

2019

Tempadair Product Catalogue

Issue 6 - 2019



Tempadair is a group which offers a wide range of heating and ventilation products which include wall mounted convection heaters, wall mounted fan heaters, short and medium wave infrared heaters, industrial oscillating fans, ceiling sweep fans, agricultural fans and an extensive range of light industrial fans.

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TC250 Range - Ceiling Mount Extractor Fan

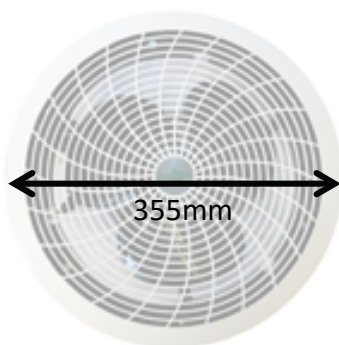
Key Features

- Quiet operation.
- Ball bearing motor.
- Easy cleaning.
- Removable grille.

Tempadair TC250

- This fan has a stylish design with an easy to clean, removable white grille. This fan can be used in kitchens, bathrooms or other areas of up to 20m³.
- Fan should not be installed over a direct splash area or direct heat and needs clearance of 30cm above the blades for optimum functioning. The fan is not suitable for use with ducting and can extract directly into the ceiling void, provided that air is able to escape to the atmosphere.

Please note: do not install in wall or window, bearings are not designed to handle vertical installation.



Specifications

Cover size:	355mm dia.
Hole size:	290mm dia.
Blade size:	250mm dia.
Airflow:	300m ³ /h
Voltage:	220V/50Hz
Motor size:	38 Watts

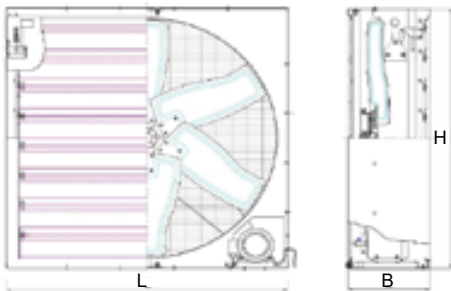
GLF Range - Belt-Driven Propeller Fans

Key Features

- High air flow.
- High efficiency propeller design.
- Low noise & vibration. Supplied with shutters.
- Available in 220V or 380V.

Operation

- The propeller is attached on a large diameter pulley which is mounted to support frame on ball bearings and is driven by a V-belt.
- The pulley ratio allows for low propeller rpm, ensuring high efficiency, low noise levels and low energy costs.
- Shutter is opened and closed automatically by fan operation.



Construction

Fan Housing

- Outer casing and inner venture plate are made from galvanized steel.
- The shutter is made from galvanized steel, and all shutter blades are linked together to ensure equal openings.
- Shutter bearings do not require any maintenance.
- Threaded inserts are fitted to sides of outer casing for installation.

Propeller

- Aluminium blades are fastened to central hub and pulley made from die-cast aluminium.
- Statically and dynamically balanced to ensure low noise and vibration.



Motor

- Foot mounted, cast iron motor.
- Three phase 380V/50Hz or single phase 220V/50Hz, IP54, Class F insulation.

Applications

- The GLF high volume fan is used for extraction and/or circulation high volumes of air in large buildings where good ventilation is essential, such as:
 - Commercial: warehouses, supermarkets, stations, halls.
 - Industrial: factories, workshops, chemical plants.
 - Agricultural: greenhouses, poultry and pig farming.

Specifications

Fan model	Fan dia. (mm)	Impeller (rpm)	Airflow (m³/h)	Sound (dBA)	Motor (kW)	Voltage (V)	Weight (kg)	Dimensions (mm)		
								L	H	W
GLF950:	950	450	18500	60	0.55	380/50/3 220/50/1	55	1060	1060	400
GLF1250:	1250	450	38500	65	1.1	380/50/3 220/50/1	85	1380	1380	400

TPM Range - Plate Mounted Propeller Fans

Operation

- The propeller blades are attached to the body of the external rotor motor and is balanced as a complete unit.
- A terminal box is provided on the back of the motor which allows for rapid, reliable and easy electrical connection.
- Epoxy powder coated inlet guard fitted as standard.

Propeller

- Pressed steel blades are attached to the body of the motor and balanced as a complete unit using dynamic single plane balancing.
- Blade geometry has been selected to provide a volume/pressure characteristics to suit both OEM heat transfer and HVAC applications.



Construction

Fan Housing

- Mounting plate is manufactured from pressed steel and is epoxy powder coated to give an attractive and durable finish.
- There are four fixing points on each corner of the plate for fast and easy mounting.

Motor

- Developed to meet the challenging requirements to suit industrial applications and provide a low profile fan solution.
- Bearings are pre-lubricated with high performance grease and sealed-for-life, eliminating any need for maintenance.
- Single phase 220V/50Hz, IP54, Class F insulation.
- **Note:** 380V will be available at a later stage.

Applications

The TPM plate mounted fan is used for extracting volumes of air in medium-sized buildings where neat, low profile appearance is essential:

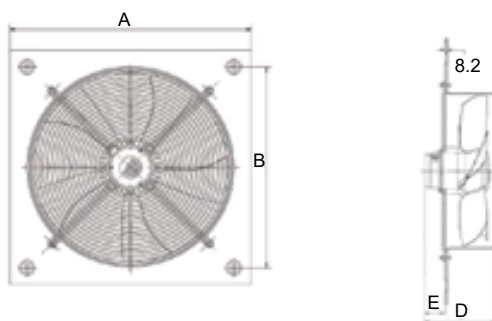
- Commercial: shops, store rooms, stations.
- Industrial: factories, workshops, chemical plants.
- Agricultural: chicken farming, pig farming.

Performance & Technical Specifications

Fan Details					Fan Performance										Electrical Data	
Dia. (mm)	Poles	Part no. 220V	RPM	Sound level dB(A)	m³/s @Pa (static)										Rating	220V
					0	10	25	50	75	100	125	150	200	kW	F.L.A	
250	4	TPM25041	1440	55	0.28	0.27	0.26	0.20	0.19	0.13	-	-	-	0.06	0.3	
315	4	TPM31541	1440	57	0.50	0.47	0.42	0.32	0.21	-	-	-	-	0.08	0.36	
350	4	TPM35041	1440	64	0.88	0.86	0.85	0.83	0.79	0.72	0.61	-	-	0.15	0.7	
400	4	TPM40041	1440	68	1.17	1.14	1.08	1.01	0.90	0.78	0.62	-	-	0.19	0.8	
450	4	TPM45041	1440	70	1.53	1.50	1.46	1.33	1.18	0.90	-	-	-	0.32	1.45	
500	4	TPM50041	1440	72	1.73	1.72	1.68	1.56	1.35	1.11	0.78	-	-	0.4	1.75	
550	4	TPM55041	1440	75	2.30	2.28	2.25	2.14	1.94	1.72	1.44	1.11	-	0.5	2.5	

TPM Range - Plate Mounted Propeller Fans

Dimensions (mm)



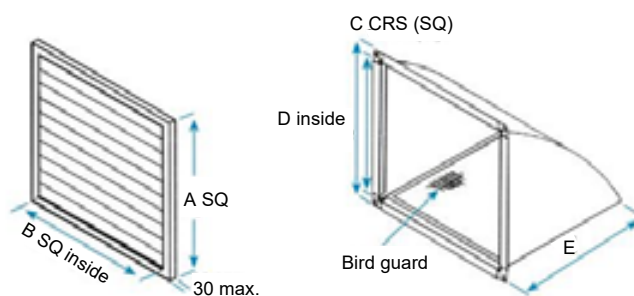
Fan size	A	B	D	E	Hole in wall (dia.) (mm)	Carton size (mm)	Weight
250	380	330	130	50	270	400x180	4
315	430	380	140	50	320	450x190	6
350	480	430	160	50	370	500x230	9
400	530	480	170	50	420	550x230	10
450	580	530	185	50	470	600x230	14
500	630	580	185	50	520	650x230	17
550	680	630	200	50	570	700x240	18
630	760	710	215	50	650	780x260	20

Ancillaries

Louvre shutter



Wall cowl



Fan size	Louvre Shutter			Wall Cowl					
	Inside SQ	Outside SQ	Part no.	Inside SQ	Outside SQ	D	C	E	Part no.
250-350	399	489	10212	399	489	375	419	399	10203
400-450	496	586	10214	496	586	466	516	496	10204
500-550	604	694	10216	604	694	568	624	604	10205

PVT Range - Portable Fan with Flexi Duct

Key Features

This portable fan is highly efficient, low noise, easy to move and convenient to use in light industrial applications e.g. where a person is busy working on a project. The ducting can be directed away from the source or where the air is needed.

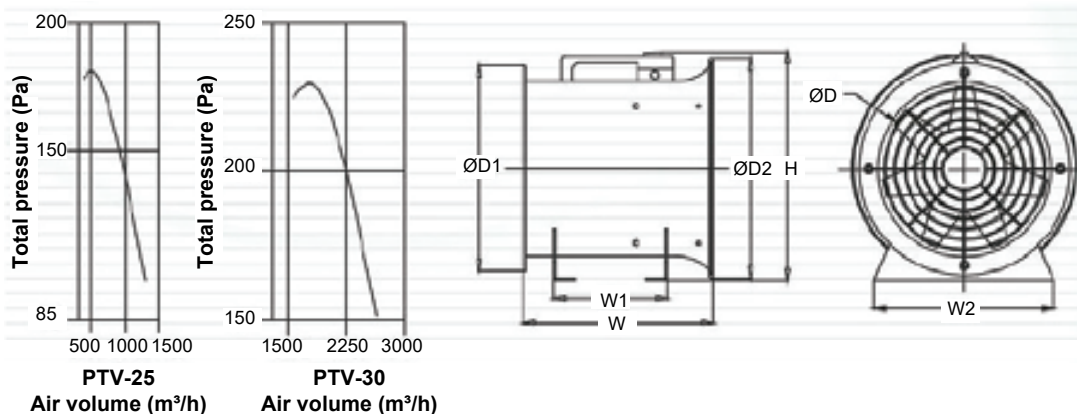


Fan supplied with 5m duct complete.

Construction

- The PVT range is constructed from mild steel with a power coated finish.
- Supplied with a safety guard and handle for easy movement.
- The PVT fan stands on rubber mounting feet, which minimises vibration and prevents the fan from moving around.
- Fan supplied in 220V - 240VAC.

Performance Curve



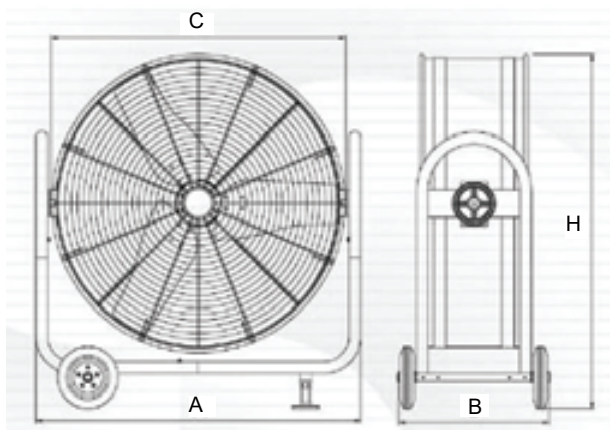
Specifications

Model	Size (mm)	Power (W)	RPM (r/min)	Air volume (m³/h)	Pressure (pa)	Noise dB(A)	D (mm)	D1 (mm)	D2 (mm)	W (mm)	W1 (mm)	W2 (mm)	H (mm)
PVT-25	250	180	2800	1980	250	70	240	266	290	300	190	259	355
PVT-30	300	380	2800	3420	350	80	285	326	350	325	220	300	410
PVT-40	400	1100	2800	7680	520	90	400	434	450	400	285	412	484

HVF Range - Portable Fan on Wheels

Portable HVF Fans

- Portable propeller type axial fan mounted on a trolley frame. Fan is supplied with cord and plug. Available in 220V single phase only.
- Designed with wheels and convenient to move.
- Optimized aluminium designed blade.
- Three speeds and adjustable blowing angle (more than 360 degrees).
- Built-in thermal protector and closed guard keep the fan safe to use.
- It's the ideal appliance for cooling and ventilating in factory, mining industry, garage and other public places.



- Colours: HVF65 and HVF75 supplied in black.
HVF90 and HVF105 supplied in yellow.

Specifications

Model	Dimensions (mm)	Size A/B/C/H	Voltage (V)	Weight (kg)	Setting	Power (W)	Speed (RPM)	Air volume (m ³ /h)	Noise dB(A)
HVF65	650	810/ 290/ 740/ 830	220	24.5	1	142	750	8580	55
	-	-	-	-	2	160	850	10440	60
	-	-	-	-	3	187	910	13200	65
HVF75	750	910/ 290/ 840/ 920	220	28.5	1	175	750	12840	58
	-	-	-	-	2	195	850	16200	67
	-	-	-	-	3	240	910	18120	68
HVF90L	900	1060/ 390/ 980/ 1140	220	44	1	520	750	21000	65
	-	-	-	-	2	650	850	27600	75
HVF105L	1050	1230/ 390/ 1120/ 1290	220	49	1	620	750	24600	65
	-	-	-	-	2	750	850	32400	75

Oscillating Range - 450mm Light Commercial Fans

(Pedestal & Wall Fans)

Light Commercial

It's the ideal appliance for cooling and ventilating at home, office and store use, etc.

- These fans are designed for domestic or light commercial use and are not rated for continuous running.
- 3 Streamline pressed steel blades.
- Adjustable pitch angle.
- Three speeds, oscillation angle adjustable.
- Simple and easy operation.
- Oscillation controlled by durable motor.
- Motor overheat protection for long service life and safety.
- 220V - 240V AC.
- Stand height:



Packaging

Model:	Dimensions H x W x D (mm)	Weight (kg)
45TW	505 x 270 x 550	7.2
45TS	505 x 335 x 510	9.5



Specifications

Model	Stage 1			Stage 2			Stage 3		
	Power (W)	Speed (RPM)	Air volume (m³/s)	Power (W)	Speed (RPM)	Air volume (m³/s)	Power (W)	Speed (RPM)	Air volume (m³/s)
45TS (Pedestal 450mm dia.)	75	1050	1.3	90	1250	1.6	130	1400	1.9
45TW (Wall mount 450mm dia.)	75	1050	1.3	90	1250	1.6	130	1400	1.9

Oscillating Range - 610mm Industrial PF Fans

(Pedestal & Wall Fans)

Industrial Oscillating Fans

The 610mm Oscillating Fan is ideal for use in open plan offices, shops and factories. It is designed to sweep from side to side, moving large volumes of turbulent air across the room, effectively cooling to occupants.

How it works

Air is circulated around the room creating turbulence, which effectively cools the occupants. If placed near a window or door, the fan can be used to extract or introduce fresh air to the room. The oscillating fan can operate at three speeds allowing for use in various climatic conditions. The oscillation angle can be adjusted from 0-90° with an easy adjustment mechanism. Height can also be adjusted, vertical adjustments are also possible but limited to 10° off the horizontal.

How it's made

The oscillating fan is robust, well finished and has an attractive appearance. The fan's components are painted black with the impeller which is adequately guarded. Height oscillation adjustments are easily made without tools. The motor speed control is achieved through a three speed wound motor and selection is made via a selection switch.

How to install

Electrical connection is via a two meter cord from the motor. The fan can be plugged into a standard 15A socket and must be earthed.

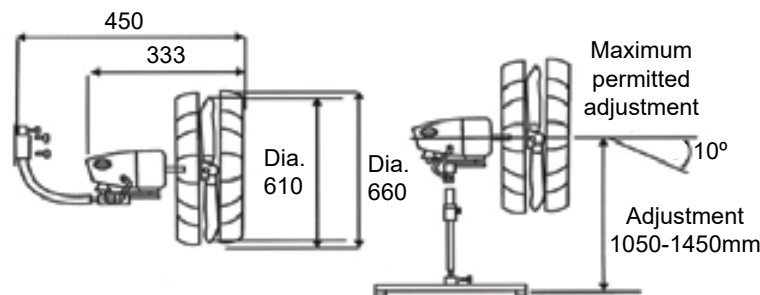
Fan is not supplied with a pull cord. Speed can only be regulated with the switch on the motor.



Packaging

Model:	Dimensions H x W x D (mm)	Weight (kg)
DF600T	705 x 205 x 705	14.5
DF600TW	690 x 180 x 910	19.6

Dimensions (mm)



Specifications

Speed	PRM	Airflow volume (m³/s)	Noise (dB)	Power (W)	Voltage (V)
1	1100	2.08	52	170	220
2	1250	2.50	56	170	220
3	1400	3.25	62	170	220

SK-Model Range - Industrial Ceiling Sweep Fans

Key Features

- Designed for hot and humid conditions in public buildings, shops, factories, schools and other commercial applications.
- Double ball bearing.
- 3 white aluminium blades.
- Complete with a 4-speed flush wall mount controller (Can be used with a 4 X 2 box for surface mount).
- Downrod: 440mm.
- 220V, 50Hz, single phase.

These fans are designed with unique speed-voltage characteristics. It ensures sustained airflow even under fluctuating voltage conditions.

Every fan is fitted with "Double Twist Angle" blades. Coupled with the increased lift angle of the carrier, you enjoy maximum air over the largest area.



Installation

To maximise air delivery over the required area, your ceiling fan should be 2.1m or more from the ground and 30cm or more below the ceiling.

For large rooms with more than one fan, the centre distance between each will depend on sweeps (all from centre distance):

Sweep 1422mm: 3m
Sweep 1219mm: 2.5m
Sweep 1016mm: 2m

Packaging

All cartons are:
630mm x 230mm x 190mm

Weight: 5kg

Specifications

Model	Item nr.	Dia. in mm	Watts	Amp. max.	Weight	Regulator speed	Airflow (m³/s)
Fan ceiling sweep SK40"	57432IND	1016mm	62	0.26A	4.38 kg	I Speed II Speed III Speed IV Speed	1 1.6 2.1 2.7
Fan ceiling sweep SK48"	57431IND	1200mm	65	0.28A	4.9 kg	I Speed II Speed III Speed IV Speed	1.4 2.1 3.1 3.7
Fan ceiling sweep SK56"	57435IND	1400mm	75	0.30A	5.16 kg	I Speed II Speed III Speed IV Speed	1.5 2.1 3.5 4.3

WH Range - Industrial Fan Heaters

Industrial Fan Heaters

- Variable thermostatic control.
- Controller HC301.
- Suitable for surface or recess installation.
- Colour: white.

How it works

Air is drawn through the heater and passed over an open spiral element. The motor is a quiet, totally enclosed shaded pole type. The base of the heater is mounted on a wall with the facility to unplug the head piece for maintenance. For overheat protection manual re-set overheat cut outs are fitted.

How it's made

The element is designed to operate at black heat for the longest possible life. It is made of nickelchrome alloy in an open spiral design on mica insulators. Aluminium castings are used for the base and grilles with a pressed steel housing. The finish is in powder coated two-tone grey.

How to install

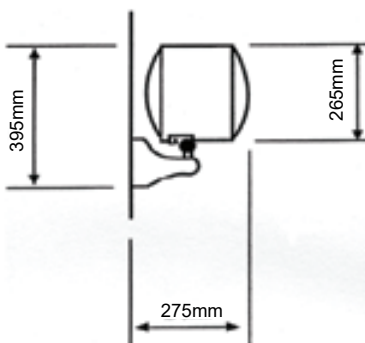
The heater has been designed to be installed in two phases. The plug in termination allows for the mounting of the base and electrical connections during construction. The head piece can be installed just before commissioning. Naturally all installations and wiring must comply with current regulations.



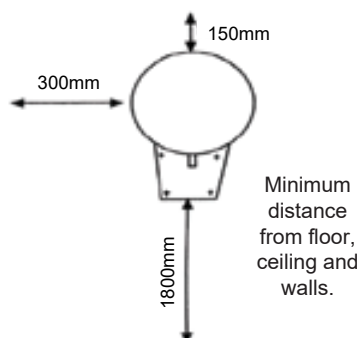
Packaging

Model:	Dimensions H x W x L (mm)	Weight (kg)
Carton	285 x 315 x 450	6kg

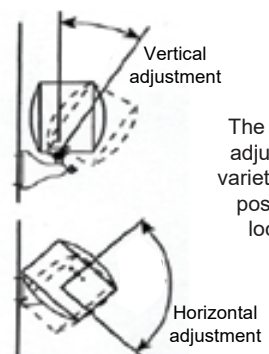
Mounting



Dimensions (mm)



Adjustable



Specifications

Power	2kW	3kW
Overheat cutout (Up to 25°C)	X	X
Connection phase	Single	Single
Volts / Hz	220 / 50	220 / 50
Amps. / phase	9.09A	13.63A
Airflow volume	300m³/h	300m³/h

NDM Range - Convection Heaters

Convection Heaters

This versatile and attractive heater can be used in a wide variety of environments, including domestic, work and leisure. It provides silent clean heating that won't dry the air. Heater is IP24 (splash proof) approved and can be installed in a bathroom.

Heaters are supplied with wall mount bracket as well as castor wheels for freestanding.

A Power cord of 1.5m with approved SA plug is supplied.

How it works

Cold air is drawn through the bottom of the heater and warm air is expelled through louvres at the top. There is no risk of heat streaking as the design allows for cooler air to pass behind the heater effectively pushing warm air away from the wall.

How it's made

The heating element is a "X"-shaped aluminium element for durability and/ efficient heating transfer (two power heating settings). A thermostatic limit with auto resetting is fitted for added safety should the heater be covered or blocked. The heater is of pressed steel with a powder coated finish in white.



Specifications

Power	500 Watts	1000 Watts	1500 Watts	2000 Watts
Model no.	NDM-05J	NDM-10J	NDM-15J	NDM - 20J
Product size (mm)	460 x 400 x 90	460 x 400 x 107	595 x 400 x 107	830 x 400 x 107
Carton size (mm)	550 x 450 x 130	550 x 450 x 130	690 x 450 x 130	920 x 450 x 130
Packing gross size (kg)	4.3	4.6	5.5	6.8
Voltage	220 - 240 VAC			

Note:

Length: left to right
Height: top to bottom
Depth: front to back
L x H x D (order in the above table)

IRQ Range - Sunwave Longwave Infrared Heater

Infrared Heater

The Tempadair Sunwave Infrared Heater is an efficient and cost effective way to heat your area. A separate stand is also available so you can move your heater to wherever you want.

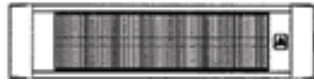
How it works

The infrared quartz heater contains a glass infrared quartz heating tube and firm reflector heating system that provides even heat distribution. It utilizes a high intensity, long wave quartz heating tube with resistance wire. The carbon fibre emitter in the heating tube has an operating temperature of up to 200°C with an energy peak wavelength of 14 microns.

How it's made

The heater body is made of light aluminium and has polycarbonate ends, which makes it lightweight and easy to move around.

The heater bracket can also move up and down by 30° to direct the heat in the direction you need.



Wall Mounted (mounting brackets and screws included).



Mounted on a stand (stand sold separately).



Stand sold separately.

How to install

The back of the heater has threaded holes for wall mounting purpose. A separate heater stand can be bought, so the heater can be moved to where it is needed.

Note: The heater must be installed at least 1.8m above the floor.

Installation

(Included in the box)

- Assemble the wall brackets, control the angle at 30°.
- Drill the holes in the wall.
- Put the plastic screw into the hole.
- Tighten the wall bracket.
- Assemble the wall bracket.
- Tighten the heater's back with the large screw.



Note: Bracket can move up and down to 30°.

Specifications

Power	2kW	3kW
Switch	X	X
Cord	X	X
Thermostat	X	X
Volts / Hz	220 / 50	220 / 50
Size (L x H x D) (mm)	810 x 190 x 100	1060 x 190 x 100

Packaging

Model:	Dimensions H x W x D (mm)	Weight (kg)
IRQ20	870 x 230 x 150	4
IRQ30	1120 x 240 x 150	5
IRQ STAND	1010 x 130 x 120	2.5

Sunquartz Range - Shortwave Infrared Heaters

Infrared Zone Heaters

The Sunquartz shortwave infrared heater is the clean, silent, efficient and cost effective way to heat a person or object. The tilt mounting allows the gentle heat rays to be focused at the specific area to be heated.

How it works

The sensation and welcome of instant heat right where it's needed. Sunquartz shortwave infrared heaters warm people, not the air. They can be used in many applications e.g. warehouses, churches, reception rooms, drying paint. These efficient sun-like heaters can penetrate damp air with little waste to the atmosphere.

Features include:

- Completely silent in operation.
- Lightweight, robust and corrosion resistant.
- Wall mount horizontally.
- Ideal for localised heating in large covered areas.

How it's made

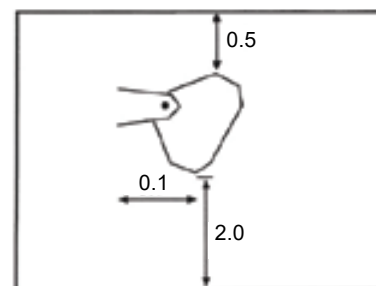
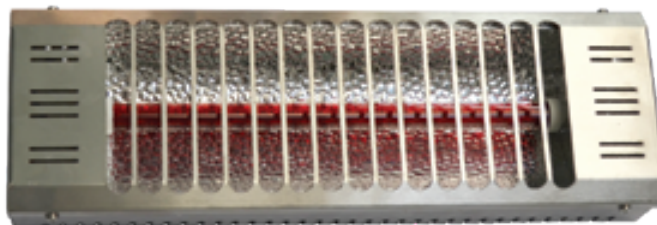
- Elements: Tungsten halogen lamps, ruby red.
- Reflectors: Anodised aluminium
- Guard: Stainless steel guard
- Body: Stainless steel
- Connection: 220V single phase
- Element length: 350mm
- Weight: +/- 1kg

How to install

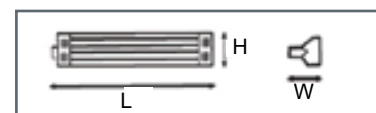
- Prior to installation, check that no hazardous vapour will be present in the immediate atmosphere.
- The heaters must never be rotated to face the wall, ceiling or floor.
- Wall mount brackets are supplied with heater.
- Wiring must be according to local regulations and must be adequately rated.

Specifications

Model	Rating @ 220V	Current @ 220V	Dimensions H x L x W (mm)	Carton Dimensions H x L x W (mm)	Weight
HI150SQ	1.5kW	6.8A	111 x 426 x 71	127 x 473 x 90	3kg
HI200SQ	2kW	9.1A	111 x 426 x 71	127 x 473 x 90	



Note: This is a guideline only, onsite conditions will determine the layout required.





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E.&O.E. (errors and omissions excepted)

