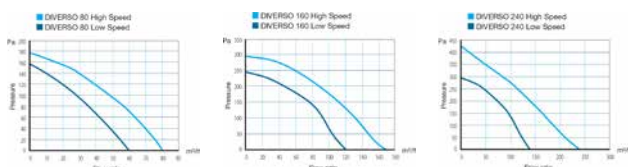


Features:

- Low power consumption from only 28 Watts
- High performance flow rate up to 240m³/hr
- Quiet trouble free ball bearing motor from only 40dB(A) 3m
- Manufactured from strong ABS material for longer life
- Unique rotating body for awkward installations - outlet hole in the corner
- Integral back draught shutter prevents ingress of foul odours and insects from outside
- Simple to remove washable filters to protect the motor
- Front air inlet - 'no dust on the wall' design
- Double adjustable speed, via optional controller RG5



Flow Rate Graph - m³/hr

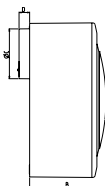
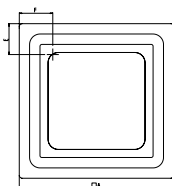


ref	description	hole Ø (mm)	voltage at 50Hz	flow rate (m ³ /h)	max pressure (mm H ₂ O)	max pressure (Pa)	output	dB(A) 3m	weight (kg)
OERD80	DS* fan - 80m ³ /hr	80-100	220-240	80	18	177	28W	40	1.5
OERD80T	DS* fan with timer - 80m ³ /hr	80-100	220-240	80	18	177	28W	40	1.5
OERD80HT	DS* fan, timer & humidistat - 80m ³ /hr	80-100	220-240	80	18	177	28W	40	1.5
OERD160	DS* fan - 160m ³ /hr	100	220-240	160	30	294	50W	42	2.7
OERD160T	DS* fan with timer - 160m ³ /hr	100	220-240	160	30	294	50W	42	2.7
OERD160HT	DS* fan, timer & humidistat - 160m ³ /hr	100	220-240	160	30	294	50W	42	2.7
OERD240	DS* fan - 240m ³ /hr	100	220-240	240	43	422	80W	47	2.9
OERD240T	DS* fan with timer - 240m ³ /hr	100	220-240	240	43	422	80W	47	2.9
OERD240HT	DS* fan, timer & humidistat - 240m ³ /hr	100	220-240	240	43	422	80W	47	2.9

*DS - Double speed

Dimensions

ref	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)	F (mm)
OERDIVERSO80	244	117	75.5	20	55	55
OERDIVERSO160	300	148	96.7	20.5	60	65
OERDIVERSO240	300	148	96.7	20.5	60	65



Accessories

ref	description
OERSHUTTER10/4	Ø100mm shutter
OERGRILLE10/4	Ø100mm grille



Ducting Accessories - See pages 179-219

Smart Axial Fans

Fans to extract air directly outside for medium to large domestic and commercial environments. Manual, automatic, wall, silent and air reversible model options. Wall, window* or ceiling mountable.

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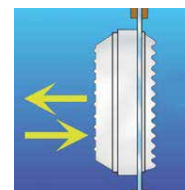
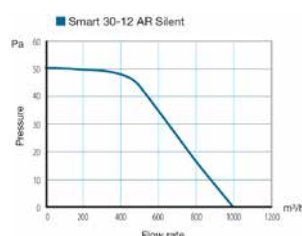
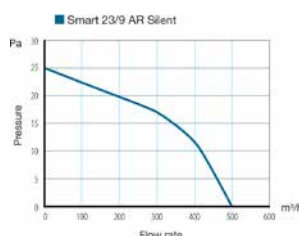
(*with optional window kit)

Features:

- Low power consumption from only 30 Watts
- High flow rate up to TP 1400m³/hr
- Quiet and trouble free ball bearing motor from only 33dB(A) 3m
- Manufactured from strong ABS material for longer life
- Smart gaskets to prevent vibration and water ingress
- Integrated internal automatic shutter prevents ingress of foul odours and insects from outside
- Reversible airflow - extract or intake air, with optional controller



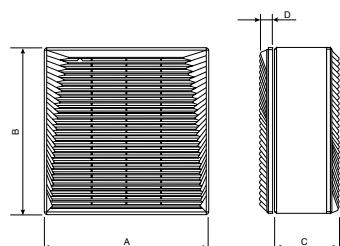
Flow Rate Graph - m³/hr



ref	description	hole Ø (mm)	voltage at 50Hz	flow rate (m ³ /h)	max pressure (mm H ₂ O)	max pressure (Pa)	output	dB(A) 3m	weight (kg)
OERSMA23/9ARSILENT	Window mount low noise fan reversible air flow - 500m ³ /hr	254-262	220-240	500	2.5	25	30W	33	3.7
OERSMA23/9AR	Window mount fan reversible air flow - 750m ³ /hr	254-262	220-240	750	6.6	65	40W	43	3.7
OERSMA30/12ARSILENT	Window mount low noise fan reversible air flow - 1000m ³ /hr	324-337	220-240	1000	5.1	50	45W	39	5.6
OERSMA30/12AR	Window mount fan reversible air flow - 1400m ³ /hr	324-337	220-240	1000	12	118	75W	49	6.6

Dimensions

ref	A (mm)	B (mm)	C (mm)	D (mm)
OERSMA23/9	321	331	141	30
OERSMA30/12	375	385	148	30



Accessories

ref	description
OERWINKITSMA23/9	Smart 29/9 double window kit
OERWINKITSMA30/12	Smart 30/12 double window kit
OERWALLKITSMA23/9	Smart 29/9 wall fixing kit
OERWALLKITSMA30/12	Smart 30/12 wall fixing kit
OERRG5AR	5-speed reversible controller



OERRG5AR CONTROLLER

Ducting Accessories
See pages 179-219



Ventilor Axial Fans

Fans to extract air directly outside - manual and air reversible model options. Window, wall or panel mount.

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Features:

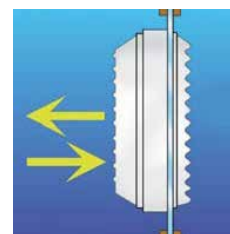
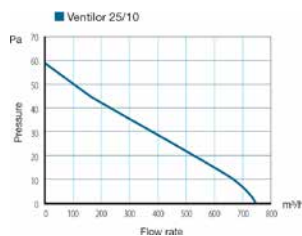
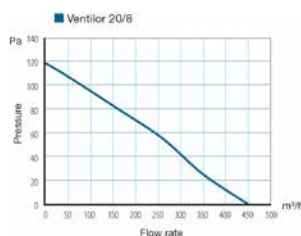
- Low power consumption from only 50 Watts
- High performance flow rate up to 750m³/hr
- Quiet trouble free ball bearing motors from only 54dB(A) 3m
- Manufactured from strong ABS material for longer life
- Clean gloss finish to blend with modern interior design and decoration
- Operating indication light
- Low motion noiseless shutter & rain proof external grille
- 'Locking ring' for quick & simple installation
- Reversible airflow - extract or intake air, with optional controller
- Can be wall, window* or panel mounted
(*with optional window kit)



Ball-bearing motor



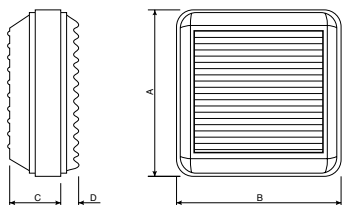
Flow Rate Graph - m³/hr



ref	description	hole Ø (mm)	voltage at 50Hz	flow rate (m ³ /h)	max pressure (mm H ₂ O)	max pressure (Pa)	output	dB(A) 3m	weight (kg)
OERVENTILOR20/28AR	Ventilator 20/9 reversible flow window fan - 450m ³ /hr	225-235	220-240	450	12	118	50W	58	2.4
OERVENTILOR25/10AR	Ventilator 25/10 reversible flow window fan - 750m ³ /hr	225-235	220-240	750	6.0	59	60W	45	5.6

Dimensions

ref	A (mm)	B (mm)	C (mm)	D (mm)
OERVENTILOR20/8AR	280	280	94	30
OERVENTILOR25/10AR	335	335	128	33



Accessories

5 Speed Reversible Controller

ref: **OERRG5AR**



For basic fan models of up to 80 Watts.

- Control motor ON/OFF
- Variable speed
- Airflow reversibility



Ducting Accessories - See pages 179-219

Aspirodor In-Line Centrifugal Fans

Fan to extract air through duct and pipes - unique frame adjustment for in-line or angled mounting.

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Features:

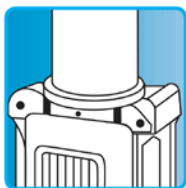
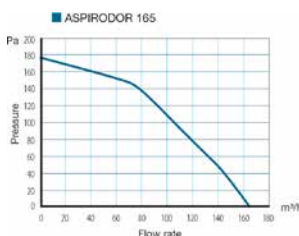
- Manufactured from strong ABS material for longer life
- High flow rate of 165m³/hr
- Dual purpose spigots for 100mm or 120mm duct
- Integral gravity shutter to prevent back flow
- Horizontal or vertical mounting
- Supplied with flange or can be wall mounted
- Fixing bracket with elongated holes for positioning adjustment



In-Line Air
Outlet or 90°



Flow Rate Graph - m³/hr



Dual purpose spigots
suitable for 100mm
or 120mm ducts.



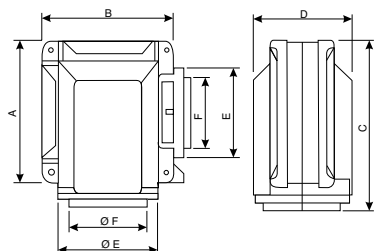
Fixing bracket with
elongated fixing holes
to allow positional
adjustment.



ref	description	hole Ø (mm)	voltage at 50Hz	flow rate (m ³ /h)	max pressure (mm H ₂ O)	max pressure (Pa)	output	dB(A) 3m	weight (kg)
OERASP165	Aspirodor 165 In-Line Centrifugal fan	100-200	200-240	165	18	117	80W	51	1.9
OERASPA	Adapter for above (2 required)	-	-	-	-	-	-	-	-

Dimensions

ref	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)	F (mm)
OERASP165	205	205	263	148	Ø126	Ø102
OERASP165 - Angle	205	205	242	148	Ø126	Ø102



Accessories

ref	description
OERSHUTTER10/4	Ø100mm shutter
OERGRILLE10/4	Ø100mm grille
OERRG5	5-speed controller, non-reversible



SHUTTER



GRILLE



CONTROLLER



RoHS
COMPLIANT

Ducting Accessories - See pages 179-219

Industrial

Axia LD Light Duty Axial Fans

Axial fans for light duty for wall or panel mounting to convey clean air directly outside or through short duct.



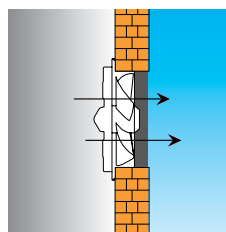
Features:

- Light & Compact fans with limited overall dimensions
- Max temperature of the extracted air: 40°C
- Safety protection grille
- Body and grille in steel protected by an epoxy-based anti-corrosive paint
- Impeller in aluminium
- Equipped with cable connection
- Asynchronous motor single-phase fitted with thermal protector, IP42 rated
- Motor speed can be regulated through the industrial controllers (see accessories)
- In accordance with European Standards:
UNI EN ISO 13857, UNI EN ISO 12499, CEI EN 60204



Environments Application:

- Industries
- Sheds
- Warehouses
- Kitchens
- Refectories
- Sports facilities
- Supermarkets
- Commercial centres
- Cooling power plants

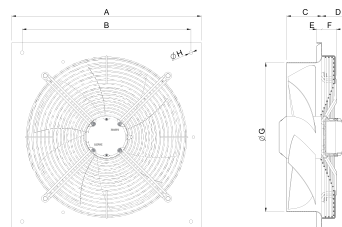


Also suitable for application on machines where a forced ventilation or air suction is required.

ref	description	no. of poles	voltage at 50Hz	flow rate (m³/h)	max pressure (Pa)	output	dB(A) 2m	speed (RPM)	weight (kg)
AXIA LD 20 4M	Single phase light duty axial fan	4	230	550	50	30W	34	1400	2.0
AXIA LD 25 4M	Single phase light duty axial fan	4	230	1100	100	55W	40	1400	3.0
AXIA LD 30 4M	Single phase light duty axial fan	4	230	1400	65	70W	46	1300	4.0
AXIA LD 35 4M	Single phase light duty axial fan	4	230	1700	55	72W	49	1300	5.0

Dimensions

ref	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)	F (mm)	G (mm)	H (mm)
AXIA LD 20 4M	280	265	55	73	8.5	27	208	8.3
AXIA LD 25 4M	340	325	66	83	8.5	27	259	8.3
AXIA LD 30 4M	390	375	75	100	10	47	311	8.3
AXIA LD 35 4M	460	439	85	106	12	53	363	12.3



Ducting Accessories - See pages 179-219

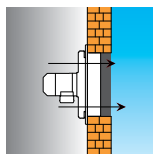
Axia MD Medium Duty Axial Fans

Axial fans for medium duty for wall or panel mounting to convey air directly outside or through short duct.



Features:

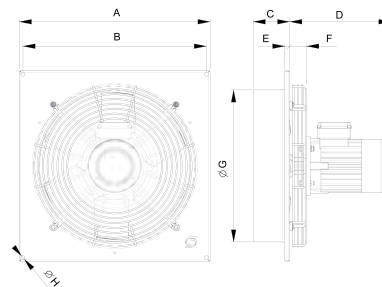
- Max temperature of the extracted air: 60°C
- Safety protection grille
- Body and grille in steel protected by an epoxy-based anti-corrosive paint
- Impeller in nylon material with high performance
- Long life ball bearing motor, IP55 protected, class F insulation
- Motor speed can be regulated through the industrial controllers (see accessories)
- Reversibility: all models
- In accordance with European Standards: UNI EN ISO 13857, UNI EN ISO 12499, CEI EN 60204-1.



ref	description	no. of poles	voltage at 50Hz	flow rate (m³/h)	max pressure (Pa)	output	nominal current 230V	400V	dB(A) 2m	speed (RPM)	weight (kg)
AXIA MD 25 4M	Single phase medium duty	4	230	1200	110	80W	0.6A	-	46	1400	5.0
AXIA MD 30 4M	Single phase medium duty	4	230	1800	135	100W	0.7A	-	50	1400	6.1
AXIA MD 35 4M	Single phase medium duty	4	230	2400	140	125W	0.7A	-	55	1400	7.4
AXIA MD 40 4M	Single phase medium duty	4	230	3500	170	155W	0.9A	-	60	1350	8.5
AXIA MD 50 4M	Single phase medium duty	4	230	6200	180	290W	1.4A	-	65	1400	10.6
AXIA MD 50 6M	Single phase medium duty	6	230	4300	80	200W	1.1A	-	59	960	10.8
AXIA MD 60 4M	Single phase medium duty	4	230	9000	190	360W	1.7A	-	70	1350	14.5
AXIA MD 60 6M	Single phase medium duty	6	230	6500	90	210W	1.2A	-	61	960	14.7
AXIA MD 25 4T	Three phase medium duty	4	230/400	1200	110	80W	0.6A	0.3A	46	1400	5.0
AXIA MD 30 4T	Three phase medium duty	4	230/400	1800	135	100W	0.7A	0.4A	50	1400	6.1
AXIA MD 35 4T	Three phase medium duty	4	230/400	2400	140	125W	0.7A	0.4A	55	1400	7.4
AXIA MD 40 4T	Three phase medium duty	4	230/400	3500	170	155W	0.8A	0.5A	60	1350	8.5
AXIA MD 50 4T	Three phase medium duty	4	230/400	6200	180	290W	1.3A	0.8A	65	1400	10.6
AXIA MD 50 6T	Three phase medium duty	6	230/400	4300	80	200W	1.2A	0.7A	59	960	10.8
AXIA MD 60 4T	Three phase medium duty	4	230/400	9000	190	360W	1.4A	0.8A	70	1350	14.5
AXIA MD 60 6T	Three phase medium duty	6	230/400	6500	90	210W	1.2A	0.7A	61	960	14.7

Dimensions

ref	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)	F (mm)	G (mm)	H (mm)
AXIA MD 25 4	340	325	66	207	8.5	35	259	8.3
AXIA MD 30 4	390	375	75	207	10	35	311	8.3
AXIA MD 35 4	460	439	85	181	12	-	363	12.3
AXIA MD 40 4	510	490	86	181	12	-	413	12.3
AXIA MD 50 4	630	610	101	223	15	-	513	12.3
AXIA MD 50 6	630	610	101	204	15	-	513	12.3
AXIA MD 60 4	815	781	126	223	15	-	638	12.3
AXIA MD 60 6	815	781	126	224	15	-	638	12.3



Ducting Accessories - See pages 179-219

Axia HD Heavy Duty Axial Fans

Axial fans for heavy duty with high air flow capacity for wall or panel mounting to convey air directly outside or through short duct.

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Features:

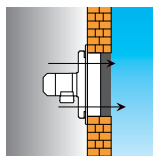
- Max temperature of the extracted air: 60°C
- Safety protection grille
- Body and grille in steel protected by an epoxy-based anti-corrosive paint
- Impeller in nylon material with high performance
- Long life ball bearing motor, IP55 protected, class F insulation
- Motor speed can be regulated through the industrial controllers (see accessories)
- Reversibility: all models
- In accordance with European Standards: UNI EN ISO 13857, UNI EN ISO 12499, CEI EN 60204-1.



Heavy Duty



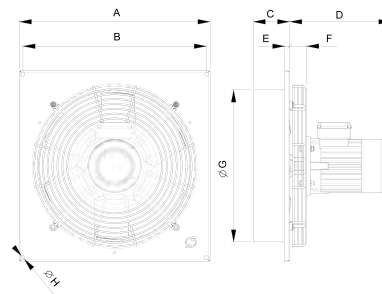
Long Life
Ball-bearing motor



ref	description	no. of poles	voltage at 50Hz	flow rate (m³/h)	max pressure (Pa)	output	nominal current 230V	400V	dB(A) 2m	speed (RPM)	weight (kg)
AXIA HD 25 4M	Single phase heavy duty	4	230	1450	120	90W	0.6A	-	47	1400	5.0
AXIA HD 30 4M	Single phase heavy duty	4	230	2150	145	120W	0.7A	-	52	1400	6.1
AXIA HD 35 4M	Single phase heavy duty	4	230	2900	155	150W	0.9A	-	57	1350	7.4
AXIA HD 40 4M	Single phase heavy duty	4	230	4400	190	280W	1.4A	-	61	1400	9.5
AXIA HD 50 4M	Single phase heavy duty	4	230	7500	195	420W	1.9A	-	68	1300	10.6
AXIA HD 50 6M	Single phase heavy duty	6	230	5200	85	220W	1.2A	-	60	950	10.8
AXIA HD 60 4M	Single phase heavy duty	4	230	12000	200	650W	3A	-	74	1400	16.4
AXIA HD 60 6M	Single phase heavy duty	6	230	8200	95	270W	1.3A	-	65	910	14.7
AXIA HD 25 4T	Three phase heavy duty	4	230/400	1450	120	90W	0.7A	0.3A	47	1400	5.0
AXIA HD 30 4T	Three phase heavy duty	4	230/400	2150	145	120W	0.7A	0.4A	52	1400	6.1
AXIA HD 35 4T	Three phase heavy duty	4	230/400	2900	155	150W	0.8A	0.5A	57	1350	7.4
AXIA HD 40 4T	Three phase heavy duty	4	230/400	4400	190	280W	1.3A	0.7A	61	1400	9.5
AXIA HD 50 4T	Three phase heavy duty	4	230/400	7500	195	420W	1.6A	0.9A	68	1300	10.6
AXIA HD 50 6T	Three phase heavy duty	6	230/400	5200	85	220W	1.2A	0.7A	60	950	10.8
AXIA HD 60 4T	Three phase heavy duty	4	230/400	12000	200	650W	2.2A	1.3A	74	1400	16.4
AXIA HD 60 6T	Three phase heavy duty	6	230/400	8200	95	270W	1.2A	0.7A	65	910	14.7

Dimensions

ref	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)	F (mm)	G (mm)	H (mm)
AXIA HD 25 4	340	325	66	207	8.5	35	259	8.3
AXIA HD 30 4	390	375	75	207	10	35	311	8.3
AXIA HD 35 4	460	439	85	181	12	-	363	12.3
AXIA HD 40 4	510	490	86	204	12	-	413	12.3
AXIA HD 50 4	630	610	101	223	15	-	513	12.3
AXIA HD 50 6	630	610	101	204	15	-	513	12.3
AXIA HD 60 4	815	781	126	223	15	-	638	12.3
AXIA HD 60 6	815	781	126	224	15	-	638	12.3



Ducting Accessories - See pages 179-219

Axia TT Techno Type Axial Fans

High performance axial fans with high tech motor for wall or panel mounting to convey air exhalation directly outside or through short duct.

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Features:

- Compact fans with limited overall dimensions
- Low sound level compared with high performance
- Max temperature of the extracted air: 55°C
- Safety protection grille, body and impeller in steel protected by an epoxy-based anti-corrosive paint;
- Motor impeller with external rotor mounted on ball bearings, statically and dynamically balanced, motor protected IP44 or IP54 (depending by the model) and class F insulation
- Motor speed can be regulated through the industrial controllers (see accessories)
- Reversibility: Three-phase: all models
Single-phase: all models except TT 20 4M & TT 25 4M
- In accordance with European Standards:
UNI EN ISO13857, UNI EN ISO 12499, CEI EN 60204-1.



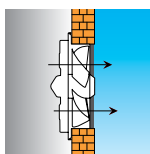
Reduced dimensions



Long life



High tech motor

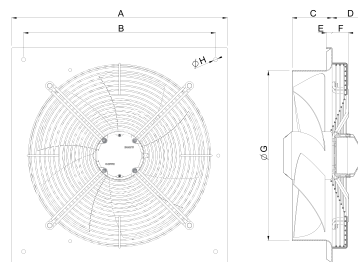


ref	description	no. of poles	voltage at 50Hz	flow rate (m³/h)	max pressure (Pa)	output	nominal current 230V 400V	dB(A) 2m	speed (RPM)	weight (kg)
AXIA TT 20 2M	Single phase techno type	2	230	900	160	65W	0.3A -	59	2650	2.0
AXIA TT 20 4M	Single phase techno type	4	230	500	80	40W	0.3A -	45	1400	2.0
AXIA TT 25 4M	Single phase techno type	4	230	1000	100	70W	0.5A -	52	1400	3.0
AXIA TT 30 4M	Single phase techno type	4	230	1900	125	65W	0.4A -	59	1400	4.0
AXIA TT 35 4M	Single phase techno type	4	230	3400	130	130W	0.7A -	63	1400	5.0
AXIA TT 40 4M	Single phase techno type	4	230	4400	160	180W	0.8A -	63	1400	8.0
AXIA TT 20 4T	Three phase techno type	4	230/400	500	80	20W	0.2A 0.1A	45	1400	2.0
AXIA TT 25 4T	Three phase techno type	4	230/400	1000	100	25W	0.2A 0.1A	52	1400	3.0
AXIA TT 30 4T	Three phase techno type	4	230/400	1900	125	55W	0.3A 0.2A	59	1400	4.0
AXIA TT 35 4T	Three phase techno type	4	230/400	3400	130	130W	0.7A 0.4A	63	1400	5.0
AXIA TT 40 4T	Three phase techno type	4	230/400	4400	160	195W	0.8A 0.5A	63	1400	8.0
AXIA TT 50 4T*	Three phase techno type	4	230/400	9000	170	530W	2.3A 1.3A	74	1400	17.0
AXIA TT 60 6T*	Three phase techno type	6	230/400	11200	80	510W	2.3A 1.3A	65	950	22.0

*IP54 rated model

Dimensions

ref	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)	F (mm)	G (mm)	H (mm)
AXIA TT 20 2/4	280	265	55	64	8.5	-	208	8.3
AXIA TT 25 4	340	325	66	64	8.5	-	259	8.3
AXIA TT 30 4	390	375	75	93	10	57.5	311	8.3
AXIA TT 35 4	460	439	85	67	12	35	363	12.3
AXIA TT 40 4	510	490	86	67	12	35	413	12.3
AXIA TT 50 4	630	610	101	96	15	77	513	12.3
AXIA TT 60 6	815	781	126	83	15	65	638	12.3



Ducting Accessories - See pages 179-219

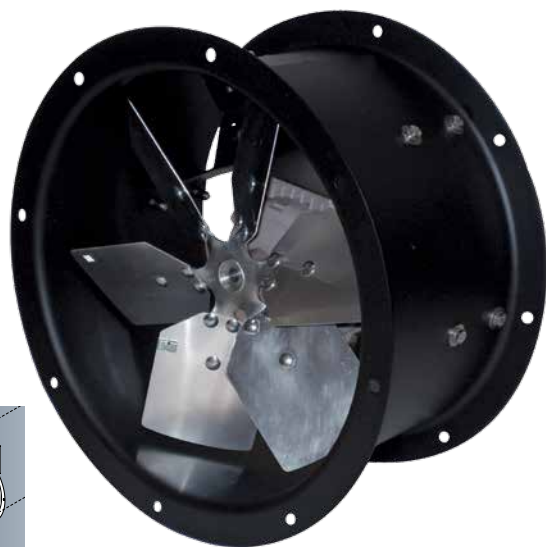
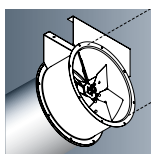
Axia AI CC Axial Fans

Axial duct fans to convey air outside or exhalation coming from ducts. Short case.



Features:

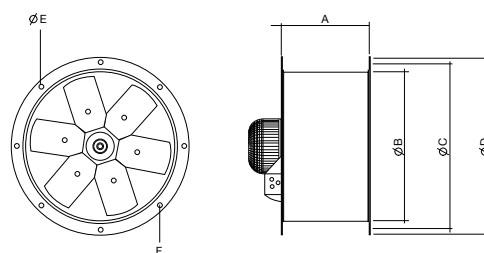
- Double ring flange in a short case
- Case made in steel black painted
- Asynchronous single phase and three phase induction motor
- Degree of motor protection: IP55, Class F
- Max temperature of the extracted air: 50°C
- Working temperature range: -20 to 50°C
- Easy installation
- Balanced impeller, with high performance aluminium blades
- Motor speed can be regulated through the industrial controllers (see accessories)
- Flange in compliance to ISO 13351



ref	description	no. of poles	voltage at 50Hz	flow rate (m³/h)	output	nominal current		dB(A) 2m	speed (RPM)	weight (kg)
						230V	400V			
AI 25 2M CC	Single phase short case fan	2	230	2200	330W	1.54A	-	33	2800	7.8
AI 30 2M CC	Single phase short case fan	2	230	3300	460W	2.0A	-	45	2800	9.8
AI 25 4M CC	Single phase short case fan	4	230	1230	160W	0.9A	-	30	1380	9.3
AI 30 4M CC	Single phase short case fan	4	230	2450	290W	1.3A	-	32	1400	9.1
AI 35 4M CC	Single phase short case fan	4	230	3300	290W	1.3A	-	34	1400	11.2
AI 40 4M CC	Single phase short case fan	4	230	5450	320W	1.6A	-	39	1400	12
AI 45 4M CC	Single phase short case fan	4	230	6500	620W	3.2A	-	43	1420	19.3
AI 50 4M CC	Single phase short case fan	4	230	9600	910W	4.8A	-	43	1420	28.9
AI 25 2T CC	Three phase short case fan	2	230/400	2200	270W	1.09A	0.63A	33	2800	7.7
AI 30 2T CC	Three phase short case fan	2	230/400	3300	370W	1.14A	0.66A	45	2800	10
AI 25 4T CC	Three phase short case fan	4	230/400	1230	110W	0.66A	0.38A	30	180	7
AI 30 4T CC	Three phase short case fan	4	230/400	2450	210W	0.83A	0.48A	32	1400	9
AI 35 4T CC	Three phase short case fan	4	230/400	3300	210W	0.83A	0.48A	34	1400	11.2
AI 40 4T CC	Three phase short case fan	4	230/400	5150	300W	1.3A	0.75A	39	1400	12.3
AI 45 4T CC	Three phase short case fan	4	230/400	6500	550W	2.02A	1.17A	43	1420	18.1
AI 50 4T CC	Three phase short case fan	4	230/400	9600	770W	2.79A	1.61A	43	1420	24.9

Dimensions

ref	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)	F (holes)
AI 25	170	255	275	295	9	8
AI 30	200	317	355	377	10	8
AI 35	200	355	395	421	10	8
AI 40	220	405	450	472	12	8
AI 45	250	451	500	530	12	8
AI 50	280	503	560	590	12	12



Ducting Accessories - See pages 179-219

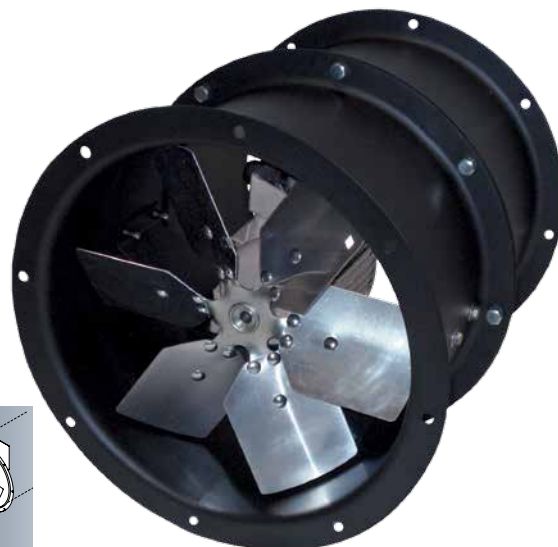
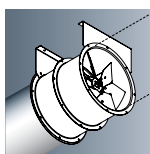
Axia AI CL Axial Fans

Axial duct fans to convey air outside or exhalation coming from ducts. Long case.



Features:

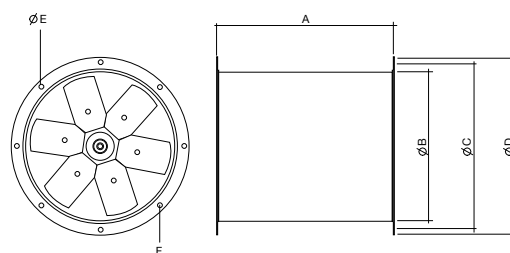
- Double ring flange in a short case
- Case made in steel black painted
- Asynchronous single phase and three phase induction motor
- Degree of motor protection: IP55, Class F
- Max temperature of the extracted air: 50°C
- Working temperature range: -20 to 50°C
- Easy installation
- Balanced impeller, with high performance aluminium blades
- Motor speed can be regulated through the industrial controllers (see accessories)
- Flange in compliance to ISO 13351



ref	description	no. of poles	voltage at 50Hz	flow rate (m³/h)	output	nominal current 230V	400V	dB(A) 2m	speed (RPM)	weight (kg)
AI 25 2M CL	Single phase long case fan	2	230	2200	330W	1.54A	-	33	2800	9.7
AI 30 2M CL	Single phase long case fan	2	230	3300	460W	2.0A	-	45	2800	12
AI 25 4M CL	Single phase long case fan	4	230	1230	160W	0.9A	-	30	1380	9.2
AI 30 4M CL	Single phase long case fan	4	230	2450	290W	1.3A	-	32	1400	11.3
AI 35 4M CL	Single phase long case fan	4	230	3300	290W	1.3A	-	34	1400	13.2
AI 40 4M CL	Single phase long case fan	4	230	5450	320W	1.6A	-	39	1400	14.8
AI 45 4M CL	Single phase long case fan	4	230	6500	620W	3.2A	-	43	1420	25.8
AI 50 4M CL	Single phase long case fan	4	230	9600	910W	4.8A	-	43	1420	34.9
AI 25 2T CL	Three phase long case fan	2	230/400	2200	270W	1.09A	0.63A	33	2800	9.6
AI 30 2T CL	Three phase long case fan	2	230/400	3300	370W	1.14A	0.66A	45	2800	12.2
AI 25 4T CL	Three phase long case fan	4	230/400	1230	110W	0.66A	0.38A	30	180	8.9
AI 30 4T CL	Three phase long case fan	4	230/400	2450	210W	0.83A	0.48A	32	1400	11.2
AI 35 4T CL	Three phase long case fan	4	230/400	3300	210W	0.83A	0.48A	34	1400	13.2
AI 40 4T CL	Three phase long case fan	4	230/400	5150	300W	1.3A	0.75A	39	1400	15.1
AI 45 4T CL	Three phase long case fan	4	230/400	6500	550W	2.02A	1.17A	43	1420	24.6
AI 50 4T CL	Three phase long case fan	4	230/400	9600	770W	2.79A	1.61A	43	1420	30.9

Dimensions

ref	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)	F (holes)
AI 25	340	255	275	295	9	8
AI 30	350	317	355	377	10	8
AI 35	350	355	395	421	10	8
AI 40	410	405	450	472	12	8
AI 45	475	451	500	530	12	8
AI 50	500	503	560	590	12	12



Ducting Accessories - See pages 179-219

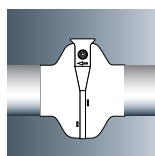
Turbo Centrifugal Fans

Range of centrifugal high performance fans to convey in ducts air or fumes with a maximum temperature of 55°C.



Features:

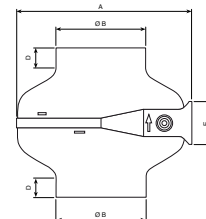
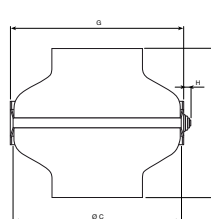
- Complete range of inlet and outlet diameters to allow the installations in most standard sizes of commercial ducts
- All models mount ball bearings motor with thermoprotector
- Zinc plated steel body, high resistance motor support with incorporated airflow fins
- Mounting bracket integrated with the product that allows installation in any position. Holes provided in the bracket allow mounting with cords
- Installation and electric connection particularly fast and easy
- Electric boxes with IP54 protection
- Product protection IPX4
- Motor speed can be regulated through the industrial controllers (see accessories)
- In accordance with EN 60335-2-80



ref	description	duct Ø (mm)	voltage at 50Hz	flow rate (m³/h)	max pressure (mm H₂O)	max pressure (Pa)	output	current at 230V	dB(A) 3m	speed (RPM)	weight (kg)
TURBO 100 ES	Centrifugal fan - Energy saving	100	220-240	210	30	294	55W	0.25A	45	2000	3.0
TURBO 100	Centrifugal fan - Standard model	100	220-240	270	30	294	75W	0.35A	53	2600	3.0
TURBO 125 ES	Centrifugal fan - Energy saving	125	220-240	290	29	285	55W	0.25A	45	1850	3.0
TURBO 125	Centrifugal fan - Standard model	125	220-240	400	29	285	75W	0.38A	52	2530	3.0
TURBO 150 ES	Centrifugal fan - Energy saving	150	220-240	370	27	265	55W	0.25A	42	1850	3.0
TURBO 150	Centrifugal fan - Standard model	150	220-240	500	29	285	75W	0.38A	52	2530	3.0
TURBO 160 ES	Centrifugal fan - Energy saving	160	220-240	540	28	275	75W	0.38A	52	2500	3.0
TURBO 160	Centrifugal fan - Standard model	160	220-240	710	37	363	90W	0.43A	56	2500	4.5
TURBO 200 ES	Centrifugal fan - Energy saving	200	220-240	730	30	294	90W	0.42A	56	2550	4.5
TURBO 200	Centrifugal fan - Standard model	200	220-240	1050	55	540	180W	0.78A	58	2550	5.5
TURBO 250	Centrifugal fan - Standard model	250	220-240	1200	56	549	180W	0.78A	59	2590	5.5
TURBO 315 ES	Centrifugal fan - Energy saving	315	220-240	1250	50	490	180W	0.78A	59	2600	5.5
TURBO 315	Centrifugal fan - Standard model	315	220-240	1400	65	638	280W	1.24A	59	2500	6.0

Dimensions

ref	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)	F (mm)	G (mm)	H (mm)
TURBO 100 (ES)	287	98	275	17	70	242	282	12
TURBO 125 (ES)	287	123	275	24	70	242	282	12
TURBO 150 (ES)	287	148	275	32	70	242	282	12
TURBO 160 (ES)	287	158	345	24	84	272	345	12
TURBO 200 (ES)	354	198	345	34	84	272	345	12
TURBO 250 (ES)	354	248	345	48	84	272	345	12
TURBO 315 (ES)	354	313	345	48	84	272	345	12



Ducting Accessories - See pages 179-219

Turbo Plast Centrifugal Fans

Flame resistant, polymeric centrifugal fans to convey in ducts air or fumes with a maximum temperature of 55°C.



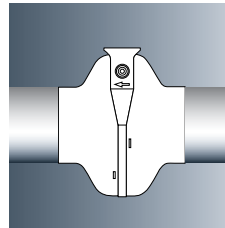
Features:

- Suitable for domestic, commercial and industrial applications
- Frame completely made in V0 polymeric materials to guarantee the highest level of flame resistance
- Motor support in high resistance GRP with incorporated air fins. Integrated mounting bracket allows installation in any position
- Ball bearings motor with thermoprotector
- Product protection IPX4
- Electrical box with IP54 protection
- Electrical box with incorporated safety grilles both on inlet and outlet openings
- In case of duct installations, the grill can easily be removed, increasing product performance
- Motor speed can be regulated through the industrial controllers (see accessories)
- In accordance with EN 60335-2-80



Environments Application:

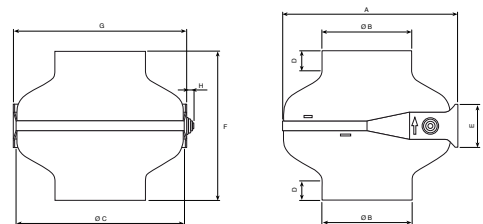
- Bathroom
- Kitchens
- Offices
- Factories
- Shops
- Gymnasiums
- Bars & Restaurants



ref	duct Ø (mm)	voltage at 50Hz	max flow rate (m³/h)		max pressure (mm H₂O) (Pa)		output	current at 230V	dB(A) 3m	speed (RPM)	weight (kg)
TURBOPLAST 100	100	220-240	250	220	31	304	75W	0.3	48	2680	2.6
TURBOPLAST 125	125	220-240	370	310	30	294	75W	0.33	48	2560	2.6
TURBOPLAST 150	150	220-240	460	400	29	285	75W	0.39	49	2450	2.6
TURBOPLAST 160	160	220-240	500	450	29	285	75W	0.3	50	2450	2.6

Dimensions

ref	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)	F (mm)	G (mm)	H (mm)
TURBOPLAST 100	287	98	275	17	70	242	282	12
TURBOPLAST 125	287	123	275	24	70	242	282	12
TURBOPLAST 150	287	148	275	32	70	242	282	12
TURBOPLAST 160	287	158	345	24	84	272	345	12



Ducting Accessories - See pages 179-219

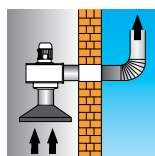
CB Centrifugal Fans

Basic centrifugal duct fans to extract air and fumes through medium/long sized ducts.



Features:

- Also suitable for application on machines where a forced ventilation or air suction is required
- Steel plated body protected by an epoxy- based anti-corrosive paint
- Aluminium centrifugal impeller statically and dynamically balanced
- Can overcome high pressure losses
- The standard product is supplied with impeller housing position CCW 270 (different positions on request)
- Maximum temperature of exhausted air 50°C
- Motor speed can be regulated through the industrial controllers (see accessories)
- In accordance with the essential requirements of 2006/42/EC Directive concerning machines and European Standards UNI EN ISO 13857, UNI EN ISO 12499, CEI EN 60204-1

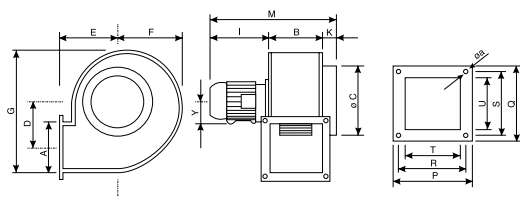


ref	description	no. of poles	voltage at 50Hz	flow rate (m³/h)	max pressure (mm H ₂ O)	(Pa)	output	nominal current 230V	400V	dB(A) 2m	speed (RPM)	weight (kg)
CB 210 2M	Single phase (IP22)	2	230	210	22	216	67W	0.29A	-	64	2800	2.5
CB 220 2M	Single phase (IP22)	2	230	380	35	343	115W	0.49A	-	68	2500	3.5
CB 230 2M*	Single phase (IP55)	2	230	1000	69	677	590W	2.83A	-	76	2750	8.5
CB 240 2M*	Single phase (IP55)	2	230	1450	90	883	850W	4.3A	-	83	2750	9.0
CB 210 2T	Three phase (IP22)	2	230/400	210	22	216	67W	0.26A	0.15A	64	2800	2.5
CB 220 2T	Three phase (IP22)	2	230/400	380	35	343	110W	0.36A	0.21A	68	2500	3.0
CB 230 2T*	Three phase (IP55)	2	230/400	1000	69	677	400W	1.4A	0.8A	76	2750	7.0
CB 240 2T*	Three phase (IP55)	2	230/400	1450	90	883	800W	2.73A	1.57A	83	2750	9.0

*Supplied with ball bearings motor

Dimensions (mm)

ref	A	B	C	D	E	F	G	Y	K	I	M	P	Q	R	S	T	U	a
CB 210	60	62	68	50	86	72	145	-	-	110	172	100	100	85	85	58	58	6
CB 220	71	77	90	60	104	80	171	-	-	121	198	114	110	95	90	69	63	7
CB 230	96	94	180	91	127	122	247	63	38	191	327	135	135	114	114	88	88	8
CB 240	112	112	200	117	146	150	300	71	40	213	363	150	150	125	125	105	105	8



Ducting Accessories - See pages 179-219

CS Silenced Centrifugal Fans

Centrifugal silenced duct fans to extract large air volumes and non dusty fumes.

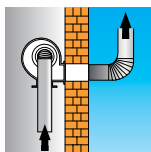


Features:

- Also suitable for application on machines where a forced ventilation or air suction is required
- Steel plated body protected by an epoxy- based anti-corrosive paint
- Aluminium centrifugal impeller statically and dynamically balanced
- Particularly quiet in relation to the remarkable performances
- 4 poles class F IP55 induction motor
- The standard product is supplied with impeller housing position CCW 270 (different positions on request)
- Motor speed can be regulated through the industrial controllers (see accessories)
- In accordance with the essential requirements of 2006/42/EC Directive concerning machines and European Standards UNI EN ISO 13857, UNI EN ISO 12499, CEI EN 60204-1



Ball-bearing motor

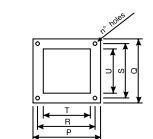
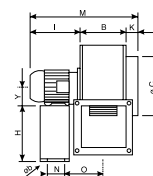
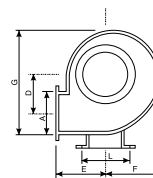


ref	description	no. of poles	voltage at 50Hz	flow rate (m³/h)	max pressure (mm H ₂ O) (Pa)		output	nominal current 230V 400V		dB(A) 2m	speed (RPM)	weight (kg)
CS 310 4M	Single phase	4	230	500	16	157	200W	1A	-	64	1400	8.0
CS 320 4M	Single phase	4	230	720	21	206	250W	1.7A	-	67	1400	7.5
CS 310 4T	Three phase	4	230/400	500	16	157	160W	1A	0.59A	64	1400	7.0
CS 320 4T	Three phase	4	230/400	720	21	206	250W	1.7A	1A	67	1400	7.0
CS 330 4T	Three phase	4	230/400	1500	38	373	500W	1.9A	1.1A	70	1400	13.0
CS 340 4T	Three phase	4	230/400	1900	47	461	1250W	3.8A	2.2A	73	1400	18.0
CS 350 4T	Three phase	4	230/400	2900	50	490	1900W	5.3A	3.1A	76	1400	22.0
CS 360 4T	Three phase	4	230/400	4100	60	589	2600W	7.6A	4.4A	80	1400	25.0
CS 370 4T	Three phase	4	230/400	5600	73	716	3200W	10A	5.8A	84	1400	38.0
CS 380 4T	Three phase	4	230/400	9100	105	1030	4800W	18.37A	10.6A	88	1430	75.0

Note: Models CS 350, 360, 370 and 380 are mounted on a rigid base support to make installation easier.

Dimensions (mm)

ref	A	B	C	D	E	F	G	H	Y	K	I	L	M	N	O	P	Q	R	S	T	U	z	a	b
CS 310 4M	96	94	180	91	127	122	247	-	63	42	183	-	319	-	-	135	135	114	114	88	88	4	8.2	-
CS 310 4T	96	94	180	91	127	122	247	-	63	42	183	-	319	-	-	135	135	114	114	88	88	4	8.2	-
CS 320 4M	112	112	200	117	146	150	300	-	63	45	183	-	340	-	-	152	152	126	126	100	100	4	8.2	-
CS 320 4T	112	112	200	117	146	150	300	-	63	45	183	-	340	-	-	152	152	126	126	100	100	4	8.2	-
CS 330 4T	141	141	250	139	147	188	371	-	71	40	204	-	385	-	-	191	191	165	165	134	134	4	8.2	-
CS 340 4T	181	164	250	162	189	222	446	-	80	45	224	-	433	-	-	225	235	195	205	161	161	4	8.2	-
CS 350 4T	202	194	315	192	210	260	517	244	80	50	224	232	468	120	146	255	255	225	225	191	191	4	8.2	11
CS 360 4T	202	194	315	192	210	260	517	244	90	50	252	232	496	120	152	255	255	225	225	191	191	4	8.2	11
CS 370 4T	253	221	355	210	230	250	571	278	100	49	305	266	575	150	176	284	305	254	275	213	244	4	10.2	11
CS 380 4T	299	249	400	280	300	370	744	350	112	60	324	325	633	170	185	310	360	280	330	241	295	8	9	11



Ducting Accessories - See pages 179-219

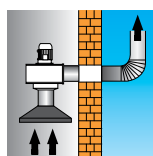
CAI Stainless Steel Centrifugal Fans

Centrifugal duct fans to extract air and fumes with chemical agents or for salt ambients.



Features:

- Body and impeller in AISI 304 stainless steel
- Also suitable for application on machines where a forced ventilation or air suction is required
- Particularly suitable for applications where a high degree of hygiene (food industries) is necessary
- Stainless steel centrifugal impeller statically and dynamically balanced
- Can overcome high pressure losses
- The standard product is supplied with impeller housing position CCW 270. (Can be installed in different rotation positions on request)
- Maximum temperature of exhausted air 50°C
- Motor speed can be regulated through the industrial controllers (see accessories)
- In accordance with the essential requirements of 2006/42/EC Directive concerning machines and European Standards UNI EN ISO 13857, UNI EN ISO 12499, CEI EN 60204-1

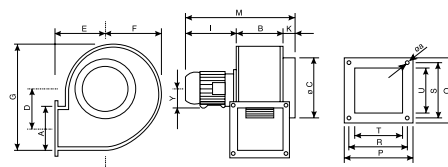


ref	description	no. of poles	voltage at 50Hz	flow rate (m³/h)	max pressure (mm H₂O) (Pa)		output	nominal current 230V 400V		dB(A) 2m	speed (RPM)	weight (kg)
CAI 510 2M	Single phase	2	230	210	22	216	67W	0.29A	-	64	2800	2.5
CAI 520 2M	Single phase	2	230	380	35	343	115W	0.49A	-	68	2500	3.5
CAI 530 2M*	Single phase	2	230	1000	69	677	590W	2.83A	-	76	2750	8.5
CAI 540 2M*	Single phase	2	230	1450	90	884	850W	1.3A	-	83	2750	9.0
CAI 510 2T	Three phase	2	230/400	210	22	216	67W	0.26A	0.15A	64	2800	2.5
CAI 520 2T	Three phase	2	230/400	380	35	343	110W	0.36A	0.21A	68	2500	3.0
CAI 530 2T*	Three phase	2	230/400	1000	69	677	400W	1.4A	0.8A	76	2750	7.0
CAI 540 2T*	Three phase	2	230/400	1450	90	883	800W	2.73A	1.57A	83	2750	9.0

*Supplied with ball bearings motor (IP55 protected)

Dimensions (mm)

ref	A	B	C	D	E	F	G	Y	K	I	M	P	Q	R	S	T	U	a
CAI 510 2M	60	62	68	50	86	72	145	-	-	110	172	100	100	85	85	58	58	6
CAI 510 2T	60	62	68	50	86	72	145	-	-	110	172	100	100	85	85	58	58	6
CAI 520 2M	71	77	90	60	104	80	171	-	-	121	198	114	110	95	90	69	63	7
CAI 520 2T	71	77	90	60	104	80	171	-	-	121	198	114	110	95	90	69	63	7
CAI 530 2M	96	94	180	91	127	122	247	63	38	191	327	135	135	114	114	88	88	8
CAI 530 2T	96	94	180	91	127	122	247	63	38	191	327	135	135	114	114	88	88	8
CAI 540 2M	112	112	200	117	146	150	300	71	40	213	363	150	150	125	125	105	105	8
CAI 540 2T	112	112	200	117	146	150	300	71	40	213	363	150	150	125	125	105	105	8



Ducting Accessories - See pages 179-219

CAA Acid Proof Centrifugal Fans

Acid proof centrifugal duct fans at angle to extract air or non dusty fumes



Features:

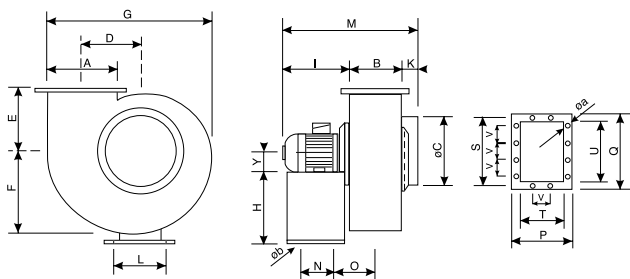
- Also suitable for application on machines where a forced ventilation or air suction is required
- Body and impeller in polypropylene with nylon hub graphite treated
- 2 poles or 4 poles induction motors with ball bearings and IP55 protection
- The standard product is supplied with impeller housing position CCW 360. Can be installed in different rotation positions on request (except model 610)
- Motor speed can be regulated through the industrial controllers (see accessories)
- In accordance with the essential requirements of 2006/42/EC Directive concerning machines and European Standards UNI EN ISO 13857, UNI EN ISO 12499, CEI EN 60204-1



ref	description	no. of poles	voltage at 50Hz	flow rate (m³/h)	max pressure (mm H ₂ O) (Pa)		output	nominal current 230V 400V		dB(A) 2m	speed (RPM)	weight (kg)
CAA 610 2T	Three phase	2	230/400	550	49	481	220W	0.83A	0.48A	65	2800	6.0
CAA 620 2T	Three phase	2	230/400	2000	103	1010	1200W	3.45A	2A	68	2770	13.0
CAA 620 4T	Three phase	4	230/400	1200	26	255	270W	1.18A	0.68A	55	1400	13.0
CAA 630 4T	Three phase	4	230/400	3000	43	422	800W	2.6A	1.5A	64	1400	19.0
CAA 640 4T	Three phase	4	230/400	4300	61	598	1300W	4.3A	2.5A	65	1400	31.0
CAA 650 4T	Three phase	4	230/400	6500	90	883	3300W	10.4A	6A	70	1400	64.0

Dimensions (mm)

ref	A	B	C	D	E	F	G	H	Y	K	I	L	M	N	O	P	Q	R	S	T	U	V	a	b	holes
CAA 610	90	90	125	103	109	133	270	130	55	28	179	175	297	130	80	135	135	110	110	85	85	-	7.5	10	4
CAA 620	165	135	200	148	148	201	397	200	63	48	220	215	403	170	95	180	210	165	194	130	160	85	7	10	6+2
CAA 630	205	165	250	185	180	240	503	250	80	45	245	255	455	175	125	228	266	200	240	160	200	80	7	10	8+2
CAA 640	245	205	315	222	218	293	590	310	90	65	282	234	552	175	155	265	306	241	282	195	240	100	9	12	6+4
CAA 650	290	235	355	259	268	356	699	320	100	60	315	285	610	200	170	305	356	275	326	225	280	100	9	12	8+4



Ducting Accessories - See pages 179-219

AC Angle Centrifugal Fans

Centrifugal duct fans at angle to extract air or non dusty fumes.

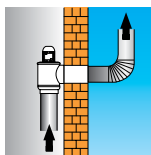


Features:

- Also suitable for application on machines where a forced ventilation or air suction is required
- Steel plated body protected by an epoxy- based anti-corrosive paint
- Zinc plated steel centrifugal impeller statically and dynamically balanced
- Long life product due to motors on ball bearing
- External motor allows to extract or intake air with high temperature. Maximum temperature of exhausted air 70°C
- Motor speed can be regulated through the industrial controllers (see accessories)
- In accordance with the essential requirements of 2006/42/EC Directive concerning machines and European Standards UNI EN ISO 13857, UNI EN ISO 12499, CEI EN 60204-1



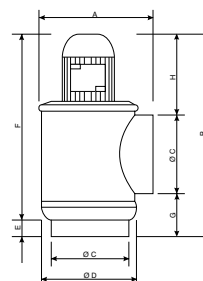
Ball-bearing motor



ref	description	no. of poles	voltage at 50Hz	flow rate (m³/h)	max pressure (mm H ₂ O) (Pa)		output	nominal current 230V 400V		dB(A) 2m	speed (RPM)	weight (kg)
AC 150 2M	Single phase (IP44)	2	230	360	14	137	140W	0.55A	-	62	2700	3.5
AC 200 2M	Single phase (IP44)	2	230	650	31	303	350W	1.5A	-	70	2700	8.0
AC 150 2T	Three phase (IP55)	2	230/400	360	14	137	140W	0.54A	0.31A	62	2700	3.5
AC 200 2T	Three phase (IP55)	2	230/400	650	31	303	350W	1.68A	0.95A	70	2700	6.5

Dimensions

ref	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)	F (mm)	G (mm)	H (mm)
AC 150 2M	230	340	148	185	25	315	65	150
AC 150 2T	230	340	148	185	25	315	65	150
AC 200 2M	330	520	197	265	55	465	113	210
AC 200 2T	330	520	197	265	55	465	113	210



Ducting Accessories - See pages 179-219

CB Ex-ATEX Explosion Proof Fans

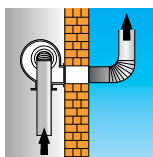
Explosion Proof Certified Centrifugal fans to extract air and fumes through medium/long sized ducts compliance to ATEX Directive 84/9/EEC.



These products are a safe choice for many applications in commercial and industrial environment where the risk of explosion is high and where the surrounding atmosphere contains gas, vapours or steam highly inflammable.

Features:

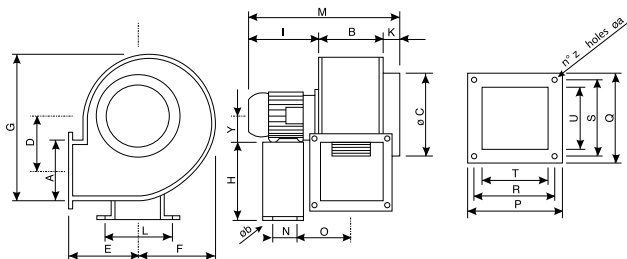
- CESA approval n°03 ATEX 250
- Fan group II, cat. 2 for gases, construction safety c, max surface temp. T3 (200°C)
- Classified for zones 1 and 2
- Body built in metal sheet epoxy painted. Aluminium centrifugal impeller statically and dynamically balanced
- Models are available both in mono phase and in three phase versions
- Motor IP55 protected
- Working temperature: -20 +40 °C
- The standard product is supplied with impeller housing position CCW 270. Can be installed in different rotation positions on request
- Reference norms: EN 13463-1: 2003, EN 14986: 2007



ref	phase motor	marking	no. of poles	voltage at 50Hz	flow rate (m³/h)	max pressure (mm H₂O)	(Pa)	output	nominal current 230V	400V	dB(A) 2m	speed (RPM)	weight (kg)
CB 230 2M EX-ATEX	Single	II 2G c T3	2	230	1000	69	677	450W	2.5A	-	76	2750	13.0
CB 240 2M EX-ATEX	Single	II 2G c T3	2	230	1450	90	883	850W	3.8A	-	83	2750	19.0
CB 230 2T EX-ATEX	Three	II 2G c T6	2	230/400	1000	69	677	400W	1.4A	0.8A	76	2750	13.0
CB 240 2T EX-ATEX	Three	II 2G c T6	2	230/400	1450	90	883	800W	2.3A	1.3A	83	2800	19.0

Dimensions (mm)

ref	A	B	C	D	E	F	G	H	Y	K	I	L	M	N	O	P	Q	R	S	T	U	z	a	b
CB 230 2M EX-ATEX	96	94	180	91	127	112	247	-	63	42	235	-	371	-	-	135	135	114	114	88	88	4	8.2	-
CB 230 2T EX-ATEX	96	94	180	91	127	112	247	-	63	42	235	-	371	-	-	135	135	114	114	88	88	4	8.2	-
CB 240 2M EX-ATEX	112	112	200	117	146	150	300	-	71	45	265	-	422	-	-	152	152	126	126	100	100	4	8.2	-
CB 240 2T EX-ATEX	112	112	200	117	146	150	300	-	71	45	265	-	422	-	-	152	152	126	126	100	100	4	8.2	-



Ducting Accessories - See pages 179-219

CS Ex-ATEX Silenced Explosion Proof Fans

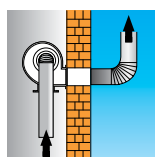
Explosion Proof Certified Centrifugal fans to extract air and fumes through medium/long sized ducts compliance to ATEX Directive 84/9/EEC.



These products are a safe choice for many applications in commercial and industrial environment where the risk of explosion is high and where the surrounding atmosphere contains gas, vapours or steam highly inflammable.

Features:

- CESA approval n°03 ATEX 250
- Fan group II, cat. 2 for gases, construction safety c, max surface temp. T3 (200°C)
- Classified for zones 1 and 2
- Body built in metal sheet epoxy painted. Aluminium centrifugal impeller statically and dynamically balanced
- Motor IP55 protected
- Working temperature: -20 +40 °C
- Models CS 350, CS 360, CS 370 and CS 380 are supplied with rigid base support for easier installation
- The standard product is supplied with impeller housing position CCW 270. Can be installed in different rotation positions on request
- Reference norms: EN 13463-1: 2003, EN 14986: 2007



ref	phase motor	marking	no. of poles	voltage at 50Hz	flow rate (m³/h)	max pressure (mm H₂O)	(Pa)	output	nominal current 230V	400V	dB(A) 2m	speed (RPM)	weight (kg)
CS 310 4M EX-ATEX	Single	II 2G c T3	4	230	500	16	157	200W	1A	-	64	1400	13.0
CS 320 4M EX-ATEX	Single	II 2G c T3	4	230	720	21	206	250W	1.5A	-	67	1400	14.0
CS 310 4T EX-ATEX	Three	II 2G c T6	4	230/400	500	16	157	200W	1A	0.59A	64	1400	13.0
CS 320 4T EX-ATEX	Three	II 2G c T6	4	230/400	720	21	206	250W	1.75A	1A	64	1400	14.0
CS 330 4T EX-ATEX	Three	II 2G c T6	4	230/400	1500	38	373	400W	1.9A	1.1A	70	1400	21.0
CS 340 4T EX-ATEX	Three	II 2G c T5	4	230/400	1900	47	461	1000W	3.5A	2A	73	1400	31.0
CS 350 4T EX-ATEX	Three	II 2G c T5	4	230/400	2900	50	490	1400W	4A	2.31A	76	1400	37.0
CS 360 4T EX-ATEX	Three	II 2G c T5	4	230/400	4100	60	589	1900W	5.7A	3.3A	80	1400	44.0
CS 370 4T EX-ATEX	Three	II 2G c T5	4	230/400	5600	73	716	2500W	8.7A	5A	84	1400	67.0
CS 380 4T EX-ATEX	Three	II 2G c T5	4	230/400	9100	105	1030	4500W	15.6A	9A	88	1400	91.0

Dimensions (mm)

ref	A	B	C	D	E	F	G	H	Y	K	I	L	M	N	O	P	Q	R	S	T	U	z	a	b
CS 310 RANGE	96	96	180	91	127	122	247	-	63	42	235	-	371	-	-	135	135	114	114	88	88	4	8.2	-
CS 320 RANGE	112	112	200	117	146	150	230	-	63	45	235	-	392	-	-	152	152	126	126	100	100	4	8.2	-
CS 330 4T EX-ATEX	141	141	250	139	147	188	371	-	71	40	265	-	446	-	-	191	191	165	165	134	134	4	8.2	-
CS 340 4T EX-ATEX	181	164	250	162	178	222	446	-	80	45	276	-	485	-	-	225	235	195	205	161	170	4	8.2	-
CS 350 4T EX-ATEX	202	194	315	192	210	260	517	244	80	50	276	232	520	120	146	255	255	255	255	191	191	4	8.2	11
CS 360 4T EX-ATEX	202	194	315	192	210	260	517	244	90	50	310	232	554	120	152	255	255	255	255	191	191	4	8.2	11
CS 370 4T EX-ATEX	249	221	355	210	230	250	571	278	100	49	380	266	650	150	176	284	305	254	275	213	244	4	10.2	11
CS 380 4T EX-ATEX	299	249	400	280	300	370	744	350	112	60	400	325	709	170	185	310	360	280	330	241	295	8	9	11

See previous page for schematic diagram



Ducting Accessories - See pages 179-219

EB Ex-ATEX Explosion Proof Fans

Explosion Proof Certified Centrifugal fans to extract air and fumes through medium/long sized ducts compliance to ATEX Directive 84/9/EEC.



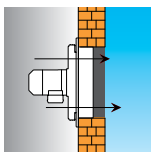
These products are a safe choice for many applications in commercial and industrial environment where the risk of explosion is high and where the surrounding atmosphere contains gas, vapours or steam highly inflammable.



For potentially explosive atmospheres
Ex-ATEX
94/9 EEC

Features:

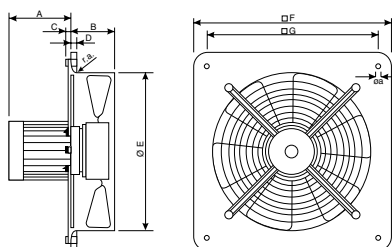
- CESA approval n°03 ATEX 251
- Fan group II, cat. 2 for gases, construction safety c, max surface temp. T4 (135°C)
- Classified for zones 1 and 2
- Body built in metal sheet epoxy painted. Impeller statically and dynamically balanced in high resistance polymeric material, V0 self extinguishing material with high electrical conductivity properties
- Motor EEXd-II B - T4, IP55 protected
- Working temperature: -20 +40 °C
- Reversible (all models)
- Reference norms: EN 13463-1: 2003, EN 14986: 2007



ref	phase motor	marking	no. of poles	voltage at 50Hz	flow rate (m³/h)	max pressure (mm H₂O)	(Pa)	output	nominal current 230V	400V	dB(A) 2m	speed (RPM)	weight (kg)
EB 25 4M EX-ATEX	Single	II 2G c T4	4	230	900	10	98	120W	0.7	-	55	1460	10.0
EB 30 4M EX-ATEX	Single	II 2G c T4	4	230	1500	8.3	81	140W	0.75	-	59	1400	10.0
EB 35 4M EX-ATEX	Single	II 2G c T4	4	230	2250	10	98	160W	0.8	-	62	1350	11.0
EB 40 4M EX-ATEX	Single	II 2G c T4	4	230	2900	9	88	180W	0.85	-	65	1290	12.0
EB 50 4M EX-ATEX	Single	II 2G c T4	4	230	4500	14	137	210W	1	-	70	1200	14.0
EB 25 4T EX-ATEX	Three	II 2G c T4	4	230/400	900	10	98	100W	0.67	0.39	55	1460	9.0
EB 30 4T EX-ATEX	Three	II 2G c T4	4	230/400	1500	8.3	81	125W	0.69	0.40	59	1430	9.0
EB 35 4T EX-ATEX	Three	II 2G c T4	4	230/400	2250	10	98	150W	0.72	0.42	63	1400	10.0
EB 40 4T EX-ATEX	Three	II 2G c T4	4	230/400	2900	9	88	180W	0.74	0.43	66	1350	11.0
EB 50 4T EX-ATEX	Three	II 2G c T4	4	230/400	4500	14	137	230W	0.78	0.45	72	1270	13.0

Dimensions (mm)

ref	A	B	C	D	E	F	G	ra	Øa
EB 25 RANGE	190	66	9	8	260	340	325	15	8.3
EB 30 RANGE	190	75	9	10	312	390	275	15	8.3
EB 35 RANGE	190	85	10	12	365	460	439	15	12.3
EB 40 RANGE	190	85	10	12	415	510	490	15	12.3
EB 50 RANGE	190	101	10	15	515	630	610	15	12.3



Ducting Accessories - See pages 179-219

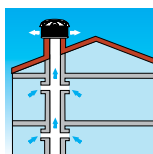
TXC Compact Roof Fans

Compact centrifugal fan to extract air or fumes either directly to exterior, or via ducting. Ideal for small/medium sized structures.



Features:

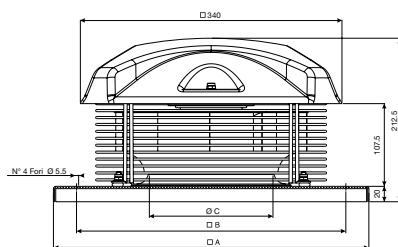
- Centrifugal fan to extract air or fumes either directly to exterior, or via ducting
- Suitable for domestic and industrial applications, such as block of flats, houses, offices, restaurants, gyms, swimming pools
- Thermally protected external rotor motor with ball bearing
- Product protection IPX5
- Maximum temperature of exhausted air 70°C (model TXC 402 only - max temperature of 60°C)
- Fast and easy installation
- Suitable to be installed on standard chimney flues 30 x 30cm or 40 x 40cm
- Low energy consumption and reduced noise level
- Zinc plated steel body complete with plastic cover
- Safety protection grille
- Self-cleaning backward curved blade impeller
- Can be speed regulated via controllers RGM 2 or RGE (both available as accessories)
- In accordance with the essential requirements of the current European Directives and with European Standard EN 60335-2-80



ref	description	voltage at 50Hz	flow rate (m³/h)	max pressure (mm H₂O)	max pressure (Pa)	output	nominal current	dB(A) 3m	speed (RPM)	weight (kg)
TXC 301	Single phase centrifugal roof fan	230	500	31	302	50W	0.25A	52	2400	4.6
TXC 302	Single phase centrifugal roof fan	230	780	39	383	65W	0.33A	53	2600	4.6
TXC 401	Single phase centrifugal roof fan	230	1000	39	383	65W	0.33A	52	2600	5.5
TXC 402	Single phase centrifugal roof fan	230	1550	66	650	145W	0.7A	57	2600	6.3

Dimensions

ref	A (mm)	B (mm)	C (mm)
TXC 301	310	260	140
TXC 302	310	260	140
TXC 401	410	350	161
TXC 402	410	350	161



Ducting Accessories - See pages 179-219

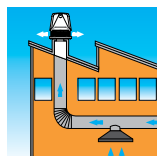
TXP Horizontal Outlet Roof Fans

Powerful centrifugal fan, combining both higher extraction and air pressure ratio, to overcome performance loss caused by long duct runs.



Features:

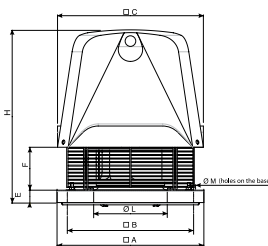
- Centrifugal roof fans to extract air or fumes directly or via ducting
- Medium - high flow rates with pressure to overcome pressure losses due to duct resistance
- Induction motor mounted on ball bearing, IP55 protected, class F insulation, fitted with cooling impeller
- Zinc-plated steel body and impeller, cover made of plastic material
- Impeller statically and dynamically balanced
- Safety protection grille
- Self-cleaning backward curved blade impeller
- Motor speed can be regulated through the industrial controllers (see accessories)
- In accordance with the essential requirements of 2006/42/EC Directive concerning machines and European Standards UNI EN ISO 13857, UNI EN ISO 12499, CEI EN 60204-1



ref	description	no. of poles	voltage at 50Hz	flow rate (m³/h)	max pressure (mm H₂O) (Pa)		output	nominal current 230V 400V		dB(A) 2m	speed (RPM)	weight (kg)
TXP 3M	Single phase - Horizontal outlet	4	230	1200	20	196	120W	0.81A	-	60	1400	14
TXP 6M	Single phase - Horizontal outlet	4	230	1800	30	294	180W	1.05A	-	66	1400	18
TXP 7M	Single phase - Horizontal outlet	4	230	3100	40	392	250W	1.40A	-	69	1400	25
TXP 8M	Single phase - Horizontal outlet	4	230	4200	45	441	370W	1.90A	-	70	1400	30
TXP 10M	Single phase - Horizontal outlet	4	230	5700	56	549	750W	3.40A	-	75	1400	30
TXP 3T	Three phase - Horizontal outlet	4	230/400	1200	20	196	120W	0.81A	0.47A	60	1400	40
TXP 6T	Three phase - Horizontal outlet	4	230/400	1800	30	294	180W	1.05A	0.60A	66	1400	14
TXP 7T	Three phase - Horizontal outlet	4	230/400	3100	40	392	250W	1.42A	0.82A	69	1400	18
TXP 8T	Three phase - Horizontal outlet	4	230/400	4200	45	441	370W	1.90A	1.10A	70	1400	25
TXP 10T	Three phase - Horizontal outlet	4	230/400	5700	56	549	750W	3.4A	1.80A	75	1400	30
TXP 12T	Three phase - Horizontal outlet	4	230/400	7100	39	382	750W	3.81A	2.20A	71	900	40
TXP 14T	Three phase - Horizontal outlet	4	230/400	10800	48	471	1100W	5.37A	3.10A	75	900	57
TXP 15T	Three phase - Horizontal outlet	4	230/400	14200	57	559	2200W	9.35A	5.40A	80	900	76
TXP 18T	Three phase - Horizontal outlet	4	230/400	18800	65	637	3000W	11.95A	6.90A	84	900	110

Dimensions (mm)

ref	A	B	C	E	F	H	L	M
TXP 3 RANGE	400	350	412	40	135	493	200	11.2
TXP 6 RANGE	400	350	412	40	135	493	250	11.2
TXP 7 RANGE	560	460	560	40	240	608	350	11.2
TXP 8 RANGE	560	460	560	40	240	608	350	11.2
TXP 10 RANGE	710	610	740	40	253	638	400	11.2
TXP 12 RANGE	900	800	950	40	305	910	500	11.2
TXP 14 RANGE	900	800	950	45	300	910	550	11.2
TXP 15 RANGE	900	800	950	45	300	910	600	11.2
TXP 18 RANGE	900	800	950	45	300	910	600	11.2



Ducting Accessories - See pages 179-219

TXP 400° 2h Fire Rated Roof Fans

For safety: Projected to be used for two hours in case of fire. Suitable to be installed where is required to extract air or fumes in case of fire.



Features:

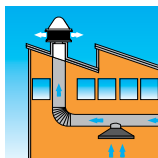
- In accordance with European Standard: EN 12101-3
- Centrifugal roof fans to extract air or fumes directly or from ducts
- Medium – high flow rates with pressure to overcome pressure losses due to duct resistance
- Suitable to be installed where is required to extract air or fumes in case of fire, eg industries, sports facilities, supermarket and commercial centres, cinemas, offices
- Induction motor mounted on ball bearing, IP55 protected, class F insulation, fitted with cooling impeller
- Max temperature of the extracted air in continuous: 60°
- Max temperature of the extracted air in case of fire: 400°C only for 2 hours
- Very easy installation
- Zinc plated steel body, protection cover in ABS material
- Safety protection grille
- Self cleaning backward centrifugal impeller



2 hours in the fire at 400°C



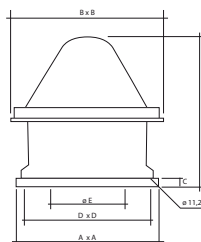
Ball-bearing motor



ref	description	no. of poles	voltage at 50Hz	flow rate (m³/h)	max pressure (mm H ₂ O)	(Pa)	output	nominal current 230V	400V	dB(A) 2m	speed (RPM)	weight (kg)
TXP 6M 4P 400 2H	Single phase	4	230	1800	30	294	180	1.05A	-	66	1400	20
TXP 7M 4P 400 2H	Single phase	4	230	3100	40	392	250	1.4A	-	69	1400	28
TXP 8M 4P 400 2H	Single phase	4	230	4200	45	441	370	1.9A	-	70	1400	34
TXP 10M 4P 400 2H	Single phase	4	230	5700	56	549	750	3.4A	-	75	1400	45
TXP 6T 4P 400 2H	Three phase	4	230/400	1800	30	294	180	1.05A	0.6A	66	1400	20
TXP 7T 4P 400 2H	Three phase	4	230/400	3100	40	392	250	1.42A	0.82A	69	1400	28
TXP 8T 4P 400 2H	Three phase	4	230/400	4200	45	441	370	1.9A	1.1A	70	1400	34
TXP 10T 4P 400 2H	Three phase	4	230/400	5700	56	549	750	3.4A	1.8A	75	1400	45
TXP 12T 6P 400 2H	Three phase	6	230/400	7100	39	382	750	3.81A	2.2A	71	900	63
TXP 14T 6P 400 2H	Three phase	6	230/400	10800	48	471	1100	5.37A	3.1A	75	900	85
TXP 15T 6P 400 2H	Three phase	6	230/400	14200	57	559	2200	9.35A	5.4A	80	900	105
TXP 18T 6P 400 2H	Three phase	6	230/400	18800	65	637	3000	11.95A	6.9A	84	900	120

Dimensions (mm)

ref	A	B	C	D	F	H
TXP 6 RANGE	400	470	40	350	250	520
TXP 7 RANGE	560	595	40	460	300	493
TXP 8 RANGE	560	595	40	460	350	608
TXP 10 RANGE	710	800	40	610	400	608
TXP 12 RANGE	900	1000	40	800	500	638
TXP 14 RANGE	900	1000	45	800	550	910
TXP 15 RANGE	900	1000	45	800	600	910
TXP 18 RANGE	900	1000	45	800	600	910



Ducting Accessories - See pages 179-219

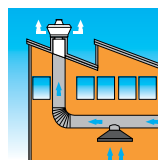
TXV Vertical Outlet Roof Fans

The power with vertical outlet. The vertical extracted air avoids to stain the lateral walls or components.



Features:

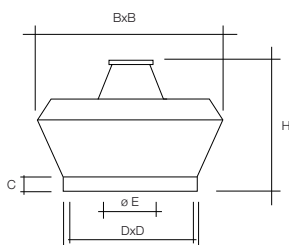
- Extracts air or fumes from ducts or from the environment
- Medium – high flow rates with pressure to overcome pressure losses due to duct resistance
- Suitable for industrial and domestic environment: refectory kitchens and restaurants, sports facilities, commercial centres, industries, deposits, offices, toilets, apartments
- Induction motor mounted on ball bearing, protected IP55, class F insulation, fitted with cooling impeller
- Max temperature of the extracted air: 60°
- Working temperature range – 20° + 60°
- Very easy installation
- Case in galvanized sheet steel, Safety protection grille
- Self cleaning backward centrifugal impeller
- Some models can be regulated through the RGM or RGT series (optional)
- In accordance with the essential requirements of 2006/42/EC Directive concerning machines and European Standards UNI EN ISO 13857, UNI EN ISO 12499, CEI EN 60204-1



ref	description	no. of poles	voltage at 50Hz	flow rate (m³/h)	max pressure (mm H ₂ O)	(Pa)	output	nominal current 230V	400V	dB(A) 2m	speed (RPM)	weight (kg)
TXV 3M	Single phase	4	230	1200	20	196	120W	0.81A	-	60	1400	20
TXV 6M	Single phase	4	230	1800	30	294	180W	1.05A	-	66	1400	26
TXV 7M	Single phase	4	230	3100	40	392	250W	1.4A	-	69	1400	35
TXV 8M	Single phase	4	230	4200	45	441	370W	1.9A	-	70	1400	42
TXV 10M	Single phase	4	230	5700	56	549	750W	3.4A	-	75	1400	55
TXV 3T	Three phase	4	230/400	1200	20	196	120W	0.81A	0.47A	60	1400	20
TXV 6T	Three phase	4	230/400	1800	30	294	180W	1.05A	0.6A	66	1400	26
TXV 7T	Three phase	4	230/400	3100	40	392	250W	1.42A	0.82A	69	1400	35
TXV 8T	Three phase	4	230/400	4200	45	441	370W	1.9A	1.1A	70	1400	42
TXV 10T	Three phase	4	230/400	5700	56	549	750W	3.4A	1.8A	75	1400	55
TXV 12T	Three phase	6	230/400	7100	39	382	750W	3.81A	2.2A	71	900	77
TXV 14T	Three phase	6	230/400	10800	48	471	1100W	5.37A	3.1A	75	900	100
TXV 15T	Three phase	6	230/400	14200	57	559	2200W	9.35A	5.4A	80	900	122
TXV 18T	Three phase	6	230/400	18800	65	637	3000W	11.95A	6.9A	84	900	138

Dimensions (mm)

ref	A	B	C	D	E	H
TXV 3 RANGE	400	590	40	350	200	480
TXV 6 RANGE	400	590	40	350	250	500
TXV 7 RANGE	560	780	40	460	300	630
TXV 8 RANGE	560	780	40	460	350	630
TXV 10 RANGE	710	930	40	610	400	700
TXV 12 RANGE	900	1210	40	800	500	780
TXV 14 RANGE	900	1210	45	800	550	820
TXV 15 RANGE	900	1210	45	800	600	860
TXV 18 RANGE	900	1210	45	800	600	900



Ducting Accessories - See pages 179-219

TXV 400° 2h Fire Rated Roof Fans

For safety: Projected to be used for two hours in case of fire. Suitable to be installed where is required to extract air or fumes in case of fire.

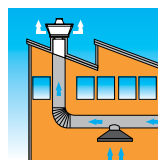


Features:

- In accordance with European Standard: EN 12101-3
- Extract air or fumes from ducts or from the environment;
- Suitable to be installed where is required to extract air or fumes in case of fire, eg industries, sports facilities, supermarket and commercial centres, cinemas, offices
- Medium – high flow rates with pressure to overcome pressure losses due to duct resistance
- Induction motor mounted on ball bearing, IP55 protected, class F insulation, fitted with cooling impeller
- Max temperature of the extracted air in continuous: 60°
- Max temperature of the extracted air in case of fire: 400°C only for 2 hours
- Working temperature range: – 20° + 60°
- Very easy installation
- Zinc plated steel body, air conveyor in ABS material
- Safety protection grille
- Self cleaning backward centrifugal impeller



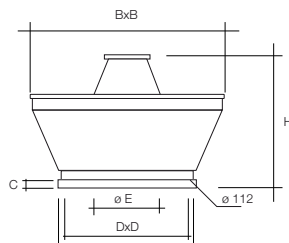
400°C
2h
2 hours in
the fire at
400°C



ref	description	no. of poles	voltage at 50Hz	flow rate (m³/h)	max pressure (mm H ₂ O)	(Pa)	output	nominal current 230V	400V	dB(A) 2m	speed (RPM)	weight (kg)
TXV 6M 4P 400 2H	Single phase	4	230	1800	30	294	180	1.05	-	66	1400	25
TXV 7M 4P 400 2H	Single phase	4	230	3100	40	392	250	1.4	-	69	1400	33
TXV 8M 4P 400 2H	Single phase	4	230	4200	45	441	370	1.9	-	70	1400	40
TXV 10M 4P 400 2H	Single phase	4	230	4700	56	549	750	3.4	-	75	1400	52
TXV 6T 4P 400 2H	Three phase	4	230/400	1800	30	294	180	1.05	0.6	66	1400	25
TXV 7T 4P 400 2H	Three phase	4	230/400	3100	40	392	250	1.42	0.82	69	1400	33
TXV 8T 4P 400 2H	Three phase	4	230/400	4200	45	441	370	1.9	1.1	70	1400	40
TXV 10T 4P 400 2H	Three phase	4	230/400	5700	56	549	750	3.4	1.8	75	1400	52
TXV 12T 6P 400 2H	Three phase	6	230/400	7100	39	382	750	3.81	2.2	71	900	73
TXV 14T 6P 400 2H	Three phase	6	230/400	10800	48	471	1100	5.37	3.1	75	900	95
TXV 15T 6P 400 2H	Three phase	6	230/400	14200	57	559	2200	9.35	5.4	80	900	116
TXV 18T 6P 400 2H	Three phase	6	230/400	18800	65	637	3000	11.95	6.9	84	900	132

Dimensions (mm)

ref	A	B	C	D	E	H
TXV 6 RANGE	400	595	40	350	250	500
TXV 7 RANGE	560	800	40	460	300	640
TXV 8 RANGE	560	800	40	460	350	640
TXV 10 RANGE	710	1000	40	610	400	700
TXV 12 RANGE	900	1260	40	800	500	780
TXV 14 RANGE	900	1260	45	800	550	820
TXV 15 RANGE	900	1260	45	800	600	870
TXV 18 RANGE	900	1260	45	800	600	940



Ducting Accessories - See pages 179-219

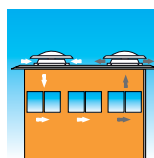
TXA Axial Roof Fans

Axial roof fan. Extracts air or fumes directly or from short ducts.



Features:

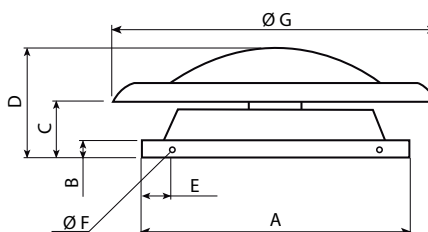
- High airflow rate with low pressures
- Suitable mainly for installation in industrial environment where there is a big volume of air request without ducts eg: warehouses, sheds , parking, greenhouses and breeding, sports facilities, supermarkets and commercial centres, industries
- Asynchronous motor IP55 Protected, class F insulation
- Max temperature of the extracted air: 50°
- Working temperature range – 20° + 50°
- Very easy installation
- Case in galvanized steel sheet , cover protection in fibreglass RAL 7038 coloured, Equipped with eyebolts for lifting
- Safety protection grille
- Possibility of double speed through switching star/delta (three-phase models only)
- Balanced impeller with aluminium blade, high performance
- In accordance with the essential requirements of 2006/42/EC Directive concerning machines and European Standards UNI EN ISO 13857, UNI EN ISO 12499, CEI EN 60204-1



ref	description	no. of poles	voltage at 50Hz	flow rate (m³/h)	output (W)	current at 400V	dB(A) 2m	speed (RPM)	weight (kg)
TXA 40 4 T	Three phase axial roof fan	4	400	2900/3850	110/220	0.22/0.59A	49/56	900/1400	17
TXA 50 4 T	Three phase axial roof fan	4	400	6250/7750	370/540	0.61/1.14A	59/62	900/1400	25
TXA 63 4 T	Three phase axial roof fan	4	400	11900/13700	710/930	0.56/1.95A	63/67	900/1400	34
TXA 71 6 T	Three phase axial roof fan	6	400	10100/13200	520/850	0.85/1.73A	57/63	700/900	47
TXA 80 6 T	Three phase axial roof fan	6	400	20300/23700	1300/1700	2.16/4.17A	67/61	700/900	62
TXA 100 6 T	Three phase axial roof fan	6	400	26100/35500	1850/3800	3.8/8.2A	66/73	700/900	90

Dimensions (mm)

ref	A	B	C	D	E	F	G
TXA 40 4 T	600	45	138	300	100	12	710
TXA 50 4 T	760	50	160	345	100	12	875
TXA 63 4 T	890	55	185	362	100	12	1120
TXA 71 6 T	950	50	155	409	100	12	1300
TXA 80 6 T	1230	50	313	518	185	12	1300
TXA 100 6 T	1400	50	335	600	170	12	1600



Ducting Accessories - See pages 179-219

TURBOCAMINO Centrifugal Chimney Fan

For high temperature (max 200° C). Designed specifically for fireplaces, wood burning ovens and industrial cooker hoods.

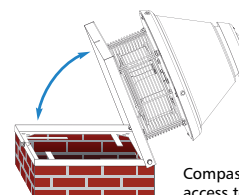
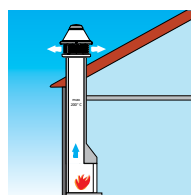


Features:

- Centrifugal chimney fan to extract hot dusty fumes
- Suitable for use on fireplaces, oven waste or industrial hoods
- Designed to extract smoke at temperature up to 200° C
- For all chimneys with insufficient up draught
- Induction motor mounted on ball bearing, IP55 protected, class F insulation, fitted with cooling impeller
- Aluminium cover protects the product from atmospheric conditions
- Zinc plated steel impeller statically and dynamically balanced
- Safety protection grille
- Self-cleaning backward curved blade impeller
- Electronic regulator RGE included
- Industrial regulator available as accessory
- A new tilting opening system provides for easier access to the chimney
- In accordance with the essential requirements of 2006/42/EC Directive concerning machines and European Standards UNI EN ISO 13857, UNI EN ISO 12499, CEI EN 60204-1



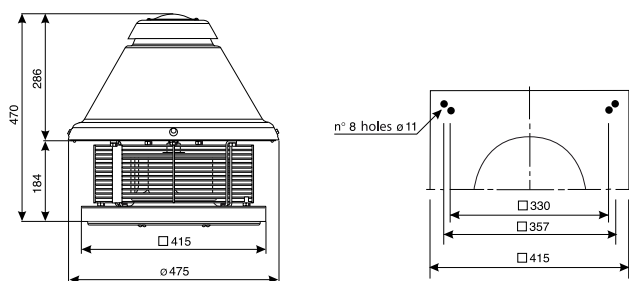
Ball-bearing motor



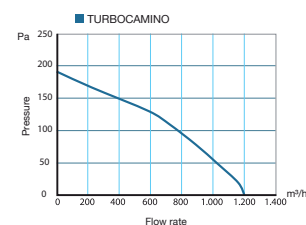
Compass opening for easy access to the chimney.

ref	description	no. of poles	voltage at 50Hz	flow rate (m³/h)	max pressure (mm H₂O)	max pressure (Pa)	output	current at 230V	dB(A) 2m	speed (RPM)	weight (kg)
TURBOCAMINO	Centrifugal chimney fan	4	230	1200	19.5	191	110W	0.6A	52.5	1400	15

Dimensions (mm)



Flow Rate Graph - m³/hr



Ducting Accessories - See pages 179-219

Energy Efficient Range

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Air Movement

Energy Efficient

DES Air Destratifier

Air Destratifier suitable to be installed in environment where the height of the ceiling is over 4 meters.



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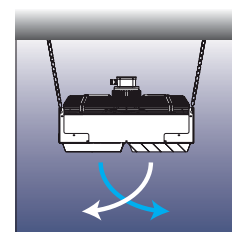
The O.erre range of de-stratification fans can be used in stores, warehouses, factories and workshops as well as many other industrial applications.

These units provide effective and efficient ventilation to large open areas where heat is lost near the ceiling. The units re-circulate the hotter air down to the working level to help eliminate large heating bills during the winter months.



Features:

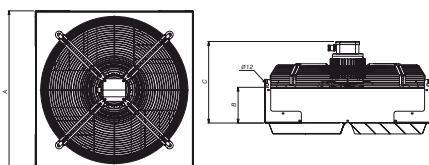
- Composed by single phase axial fan, equipped with an aluminium balanced impeller, mounted on painted steel body, supplied with specific rings to be fixed in suspension. The lower part is equipped with adjustable diffusing fins in order to regulate the air flow according to specific requirements
- The thermostat on the product allows it to work automatically in according to the air temperature
- Asynchronous single phase class F induction motor, IP55 protected
- Motor speed can be regulated through the industrial controllers (see accessories)



ref	description	no. of poles	voltage at 50Hz	flow rate (m³/h)	output	nominal current	dB(A) 2m	max. mounting height	speed (RPM)	weight (kg)
AXIA DES 400 6M	Single phase	6	230	3500	55W	0.6A	58	12m	900	14
AXIA DES 600 6M	Single phase	6	230	7300	210W	1.5A	59	18m	900	24
AXIA DES 710 6M	Single phase	6	230	11300	750W	4A	60	24m	900	36

Dimensions

ref	A (mm)	B (mm)	C (mm)
AXIA DES 450 6M	550	150	315
AXIA DES 600 6M	700	150	345
AXIA DES 710 6M	800	200	385



How to chose the correct product

The correct choice of the model must be made in accordance of the height of the premises and of the height of the destratifier installation, therefore the greater the distance between the ceiling and the floor, greater must be the size of the destratifier.

A simple rule to better choice how many destratifiers must be installed it consists to calculate 5 air changes per hour as per the following formula:

$$\text{Number of diffusers} = \frac{\text{m}^3 \text{ environment} \times 5}{\text{Diffuser capacity (m}^3/\text{h)}}$$



Ducting Accessories - See pages 179-219

Tempero Heat Recovery System

How to Avoid Heat Loss

Over the last years there is more attention to constructions in compliance with the highest standard of energy recovery. According to that in modern constructions and in renovations, by using more efficient materials and technologies, the environments where we live become more and more sealed. The ventilation of the environments becomes a top priority.

The Importance of Correct Ventilation

In so sealed environments, the indoor air is becoming easily more moist and polluted than the outside air due to several factors, such as, the main ones, the products used for cleaning, cooking food remnants, moisture and exhalations produced in toilet facilities or laundry or the substances generated by our body that contribute to the creation of an extremely unhealthy and allergic condition, in extreme cases and in particular premises also accompanied by the appearance of mould. The ventilation would make the premises more liveable and healthy.

How to Ventilate

Ventilation can be effected through openings on the building structure like windows, chimneys or roof vents; in the old buildings through the infiltration of the fixtures.

The most common practice to ventilate the environments is opening the windows - this activity involves important contraindications such as:

- Significant dispersion of thermal energy
- Ingress of too much hot air in summer or too much cold in winter
- Ingress of pollutants (the air brings pollen, dust, etc) that persist in the environment
- Possible increase in noise level in the environment

Mechanical Ventilation with Heat Recovery

The modern alternative for a correct ventilation without opening the windows. Consists in a ventilation equipment which extracts the polluted air from a room and pushes the external fresh air inside. The air exchange is continuous and regulated, taking under control parameters such as the temperature, the relative humidity and the concentrations of pollutants, without opening the windows, and thus reducing the energy consumption significantly.

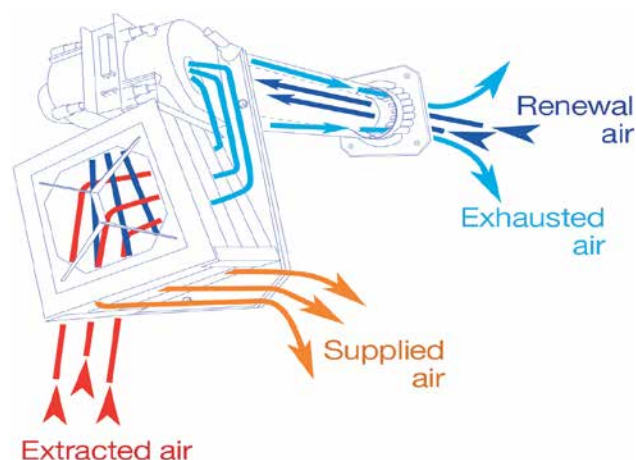
The equipment of mechanical ventilation may be also equipped with heat recovery with high efficiencies that minimise the loss of thermal energy.

Single Room System

The equipment of decentralized mechanical ventilation with heat recovery, differently from the centralized systems, is a solution for single room application.

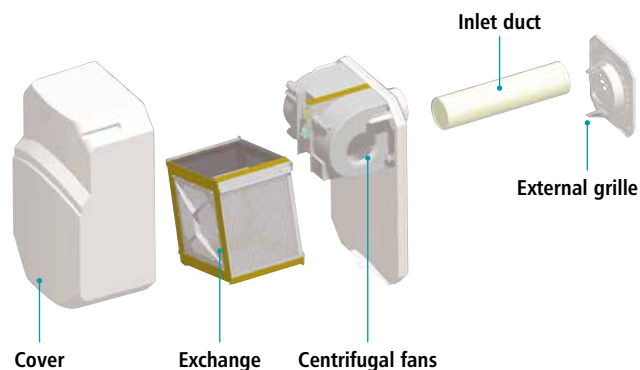
Particularly suitable when ventilation in inhabited apartments or under renovation is required, where the installation of ducting cannot exist or where construction operations are particularly expensive, for this reason the choice to install a device in each single room.

Warm air in winter season and cooler in summer season with efficiency up to 70%



Tempero is a twin centrifugal fan: one extracts air directly outside, the other one takes the external air and pushes it into the room. During this process the incoming and outgoing air flows (completely separate) cross the heat exchanger made of PVC alveolar overlapped and welded plates the extracted air flow transfers thermal energy to the incoming fresh air reducing energy requirements for heating (or air conditioning) the room.

Tempero works by transferring thermal energy from the extracted air to the incoming fresh air, firstly through the surface of the internal ducting pipe which is fitted inside the existing ducting and then through the cross flow plates in the heat recovery cores located inside the unit.



Tempero Heat Recovery System

Wall or panel mounting, the Tempero is a twin fan adjustable speed heat recovery system in one single unit which is suitable for single room application. Tempero is designed to be a simple retro-fit product to any 4" fan using the supplied unique ducting system to save up to 75% in energy.



Features:

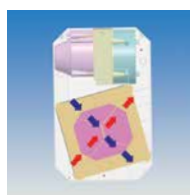
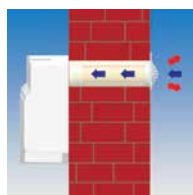
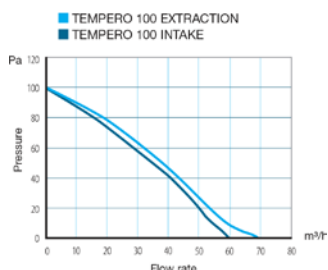
- Quiet & trouble free long life ball bearing motors only 34dB(A) 3m
- Low power consumption for a twin fan system at only 40 Watts
- Manufactured from strong ABS material for longer life
- Strong PVC welded cross flow plates for long life
- Polyurethane filters for long life
- Complete with operating indication light
- Wall or panel mount
- Adjustable speed (optional controller accessory available)



Ball-bearing motor



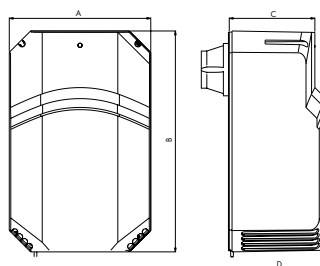
Flow Rate Graph - m³/hr



ref	description	hole Ø (mm)	voltage at 50Hz	flow rate IN (m³/h)	flow rate OUT (m³/h)	max pressure (Pa)	output	dB(A) 3m	weight (kg)
OERTEMPERO100	Tempero heat recovery system	100-120	220-240	60	70	100	40W	34	3.3
OERTEMPERO100T	Tempero heat recovery system with timer	100-120	220-240	60	70	100	40W	34	3.3
OERTEMPERO100PH	Tempero heat recovery system with pre-heater	100-120	220-240	60	70	100	400W	34	3.3

Dimensions

ref	A (mm)	B (mm)	C (mm)	D (mm)
OERTEMPERO100	257	400	155	179
OERTEMPERO100T	257	400	155	179
OERTEMPERO100PH	257	400	155	179



Tempero 100 & 100T

RoHS COMPLIANT



Ducting Accessories - See pages 179-219

Tempero ECO IL Centralised Heat Exchange

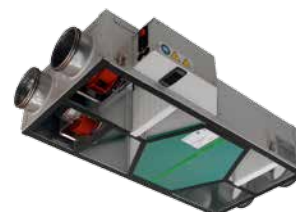
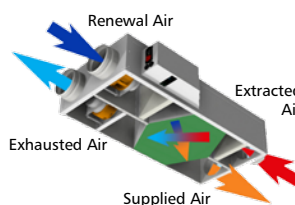
Counterflow multi-room heat exchanger for in-line installation.



Tempero ECO IL is easily installed in false ceiling as the less invasive choice due to reduced dimensions and aesthetic reasons. Offering 90% maximum efficiency, Tempero ECO IL improves the energy efficiency: With temperature of external air equal to -2°C and internal one at around 21°C, the air introduced will be around 19°C.

Features:

- High thermal efficiency: heat recovery 90%
- EC centrifugal brushless motors, high performance, low energy consumption
- Equipped with two filters F7 both for inlet and outlet
- Particularly suitable for false ceiling installation
- Drip tray with siphon outlet for condensation drainage
- Base, electronic and electronic with by pass model options (on base version automatic by pass available on request)
- Electronic control unit (E-E BP versions)
- Adjustable speed: From 10% to 100% on base version by potentiometer, From 10% to 100% on electronic version with 1% variations through on-board/remote display
- Anti-freeze protection system (only electronic version)
- Max temperature of extracted air: 50°C

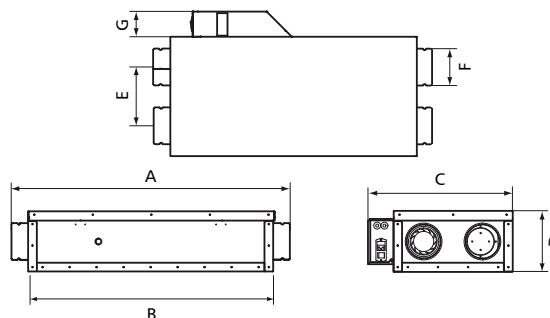


TEMPERO ECO IL WITH CAP REMOVED

ref	model type	duct Ø (mm)	voltage at 50Hz	flow rate (m³/h)	max pressure (mm H ₂ O)	(Pa)	output	nominal current	dB(A) 3m	coverage (m²)	weight (kg)
TEMPERO ECO IL 250	Basic	125	230	242	31	302	100W	0.8A	42	120	30
TEMPERO ECO IL 250 E	Electronic	125	230	242	31	302	100W	0.8A	42	120	30
TEMPERO ECO IL 250 E BP	Bypass	125	230	242	31	302	100W	0.8A	42	120	30
TEMPERO ECO IL 400	Basic	160	230	385	45	447	150W	1.2A	46	260	46
TEMPERO ECO IL 400 E	Electronic	160	230	385	45	447	150W	1.2A	46	260	46
TEMPERO ECO IL 400 E BP	Bypass	160	230	385	45	447	150W	1.2A	46	260	46
TEMPERO ECO IL 550	Basic	200	230	561	63	617	330W	2.5A	49	370	53
TEMPERO ECO IL 550 E	Electronic	200	230	561	63	617	330W	2.5A	49	370	53
TEMPERO ECO IL 550 E BP	Bypass	200	230	561	63	617	330W	2.5A	49	370	53

Dimensions (mm)

ref	A	B	C	D	E	ØF	G
TEMPERO ECO IL 250	963	-	500	245	203	125	88
TEMPERO ECO VIL 400	1260	1150	720	271	328	160	-
TEMPERO ECO IL 550	160	1154	750	326	358	200	-



Ducting Accessories - See pages 179-219

Tempero ECO V Centralised Heat Exchange

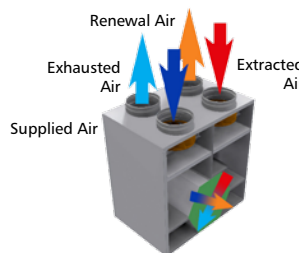
Counterflow multi-room heat exchanger for vertical installation.



Tempero ECO V can be easily installed in technical premises such as storage, boiler rooms etc. Offering 90% maximum efficiency, Tempero ECO V improves the energy efficiency: With temperature of external air equal to -2°C and internal one at around 21°C, the air introduced will be around 19°C.

Features:

- High thermal efficiency: heat recovery 90%
- EC centrifugal brushless motors, high performance, low energy consumption
- Equipped with two filters F7 both for inlet and outlet
- Particularly suitable for installation in technical premises such as storage, boiler rooms etc
- Drip tray with siphon outlet for condensation drainage
- Base, electronic and electronic with by pass model options (on base version automatic by pass available on request)
- Electronic control unit (E-E BP versions)
- Adjustable speed:
From 10% to 100% on base version by potentiometer,
From 10% to 100% on electronic version with 1% variations through on-board/remote display
- Anti-freeze protection system (only electronic version)
- Max temperature of extracted air: 50°C

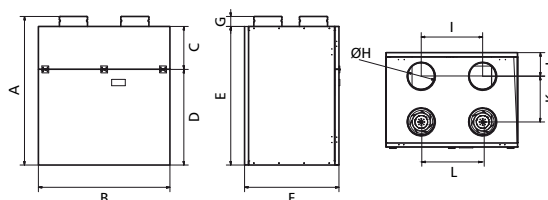


TEMPERO ECO V WITH CAP REMOVED

ref	model type	duct Ø (mm)	voltage at 50Hz	flow rate (m³/h)	max pressure (mm H ₂ O)	(Pa)	output	nominal current	dB(A) 3m	coverage (m²)	weight (kg)
TEMPERO ECO V 250	Basic	125	242	242	31	302	100W	0.8A	42	120	40
TEMPERO ECO V 250 E	Electronic	125	242	242	31	302	100W	0.8A	42	120	40
TEMPERO ECO V 250 E BP	Bypass	125	242	242	31	302	100W	0.8A	42	120	40
TEMPERO ECO V 450	Basic	160	473	473	36	354	150W	1.2A	46	260	70
TEMPERO ECO V 450 E	Electronic	160	473	473	36	354	150W	1.2A	46	260	70
TEMPERO ECO V 450 E BP	Bypass	160	473	473	36	354	150W	1.2A	46	260	70
TEMPERO ECO V 650	Basic	200	665	665	56	550	330W	2.5A	49	370	72
TEMPERO ECO V 650 E	Electronic	200	665	665	56	550	330W	2.5A	49	370	72
TEMPERO ECO V 650 E BP	Bypass	200	665	665	56	550	330W	2.5A	49	370	72

Dimensions (mm)

ref	A	B	C	D	E	F	G	ØH	I	J	K	L
TEMPERO ECO V 250	912	454	-	-	854	350	58	125	186	90	156	212
TEMPERO ECO V 450	847	750	244	545	790	530	57	160	350	133	260	-
TEMPERO ECO V 650	847	750	244	545	890	530	57	200	350	133	260	-



Ducting Accessories - See pages 179-219

Tempero ECO HV Centralised Heat Exchange

Counterflow multi-room heat exchanger for horizontal installation.

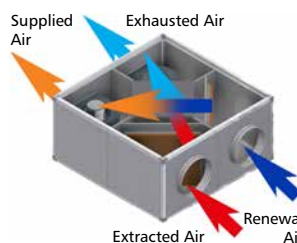


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Tempero ECO HV is suitable for installation in service/commercial sector, or for collective centralised systems. Offering 70% maximum efficiency, Tempero ECO V improves the energy efficiency: With temperature of external air equal to -2°C and internal one at around 21°C , the air introduced will be around 14°C .

Features:

- High thermal efficiency: heat recovery 70%
- EC centrifugal brushless motors, high performance, low energy consumption
- Equipped with two filters G4 both for inlet and outlet
- Particularly suitable for installation in service/commercial sector or for collective centralized systems
- Provided with outlet for condensation drainage
- Base, electronic and electronic with by pass model options (on base version automatic by pass available on request)
- Electronic control unit (E-E BP versions)
- Adjustable speed:
From 10% to 100% on base version by potentiometer,
From 10% to 100% on electronic version with 1% variations through on-board/remote display
- Anti-freeze protection system (only electronic version)
- Max temperature of extracted air: 50°C

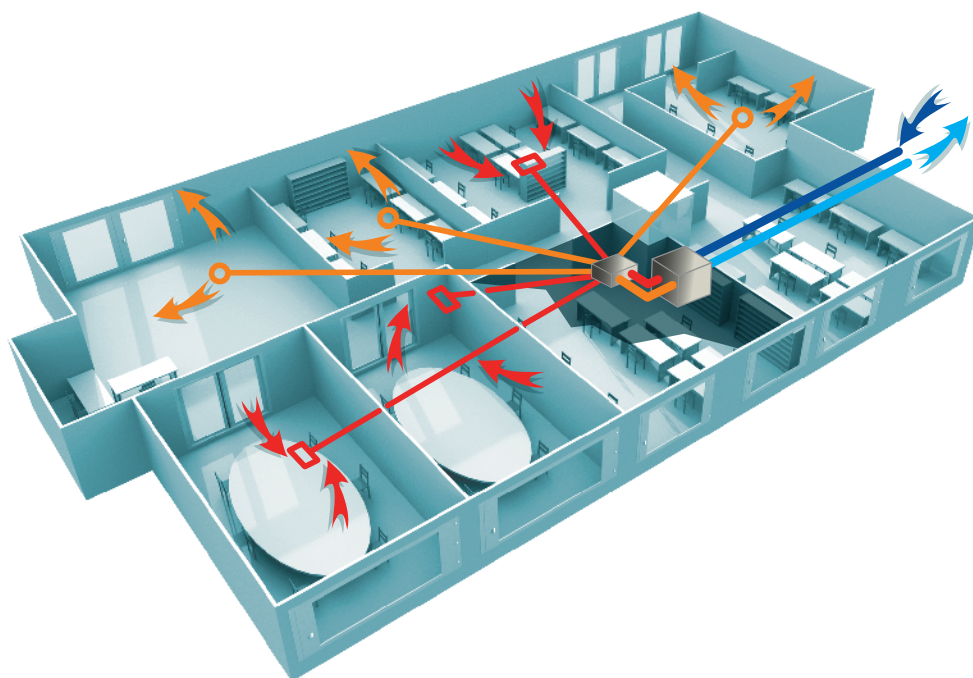


TEMPERO ECO HV WITH CAP REMOVED

How it works:

The "foul" air is extracted from the so-called "technical" premises of the house (bathroom, kitchen...) and through suitable ducts connected to the plenum comes in the Tempero recovery unit where the heat exchange occurs by mixing with the air renewal before being exhausted.

The air renewal, in fact, is introduced from the outside directly from Tempero where it is filtered, crosses the heat exchanger and after reaching the Plenum, it is ducted and introduced in the "noble" premises (living room, bedrooms...)



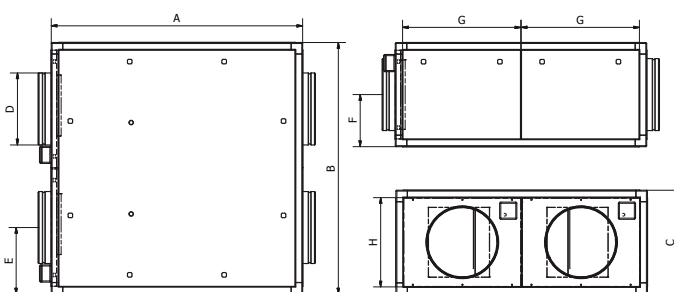
Ducting Accessories - See pages 179-219

Tempero ECO HV Centralised Heat Exchange

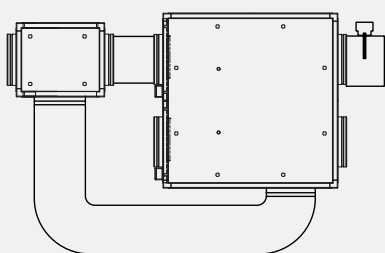
ref	model type	duct Ø (mm)	voltage at 50Hz	flow rate (m³/h)	pressure (mm H ₂ O)	(Pa)	output	nominal current	dB(A) 3m	weight (kg)
TEMPERO ECO HV 280	Basic	200	230	280	21	200	330W	2.6A	41	75
TEMPERO ECO HV 280 E	Electronic	200	230	280	21	200	330W	2.6A	41	75
TEMPERO ECO HV 280 E BP	Bypass	200	230	280	21	200	330W	2.6A	41	75
TEMPERO ECO HV 450	Basic	200	230	450	20	190	460W	3.6A	45	75
TEMPERO ECO HV 450 E	Electronic	200	230	450	20	190	460W	3.6A	45	75
TEMPERO ECO HV 450 E BP	Bypass	200	230	450	20	190	460W	3.6A	45	75
TEMPERO ECO HV 650	Basic	200	230	650	16	150	460W	3.6A	46	85
TEMPERO ECO HV 650 E	Electronic	200	230	650	16	150	460W	3.6A	46	85
TEMPERO ECO HV 650 E BP	Bypass	200	230	650	16	150	460W	3.6A	46	85
TEMPERO ECO HV 950	Basic	250	230	950	31	300	960W	4.2A	50	90
TEMPERO ECO HV 950 E	Electronic	250	230	950	31	300	960W	4.2A	50	90
TEMPERO ECO HV 950 E BP	Bypass	250	230	950	31	300	960W	4.2A	50	90
TEMPERO ECO HV 1500	Basic	315	230	1500	31	300	960W	4.2A	53	120
TEMPERO ECO HV 1500 E	Electronic	315	230	1500	31	300	960W	4.2A	53	120
TEMPERO ECO HV 1500 E BP	Bypass	315	230	1500	31	300	960W	4.2A	53	120
TEMPERO ECO HV 2400	Basic	355	230	2400	26	250	1400W	6A	55	145
TEMPERO ECO HV 2400 E	Electronic	355	230	2400	26	250	1400W	6A	55	145
TEMPERO ECO HV 2400 E BP	Bypass	355	230	2400	26	250	1400W	6A	55	145
TEMPERO ECO HV 3200	Basic	400	230	3200	31	300	2450W	11.2A	58	150
TEMPERO ECO HV 3200 E	Electronic	400	230	3200	31	300	2450W	11.2A	58	150
TEMPERO ECO HV 3200 E BP	Bypass	400	230	3200	31	300	2450W	11.2A	58	150
TEMPERO ECO HV 4000	Basic	450	230	4000	26	250	2450W	11.2A	63	170
TEMPERO ECO HV 4000 E	Electronic	450	230	4000	26	250	2450W	11.2A	63	170
TEMPERO ECO HV 4000 E BP	Bypass	450	230	4000	26	250	2450W	11.2A	63	170
TEMPERO ECO HV 4800	Basic	450	400	4800	31	300	4800W	5.2A	71	170
TEMPERO ECO HV 4800 E	Electronic	450	400	4800	31	300	4800W	5.2A	71	170
TEMPERO ECO HV 4800 E BP	Bypass	450	400	4800	31	300	4800W	5.2A	71	170

Dimensions (mm)

ref	A	B	C	D	E	F	G	H
TEMPERO ECO HV 280	960	960	315	200	240	157.5	447	251
TEMPERO ECO HV 450	960	960	315	200	240	157.5	447	251
TEMPERO ECO HV 650	960	960	435	200	240	217.5	447	371
TEMPERO ECO HV 950	960	960	435	250	240	217.5	447	371
TEMPERO ECO HV 1500	1280	1280	455	315	320	227.5	607	301
TEMPERO ECO HV 2400	1280	1280	555	355	320	277.5	607	491
TEMPERO ECO HV 3200	1280	1280	555	400	320	277.5	607	491
TEMPERO ECO HV 4000	1280	1280	855	450	320	427.5	607	791
TEMPERO ECO HV 4800	1280	1280	855	450	320	427.5	607	791



Tempero E BP (Bypass) Models



When it is not convenient recovering the heat of the air exhausted, ie, during the summer season, the By-Pass allows to use Tempero without the air exhausted crosses the internal heat exchanger. The By-Pass consists of:

- A box section with an aluminum frame and sandwich panels having 3 flanges for the connection of ducts (the position of the flange is configurable according to specific requirement)
- Motorised shutter on the air inlet extracted from the environment
- Motorised shutter on the duct inlet of By-Pass
- Flanged panel to be installed on the unit for exhaust air with operative by-pass



Accessories

Optional Mounting Kits

Kit accessory for window and panel mounting. Window Kit is suitable for installation on a single, double glazing window glass or wood panel, from 3mm to a thickness of 20mm.

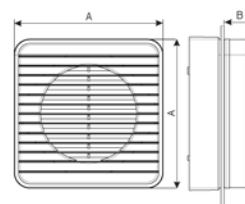


IN Range

ref	description
OERWINKIT10/4IN	IN 4" window kit
OERWINKIT15/6IN	IN 6" window kit

Dimensions

ref	A (mm)	B (mm)	Window hole
OERWINKIT10/4IN	155	31	Ø132.5 - 145mm
OERWINKIT15/6IN	211	31	Ø186 - 195mm



Ventilor Range

ref	description
OERWINDKITVENT20/08	Ventilor double window kit for 20/08 model
OERWINDKITVENT25/10	Ventilor double window kit for 25/10 model
OERWALLFIXFIT	Ventilor wall fixing kit

Smart Range

ref	description
OERWINDKITSMA23/9	Smart double window kit for 23/9 model
OERWINDKITSMA230/12	Smart double window kit for 30/12 model
OERWALLKITSMA23/9	Smart wall fixing kit - 23/9 model
OERWALLKITSMA30/12	Smart wall fixing kit - 30/12 model

Wall Grilles

100mm (4") Gravity Shutter

ref: **OERSHUTTER10/4**



Rain proof gravity shutter to prevent air from getting back in when the fan is switched off. Shutters automatically open with air flow when the fan is working. For external wall mounting.

Fixed Grille

ref: **OERGRILLE10/4** - Ø100mm (4") Grille

ref: **OERGRILLE15/6** - Ø150mm (6") Grille



Rain proof fixed grille for external wall mounting. Available in 100mm (4") and 150mm (6") sizes. Made from white technopolymer.

Ducting Accessories - See pages 179-219

Controllers and Timers



Controllers

5 Speed Controller

ref: **OERRG5**



For basic fan models of up to 80W.

- Control motor ON/OFF
- Variable speed

5 Speed Reversible Controller

ref: **OERRG5AR**



For basic fan models of up to 80W.

- Control motor ON/OFF
- Variable speed
- Airflow reversibility

Electronic Stepless Speed Controller

ref: **OERRGE**



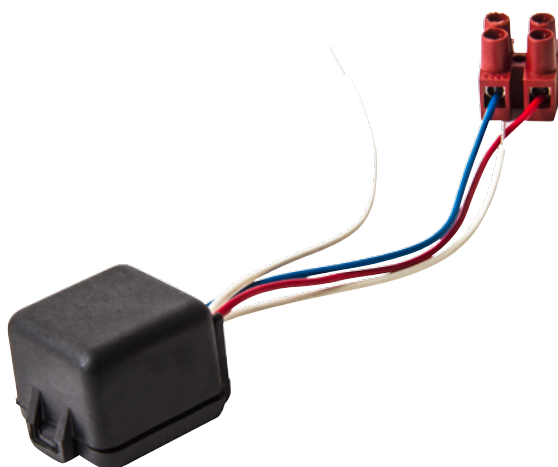
For single phase fans up to 300W.

- Control motor ON/OFF
- Variable speed
- Airflow reversibility
- Dimensions (W x H x D):
125 x 105 x 52mm

Timers

Timermatic

ref: **OERTMATIC**



Self adjusting proportional timer from 4 to 13 minutes approx. It can be used with any fan up to a maximum power of 200W.

For installation inside switch box, junction box and inside the appliance.

Timertronic

ref: **OERTTRONIC**



The Timertronic is an electronic timer designed to delay the turn-off operation of any fan with power as high as 200VA.

For installation inside switch boxes or unattended connection. Delay is adjustable from 3 to 25 minutes; no delay is added when the fan starts.

Ducting Accessories - See pages 179-219

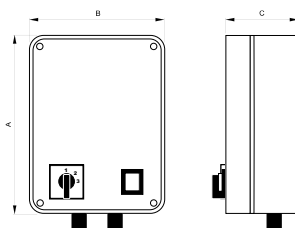
Industrial Fan Controllers

IP55 rated speed controllers for industrial fans.
Suitable for wall mounting.



Features:

- Speed controllers for industrial fans
- Casing made of plastic material
- Equipped with operating indicator light
- IP55 protection
- Equipped with cable gland
- Suitable for wall installation



ref	I max	flow rate	dimensions (mm)			weight (kg)
			A	B	C	
RGM 2	1.6A	350VA	180	108	100	0.2
RGM 4	4A	900VA	250	190	140	5.3
RGT 1	1A	700VA	250	190	140	5
RGT 2	2A	1300VA	320	240	150	7.5

APPLICATION CHART BETWEEN O.ERRE INDUSTRIAL FANS AND O.ERRE CONTROLLERS

range	model	RGM 2	RGM 4	RGT 1	RGT 2
TURBOPLAST - TURBO	All models	■			
AC	150 2M	■			
	200 2M		■		
CB	150 2T - 200 2T			■	
	210 2M - 220 2M	■			
	230 2M - 240 2M		■		
CS	210 2T - 220 2T			■	
	230 2T - 240 2T				■
	310 4M	■			
	320 4M		■		
CAI	310 4T			■	
	320 4T - 330 4T - 340 4T				■
	510 2M - 520 2M	■			
CAA	530 2M - 540 2M		■		
	510 2T - 520 2T			■	
	530 2T - 540 2T				■
TXC	610 2T - 620 4T			■	
	630 4T				■
TURBOCAMINO	All models	■			
TXP	3M - 6M	■			
	7M - 8M - 10M		■		
	3T - 6T - 7T			■	
	8T - 10 T				■
AXIA DES	450 6M	■			
	600 6M - 710 6M		■		
	25 2M - 40 4M - 45 4M		■		
AXIA AI CC - AXIA AI CL	25 4M - 30 4M - 35 4M	■			
	25 2T - 30 2T - 25 4T - 30 4T - 35 4T - 40 4T			■	
	45 4T - 50 4T				■
AXIA LD	20 4M - 25 4M - 30 4M - 35 4M	■			
	25 4M - 30 4M - 35 4M - 40 4M	■			
AXIA MD	50 4M - 50 6M - 60 4M - 60 6M		■		
	25 4T - 30 4T - 35 4T - 40 4T - 50 4T - 50 6T - 60 4T - 60 6T			■	
	25 4M - 30 4M - 35 4M - 40 4M	■			
AXIA HD	50 4M - 50 6M - 60 4M - 60 6M		■		
	25 4T - 30 4T - 35 4T - 40 4T			■	
	50 4T - 50 6T - 60 4T - 60 6T				■
AXIA TT	20 2M - 20 4M - 25 4M - 30 4M - 35 4M - 40 4M	■			
	25 4T - 30 4T - 35 4T - 40 4T			■	
	50 4T - 60 6T				■



Ducting Accessories - See pages 179-219

Fan Sensors

Accessory for all domestic fans (base version) with a maximum power of 200W.



PIR Sensor

ref: **OERPIR**

The fan starts automatically when the infrared sensor detects a presence in the room. When the room is vacated the timer takes control keeping the fan operating for a preset time (from 2 up to 25 minutes).

In accordance with EN 60335-2-80.

HT Sensor

ref: **OERHT**

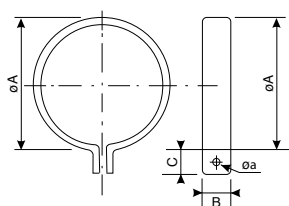
The fan starts at a pre-determined humidity level. When humidity levels fall the timer takes control, keeping the fan operating for a preset time from 2 up to 25 minutes, automatic or manual functioning.

Industrial Fan Accessories

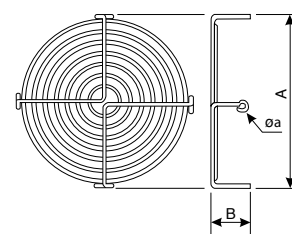
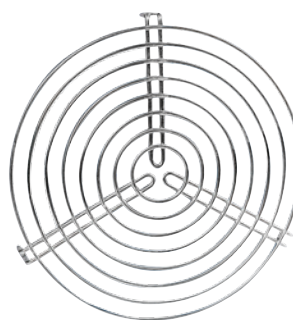
A collection of accessories for use with the O.erre industrial fan range.



Duct Clamp



Protective Grille



ref	suitability	dimensions (mm)			
		ØA	B	C	Øa
0061400	TURBO-TURBOPLAST 100	105	40	20	7
0061500	TURBO-TURBOPLAST 125	130	40	20	7
0062000	AC 150-TURBO-TURBOPLAST 150/160	165	40	20	7
0061700	AC-TURBO 200	205	40	20	7
0061800	TURBO 250	255	40	20	7
0061900	TURBO 315	320	40	20	7

ref	suitability	dimensions (mm)		
		ØA	B	Øa
0060800	TURBO 100	100	20	4.5
0060900	TURBO 125	125	20	4.5
0061000	AC-TURBO 150	150	20	4.5
0062900	TURBO 160	160	20	4.5
0061100	AC-TURBO 200	200	20	4.5
0061200	TURBO 250	250	20	4.5
0061300	TURBO 315	315	20	4.5

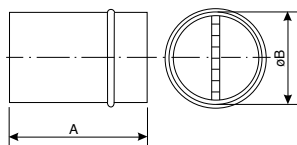
Ducting Accessories - See pages 179-219

Industrial Fan Accessories

A collection of accessories for use with the O.Erre industrial fan range.

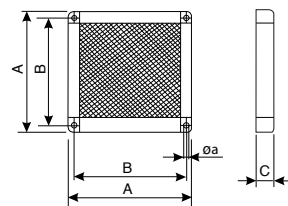


Backdraft Shutter



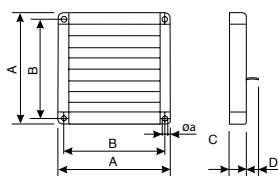
ref	suitability	dimensions ØA B	
0062200	TURBO-TURBOPLAST 1006	77	94
0062300	TURBO-TURBOPLAST 125	90	119
0062100	AC 150-TURBO-TURBOPLAST 150/160	100	156
0062500	AC-TURBO 200	127	194
0062600	TURBO 250	152	244
0062700	TURBO 315	185	309

Protection Grille



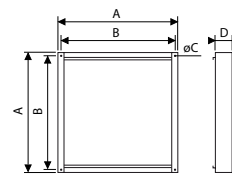
ref	suitability	dimensions (mm) ØA B C Øa			
0059400	LD-TT-EC 20	310	268	52	9
0059500	LD-MD-HD-TT-EB-EC 25	367	325	52	9
0059600	LD-MD-HD-TT-EB-EC 30	424	382	52	9
0059700	LD-MD-HD-TT-EB-EC 35	481	439	52	9
0059800	MD-HD-TT-EB-EC 40	538	496	52	9
0059900	MD-HD-TT-EB-EC 50	652	610	52	9
0060000	MD-HD-TT-EB-EC 60	823	781	52	9

Gravity Shutter



ref	suitability	dimensions (mm) ØA B C D Øa				
0060100	LD-TT-EC 20	310	268	52	54	9
0060200	LD-MD-HD-TT-EB-EC 25	367	325	52	54	9
0060300	LD-MD-HD-TT-EB-EC 30	424	382	52	54	9
0060400	LD-MD-HD-TT-EB-EC 35	481	439	52	54	9
0060500	MD-HD-TT-EB-EC 40	538	496	52	54	9
0060600	MD-HD-TT-EB-EC 50	652	610	52	54	9
0060700	MD-HD-TT-EB-EC 60	823	781	52	54	9

Spacer



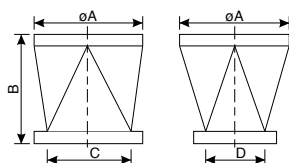
ref	suitability	dimensions (mm) ØA B C D			
0065100	LD-TT-EC 20	310	268	9	63
0065200	LD-MD-HD-TT-EB-EC 25	367	325	9	73
0065300	LD-MD-HD-TT-EB-EC 30	424	382	9	75.5
0065400	LD-MD-HD-TT-EB-EC 35	481	439	9	101.5
0065500	MD-HD-TT-EB-EC 40	538	496	9	116.5
0065600	MD-HD-TT-EB-EC 50	652	610	9	119.5
0065700	MD-HD-TT-EB-EC 60	823	781	9	130.5

Ducting Accessories - See pages 179-219

Industrial Fan Accessories

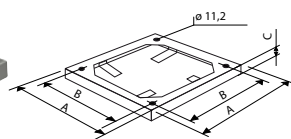
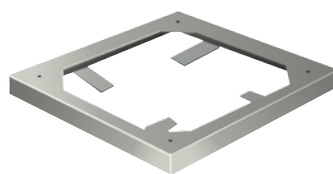


Square to Round Connector



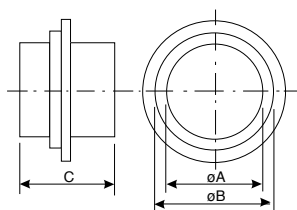
ref	suitability	dimensions (mm)			
		ØA	B	C	D
0063000	CAA 610	125	105	90	90
0063100	CAA 620	200	160	165	135
0063200	CAA 630	250	160	205	165
0063400	CAA 640 D315	315	200	245	205
0063500	CAA 650 D315	315	205	290	235
0063600	CAA 650 D355	355	205	290	235

Frame Base



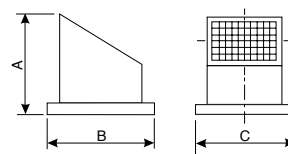
ref	suitability	dimensions (mm)			weight (kg)
		ØA	B	C	
0080600	TXP - TXV 3/6	390	350	40	0.8
0080700	TXP - TXV 7/8	550	460	40	1.6
0080800	TXP - TXV 10	700	610	40	2
0080900	TXP - TXV 12/14/15/18	890	800	40	3.2

Reducer



ref	suitability	dimensions (mm)		
		ØA	B	C
0066800	CAA 640	250	315	147

Angled Outlet



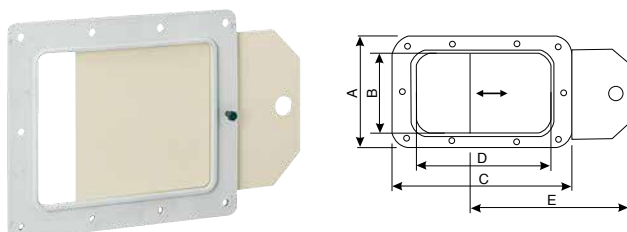
ref	suitability	dimensions (mm)		
		ØA	B	C
0067700	CAA 610	90	90	90
0067800	CAA 620	160	165	135
0067900	CAA 630	208	205	165
0068000	CAA 640	60	245	205
0068100	CAA 650	260	290	235

Ducting Accessories - See pages 179-219

Industrial Fan Accessories

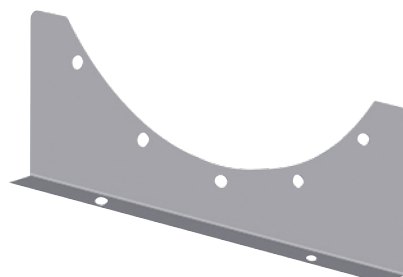


Shutter



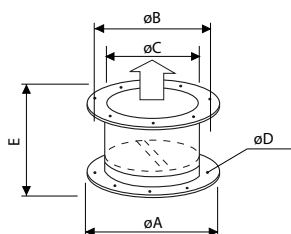
ref	suitability	dimensions (mm)				
		A	B	C	D	E
0066900	CAA 610	230	165	265	205	274
0067000	CAA 640	263	205	303	245	332
0067100	CAA 650	305	235	355	290	372

Support



ref	description	suitability
0072988	AI SP 25	AI CC/AI CL
0072989	AI SP 30	AI CC/AI CL
0072990	AI SP 35	AI CC/AI CL
0072991	AI SP 40	AI CC/AI CL
0072992	AI SP 45	AI CC/AI CL
0072993	AI SP 50	AI CC/AI CL

Gravity Shutters

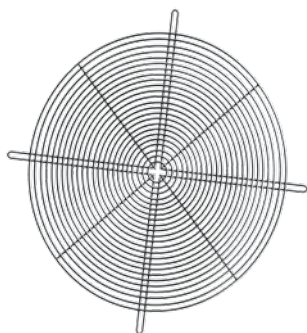


ref	suitability	dimensions (mm)					weight (kg)
		A	B	C	D	E	
0078600	TXP - TXV 3	259	235	200	3xM8	150	1.1
0078700	TXP - TXV 6	309	283	250	3xM8	210	1.8
0078800	TXP - TXV 7	359	330	300	3xM8	210	2.6
0078900	TXP - TXV 8	409	381	350	4xM8	230	3.4
0079000	TXP - TXV 10	460	431	400	4xM8	250	4.2
0079100	TXP - TXV 12	560	533	500	5xM8	300	5.8
0079200	TXP - TXV 14	620	585	550	6xM8	320	6.6
0079300	TXP - TXV 15/18	661	636	600	7xM8	320	7.3

ref	suitability
0055110	TXA 40
0055120	TXA 50
0055130	TXA 63
0055140	TXA 71
0055150	TXA 80
0055160	TXA 100

Ducting Accessories - See pages 179-219

Safety Protection Grille



ref	description	suitability
0072982	AI R 25	AI CC/AI CL
0072983	AI R 30	AI CC/AI CL
0072984	AI R 35	AI CC/AI CL
0072985	AI R 40	AI CC/AI CL
0072986	AI R 45	AI CC/AI CL
0072987	AI R 50	AI CC/AI CL

Connection Flange



ref	description	suitability
0072994	AI F 25	AI CC/AI CL
0072995	AI F 30	AI CC/AI CL
0072996	AI F 35	AI CC/AI CL
0072997	AI F 40	AI CC/AI CL
0072998	AI F 45	AI CC/AI CL
0072999	AI F 50	AI CC/AI CL

Flexible Connection



ref	description	suitability
0072902	AI G 25	AI CC/AI CL
0072977	AI G 30	AI CC/AI CL
0072978	AI G 35	AI CC/AI CL
0072979	AI G 40	AI CC/AI CL
0072980	AI G 45	AI CC/AI CL
0072981	AI G 50	AI CC/AI CL

Extension Ring



ref	description	suitability
0072903	AI PRO 25	AI CC/AI CL
0072903	AI PRO 30	AI CC/AI CL
0072903	AI PRO 35	AI CC/AI CL
0072903	AI PRO 40	AI CC/AI CL
0072903	AI PRO 45	AI CC/AI CL
0072903	AI PRO 50	AI CC/AI CL

How to Select a Fan

Why you need ventilation

New building materials and construction methods are resulting in buildings that are near 'waterproof' which trap moisture inside just as well as they keep moisture out.

Windows and doors that are open provide air circulation and ventilation, but leaving doors or window open cause security issues, so we are less likely to use this option, therefore properties tend to be 'closed' more often.

In general, poor ventilation results in build up of moisture which is generated by cooking, bathing, showering, washing clothes, drying clothes, LPG heating and people and animals simply breathing!

Stale air is another issue and can be caused by odours from cooking, bathrooms and simple lack of ventilation around the property as well as damp atmospheres.

Poor ventilation issues

All of these problems can cause an avoidable level of discomfort as well as potential respiratory illness and general poor health.

Problems can also occur when steam from the kitchen or bathroom areas finds cooler surfaces around the property on which to condense. Warm, moisture laden air condenses on cold surfaces such as glass, cold ceiling etc. This is moisture you can see.

Invisible moisture will also be present in the atmosphere and will be absorbed into fabrics, bedding etc. Attempting to save heat loss by sealing windows and therefore preventing natural ventilation makes the problem worse!

Condensation can cause considerable problems from peeling wallpaper and mould growth to severe long term structural damage to building materials.

Moisture generators

- Bathroom / showering
- Toilets
- Condensation / gas heating
- Utility rooms
- Kitchens

It is best to remove moisture from where it is generated to the outside of the property before it has chance to spread to other parts of the property, this is done by using duct, window or wall fans.

Warm moist air, in particular bathrooms, is immediately attracted to cold surfaces where it condenses into water droplets.

There are many cold surfaces which include glass, mirrors, tiles etc. and you cannot remove all of this air at a rate fast enough to stop this happening. If you could, you would need to be standing in a wind tunnel!

By using a bathroom heater prior to using the bathroom it can reduce condensation greatly - for further information, ask about our Levanté Heating product range.

Placing your fan

The correct location of an extractor fan will ensure maximum air-flow through the room. Air extracted from a bathroom, for example, can be replaced with dry air drawn from an adjacent bedroom or hallway, in turn drawn from an open window or door.

This ensures that fresh air is being drawn into the entire property at regular periods. Switching the fan on before showering or cooking sets up effective air-flows before condensation occurs. Closing doors to adjacent living areas assists in stopping the transfer of moisture to those areas but ensures that sufficient air can enter under the door to replace extracted air.

For a fan to remove air effectively, the same amount of air being extracted must be able to enter the room so air in equals air out. An air tight room will mean no air movement.

A fan should always be sited in the furthest window or wall from the main source of air replacement and should be located as high as possible in the window or wall as close to the odour or steam but not directly above eye-level grills or cooker hoods.

Should the room contain a fuel burning device, such as a gas boiler with a non-balanced flue, it is imperative that there is enough replacement air to prevent fumes being drawn down the flue when the fan is extracting to its maximum capacity.

IEE regulations (UK) require that a conventional mains voltage fan in a bathroom or shower area must be located where it cannot be touched by a person while using the bathroom or shower and is well away from any water spray. O.Erre SELV 12V fans are designed to be used in these areas and are completely safe.

Fan Types

Axial

Suitable for wall, window, ceiling and panel mounting, axial fans extract directly outside over short distances. Short solid duct runs are an option but the length of solid duct should be limited to 1 metre maximum.

Mixed flow

Powerful in-duct mounted fans, designed for applications that requires high air flows combined with low relative noise. They can handle more pressure than axial fans but they are not as powerful as a centrifugal fan.

Centrifugal

Centrifugal fans are pressure developing fans which achieve good flow against the resistance created in a duct system, with bends and elbows or wrinkled duct. They are particularly useful in venting areas with long ducting like internal bathrooms and laundry rooms.

How to choose a fan

Air changes per hour (ACH)

The number of times the total room volume of air is changed each hour. Refer to the table below for the recommended air changes per hour based upon room type.

Room Type	ACH
Bathrooms	06 - 08
Domestic kitchen	10 - 12
Commercial kitchen	15 - 20
Café & bars	10 - 12
Offices	06 - 08
Restaurants	06 - 08
Hotel bars	06 - 10
Factories / workshops	06 - 10
Gymnasiums	10 - 15
Shops	08 - 10
Laundries	10 - 20
Bathrooms & shower rooms	15 - 20
Toilets	12 - 15

Working out the right fan for the job

- Calculate the room volume in metres – length x width x height
- Multiply the room volume m³ by the suggested air changes per hour for that room - see the table above.
- The result is the total performance required in cubic metres per hour (m³/hr)

Example:

- Select a fan for a bathroom that is 2.8m (length) x 2.8m (width) x 1.8m (height) = 2.8m x 2.8m x 1.8m = 14.11m³
- Multiply the room volume by the recommended air changes per hour = 14.11m³ x 20 = 282m³/hr
- The fan to choose would need to have a flow rate greater than 282m³/hr to perform correctly
- Now select the fan from the catalogue pages = The fan you require would be a OERIN15/6LP

How to Select a Fan

Quick cross reference calculations:

Known to find action
 L/S m³/hr L/S x 3.6 = m³/hr
 m³/hr L/S m³/hr ÷ L/S = L/S

*UK regulations – domestic dwellings air extraction rates building regulations F1.

AREA		INTERMITTENT USE L/S	CONTINUOUS USE L/S	MINIMUM LOW L/S
Kitchen	Adjacent to cooker hood	30	13	
Kitchen	Elsewhere	60		
Utility		30	8	Minimum Whole
Bathroom		15	8	House Rate
Sanitary Room		6	6	see table below

WHOLE HOUSE RATE					
Rooms	1	2	3	4	5
L/S	13	17	21	24	29

The minimum ventilation rate should not be less than 0.3L/S per m² of internal floor area. This includes all floors and for example a two storey building should be calculated by adding the ground floor and first floor areas together. This is based upon two occupants in the main bedroom and single occupants in all other bedrooms. This should be used as the default value. If there is a greater level of occupancy then add 4L/S per occupant.
 UK building regulations F1.

MINIMUM EXTRACT CAPACITY			
	LITRES PER SECOND	m³/hr	CFM
Bathrooms & Shower Rooms	15	54	34
Separate Toilet	6	21	12
If a room does not contain an open window, the fan should be fitted with a 15-minute OER-RUN Timer			
Kitchens	60	216	127
Utility Rooms	30	108	63

To calculate the correct Centrifugal Fan

- Calculate the room size: Length x Width x Height = m³ (volume)
- Multiply the volume m³ by the suggested air changes per hour = m³/h required
- Calculate the duct pressure loss (refer to diagram on page 54), if you have a bend or elbow, you will need to calculate the pressure loss due to them (refer to Table A)
- Select a suitable fan from the catalogue pages

Example:

- Room size (small bathroom): 3m x 2m x 3m = 12 (m³ volume)
- 18 (m³ volume) x 6 (suggested air changes) = 108 m³/h required
- Duct diameter 100mm, length 7m with two bends = Duct pressure loss

Bends & Elbow Losses

Bends and Elbows add further pressure losses (based on air speed inside the duct)

Calculate Duct pressure loss

How to use the Diagram for fan choice (refer to diagram on page 54):

- Start with the flow rate value (108m³/h) on the right side of the diagram.
- Proceed horizontally until you cross the diagonal line, giving you the diameter of the existing duct.
- Descend vertically to find the value of the pressure loss expressed in mm H₂O per each meter of duct. Multiply this value with the required length of pipe and you will find the total pressure loss value.

If you want the value in Pa (Pascals), multiply the value by 9.81.

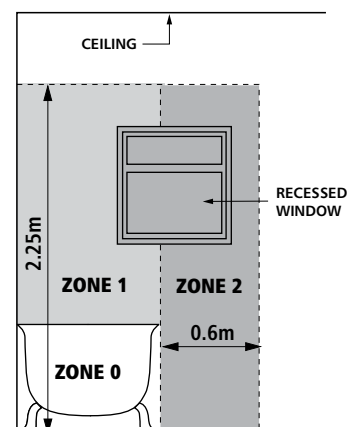
We already know:

- The m³/h required (108m³/h)
- The pressure loss due to the length of duct

You must also know what is the pressure loss due to a bend or elbow, therefore, at the intersection of the flow rate and duct diameter values, follow this line upwards until it intersects the nearest air speed line (m/sec). Once you have this value, refer to Table A.

TABLE A - Losses for Bends & Elbows													
Speed m/sec	1	2	3	4	5	6	7	8	9	10	15	20	30
Pressure loss for bend (mm H₂O)	0.01	0.05	0.1	0.2	0.3	0.4	0.5	0.7	0.9	1.1	2.5	4.5	10
Pressure loss for elbow (mm H₂O)	0.1	0.35	0.8	1.4	2	3	4	5.5	7	9	20	35	65

Zone Guide



Fan zone guide:

Zone 1 - use SELV 12V or In-line Fan
 Zone 2 - any IPX4 Fan

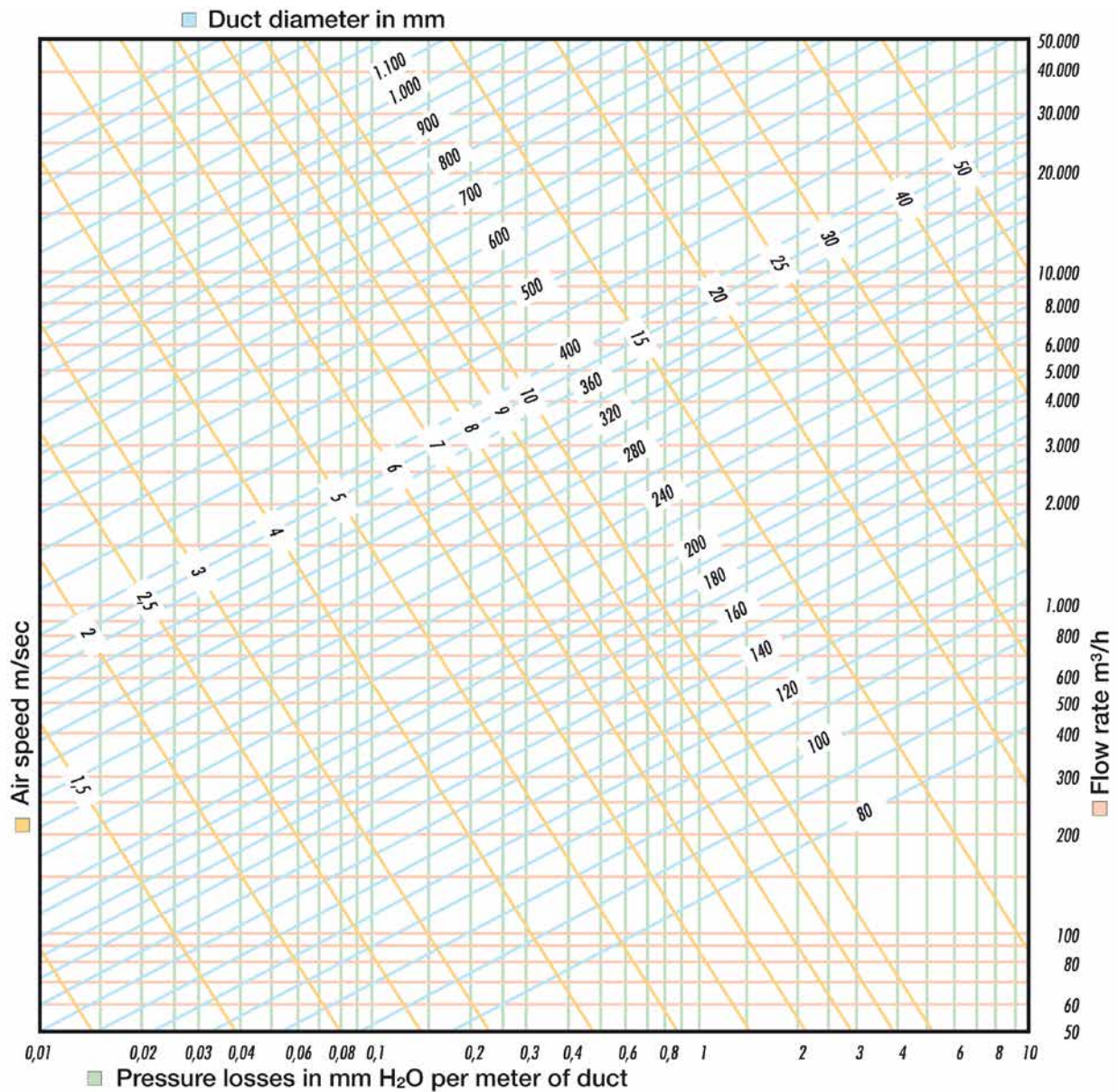
Centrifugal Fans

Example continued:

- Room size (bathroom): 3m x 2m x 3m = 18m³ (volume)
- 18m³ (volume) x 6 (suggested air changes) = 108 m³/h required
- Duct diameter 100mm, length 7m = 1.4 total pressure loss
- 2 bends = 0.2 total pressure loss
- Convert the total mm H₂O in Pa (Pascal) therefore: 1.4 + 0.2 = 1.6 x 9.81 = 15.696 Pa (Total pressure loss)
- Select a fan from the catalogue with a Pa rating greater than 16Pa
- Choose either the Diverso 60 or Compact 100

How to Select a Fan

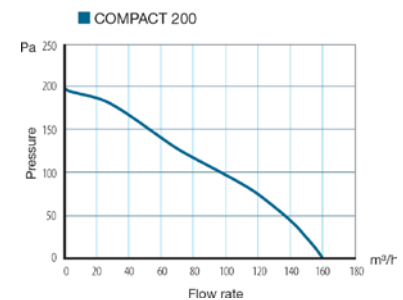
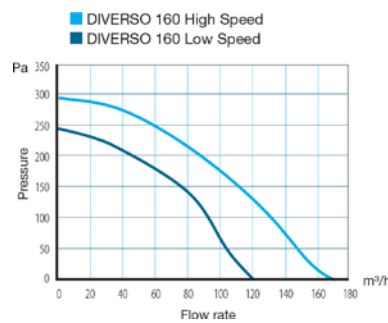
Diagram for fan choice



Fan Performance Chart

Pressure Curves

- Move across from calculated Static Pressure of the curve to meet the minimum fan performance required.
- Drop to flow rate line (m³/h) to confirm flow rate.



Wall Grilles and Ducting

Air extraction solution accessories for domestic and commercial applications.



Levanté Wall Grilles

A range of Ø100mm (4") fixed and gravity grilles, available in white or brown.

Fixed Wall Grille - White

ref: **TFG4**



Fixed Wall Grille - Brown

ref: **TFG4B**



Gravity Grille (4 Flaps) - White

ref: **TFGG4**



Gravity Grille (4 Flaps) - Brown

ref: **TFGG4B**



Levanté Flexible Ducting

A range of Ø100mm (4 inch) flexible white hose ducting.

ref	description
LEV361WH	Flexible white ducting - 1 metre length
LEV363WH	Flexible white ducting - 3 metre length
LEV366WH	Flexible white ducting - 6 metre length



Domus Duct Systems



The Domus range offers the most comprehensive selection of high quality plastic ducting available in the industry.

Rigid Duct Systems

The Domus rigid duct range is available in 8 different profiles to suit any application and comes with a full set of adapters to enable a simple or complex system, as required.

Domus rigid duct systems also include duct insulation, integrated fire stopping and sound attenuation components.

Use the rigid duct profile selector below to determine the correct duct system for your chosen appliance.

To change to an alternative size, adapters are listed on page 214.

technical tips...

To ensure appliance efficiency and reduce any system noise:

- Choose the shortest and most direct routes
- Minimise the use of bends and use 2 x 45° instead of 90° bends wherever possible
- Seal joints with DDSEAL acrylic sealant
- Use rigid round duct wherever possible
- Use the largest appropriate size of duct
- Avoid using flexible hose wherever possible
- Check the extraction capability and connection

Rigid Duct Profile Selector

Appliance duct connection size:

100mm (4")				125mm (5")		150mm (6")	
What depth is available for the duct?				What depth is available for the duct?		What depth is available for the duct?	
▼	▼	▼	▼	▼	▼	▼	▼
38 - 60mm	60 - 105mm	38 - 60mm	105mm +	65 - 130mm	130mm +	97 - 155mm	155mm +
Polyvent 225 234 x 29mm	System 100 110 x 54mm	Polyvent 300 308 x 29mm	Easipipe 100 Ø100mm	Supertube 204 x 60mm	Easipipe 125 Ø125mm	Megaduct 220 x 90mm	Easipipe 150 Ø150mm
Page 192	Page 180	Page 194	Page 198	Page 184	Page 204	Page 188	Page 209

When a profile has been specified and the duct layout designed, the duct system resistance must be calculated to ensure that the appliance has sufficient power to more than match the resistance of the complete system.

To ensure the products are appropriate for the intended environment and application, please refer to the application icons on each page.

Application code



Kitchen



Utility room



Bathroom



Commercial



Toilet



Whole house












System 100 110 x 54mm

Duct


DOMUS




	ref	description	connection
	D010	Flat duct - 1 metre length	Duct
	D015	Flat duct - 1.5 metre length	Duct
	D1-2000	Flat duct - 2 metre length	Duct
	D020	Duct connector - Straight	Female
	D027	Duct connector - Straight (Damper)	Female
	D050	Duct bend - Horizontal (90°)	Female
	D055	Duct bend - Horizontal (45°)	Female
	D060	Duct bend - Vertical (90°)	Female
	D075	Duct bend - Vertical (45°)	Female
	D080	Duct T piece - Horizontal	Female
	D018	Duct end cap	Male
	D115-4	Duct wall plate	-

System 100 110 x 54mm



Duct Fixings

	ref	description	connection
	D122-4	Duct clip	-




Duct Insulation

	ref	description	connection
	D10TP12	Insulation sheet - 1m x 1.2m	-


Fire Compartment Integrity - FireBrake

	ref	description	connection
	DF087	Intumescent duct connector • Meets NHBC requirements • Tested by BRE to BS476/EN 1366-3 • Provides 2 hours fire protection	Female
	MAS87	Acoustic intumescent mastic • 310ml • 4 hours fire rating	-

Duct Seals

	ref	description	connection
	DSEAL	Duct - Sealant	-
	D50TP45	Duct tape - Aluminium - 45m roll	-
	D123-4	Duct tape - PVC - 4.6m roll	-
	D123	Duct tape - PVC - 33m roll	-

Flexible Hose


	ref	description	connection
	D3305	Flexible hose - 0.5 metre length	Female
	D333	Flexible hose - 3 metre length	Female

DOMUS



System 100 110 x 54mm

Flexible Hose Connector

	ref	description	connection
	D381	Hose connector	Duct

DOMUS



Internal Duct Terminals


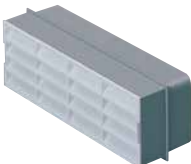





	ref	description	connection
	D040	Air valve - Adapter	Female/ Male
	D136-04	Air valve - Extract or supply	Male
	D136-24	Air valve - Extract or supply • Suspended Ceiling	Male
	D136FR-24M	Air valve - Extract or supply • Suspended Ceiling • Fire Rated	Male
	D4908F	Diffuser - Multi-directional grille with environment filter	Male
	D40AF	Accessories: Environmental filter	-
	D40AFP	Accessories: Pollen filter	-
	D4907W	Round diffuser - White	Male
	D4907CH	Round diffuser - Chrome	Male

System 100 110 x 54mm

External Wall Duct Terminals

DOMUS



	ref	description	connection
	D077	Outlet airbrick adapter	Duct/Male
	D505W	Outlet airbrick - White	○ Female
	D505B	Outlet airbrick - Brown	● Female
	D505C	Outlet airbrick - Cotswold	● Female
	D505T	Outlet airbrick - Terracotta	● Female
	D505BK	Outlet airbrick - Black	● Female
	D501W	Outlet airbrick (damper) - White	○ Male
	D501B	Outlet airbrick (damper) - Brown	● Male
	D501C	Outlet airbrick (damper) - Cotswold	● Male
	D501T	Outlet airbrick (damper) - Terracotta	● Male
	D55015W	Outlet airbrick (damper) plus wall plate - White	○ Male
	D55015B	Outlet airbrick (damper) plus wall plate - Brown	● Male
	D4901W	Outlet gravity flap - White	○ Male
	D4901B	Outlet gravity flap - Brown	● Male
	D4901C	Outlet gravity flap - Cotswold	● Male
	D4901T	Outlet gravity flap - Terracotta	● Male
	D4903W	Outlet cowled damper - White	○ Male
	D4903B	Outlet cowled damper - Brown	● Male
	D4905W	Outlet louvred grille - White	○ Male
	D4905B	Outlet louvred grille - Brown	● Male
	D4905C	Outlet louvred grille - Cotswold	● Male
	D4905T	Outlet louvred grille - Terracotta	● Male
	F4905W	Louvred grille c/w flyscreen - White	○ Male
	F4905B	Louvred grille c/w flyscreen - Brown	● Male
	F4905C	Louvred grille c/w flyscreen - Cotswold	● Male

Note: Square grilles and cowls 154 x 154mm

Supertube 204 x 60mm

Duct


	ref	description	connection
	D510	Flat duct - 1 metre length	Duct
	D515	Flat duct - 1.5 metre length	Duct
	D3-2000	Flat duct - 2 metre length	Duct
	D520	Duct connector - Straight	Female
	D527	Duct connector - Straight (Damper)	Female
	D5B303	Duct connector - Universal	Male
	D550	Duct bend - Horizontal (90°)	Female
	D555	Duct bend - Horizontal (45°)	Female
	D545	Duct bend - Horizontal (Adjustable)	Female
	D560	Duct bend - Vertical (90°)	Female
	D575	Duct bend - Vertical (45°)	Female
	D582	Duct T piece - Horizontal	Female
	D518	Duct end cap	Male
	D115-5W	Duct wall plate - White	○ -
	D115-5B	Duct wall plate - Brown	● -
	D115-5C	Duct wall plate - Cotswold	● -
	D115-5T	Duct wall plate - Terracotta	● -

DOMUS



Supertube 204 x 60mm



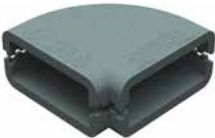

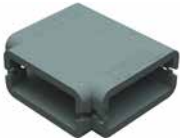

Duct Fixings

	ref	description	connection
	D522	Duct clip*	-



DOMUS



Duct Insulation

	ref	description	connection
	D10TP12	Insulation sheet - 1m x 1.2m	-
	TS510	Duct insulation - 1 metre length* (Box quantity: 8)	-
	TS550	Horizontal 90° bend duct insulation* (Box quantity:6)	-
	TS555	Horizontal 45° bend duct insulation* (Box quantity:6)	-
	TS582	Horizontal T piece duct insulation* (Box quantity:6)	-
	TS22	PVC coated steel fastening strap • 10 metre roll • White	-




Fire Compartment Integrity - FireBrake

	ref	description	connection
	D587	Intumescent duct connector • Meets NHBC requirements • Tested by BRE to BS476/EN 1366-3 • Provides 2 hours fire protection	Female
	MAS87	Acoustic intumescent mastic • 310ml • 4 hours fire rating	-

*Two components per fitting required.

Supertube 204 x 60mm



Duct Seals

	ref	description	connection
	DSEAL	Duct - Sealant	-
	D50TP45	Duct tape - Aluminium - 45m roll	-
	D123-4	Duct tape - PVC - 4.6m roll	-
	D123	Duct tape - PVC - 33m roll	-

DOMUS



Flexible Hose

	ref	description	connection
	D5305	Flexible hose - 0.5 metre length	Female
	D533	Flexible hose - 3 metre length	Female
	D581	Flexible hose connector	Duct

Internal Duct Terminals




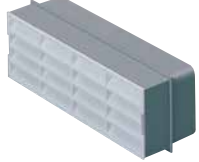

	ref	description	connection
	D540	Air valve - Adapter	Female/ Male
	D136-05	Air valve - Extract or supply	Male
	D136-25	Air valve - Extract or supply • Suspended Ceiling	Male
	D136FR-25M	Air valve - Extract or supply • Suspended Ceiling • Fire Rated	Male
	D5907W	Round diffuser - White	Male

Supertube 204 x 60mm

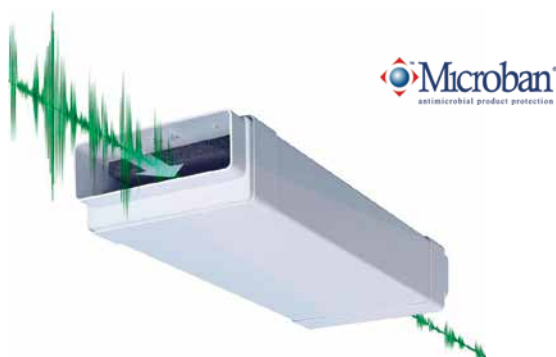
External Wall Duct Terminals

DOMUS



	ref	description	connection
	D957	Outlet airbrick adaptor 204 x 60mm to 220 x 90mm	Male/ Female
	D977	Outlet airbrick (220 x 90mm) to double airbrick adaptor	Male/ Female
	D905W	Outlet double airbrick - White	○ Female
	D905B	Outlet double airbrick - Brown	● Female
	D905C	Outlet double airbrick - Cotswold	● Female
	D905T	Outlet double airbrick - Terracotta	● Female
	D505W	Outlet airbrick - White	○ Female
	D505B	Outlet airbrick - Brown	● Female
	D505C	Outlet airbrick - Cotswold	● Female
	D505T	Outlet airbrick - Terracotta	● Female
	D505BK	Outlet airbrick - Black	● Female
	D501W	Outlet airbrick (damper) - White	○ Male
	D501B	Outlet airbrick (damper) - Brown	● Male
	D501C	Outlet airbrick (damper) - Cotswold	● Male
	D501T	Outlet airbrick (damper) - Terracotta	● Male

Duct Sound Attenuation (Microban Protected)



Features:

- Significantly reduces transmitted appliance noise and room-to-room cross-talk
- Excellent sound attenuating properties verified by the Sound Research Laboratory
- Contains Microban antimicrobial additive to ensure the ventilation system remains fresh for the lifetime of the system
- Facilitates user acceptance of continuous running of energy-efficient central ventilation systems
- Enables compliance with Building Regulations
- Low profile increases installation options when compared to traditional solutions
- Corrosion-proof, lightweight and easy to install
- European-wide protected design


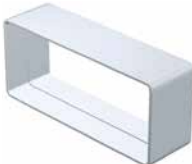






ref	description	connection
D5SL05M	Duct silencer - 0.5m length	Female
D5SL10M	Duct silencer - 1m length	Female
D5SL15M	Duct silencer - 1.5m length	Female

Megaduct 220 x 90mm

Duct

DOMUS



	ref	description	connection
	D910	Flat duct - 1 metre length	Duct
	D915	Flat duct - 1.5 metre length	Duct
	D4-2000	Flat duct - 2 metre length	Duct
	D920	Duct connector - Straight	Female
	D927	Duct connector - Straight (Damper)	Female
	D950	Duct bend - Horizontal (90°)	Female
	D955	Duct bend - Horizontal (45°)	Female
	D960	Duct bend - Vertical (90°)	Female
	D975	Duct bend - Vertical (45°)	Female
	D982	Duct T piece - Horizontal	Female
	D115-6	Duct wall plate	-

technical tips...


Try to use 45 degree bends in duct systems instead of 90 degree bends as they are up to 3 times more efficient.

Megaduct 220 x 90mm

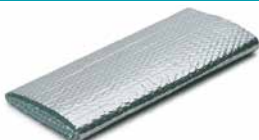
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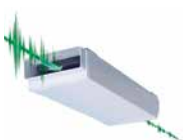
Duct Fixings

	ref	description	connection
	D922	Duct clip*	-



Duct Insulation

	ref	description	connection
	D10TP12	Insulation sheet - 1m x 1.2m	-

Duct Sound Attenuation

	ref	description	connection
	D9SL10	Duct silencer - 1m (See page 187 for further information)	Female

Fire Compartment Integrity - FireBrake

	ref	description	connection
	D987	Intumescent duct connector • Meets NHBC requirements • Tested by BRE to BS476/EN 1366-3 • Provides 2 hours fire protection	Female
	MAS87	Acoustic intumescent mastic • 310ml • 4 hours fire rating	-


Duct Seals

	ref	description	connection
	DSEAL	Duct - Sealant	-
	D50TP45	Duct tape - Aluminium - 45m roll	-
	D123-4	Duct tape - PVC - 4.6m roll	-
	D123	Duct tape - PVC - 33m roll	-

*Two components per fitting required.

Megaduct 220 x 90mm






Flexible Hose

	ref	description	connection
	D9305	Flexible hose - 0.5 metre length	Female
	D933	Flexible hose - 3 metre length	Female



DOMUS



Internal Duct Terminals

	ref	description	connection
	D961	Air valve - Adapter	Female/ Male
	D136-06	Air valve - Extract or supply	Male
	D136-26	Air valve - Extract or supply • Suspended Ceiling	Male
	D136FR-26M	Air valve - Extract or supply • Suspended Ceiling • Fire Rated	Male
	D6907W	Round diffuser - White	Male

External Wall Duct Terminals

	ref	description	connection
	D977	Outlet airbrick (220 x 90mm) to double airbrick adaptor	Male/ Female
	D905W	Outlet double airbrick - White	○ Female
	D905B	Outlet double airbrick - Brown	● Female
	D905C	Outlet double airbrick - Cotswold	● Female
	D905T	Outlet double airbrick - Terracotta	● Female

DOMUS

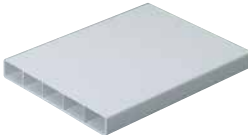







Polyvent

Air Movement

Polyvent 225 234 x 29mm


Duct

	ref	description	connection
	D20150	Flat duct - 1.5 metre length	Duct
	D20200	Flat duct - 2 metre length	Duct
	D2006	Duct connector - Straight	Female
	D2007	Duct bend - Horizontal (90°)	Female
	D2008	Duct bend - Horizontal (45°)	Female
	D2010	Duct bend - Vertical (90°)	Female
	D2011	Duct bend - Vertical (45°)	Female


DOMUS



Duct Fixings

	ref	description	connection
	D2014	Duct clip*	-



Duct Insulation

	ref	description	connection
	D10TP12	Insulation sheet - 1m x 1.2m	-

*Two components per fitting required.

Polyvent 225 234 x 29mm



Fire Compartment Integrity - FireBrake

	ref	description	connection
	D2087	Intumescent duct connector <ul style="list-style-type: none"> • Meets NHBC requirements • Tested by BRE to BS476/EN 1366-3 • Provides 2 hours fire protection 	Female
	MAS87	Acoustic intumescent mastic <ul style="list-style-type: none"> • 310ml • 4 hours fire rating 	-

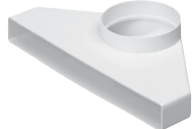



DOMUS



Duct Seals


	ref	description	connection
	DSEAL	Duct - Sealant	-
	D50TP45	Duct tape - Aluminium - 45m roll	-
	D123-4	Duct tape - PVC - 4.6m roll	-
	D123	Duct tape - PVC - 33m roll	-

Internal Duct Terminals

	ref	description	connection
	D2013	Air valve - Adapter	Male/ Female
	D136-04	Air valve - Extract or supply	Male
	D136-24	Air valve - Extract or supply <ul style="list-style-type: none"> • Suspended Ceiling 	Male
	D136FR-24M	Air valve - Extract or supply <ul style="list-style-type: none"> • Suspended Ceiling • Fire Rated 	Male

Polyvent 225 234 x 29mm



Internal Duct Terminals

	ref	description	connection
  	D4908F	Diffuser - Multi-directional grille with environment filter	Male
	D40AF	Accessories: Environmental filter	-
	D40AFP	Accessories: Pollen filter	-
	D4907W	Round diffuser - White	Male
	D4907CH	Round diffuser - Chrome	Male

DOMUS



External Wall Duct Terminals

	ref	description	connection
	D2016	Outlet airbrick to fascia adaptor	Female
	D2316W	Outlet airbrick (fascia) - White	○ Female
	D2316B	Outlet airbrick (fascia) - Brown	● Female
	D2316C	Outlet airbrick (fascia) - Cotswold	● Female
	D2316T	Outlet airbrick (fascia) - Terracotta	● Female
	D2316G	Outlet airbrick (fascia) - Grey	○ Female
	D2316BK	Outlet airbrick (fascia) - Black	● Female

technical tips...

- Remember to specify FireBrake products where duct is installed through fire compartment walls. Patented FireBrake offers up to 2 hours of fire protection, and is available as part of all Domus duct systems
- Where space is available use circular rigid duct for greater efficiency
- Did you know that the installation of condensation traps is recommended in both Building Regulations and NHBC Standards? If you would like to read more on Condensation Traps then please go to page 200 or call the Levanté technical department on 01302 765563

Polyvent 300 308 x 29mm


Duct

	ref	description	connection
	D30150	Flat duct - 1.5 metre length	Duct
	D30200	Flat duct - 2 metre length	Duct
	D3006	Duct connector - Straight	Female
	D3007	Duct bend - Horizontal (90°)	Female
	D3008	Duct bend - Horizontal (45°)	Female
	D3010	Duct bend - Vertical (90°)	Female
	D3011	Duct bend - Vertical (45°)	Female
	D3015	Duct Y piece	Female

DOMUS



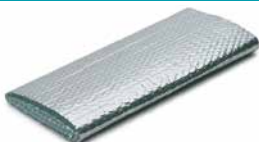
Duct Fixings

	ref	description	connection
	D2014	Duct clip*	-

*Two components per fitting required.

Polyvent 300 308 x 29mm



Duct Insulation

	ref	description	connection
	D10TP12	Insulation sheet - 1m x 1.2m	-



DOMUS



Fire Compartment Integrity - FireBrake

	ref	description	connection
	D3087	Intumescent duct connector <ul style="list-style-type: none"> • Meets NHBC requirements • Tested by BRE to BS476/EN 1366-3 • Provides 2 hours fire protection 	Female
	MAS87	Acoustic intumescent mastic <ul style="list-style-type: none"> • 310ml • 4 hours fire rating 	-

Duct Seals

	ref	description	connection
	DSEAL	Duct - Sealant	-
	D50TP45	Duct tape - Aluminium - 45m roll	-
	D123-4	Duct tape - PVC - 4.6m roll	-
	D123	Duct tape - PVC - 33m roll	-

technical tips...

Always attempt to position supply and extract grilles/valves in the ceiling and as far as possible from the door in order to provide maximum air circulation.

Polyvent 300 308 x 29mm



Internal Duct Terminals

	ref	description	connection
	DD040	Air valve - Adapter	Female/ Male
	D136-04	Air valve - Extract or supply	Male
	D136-24	Air valve - Extract or supply • Suspended Ceiling	Male
	D136FR-24M	Air valve - Extract or supply • Suspended Ceiling • Fire Rated	Male
	D4908F	Diffuser - Multi-directional grille with environment filter	Male
	D40AF	Accessories: Environmental filter	-
	D40AFP	Accessories: Pollen filter	-
	D4907W	Round diffuser - White	Male
	D4907CH	Round diffuser - Chrome	Male

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External Wall Duct Terminals

	ref	description	connection
	D3016	Outlet airbrick to fascia adaptor	Female
	D2316W	Outlet airbrick (fascia) - White	○ Female
	D2316B	Outlet airbrick (fascia) - Brown	● Female
	D2316C	Outlet airbrick (fascia) - Cotswold	● Female
	D2316T	Outlet airbrick (fascia) - Terracotta	● Female
	D2316G	Outlet airbrick (fascia) - Grey	○ Female
	D2316BK	Outlet airbrick (fascia) - Black	● Female

Easipipe 100 Ø100mm

Duct


	ref	description	connection
	D130-4	Telescopic round duct 0.25 - 0.45m length	-
	D135-4	Round duct - 0.35m length	Duct
	D1100-4	Round duct - 1m length	Duct
	D2100-4	Duct sleeve - 1m length	-
	D1200-4	Round duct - 2m length	Duct
	D493	Round duct connector - Straight	Male
	D494	Round duct connector - Straight (Damper)	Male
	D495	Round duct connector - Straight (Damper and wall plate)	Male
	D490	Round duct bend - Horizontal (90°)	Male
	D491	Round duct bend - Horizontal (45°)	Male
	D492	Round duct T piece - Horizontal	Male
	D499	Round duct Y piece	Male
	D144-4	Round duct wall plate	-

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Easipipe 100 Ø100mm


Duct Fixings

	ref	description	connection
	D496	Duct clip	-

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Condensation Control

	ref	description	connection
	D497	Round duct condensation trap with overflow (For technical guidance on this product see illustration on page 200)	Male/ Female

Duct Insulation

	ref	description	connection
	D10TP12	Insulation sheet - 1m x 1.2m	-
	TS510	Duct insulation - 1 metre length* (Box quantity: 8)	-
	TS550	Horizontal 90° bend duct insulation* (Box quantity:6)	-
	TS555	Horizontal 45° bend duct insulation* (Box quantity:6)	-
	TS582	Horizontal T piece duct insulation* (Box quantity:6)	-
	TS22	PVC coated steel fastening strap • 10 metre roll • White	-

*Two components per fitting required.

Condensation Trap Pipe Combinations

When a ventilation duct is installed in an unheated area, such as a cold loft space, condensation can form on the inside of the duct. This moisture can run down the duct and create a potential hazard, such as dripping onto the electrical connections of a fan or cooker hood.

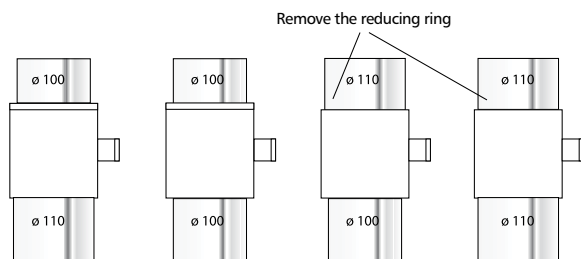


A condensation trap can be used to prevent this problem occurring. The trap is simply connected to the system as part of the vertical duct run and an internal gutter within the trap collects the moisture and then drains it out through a standard overflow-pipe to the outside. This ensures that the moisture cannot enter a potentially hazardous area. The condensation trap should be installed as low as possible, whilst still high enough to maintain a fall on the overflow-pipe.

The Condensation Trap comes complete with one adaptor, which fits onto the top end of the Trap to enable connection to a 100mm or 110mm pipe. At the bottom end of the Trap, vertical veins mean that 110mm pipe will sit inside the mouth of the opening, whilst 100mm will slide fully inside the veins, fitting snug against the bottom of the drainage cup.

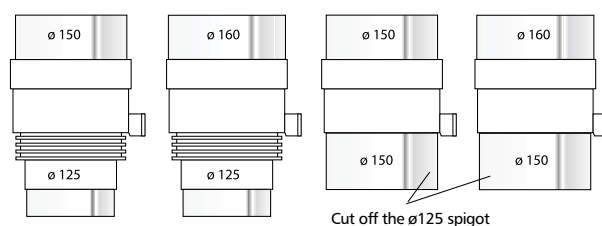
Ø100mm Round Duct Condensation Trap

ref: **D497**



Ø125mm Round Duct Condensation Trap

ref: **D5697**





Note: 125mm installations - exit the trap using 150mm ventilation pipe or 160mm soil pipe in order to reduce air flow resistance.



Easipipe 100 Ø100mm




Fire Compartment Integrity - FireBrake

	ref	description	connection
	D488	Intumescent duct connector <ul style="list-style-type: none"> • Meets NHBC requirements • Tested by BRE to BS476/EN 1366-3 • Provides 2 hours fire protection 	Female
	MAS87	Acoustic intumescent mastic <ul style="list-style-type: none"> • 310ml • 4 hours fire rating 	-



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Duct Seals

	ref	description	connection
	DSEAL	Duct - Sealant	-
	D50TP45	Duct tape - Aluminium - 45m roll	-
	D123-4	Duct tape - PVC - 4.6m roll	-
	D123	Duct tape - PVC - 33m roll	-

Flexible Hose



	ref	description	connection
	D361	Flexible hose - 1 metre length	Female
	D363	Flexible hose - 3 metre length	Female
	D366	Flexible hose - 6 metre length	Female
	D3615	Flexible hose - 15 metre length	Female
	D3645	Flexible hose - 45 metre length	Female
	D4210	Insulated hose - 10 metre length	Female

Flexible Hose Connectors

	ref	description	connection
	D380	Standard hose connector	Male
	D126-4	Hose connector - Threaded socket	Female
	D124-4	Hose connector - Threaded spigot	Male

Easipipe 100 Ø100mm

Aluminium Duct

	ref	description	connection
	D403203	Aluminium duct - 0.3m length	Female
	D403215	Aluminium duct - 1.5m length	Female
	D403230	Aluminium duct - 3m length	Female
	D127-4	Aluminium duct clip	-

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Insulated Hose and Aluminium Duct Fixings





	ref	description	connection
	D125-4	Hose clip (90 - 110mm)	-
	D125-UNI	Universal hose clip (65 - 215mm)	-

Internal Duct Terminals

	ref	description	connection
	D136-04	Air valve - Extract or supply	Male
	D136-24	Air valve - Extract or supply • Suspended Ceiling	Male
	D136FR-24M	Air valve - Extract or supply • Suspended Ceiling • Fire Rated	Male
	D4908F	Diffuser - Multi-directional grille with environment filter	Male
	D40AF	Accessories: Environmental filter	-
	D40AFP	Accessories: Pollen filter	-
	D4907W	Round diffuser - White	Male
	D4907CH	Round diffuser - Chrome	Male



Easipipe 100 Ø100mm

External Wall Duct Terminals

	ref	description	connection
	D4900W	Outlet gravity flap - White	○ Male
	D4900B	Outlet gravity flap - Brown	● Male
	D4900C	Outlet gravity flap - Cotswold	● Male
	D4900T	Outlet gravity flap - Terracotta	● Male
	D44900BK	Outlet gravity flap - Black	● Male
	D4902W	Outlet cowled damper - White	○ Male
	D4902B	Outlet cowled damper - Brown	● Male
	D4902C	Outlet cowled damper - Cotswold	● Male
	D4902T	Outlet cowled damper - Terracotta	● Male
	D44902BK	Outlet cowled damper - Black	● Male
	D4904W	Outlet louvred grille - White	○ Male
	D4904B	Outlet louvred grille - Brown	● Male
	D4904C	Outlet louvred grille - Cotswold	● Male
	D4904T	Outlet louvred grille - Terracotta	● Male
	D44904BK	Outlet louvred grille - Black	● Male
	F4904W	Louvred grille c/w flyscreen - White	○ Male
	F4904B	Louvred grille c/w flyscreen - Brown	● Male
	F4904C	Louvred grille c/w flyscreen - Cotswold	● Male
	F4904T	Louvred grille c/w flyscreen - Terracotta	● Male

Note: Square grilles and cowls 154 x 154mm

External Wall Duct Terminals

	ref	description	connection
	D4804W	Round louvred soffit vent - White	Male
	D4804B	Round louvred soffit vent - Brown	Male
	F4804W	Round soffit c/w flyscreen - White	Male
	F4804B	Round soffit c/w flyscreen - Brown	Male
	F4804C	Round soffit c/w flyscreen - Cotswold	Male
	F4804T	Round soffit c/w flyscreen - Terracotta	Male

External Roof Duct Terminals











	ref	description	connection
	D4411	Universal roof cowl	Male

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Easipipe 125 Ø125mm

Duct


	ref	description	connection
	D130-5	Telescopic round duct 0.25 - 0.45m length	-
	D135-5	Round duct - 0.35m length	Duct
	D1100-5	Round duct - 1m length	Duct
	D2100-5	Duct sleeve - 1m length	-
	D1200-5	Round duct - 2m length	Duct
	D593	Round duct connector - Straight	Male
	D594	Round duct connector - Straight (Damper)	Male
	D595	Round duct connector - Straight (Damper and wall plate)	Male
	D590	Round duct bend - Horizontal (90°)	Male
	D591	Round duct bend - Horizontal (45°)	Male
	D592	Round duct T piece - Horizontal	Male
	D599M	Round duct Y piece	Male
	D114-5	Round duct wall plate	-

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Easipipe 125 Ø125mm


Duct Fixings

	ref	description	connection
	D596	Duct clip	-

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Condensation Control

	ref	description	connection
	D5697	Round duct condensation trap with overflow (For technical guidance on this product see illustration on page 200)	Male/ Female



Duct Insulation

	ref	description	connection
	D10TP12	Insulation sheet - 1 m x 1.2m	-
	TS1100-5	Duct insulation - 1 metre length* (Box quantity: 8)	-
	TS590	90° bend duct insulation* (Box quantity:6)	-
	TS591	45° bend duct insulation* (Box quantity:6)	-
	TS592	Equal T piece duct insulation* (Box quantity:6)	-
	TS22	PVC coated steel fastening strap • 10 metre roll • White	-

*Two components per fitting required.

Easipipe 125 Ø125mm




Fire Compartment Integrity - FireBrake

	ref	description	connection
	588	Intumescent duct connector <ul style="list-style-type: none"> • Meets NHBC requirements • Tested by BRE to BS476/EN 1366-3 • Provides 2 hours fire protection 	Female
	MAS87	Acoustic intumescent mastic <ul style="list-style-type: none"> • 310ml • 4 hours fire rating 	-



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Duct Seals

	ref	description	connection
	DSEAL	Duct - Sealant	-
	D50TP45	Duct tape - Aluminium - 45m roll	-
	D123-4	Duct tape - PVC - 4.6m roll	-
	D123	Duct tape - PVC - 33m roll	-

Flexible Hose



	ref	description	connection
	D561	Flexible hose - 1 metre length	Female
	D563	Flexible hose - 3 metre length	Female
	D566	Flexible hose - 6 metre length	Female
	D5615	Flexible hose - 15 metre length	Female
	D5210	Insulated hose - 10 metre length	Female

Flexible Hose Connectors

	ref	description	connection
	D580	Standard hose connector	Male
	D126-5	Hose connector - Threaded socket	Female

Easipipe 125 Ø125mm


Aluminium Duct

	ref	description	connection
	D503203	Aluminium duct - 0.3m length	Female
	D503215	Aluminium duct - 1.5m length	Female
	D503230	Aluminium duct - 3m length	Female
	D127-5	Aluminium duct clip	-

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Insulated Hose and Aluminium Duct Fixings

	ref	description	connection
	D125-5	Hose clip (110 - 130mm)	-
	D125-UNI	Universal hose clip (65 - 215mm)	-

Internal Duct Terminals





	ref	description	connection
	D136-05	Air valve - Extract or supply	Male
	D136-25	Air valve - Extract or supply • Suspended Ceiling	Male
	D136FR-25M	Air valve - Extract or supply • Suspended Ceiling • Fire Rated	Male
	D5907W	Round diffuser - White	Male

technical tips...

Always seal duct joints to avoid condensate leakage and maintain optimal air-flow.

Easipipe 125 Ø125mm

External Wall Duct Terminals

	ref	description	connection
	D5900W	Outlet gravity flap - White	○ Male
	D5900B	Outlet gravity flap - Brown	● Male
	D5900C	Outlet gravity flap - Cotswold	● Male
	D5900T	Outlet gravity flap - Terracotta	● Male
	D5902W	Outlet cowled damper - White	○ Male
	D5902B	Outlet cowled damper - Brown	● Male
	D5902C	Outlet cowled damper - Cotswold	● Male
	D5902T	Outlet cowled damper - Terracotta	● Male
	D5904W	Outlet louvred grille - White	○ Male
	D5904B	Outlet louvred grille - Brown	● Male
	D5904C	Outlet louvred grille - Cotswold	● Male
	D5904T	Outlet louvred grille - Terracotta	● Male
	F5904W	Louvred grille c/w flyscreen - White	○ Male
	F5904B	Louvred grille c/w flyscreen - Brown	● Male
	F5904C	Louvred grille c/w flyscreen - Cotswold	● Male
	F5904T	Louvred grille c/w flyscreen - Terracotta	● Male

Note: Square grilles and cowls 200 x 200mm

External Roof Duct Terminals











	ref	description	connection
	D4411	Universal roof cowl	Male

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Easipipe 150 Ø150mm

Duct


	ref	description	connection
	D130-6	Telescopic round duct 0.25 - 0.45m length	-
	D135-6	Round duct - 0.35m length	Duct
	D1100-6	Round duct - 1m length	Duct
	D2100-6	Duct sleeve - 1m length	-
	D1200-6	Round duct - 2m length	Duct
	D693	Round duct connector - Straight	Male
	D694	Round duct connector - Straight (Damper)	Male
	D695	Round duct connector - Straight (Damper and wall plate)	Male
	D690	Round duct bend - Horizontal (90°)	Male
	D691	Round duct bend - Horizontal (45°)	Male
	D692M	Round duct T piece - Horizontal	Male
	D699M	Round duct Y piece	Male
	D114-6	Round duct wall plate	-

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Easipipe 150 Ø150mm


Duct Fixings

	ref	description	connection
	D696	Duct clip	-


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Condensation Control

	ref	description	connection
	D5697	Round duct condensation trap with overflow (For technical guidance on this product see illustration on page 200)	Male/ Female



Duct Insulation

	ref	description	connection
	D10TP12	Insulation sheet - 1m x 1.2m	-
	TS1100-6	Duct insulation - 1 metre length* (Box quantity: 8)	-
	TS690	90° bend duct insulation* (Box quantity:6)	-
	TS692	Equal T piece duct insulation* (Box quantity:6)	-
	TS22	PVC coated steel fastening strap • 10 metre roll • White	-

*Two components per fitting required.

Easipipe 150 Ø150mm




Fire Compartment Integrity - FireBrake

	ref	description	connection
	D688	Intumescent duct connector <ul style="list-style-type: none"> • Meets NHBC requirements • Tested by BRE to BS476/EN 1366-3 • Provides 2 hours fire protection 	Female
	MAS87	Acoustic intumescent mastic <ul style="list-style-type: none"> • 310ml • 4 hours fire rating 	-



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Duct Seals

	ref	description	connection
	DSEAL	Duct - Sealant	-
	D50TP45	Duct tape - Aluminium - 45m roll	-
	D123-4	Duct tape - PVC - 4.6m roll	-
	D123	Duct tape - PVC - 33m roll	-

Flexible Hose



	ref	description	connection
	D661	Flexible hose - 1 metre length	Female
	D663	Flexible hose - 3 metre length	Female
	D666	Flexible hose - 6 metre length	Female
	D6615	Flexible hose - 15 metre length	Female
	D6210	Insulated hose - 10 metre length	Female

Flexible Hose Connectors

	ref	description	connection
	D680	Standard hose connector	Male
	D126-6	Hose connector - Threaded socket	Female

Easipipe 150 Ø150mm


Aluminium Duct

	ref	description	connection
	D603203	Aluminium duct - 0.3m length	Female
	D603215	Aluminium duct - 1.5m length	Female
	D603230	Aluminium duct - 3m length	Female
	D127-6	Aluminium duct clip	-

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Insulated Hose and Aluminium Duct Fixings





	ref	description	connection
	D125-6	Hose clip (140 - 160mm)	-
	D125-UNI	Universal hose clip (65 - 215mm)	-

Internal Duct Terminals

	ref	description	connection
	D136-06	Air valve - Extract or supply	Male
	D136-26	Air valve - Extract or supply • Suspended Ceiling	Male
	D136FR-26M	Air valve - Extract or supply • Suspended Ceiling • Fire Rated	Male
	D6907W	Round diffuser - White	Male

Easipipe 150 Ø150mm

External Wall Duct Terminals

	ref	description	connection
	D6900W	Outlet gravity flap - White	○ Male
	D6900B	Outlet gravity flap - Brown	● Male
	D6900C	Outlet gravity flap - Cotswold	● Male
	D6900T	Outlet gravity flap - Terracotta	● Male
	D6902W	Outlet cowled damper - White	○ Male
	D6902B	Outlet cowled damper - Brown	● Male
	D6902C	Outlet cowled damper - Cotswold	● Male
	D6902T	Outlet cowled damper - Terracotta	● Male
	D6904W	Outlet louvred grille - White	○ Male
	D6904B	Outlet louvred grille - Brown	● Male
	D6904C	Outlet louvred grille - Cotswold	● Male
	D6904T	Outlet louvred grille - Terracotta	● Male
	F6904W	Louvred grille c/w flyscreen - White	○ Male
	F6904B	Louvred grille c/w flyscreen - Brown	● Male
	F6904C	Louvred grille c/w flyscreen - Cotswold	● Male
	F6904T	Louvred grille c/w flyscreen - Terracotta	● Male

Note: Square grilles and cowls 200 x 200mm

External Roof Duct Terminals

	ref	description	connection
	D4411	Universal roof cowl	Male

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Adapters

In-line Adapters

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	ref	description	connection
	D019	Round duct adapter Ø100 - 80mm	D/M
	D120	Round duct adapter Ø110 - 100mm	F/M
	D119	Round duct adapter Ø125 - 100mm	D/M
	D519	Round duct adapter Ø125 - 120mm	F/F
	D619	Round duct adapter Ø150 - 100mm	D/M
	D118	Round duct adapter Ø150 - 125mm	D/M
	D620	Round duct adapter Ø160 - 150mm	D/M
	D819	Round duct adapter Ø200 - 150mm	D/M
	D544	Space saving round duct adapter Ø125mm - 100mm	Male/Male
	D644	Space saving round duct adapter Ø150mm - 100 or 125mm	Male/Male
	D070	Straight to round duct adapter 110 x 54mm - Ø100mm	Female/ Duct
	D073	Straight to round duct adapter 204 x 60mm (single airbrick) - Ø100mm	Male/Male
	D570	Straight to round duct adapter 204 x 60mm - Ø125mm	Female/ Duct
	D970	Straight to round duct adapter 220 x 90mm - Ø150mm	Female/ Female
	D2005	Straight to round duct adapter 234 x 29mm - Ø100mm	Female/ Duct
	D3005	Straight to round duct adapter 308 x 29mm - Ø100mm	Female/ Duct
	D954	Straight to round duct adapter 227 x 133mm - Ø100/125/150mm	Female/ Male
	D071	Space saving straight to round duct adapter 110 x 54mm - Ø100mm	Female/ Male

Adapters

In-line Adapters

DOMUS



	ref	description	connection
	DD077	Straight duct adapter 204 x 60mm (single airbrick) - 110 x 54mm	Duct/Male
	D2016	Straight duct adapter 204 x 60mm (airbrick fascia) - 234 x 29mm	Female/Female
	D3016	Straight duct adapter 204 x 60mm (airbrick fascia) - 308 x 29mm	Female/Female
	D2332	Straight duct adapter 308 x 29mm - 234 x 29mm	Female/Female
	D957	Straight duct adapter 220 x 90mm - 204 x 60mm	Male/Female
	D958	Straight duct adapter 220 x 90mm - 204 x 60mm	Female/Female
	D977	Straight duct adapter 277 x 133mm (double airbrick) - 290 x 90mm	Male/Female

Plenums


	ref	description	connection
	D030	Duct plenum (Fixed socket) 110 x 54mm - Ø100mm	Female/Duct
	D040	Duct plenum (Fixed spigot) 110 x 54 - Ø100mm	Female/Male
	D440	Duct plenum (Fixed spigot) 204 x 60mm - Ø102mm	Female/Male
	D540	Duct plenum (Fixed spigot) 204 x 60mm - Ø125mm	Female/Male
	D640	Duct plenum (Fixed spigot) 204 x 60mm - Ø150mm	Female/Male
	D2013	Duct plenum (Fixed spigot) 234 x 29mm - Ø100mm	Female/Duct
	D3013	Duct plenum (Fixed spigot) 308 x 29mm - Ø100mm	Female/Duct
	D441	Duct plenum (Rotating offset spigot) 204 x 60mm - Ø100mm	Female/Male
	D541	Duct plenum (Rotating offset spigot) 204 x 60mm - Ø125mm	Female/Male
	D641	Duct plenum (Rotating offset spigot) 204 x 60mm - Ø150mm	Female/Male
	D941	Duct plenum (Rotating offset spigot) 220 x 90mm - Ø100mm	Female/Male
	D951	Duct plenum (Rotating offset spigot) 220 x 90mm - Ø125mm	Female/Male
	D961	Duct plenum (Rotating offset spigot) 220 x 90mm - Ø150mm	Female/Male

Ancillary Components



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Duct Fixings

	ref	description	dimensions
	D148A	Aluminium flat grille - Louvre	500 x 80mm


Door/Wall Ventilator

	ref	description	dimensions
	D793	Flat grille (Louvre) - White	271 x 95mm
	D796	Flat grille (Louvre) - White	271 x 171mm
	D893	Flat grille (Adjustment) - White	271 x 95mm
	D896	Flat grille (Adjustment) - White	271 x 171mm


Soil Ventilation

	ref	description	dimensions
	D4110W	Roof vent cowl - White	○ Ø110mm
	D4110B	Roof vent cowl - Brown	● Ø110mm
	D4110G	Roof vent cowl - Grey	● Ø110mm
	D4457	Roof weathering slate - Rubber/aluminium	Ø110mm
	D497	Round duct condensation trap with overflow (For further information, see illustration on page 200)	Ø100mm & Ø110mm


FireBrake Electrical

	ref	description
	D20C89	Ø20 x 300mm intumescent electrical conduit - Provides 2 hours fire protection
	D25C89	Ø25 x 300mm intumescent electrical conduit - Provides 2 hours fire protection

Flexible Hose Connector

	ref	description	dimensions
	D126-110	Hose connector - Threaded socket	Ø110mm

Insulated Hose Clip

	ref	description	dimensions
	D125-3	Hose clip	Ø80mm
	D125-8	Hose clip	Ø200mm

Ventilator and Extraction Kits

Background Ventilators

For use with Intermittent Extract and MEV systems.

General guidance:

Background ventilators should be located to avoid draughts, typically 1.7 m above floor level.

Background ventilators should be located in all rooms with external walls.

- At least 5000mm² total equivalent area of ventilation should be provided in each habitable room and 2500mm² equivalent area in each wet room
- For rooms with no external walls, detailed guidance is given in paragraphs 5.14 to 5.16 of Approved Document F

Approved Document F can be downloaded from www.polypipe.com/ventilation

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Approved Document F

	ref	description	contents
	D2404W ○	Ø100mm Background ventilator kit	D4904*
	D2404B ●	• Telescopic	D130-4
	D2404C ●	• Round	D4908F
	D2404T ●	• Diffuser	
	D40AF	Environmental filter	-
	D40AFP	Pollen filter	-
	D4SLWL	Wall Liner Acoustic Treatment	-
	D508W ○	Ø125mm Background ventilator kit	D5902W
		• Telescopic	P3-0175
		• Round	P4-0275
		• Damper	D114-5

Note: Kits are available with different terminal colours. Where kit terminals are available in different colours, the component code is marked with an asterisk (*).

High Rise Kits

For applications in high rise buildings.

	ref	description	colour
	D2447W ○	Ø100mm high rise kit	White
	D2447B ●	• Cowl	Brown
	D2447T ●	• Round	Terracotta
	D2647W ○	Ø150mm high rise kit	White
	D2647B ●	• Cowl	Brown
		• Round	

Ventilator and Extraction Kits

Cooker Hood Extraction

Cooker hood kits consist of rectangular duct so that they can be concealed when installed above kitchen cabinets.

To determine which cooker hood kit is required, select the kit with the appropriate connection for the appliance exhaust spigot.

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	ref		description	contents
	D212W	○	Cooker hood kit	D4903*
	D212B	●	• Cowled • Rectangular • Ø100mm connection	2 x DD010 DD020 DD030 D361 D115-4 D124-4 D126-4
	D214W	○	Cooker hood kit	D4903*
	D214B	●	• Cowled • Rectangular • 90° bend • Ø100mm connection	2 x DD010 DD020 DD030 D361 D115-4 D124-4 D126-4 DD050
	D227W	○	Cooker hood kit	D501*
	D227B	●	• Airbrick • Rectangular • Ø125mm connection	2 x D510 D520 D541 D544 D561 2 x D115-5* 2 x D126-5 D519
	D2653W	○	Cooker hood kit	D905*
	D2653B	●	• Double airbrick • Rectangular • 90° bend	D977 2 x D910 D920 D950 D961
	D2653T	●	• Ø150mm connection	2 x D126-6 D661
	D2655W	○	Cooker hood kit	D905W
			• Double airbrick • Rectangular • 90° bend • Ø150mm rigid connection	D977 2 x BLK910 D920 D950 D961 D1100-6

Note: Kits are available with different terminal colours. Where kit terminals are available in different colours, the component code is marked with an asterisk (*).








Ventilator and Extraction Kits

Tumble Dryer Extraction

To determine which tumble dryer kit is required, select the kit with the appropriate connection for the appliance exhaust spigot.

DOMUS



	ref	description	contents
	D240W ○	Tumble dryer kit • Cowled • Round • Ø100mm connection	D4902 D135-4 D144-4 D124-4
	D207W ○	Tumble dryer kit • Cowled • Rectangular • Ø100mm connection	D4903W D1-0400 D114-4 D126-4 DD071
	D202W ○	Tumble dryer kit • Cowled • Flexible hose	D4902* D361 D114-4
	D202B ●	• Round • Ø100mm connection	2 x D126-4
	D202-5W ○	Tumble dryer kit • Cowled • Flexible hose	D5902* D561 D114-5
	D202-5B ●	• Round • Ø125mm connection	2 x D126-5
	D202-6W ○	Tumble dryer kit • Cowled • Flexible hose	D6902* D661 D114-6
	D202-6B ●	• Round • Ø150mm connection	2 x D126-6
	D40205 ○	Tumble dryer kit • Gravity flap • Flexible hose • Round • Ø100mm connection	D4900 D361 D114-4 D2 x 126-4
	D2442-2 ○	Internal condensing kit • Ø100mm connection	D2441 D362 D126-4

Note: Kits are available with different terminal colours. Where kit terminals are available in different colours, the component code is marked with an asterisk (*).

The complete solution...

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Conditions of Sale

1. Interpretation

- (a) In these Conditions, the following words shall have the following meanings:
- Buyer** means the person, firm or company who places an Order with the Seller;
- Customer Agreement** means the Credit Account Application overleaf and any and all agreements made between the Buyer and the Seller for the supply of Goods.
- Goods** means any goods (or instalment or part thereof) howsoever ordered by the Buyer from the Seller;
- Guarantee** means the guarantee embedded in the Seller's Credit Account Application.
- Guarantor** means the person who enters into the Guarantee embedded in the Seller's Credit Account Application.
- Order** means any order sent to the Seller by the Buyer for the supply of Goods and/or Services;
- Seller** means City Electrical Factors Ltd (CRN: 336408) whose registered office is at 141 Farmer Ward Road, Kenilworth, Warwickshire, CV8 2SU;
- Services** means any services (or instalment or part thereof) howsoever ordered by the Buyer from the Seller.
- (b) A reference to a particular law is a reference to it as it is in force for the time being taking account of any amendment, extension, application or re-enactment and includes any subordinate legislation for the time being in force made under it.

2. Basis of Sale

- (a) An Order shall be accepted entirely at the discretion of the Seller and if accepted will only be accepted on the basis of these Conditions which shall (together with such conditions as may be expressly incorporated by reference herein or as may be agreed in writing by the Buyer and the Seller) form the entire agreement between the Buyer and Seller to the exclusion of any other conditions (including any terms or conditions which the Buyer purports to apply under any purchase order, confirmation of order, specification or other document).
- (b) Each Order which the Seller accepts (by way only of issue of the Seller's standard order acknowledgement form or on delivery of the Goods and/or performance of the Services (as the case may be) to the Buyer's address shown in the Order) shall constitute a separate legally binding contract between the Seller and the Buyer.
- (c) No addition, variation or substitution of these Conditions shall bind the Seller or form any part of any contract unless expressly accepted in writing by an authorised representative of the Seller.
- (d) The Seller's employees or agents are not authorised to make any representations with regard to the subject matter of any contract between the Seller and the Buyer. In entering into a contract with the Seller, the Buyer acknowledges that if it relies on any representation, advice or recommendation given by the Seller, its employees or agents to the Buyer as to the Goods and/or the Services (as the case may be) it does so entirely at the Buyer's own risk.

3. Specification

- (a) The Buyer shall be responsible to the Seller for ensuring the accuracy of the terms of any Order and specification submitted by the Buyer and for checking and ensuring the accuracy of any order acknowledgement form issued by the Seller.
- (b) The Buyer shall not be entitled to rely on any typographical, clerical or other error or omission in any sales literature, quotations, price-list, acceptance of offer, invoice or other document or information issued by the Seller which the Buyer acknowledges shall not form part of or be incorporated by reference into any contract between the Seller and the Buyer. Any such error or omission shall be subject to correction without any liability on the part of the Seller.
- (c) The Seller reserves the right to make changes in the specification of the Goods and/or the Services (as the case may be) which are required to conform with any applicable statutory or regulatory requirements and which do not materially affect quality or performance.
- (d) If the Goods are to be manufactured or any process is to be applied to the Goods by the Seller in accordance with a specification submitted by the Buyer, the Buyer shall indemnify the Seller against all loss, damages costs and expenses awarded against or incurred by the Seller in settlement of any claim for infringement of any patent, copyright, design, trade mark or other industrial or intellectual property rights of any other person which result from the Seller's use of the Buyer's specification.

4. Price of Goods and Services

- (a) The price for the Goods and/or the Services (as the case may be) shall be:
- (i) the Seller's price set out in the Seller's quotation issued to the Buyer; or
- (ii) in the absence of any such quotation, the Seller's standard price for the Goods or Services (subject to any discount in accordance with clause 4(g));
- Any prices quoted are valid for only 30 days from the date of quotation or until earlier acceptance by the Buyer, after which they may be altered by the Seller without giving notice to the Buyer.
- (b) Any quotation or estimate given by the Seller is an indication given in good faith and shall not become binding upon the Seller unless subsequently confirmed by the Seller in writing.
- (c) All prices quoted are based on information available at the date of quotation and the Seller reserves the right to vary prices at any time without notice prior to the date of issue of the relevant invoice and the price payable by the Buyer shall be the price applicable at the date of the invoice.
- (d) Unless otherwise stated, the price of the Goods and/or the Services (as the case may be) is exclusive of VAT and any other taxes and the cost of carriage and any other matters all of which the Buyer shall pay to the Seller in addition.
- (e) In the event of any increase in cost to the Seller which is beyond the control of the Seller (including (without limitation) any increases imposed upon the Seller by its own suppliers) and/or any variation or suspension of the work which is agreed to by the Seller upon the Buyer's request, or if the Buyer's instructions are incorrect or insufficient, the Seller shall be entitled to adjust the price of the Goods and/or the Services (as the case may be) to reflect the costs involved, and to adjust delivery dates as appropriate.
- (f) The Seller shall be entitled to bring an action for the price of the Goods and/or the Services (as the case may be) or part thereof notwithstanding that delivery and/or performance may not have taken place and/or that ownership in the Goods has not passed to the Buyer.
- (g) The Seller at its absolute discretion may decide to apply a discount in such amount as it may think fit to the price for the Goods and/or Services. The amount of any discount shall be recorded in the invoice issued to the Buyer.

5. Payment

- (a) The Seller shall be entitled to invoice the Buyer for the price of the Goods and/or the Services (as the case may be) at any time prior, on or following delivery of the Goods and/or performance of the Services (as the case may be) unless the Buyer wrongfully fails to take delivery of the Goods in which event the Seller shall be entitled to invoice the Buyer for the full amount at any time after the Seller has notified the Buyer that the Goods are ready for collection or (as the case may be) the Seller has tendered delivery of the Goods.

- (b) Until a Credit Account has been opened by the Seller in favour of the Buyer, the Buyer shall pay the price for the Goods and/or the Services (as the case may be) on or prior to delivery and (where applicable) upon receipt of the Seller's invoice.
- (c) The time of payment of the price shall be of the essence of any contract between the Seller and the Buyer.
- (d) A Buyer in whose favour a Credit Account has been opened shall, unless otherwise agreed in writing by the Seller, pay the price for the Goods and/or the Services (as the case may be) on or before the 28th day (or the next working day if the 28th day of a particular month is a Saturday or a Sunday) of the month following the date of the Seller's invoice.
- (e) No payment shall be deemed to have been received until the Seller has received cleared funds. All payments payable to the Seller under the contract between the Seller and the Buyer shall become due immediately on its termination despite any other provision.
- (f) Where payment is not made by the due date, regardless of its other remedies, the Seller shall be entitled to (i) cancel the contract between the Seller and the Buyer or suspend any further deliveries to the Buyer; and (ii) claim interest and/or compensation for reasonable debt recovery costs under the Late Payment of Commercial Debts (Interest) Act 1998 as amended and supplemented by the Late Payment of Commercial Debts Regulations 2002.
- (g) In the event that the Seller is, for whatever reason, unable to claim interest and/or compensation under the Late Payment of Commercial Debts (Interest) Act 1998 as amended and supplemented by the Late Payment of Commercial Debts Regulations 2002, the Seller reserves the right to charge the Buyer interest (both before and after any judgment) on the amount unpaid at the rate of 4% (four per cent) per annum above the base rate from time to time of the Bank of England, accruing on a daily basis until payment is made in full, and for such purposes, the Buyer and the Seller agree that such rate is reasonable and reflects a genuine pre-estimate of the loss that the Seller would incur as a result of any default by the Buyer to make payment on the due date.
- (h) If any payment is dishonoured or countermanded by the Buyer, the Seller shall have the right to charge the Buyer an administration fee of £25.00 (or such other fee as may be notified to the Buyer from time to time).
- (i) Any claim by the Buyer that an invoice rendered by the Seller is in the incorrect amount or contains any other error must be notified to the Seller in writing within 7 days of the date of the invoice. If the Buyer does not notify the Seller accordingly, the Buyer shall not be entitled to claim that the invoice is incorrect or contains any other error whatsoever.

6. Delivery

- (a) Delivery of the Goods shall be made by the Buyer collecting the Goods at the Seller's premises or, if some other place for delivery is agreed by the Seller, by the Seller delivering the Goods to that place.
- (b) Any delivery date quoted is given in good faith, but the Seller shall not be responsible for any delay in delivery of the Goods and/or the performance of the Services (as the case may be) howsoever caused. Time for delivery shall not be of the essence of the contract between the Seller and the Buyer and the Seller shall not be liable for any delay in delivery howsoever caused.
- (c) The Seller shall be entitled to make delivery by instalments (in which case each delivery shall constitute a separate contract), and to invoice the Buyer separately for each instalment. Failure by the Seller to deliver any one or more of the instalments in accordance with these Conditions or any claim by the Buyer in respect of any one or more instalments shall not entitle the Buyer to treat the contract as a whole between the Seller and the Buyer as repudiated.
- (d) Except in the case of delivery at the Seller's premises, the Buyer shall at its own expense use all reasonable endeavours to ensure that the Seller is able to freely access and make any deliveries to any other place for delivery at such time(s) as may be specified by the Seller. Any failure by the Buyer to comply with the provisions of this condition or to otherwise accept delivery (save upon such grounds for rejection as are specified in the law relating to the Sale of Goods) shall be deemed to be a breach of contract. Any additional costs incurred by the Seller in re-delivering the Goods (either to the originally agreed place for delivery or to such other place as may be reasonably requested by the Buyer) will be charged to the Buyer.
- (e) The quantity of any consignment of Goods as recorded by the Seller upon despatch from the Seller's premises shall be conclusive evidence of the quantity received by the Buyer on delivery unless the Buyer can provide conclusive evidence proving the contrary.
- (f) Notwithstanding the provisions of condition 8(e), the Seller shall not be liable for any under-delivery of Goods in whole or in part (even if caused by the Seller's negligence) unless the Buyer gives written notice to the Seller of the under-delivery within 48 hours of the date when the Goods are delivered to the Buyer (as recorded by the Seller) or, if there is no such record, when the Goods would in the ordinary course of events have been received. Any liability of the Seller for under-delivery of the Goods shall be limited to replacing the Goods within a reasonable time or issuing a credit note at the pro rata contract rate against any invoice raised for such Goods.

7. Risk and Title

- (a) Risk of damage to or loss of the Goods shall pass to the Buyer at the time of delivery.
- (b) Notwithstanding delivery and the passing of risk in the Goods, or any other provisions in these Conditions, ownership in the Goods shall not pass to the Buyer until the Seller has received in full (in cash or cleared funds) all sums due to it in respect of the Goods and all other sums which are or which become due to the Seller from the Buyer on any account.
- (c) Until ownership of the Goods has passed to the Buyer in accordance with these Conditions, the Buyer shall:
- (i) hold the Goods on a fiduciary basis as the Seller's bailee;
- (ii) store the Goods (at no cost to the Seller) separately from all other Goods of the Buyer or any third party in such a way that they remain readily identifiable as the Seller's property;
- (iii) not destroy, deface or obscure any identifying mark or packaging on or relating to the Goods;
- (iv) maintain the Goods in satisfactory condition insured on the Seller's behalf for their full price against all risks to the reasonable satisfaction of the Seller (and produce the policy of insurance to the Seller on request); and
- (v) hold the proceeds of the insurance referred to in condition 7(c) (iv) on trust for the Seller and not mix them with any other money, nor pay the proceeds into an overdrawn bank account.
- (d) The Buyer may resell the Goods before ownership has passed to it solely on the following conditions:
- (i) any sale shall be effected in the ordinary course of the Buyer's business at full market value and the Buyer shall hold such part of the proceeds of sale as represent the amount owed by the Buyer to the Seller on behalf of the Seller and the Buyer shall immediately account to the Seller accordingly; and
- (ii) any such sale shall be a sale of the Seller's property on the Buyer's own behalf and the Buyer shall deal as principal when making such a sale.
- (e) The Buyer's right to possession of the Goods shall terminate immediately if:
- (i) the Buyer has a bankruptcy order made against him or makes an arrangement or composition with his creditors, or otherwise takes the benefit of any statutory provision for the time being in force for the relief of insolvent debtors, or (being a body corporate) convenes a meeting of creditors (whether formal or informal), or enters into liquidation (whether voluntary or compulsory) except a solvent voluntary liquidation for the purpose only of reconstruction or amalgamation, or has a

- receiver and/or manager, administrator or administrative receiver appointed of its undertaking or any part thereof, or documents are filed with the court for the appointment of an administrator of the Buyer or notice of intention to appoint an administrator is given by the Buyer or its directors or by a qualifying floating charge holder (as defined in paragraph 14 of Schedule B1 to the Insolvency Act 1986), or a resolution is passed or a petition presented to any court for the winding-up of the Buyer or for the granting of an administration order in respect of the Buyer, or any proceedings are commenced relating to the insolvency or possible insolvency of the Buyer; or
- (ii) the Buyer suffers or allows any execution, whether legal or equitable, to be levied on his/its property or obtained against him/it, or fails to observe or perform any of his/its obligations under the Contract or any other contract between the Seller and the Buyer, or is unable to pay its debts within the meaning of section 123 of the Insolvency Act 1986 or the Buyer ceases to trade; or
 - (iii) the Buyer encumbers or in any way charges any of the Goods.
 - (f) The Buyer grants the Seller, its agents and employees an irrevocable licence at any time to enter any premises where the Goods are or may be stored in order to inspect them, or, where the Buyer's right to possession has terminated, to recover them.
 - (g) Where the Seller is unable to determine whether any Goods are the goods in respect of which the Buyer's right to possession has terminated, the Buyer shall be deemed to have sold all goods of the kind sold by the Company to the Buyer in the order in which they were invoiced to the Buyer.
 - (h) On termination of the contract between the Seller and the Buyer, howsoever caused, the Seller's (but not the Buyer's) rights contained in this condition 7 shall remain in effect.
 - (i) Following the transfer of ownership of the Goods to the Buyer in accordance with these Conditions, the Buyer shall (where applicable) (i) be responsible for financing the collection, treatment, recovery and environmentally sound disposal of all WEEE (as hereinafter defined) arising or deriving from the Goods; and all WEEE arising or deriving from goods placed on the market prior to 13 August 2005 where such goods are to be replaced by the Goods and the Goods are of an equivalent type or are fulfilling the same function as that of such goods; (ii) comply with all additional obligations placed upon the Buyer by the Waste Electrical and Electronic Equipment Regulations 2006 ("the WEEE Regulations") by virtue of the Buyer accepting the responsibility set out in section (i) above; (iii) provide the Buyer's WEEE compliance scheme operator with such data, documents, information and other assistance as such compliance scheme operator may from time to time reasonably require to enable such compliance scheme operator to satisfy the obligations assumed by it as a result of the Buyer's membership of such scheme; and (iv) be responsible for all costs and expenses arising from and relating to its obligations set out in this paragraph (except in respect of Goods which constitute gas discharge lamps, in which case an upfront and 'visible' charge will have been levied at the outset and the Buyer undertakes to contact the compliance scheme operator of the gas discharge lamp branded manufacturer to arrange compliance with the WEEE Regulations on that basis). Terms used in this Condition shall have the meaning ascribed thereto in the WEEE Regulations.

8. Additional Terms of Guarantee

- (a) All sums of money which may not be recoverable from the Guarantor on the footing of the guarantee whether by reason of legal limitation on the Buyer or any other circumstance shall nevertheless be recoverable from the Guarantor as principal debtor and shall be paid on demand.
- (b) A demand for payment or any other notice to the Guarantor may be made by any authorised officer of the Seller by letter addressed to the Guarantor and delivered to its registered office or residential address and if sent by post shall be deemed to have been made at noon the following day after the letter was posted.
- (c) This Guarantee shall be a continuing security and the Guarantor shall remain liable for all sums due by the Buyer notwithstanding any event which absolves the Buyer from liability. The Guarantor shall remain liable notwithstanding any alteration to the Customer Agreement or any terms applying thereto, which may be agreed between the Seller and the Buyer.
- (d) Until payment in full by the Guarantor of all sums due to the Seller by the Buyer, the Guarantor shall not be entitled to participate in any security held or money received by the Seller on account of such balance.
- (e) This Guarantee may be terminated and the Guarantor's liability shall be fixed at the expiration of one calendar month after receipt by the Seller from the Guarantor of notice in writing to terminate it. It shall be lawful for the Seller to continue the account with the Buyer notwithstanding such termination and the Guarantor shall remain liable for any amount due at the date of termination of this Guarantee.
- (f) The Guarantor may be released absolutely from the Guarantee upon written application to the Seller. Any such release shall be at the Seller's absolute discretion and shall be on such terms including as to the date of release that the Seller may specify. Any settlement discharge or release between the Guarantor and the Seller shall be conditional upon no security or payment to the Seller by the Buyer or any other person being avoided or reduced due to insolvency laws or otherwise.
- (g) The Seller may at any time without giving notice to or obtaining the consent of the Guarantor refuse or grant further credit to the Buyer for any period and compound with give time for payment grant other indulgence or make any other arrangements with the Buyer, give up modify exchange or abstain from perfecting or taking advantage of or enforcing any security guarantee and discharge any parties thereto and realise any securities in such manner as the Seller may think expedient.
- (h) All costs charges and expenses incurred by the Seller in obtaining payment of the moneys secured under this guarantee (and so that any taxation of the Seller's costs charges and expenses shall be on a full indemnity basis) shall be recoverable from the Guarantor as a debt.

9. Warranties and Liability

- (a) The Seller warrants that, except in relation to intellectual property rights of third parties, it has good title to the Goods and (subject to the conditions set out below) the Goods shall correspond with their written specification (if any) at the time of delivery and will be free from material defects in materials and workmanship for a period of 12 months or separately stated period from delivery, provided that the Seller shall be under no liability:
 - (i) in respect of any defect arising from any drawing, design, specification or stipulation of the Buyer; or
 - (ii) in respect of any defect or lack of performance arising from fair wear and tear, wilful damage, negligence, abnormal working conditions, failure to follow Seller's instructions, or misuse, alteration or repair of the Goods without the Seller's approval; or
 - (iii) in respect of parts or materials not manufactured by the Seller, in respect of which the Buyer shall only be entitled to the benefit of any warranty or guarantee which is given by the manufacturer of the Seller; or
 - (iv) if the full price for the Goods has not been paid by the due date for payment.
- (b) The Seller warrants that the Services will be provided using reasonable care and skill and, as far as reasonably possible, in accordance with the contract between the Seller and the Buyer.
- (c) Subject as expressly provided in these Conditions, and except where the Goods and/or Services (as the case may be) are supplied to a person dealing as a consumer (within the meaning of the Unfair Contract Terms Act 1977), all warranties, conditions or other terms implied by statute or common law are excluded to the fullest extent permitted by law.

- (d) Where the Goods and/or the Services (as the case may be) are supplied under a consumer transaction (as defined by the Consumer Transactions (Restrictions on Statements) Order 1976) the statutory rights of the Buyer are not affected by these Conditions.
- (e) Any claim by the Buyer arising from any defect in the quality or condition of the Goods or their failure to correspond with the agreed specification shall (whether or not delivery is refused by the Buyer) be notified to the Seller in writing within 7 days of delivery or (where the defect or failure was not apparent on reasonable inspection) within a reasonable time of the defect or failure becoming apparent. If delivery is not refused, and the Buyer does not notify the Seller accordingly, the Buyer shall not be entitled to reject the Goods and the Seller shall have no liability for such defect or failure, and the Buyer shall be bound to pay the contract price as if the Goods had been delivered in accordance with the contract between the Seller and the Buyer.
- (f) Where the Seller accepts a claim made by the Buyer in respect of the Goods made in accordance with these Conditions, the Buyer's right shall be to a full or partial credit note (in relation to Goods purchased on credit account) full or partial refund (in relation to Goods purchased by cash) or replacement of the Goods (or the part(s) in question), at the Seller's option, but the Seller shall have no further liability to the Buyer.
- (g) Except in respect of death or personal injury caused by the Seller's negligence, the Seller shall not be liable to the Buyer by reason of any representation (unless fraudulent), or any implied warranty, condition, or other term, or any tortious act (including negligence) or any duty at common law, or under the express terms of the contract between the Seller and the Buyer, or in any manner whatsoever:-
 - (i) for any indirect, special or consequential loss or damage;
 - (ii) for any economic loss including loss of profits, loss of business, depletion of goodwill and/or similar losses, loss of anticipated savings, loss of goods, loss of contract, loss of use; or loss of / or corruption of data or information, howsoever caused and even if foreseeable by the Seller; which in either case may arise out of, or in connection with the supply of the Goods and/or the Services or their use or resale by the Buyer (and whether caused by the negligence of the Seller, its employees or agents or otherwise) save as may be expressly provided in these Conditions.
- (h) The entire liability of the Seller under or in connection with the contract between the Seller and the Buyer shall not exceed the price of the Goods and/or the Services (as the case may be) save as expressly provided in these Conditions.
- (i) Any repair, replacement or refund of any monies made by the Seller to the Buyer shall not under any circumstances be deemed to be an admission of any liability on the part of the Seller to the Buyer (or any third party), and shall be without prejudice to the rights of the Seller which the Seller hereby reserves in full should it make any such repairs, replacements or refunds of monies.
- (j) The Seller shall not be liable to the Buyer, or be deemed to be in breach of contract by reason of any delay in performing, or any failure to perform any of the Seller's obligations in relation to any Goods and/or Services (as the case may be) if the delay or failure is due to any cause beyond the Seller's reasonable control.

10. Design and Drawings

- (a) All figures, statements, advice, recommendations, drawings, designs, suggestions and specifications contained or referred to in any documents supplied by the Seller to the Buyer are given in good faith, but shall be approximate only, and shall not (unless the Seller specifically warrants the same in writing) be warranted to be accurate. All such matters should be checked and verified for accuracy and suitability by the Buyer, and accordingly the Seller accepts no liability or responsibility whatsoever in relation to such matters unless specifically warranted in writing in the manner referred to above.
- (b) The Seller will make available information required in relation to the design, construction and testing of the Goods as is reasonably necessary for the Buyer to take appropriate steps to see that the Goods will be, when installed, safe and not constitute a risk to the health of any person provided always that the Buyer shall indemnify, and keep indemnified, the Seller against all claims, costs, actions, damages or liabilities resulting directly or indirectly (including economic and consequential loss) for any claim brought against the Seller arising out of the use of the Goods.

11. Termination/Suspension

- (a) The Buyer shall not be entitled to cancel the contract between the Seller and the Buyer and if the Buyer purports to do so it shall indemnify the Seller for all losses, costs and expenses incurred by the Seller in relation to the contract.
- (b) Without prejudice to any other right or remedy, the Seller shall be entitled to suspend forthwith further performance and/or terminate contractual relations with the Buyer without any liability to the Buyer if the Buyer:
 - (i) is in breach of any of these Conditions or (in the absolute opinion of the Seller) is likely to breach any Condition herein; or
 - (ii) becomes insolvent, has a receiver appointed over the whole or any part of its assets, enters into any compound with creditors, or has an order made or resolution passed for it to be wound up (otherwise than in furtherance of a scheme for amalgamation or reconstruction) or if the ownership or control of it shall pass into the hands of any other legal person, or an event analogous occurs in respect of the Buyer in any jurisdiction to which the Buyer is subject.

12. General

- (a) The Seller is a member of a group of companies and accordingly the Seller may perform any of its obligations or exercise any of its rights hereunder by itself or through any other member of its group.
- (b) The Seller shall be entitled to subcontract the whole or any part of its obligations under the contract between the Seller and the Buyer to any third party which it may at its absolute discretion determine but any subcontract shall not relieve the Seller of its obligations hereunder.
- (c) Any notice required or permitted to be given by either party to the other under these Conditions shall be given in writing and addressed to the other party at its registered office, principal place of business or at such other address as may be notified to the other party from time to time.
- (d) No waiver by the Seller of any breach of contract by the Buyer shall be considered a waiver of any subsequent breach of the same or any other provision.
- (e) If any term of these Conditions prove illegal or unenforceable in whole or part, such term shall be deemed excised from these conditions without effect upon the validity of the remainder of these Conditions.
- (f) A person who is not a party to the contract between the Seller and the Buyer has no right under the Contracts (Rights of Third Parties) Act 1999 to enforce or enjoy the benefit of any term of such contract.
- (g) In addition to these Conditions of Sale, Orders placed via the Seller's website shall be subject to any legal terms and notices published there by the Seller.
- (h) These Conditions and the contract between the Buyer and Seller shall be governed by the laws of England, and the English Courts shall have exclusive jurisdiction.

Notes

