



thermoscreens®

air curtains



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Pioneers of air curtains across Europe, Thermoscreens are a market-leading manufacturer of high quality air curtain solutions with an established and well-respected reputation worldwide.

Thermoscreens produce a comprehensive range of heated, ambient and cold store air curtains both surface and recess mounted for many applications including retail, commercial, public sector buildings, architectural, industrial and refrigerated environments.

Underpinning everything is the commitment to provide product quality, reliability, performance and delivery second to none. This is evidenced by accreditation to the Quality Management Systems BS EN ISO9001:2008.

Thermoscreens believes in sustainability and to this end adhere strictly to the Environmental Management Systems BS EN ISO14001:2004. All products are designed with energy efficiency in mind and with the introduction of Ecopower technology end users can now benefit from energy saving and climate enhancing innovation.

- Established Brand
- Advanced Engineering and Design
- Excellent Service
- Excellent Quality
- Outstanding Reliability
- Availability
- Competitive Solutions

WHY FIT AN AIR CURTAIN?

■ Comfort:

Air curtains help promote the perfect environment whether warm, cool or ambient.

■ Open Door Policy:

Air curtains promote open door trading in retail outlets and provides uninterrupted access for passing trade.

■ Energy Saving:

Air curtains over open doors promote significant energy savings.

■ Protection:

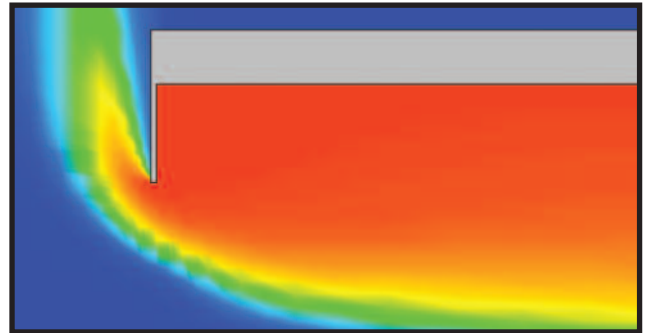
Air curtains help to ensure a clean and healthy environment.

■ Health and Safety:

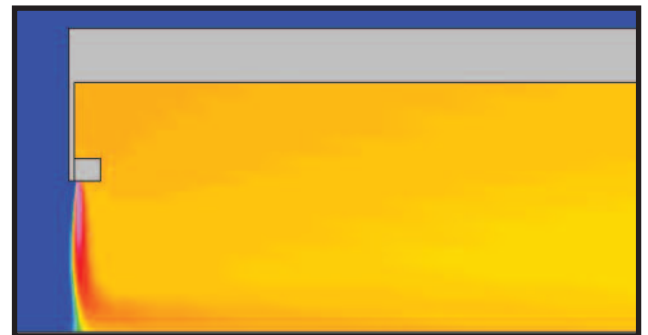
In refrigeration applications, Thermoscreens cold store air curtains can significantly reduce the ingress of warm air when doors are required to be left open for access helping to retain the refrigerated air inside.

■ Ease of Installation:

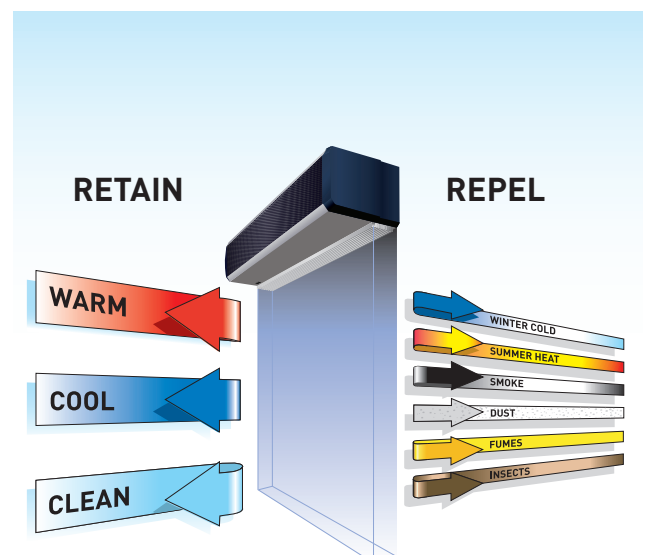
Air curtains are not only easy to install but also easy to maintain throughout their serviceable life. A simple and cost effective solution for a comfortable environment.



With an open door, typically warm air escapes and cold air enters.



With an air curtain warm air is retained and cold air entering is heated.



AIR CURTAIN SELECTION GUIDE

To ensure maximum **effectiveness** and **comfort**, it is important to choose the correct air curtain. An air curtain with too little velocity will not be able to stop cold draughts from entering the building whilst an air curtain that is too powerful which has been installed at the incorrect door height could be noisy and uncomfortable.

To **select the appropriate air curtain** the following factors should be taken into account:

- **Type of building and the interior design of the premises**

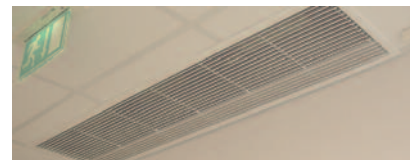
- **Type of air curtain required**

- Surface mounted or recessed
- Electrical, Water or Ambient

Surface Mounted

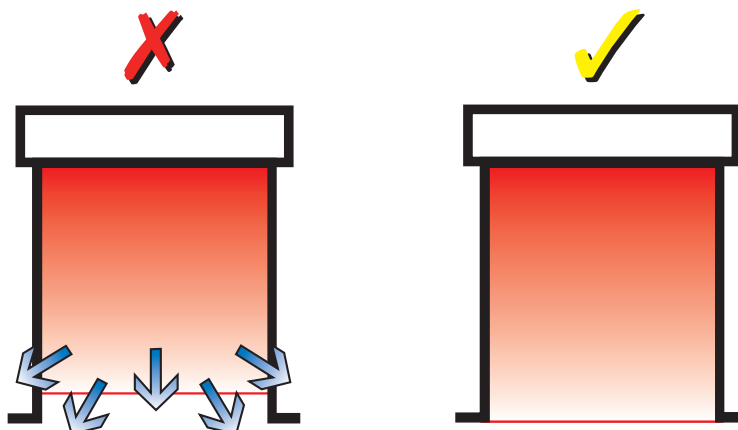


Recessed

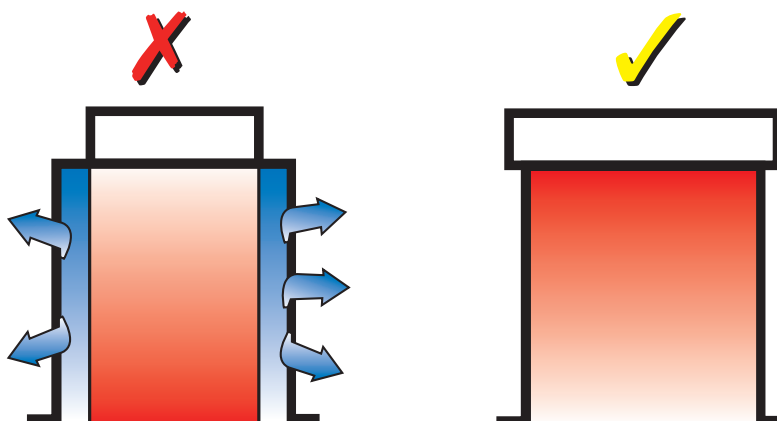


- **Voltage and power supply**

- **Installation height** - If an air curtain is to operate to maximum effectiveness, it is essential that the air curtain has sufficient air velocity to discharge over the whole height and width of the doorway.



- **The width of the door** - The air curtain should be wider than the width of the door opening. Overlapping the full opening, the air curtain controls the ingress of air and other pollutants maintaining a comfortable environment.



- Characteristics of the door (i.e. door way locations).
- Ensure the units are positioned as close to the door opening as possible and that there are no obstructions between the air curtain jet of air and the opening of the door.
- Characteristics of the building (i.e. door way locations, through draughts).

THERMOSCREENS SELECTION OVERVIEW

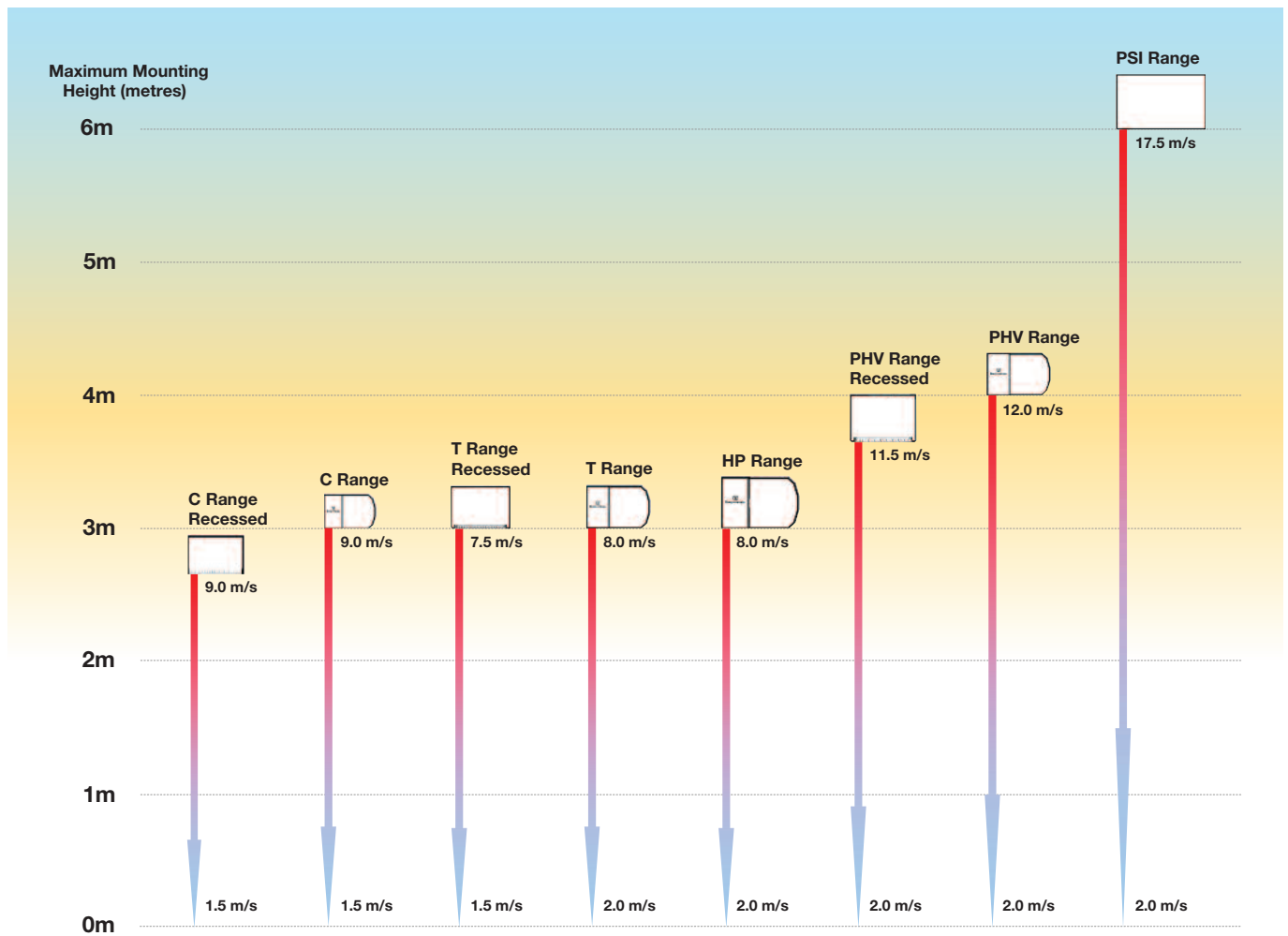
This information should be used as a **guideline only**. If you require more technical information or would like to verify that the unit you have selected suits the application, please contact the Thermoscreens Sales Office before purchasing your product.

Selection Overview

	Models	Recommended Height	Heating			Mounting Options			Suggested Applications
			Electric	Water	Ambient	Horizontal	Vertical		
	C Range	Up to 3m - surface mounted				✓			Entrance - Small to medium sized buildings with a moderate pedestrian flow. Restaurants, retail and commercial buildings.
		Up to 2.75m - recessed	⚡	💧	🌀		✓		
	T Range	Up to 3m - surface mounted and recessed	⚡	💧	🌀	✓	✓		Entrance - Medium sized buildings with a moderate to high pedestrian flow. Banks, theatres, commercial buildings, shopping centres, hospitals and hotels.
	PHV Range	Up to 4m - surface mounted				✓			Entrance - Medium to large sized buildings with a high pedestrian flow. Applicable for industrial doors, airports, shopping centres, factories and warehouses.
		Up to 3.75m - recessed					✓		
		Maximum effective width vertical 2.5m	⚡	💧	🌀			✓	
	HP Range	Up to 3m - surface mounted	⚡	💧	🌀	✓			Entrance - Medium sized buildings with a high pedestrian flow. Commercial buildings, shopping malls and airports.
	Designer C Range	Up to 2.75m - surface mounted				✓			Entrance - Small to medium sized buildings where design and appearance is important. Available in polished and brushed stainless steel.
		Maximum effective width vertical 1.5m	⚡	💧	🌀			✓	
	Designer PHV Range	Up to 3.5m - surface mounted				✓			Entrance - Medium to large sized buildings where design and appearance is important. Available in polished and brushed stainless steel.
		Maximum effective width vertical 2.5m	⚡	💧	🌀			✓	
	PSI Range	Up to 6m	⚡	💧	🌀	✓			Industrial applications.
	TS Range	Up to 3.3m			🌀	✓			Cold store applications.
	Jet Range	Up to 2.3m	⚡			✓			Small openings, kiosks, fast food outlets, small boutiques.
	T600/T800	Up to 2.3m	⚡				✓		Small openings, kiosks, fast food outlets.



AIR VELOCITY DISTRIBUTION CHART



- Air velocity ranges displayed show maximum flow rates. (Discharge air velocity is measured with a hot wire anemometer).
- Ambient and electric air curtains develop a higher airflow than units fitted with hot water heating coils due to lower flow resistance.
- Air velocity figures shown are for free flow conditions in still air. Velocities will be affected if there is wind and air pressure conditions at the doorway where the air curtain is installed.

SPECIALIST REQUIREMENT

If you require a special air curtain designed to blend with a building's characteristics, Thermoscreens are able to offer this service. The custom built air curtain will be carefully designed to suit and compliment the application. Typical types of requirements are vertical units or stainless steel air curtains. Air curtains are available equipped with refrigerant condenser coils to operate with refrigerant split systems and heat pumps. For further information please contact our Sales Department.

Aircraft Hangers • Airports • Banks • Boutiques • Chilled Stores • Cold Stores • Cinemas • Commercial Buildings • Civic Buildings • Department Stores • Factories • Food Processing Plants • Gardens Centres • High Street Shops • Historic Buildings • Hospitals • Hotels • Hypermarkets • Kiosks • Manufacturing Plants • Museums • Newsagents • Offices • Restaurants • Retail Parks • Schools • Shopping Malls • Storage Facilities • Supermarkets • Theatres • Theme Parks • Warehouses



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ADVANCED TECHNOLOGY

The Thermoscreens Vertical Range of air curtains incorporate crossflow fan technology. This enables our range of air curtains to produce a more uniform air velocity and air flow across the length of the discharge grille. The Vertical Range has been designed with 'draw through' technology giving a better air flow over the heating coil.

Turning vanes have been fitted at each end of the crossflow impellers and at the middle of the air curtain for 2m units. The location of the fan motors and electrical equipment can sometimes produce low velocity zones or dead zones, the turning vanes system effectively 'fills-in' these low velocity areas. The effectiveness of these vanes has been proven through a series of 'outlet velocity projection and uniformity' tests in accordance with the ISO standard 27327-1 (formerly ANSI/AMCA Standard 220-05 for Air Curtain Performance Rating).

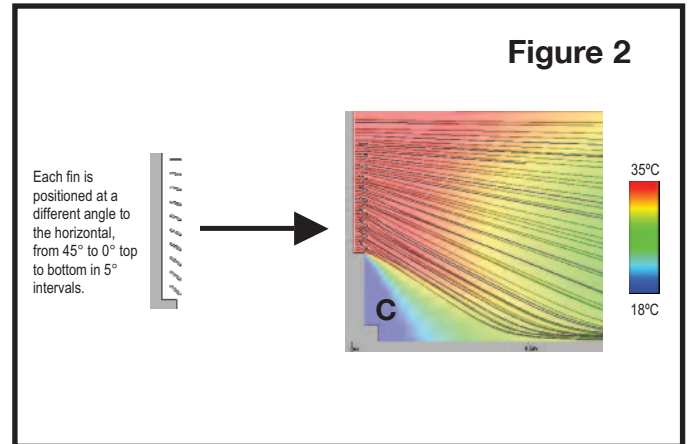
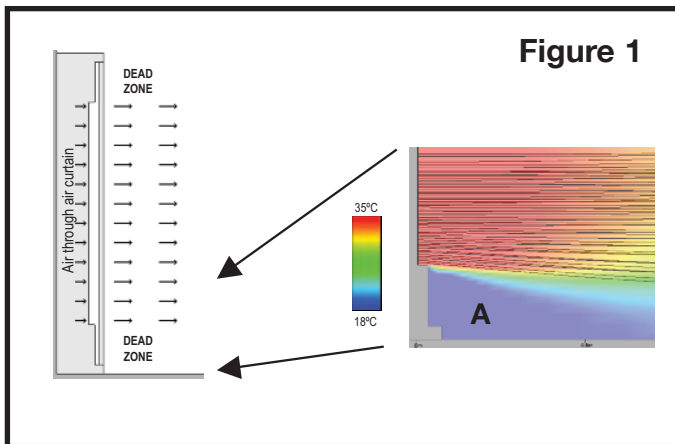
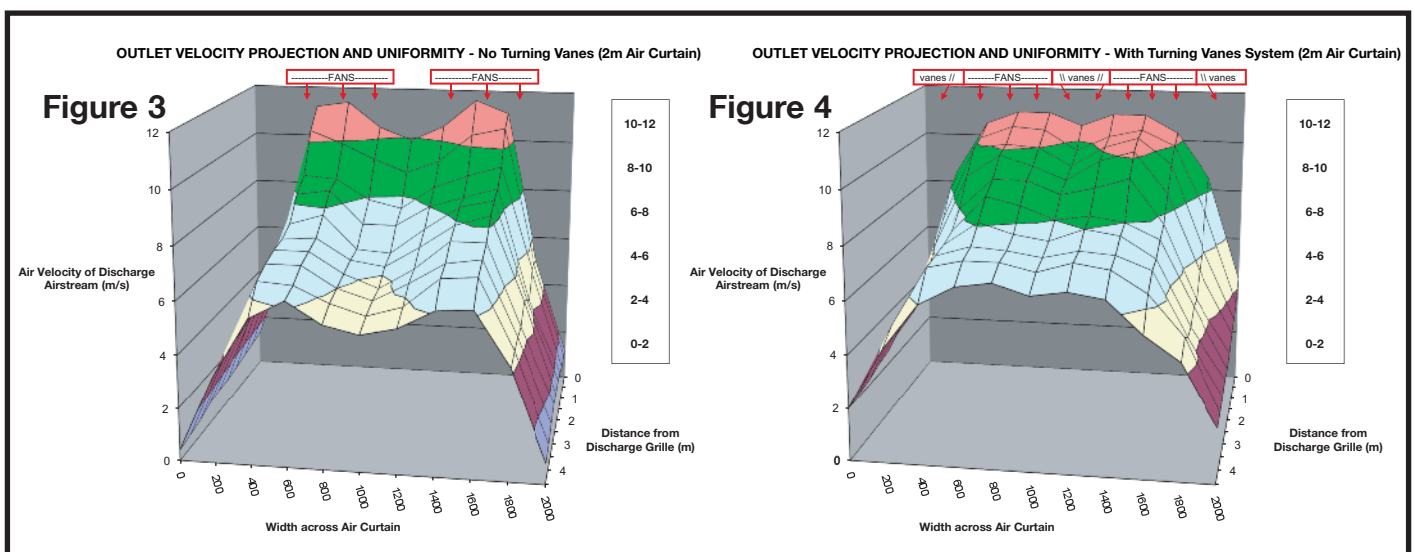


Figure 1 shows a Computational Fluid Dynamics (CFD) analysis carried out on a Designer Vertical air curtain which is not fitted with a turning vane system. The reduced air flow zones where the motors and electrical controls are located are indicated at the top and bottom of the air curtain (Marked A).

Figure 2 is a Computational Fluid Dynamics (CFD) analysis of a Vertical Designer unit fitted with an advanced turning vane system. The angle of the turning vanes increases from 0 to 45 degrees towards the end of the air curtain giving a gradual effect, filling in the low air velocity areas in a more even manner.



The 3D surface chart shows that for a 2m Designer PHV air curtain where the low velocity areas shown at the ends and the middle in figure 3 are "filled-in" by the turning vane system as shown in figure 4.

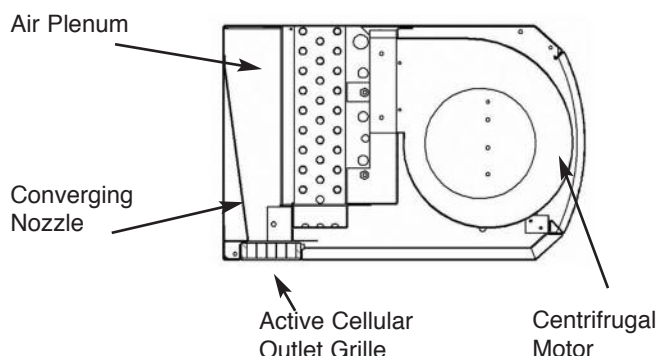
Ecopower air technology increases the energy effectiveness and energy saving of an air curtain. The new technology offers superior climate separation across a doorway by way of enhanced air stream uniformity and air stream projection. Ecopower air technology provides a more effective air barrier and increased performance as a result of combining an **air plenum**, a **converging nozzle** and an **active cellular outlet grille**. (Figure 1)

The Air Plenum is a pressure chamber into which the air first flows. Its presence and shape generates 'Flow Static Pressure' which results in excellent airflow uniformity along the length and width of the air curtain discharge area thus eliminating **low velocity zones** or **dead zones**.

The plenum transforms into a '**Converging Nozzle**' creating a 'Venturi Effect'. The 'Venturi Effect' causes the air velocity to increase through the discharge nozzle resulting in increased air stream projection from the higher Flow Kinetic Energy. This increased air projection provides enhanced barrier effect.

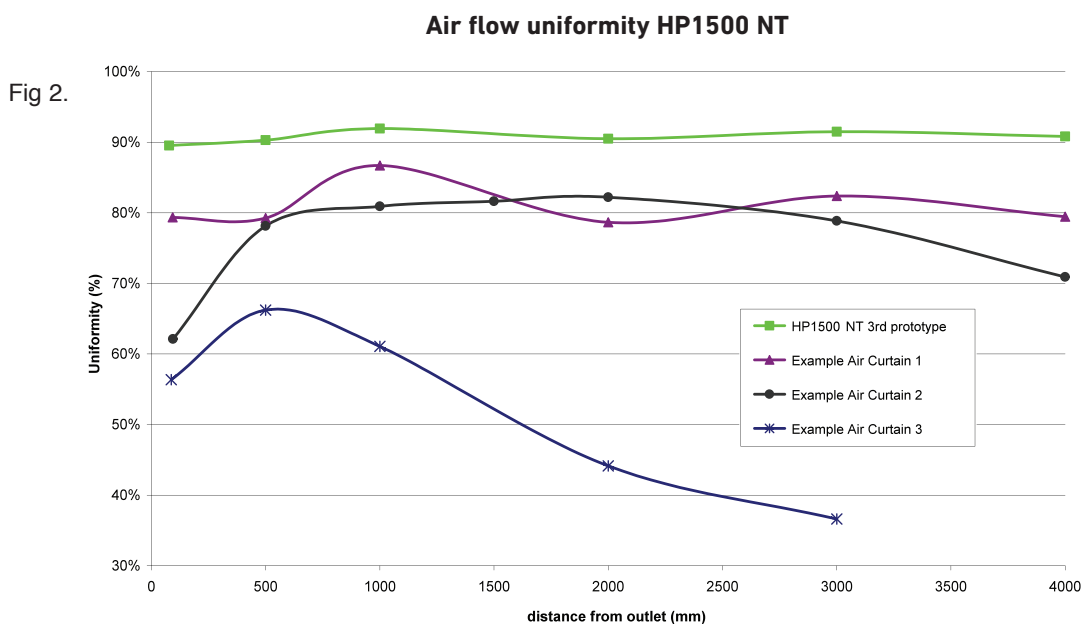
The active cellular outlet grille completes the trio of design factors. The backpressure created by the cellular grille contributes to airflow uniformity along the length of the air curtain. The cellular grille can be angled to achieve

Fig 1.



the desired directional airflow trajectory to suit the application, enhancing energy effectiveness. The air is guided through each cell of the active grille providing constant coverage approaching 100% uniformity.

Ecopower air technology significantly improves the projection and uniformity of the air stream, thus the heating requirement of the air curtain can be reduced, as the air barrier is more effective as shown in Figure 2.



Graph derived from testing in accordance with newly released air curtain standards ISO 27327



Thermoscreens' Ecopower Controller is designed to prevent entrance areas over heating whilst providing measurable energy savings.

The easy-to-use controller can be set in 'auto mode' to ensure that consistent comfort levels are thermostatically maintained. Alternatively, the Ecopower Controller can be manually set for constant 50% or 100% heat output or zero heat output to provide a barrier of ambient air during warmer weather to assist the air conditioning within the environment.

■ The Benefits:

The Ecopower Controller maintains consistent temperature levels within the internal environment.

■ Saves Energy:

The Ecopower Controller ensures the air curtain operates at the optimum heat output, ensuring a controlled climate and thus saving energy and money.

■ Ideal for Multiple Installation:

The Ecopower Controller allows the control of fan speeds, heat output and temperature settings in multiple installations of up to 8 separate air curtains.

■ Easy to install:

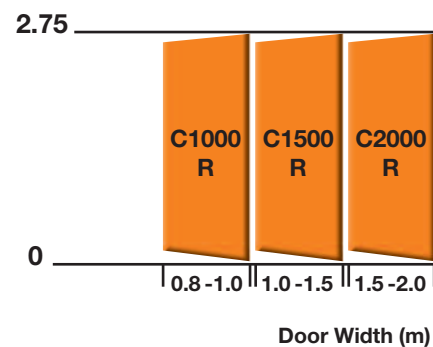
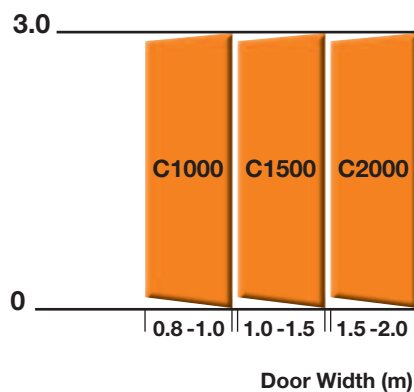
The Ecopower Controller is quick and easy to install as it incorporates low voltage switch cabling, eliminating the need for mains rated conduit runs. In addition, the quick-fit plug-in connectors allow multiple units to be simply linked together using the optional RJ lead.

The Ecopower Controller is fitted as standard on all models except for PSI, TS and Ambient.



■ Control Options:

- BMS On/Off
- BMS Fault Signal
- Door Limit Switch
- Fan/Heat Interlock
- Master Slave Single Temp Sensor
- Remote Heating On/Off
- Outside Air Temperature Sensing Control



C Range Surface / Recessed

- Available in surface mounted or recessed
- Available in Electric, Water or Ambient
- Supplied with Tangential fans
- Maximum mounting height on surface mounted models - 3m
- Maximum mounting height on recessed models - 2.75m
- Electric and Water units are supplied with Ecopower energy saving controller
- 3-Way valve supplied with water units
- Optional filters available on surface mounted water and ambient units
- Low inertia high efficiency electric heating coils in electric heated units



TECHNICAL SPECIFICATION

C Range Surface

Models	Dimensions (mm) (L x D x W)	Supply (50Hz)	Heat Output (kW)	Loading (A) *per phase	Max. Velocity (m/s)	Max. Air Volume (m³/h)	Weight (kg)	**dB(A) @3m
Ambient								
C1000A NT	1137 x 275 x 198	230V~1P&N	-	0.7	9	1250	15	55
C1500A NT	1669 x 275 x 198	230V~1P&N	-	0.9	9	1800	21	55
C2000A NT	2200 x 275 x 198	230V~1P&N	-	1.1	9	2500	31	56
Electric								
C1000E NT	1137 x 275 x 198	400V~3P&N	4.5/9	*13.7	9	1250	16	55
C1500E NT	1669 x 275 x 198	400V~3P&N	6/12	*18.3	9	1800	23	55
C2000E NT	2200 x 275 x 198	400V~3P&N	9/18	*27.2	9	2500	33	56
LPHW								
C1000W NT	1137 x 275 x 198	230V~1P&N	6	0.7	8.5	1180	18	55
C1500W NT	1669 x 275 x 198	230V~1P&N	9	0.9	8.5	1700	26	55
C2000W NT	2200 x 275 x 198	230V~1P&N	12	1.1	8.5	2360	37	56

C Range Recessed

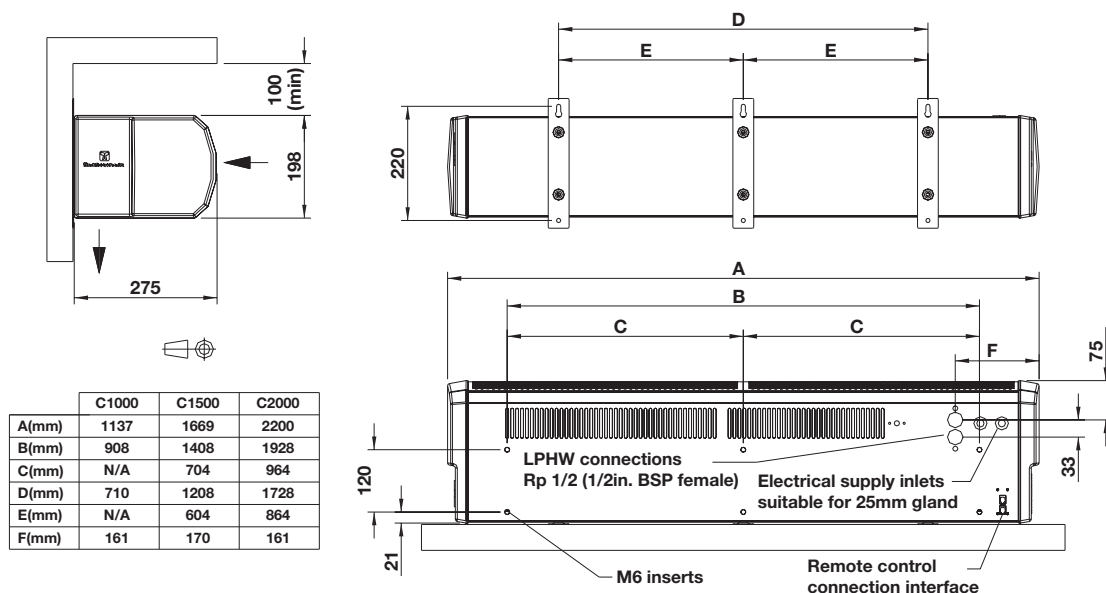
Models	Dimensions (mm) (L x D x W)	Grille Size inc. Flange (mm)	Supply (50Hz)	Heat Output (kW)	Loading (A) *per phase	Max. Velocity (m/s)	Max. Air Volume (m³/h)	Weight (kg)	**dB(A) @3m
Ambient									
C1000AR	1200 x 347 x 205	1209 x 353	230V~1P&N	-	0.7	9	1190	19	55
C1500AR	1600 x 347 x 205	1609 x 353	230V~1P&N	-	0.9	9	1730	25	55
C2000AR	2100 x 347 x 205	2120 x 353	230V~1P&N	-	1.1	9	2380	35	56
Electric									
C1000E9R	1200 x 347 x 205	1209 x 353	400V~3P&N	4.5/9	*13.7	9	1190	20	55
C1500E12R	1600 x 347 x 205	1609 x 353	400V~3P&N	6/12	*18.3	9	1730	27	55
C2000E18R	2100 x 347 x 205	2120 x 353	400V~3P&N	9/18	*27.2	9	2380	37	56
LPHW									
C1000W6R	1200 x 347 x 205	1209 x 353	230V~1P&N	6	0.7	8.5	1120	22	55
C1500W9R	1600 x 347 x 205	1609 x 353	230V~1P&N	9	0.9	8.5	1630	30	55
C2000W12R	2100 x 347 x 205	2120 x 353	230V~1P&N	12	1.1	8.5	2240	41	56

The ceiling void for C range recessed must be sufficiently large and freely ventilated so there will be an adequate supply of ventilation air (m³/hr) to the unit, see table below.

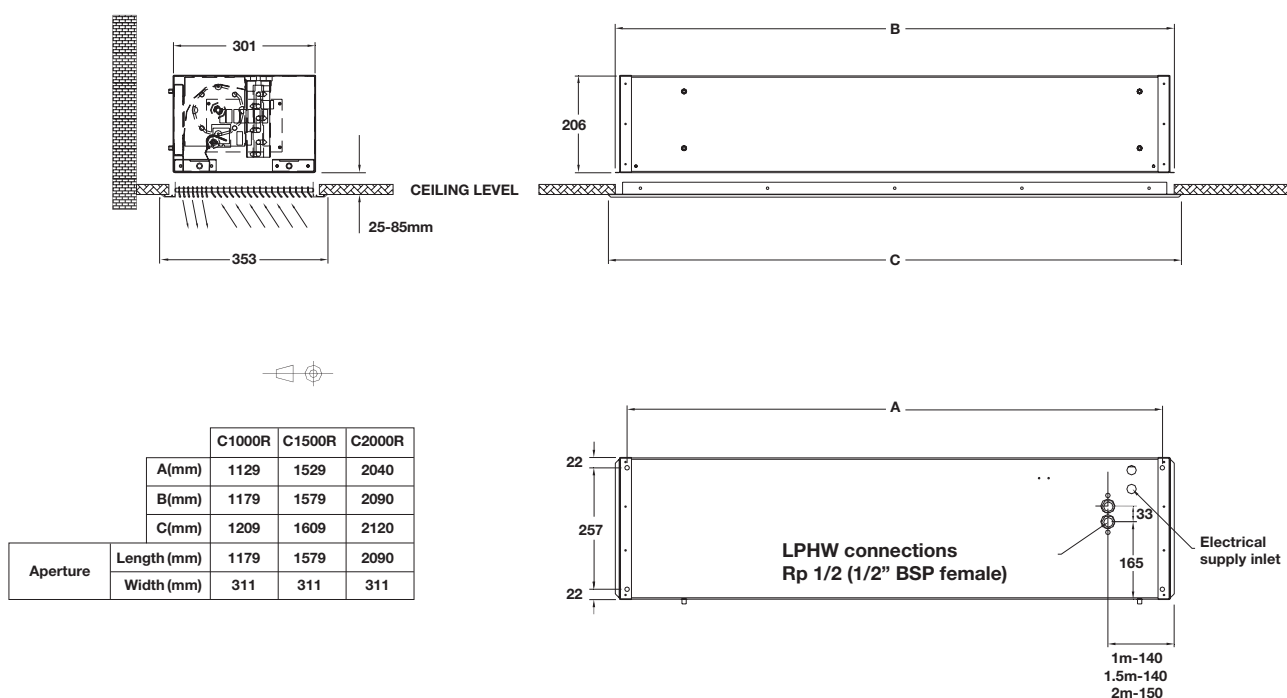
Air Curtain	Required air flow within ceiling void (m³/hr)	Effective free area of ventilation grille for an enclosed ceiling void (cm²)
C1000R	353	500
C1500R	421	700
C2000R	707	1200

** Sound pressure levels (dBA) at 3m, as given in our brochure, are for a single air curtain mounted at its maximum mounting height, operating in a room with average acoustic characteristics as defined in CIBSE Guide B5 (reverberation time 0.7s) and a room size equivalent to 8 air changes per hour (ac/h). Care needs to be taken when selecting air curtains for an installation as noise levels can be several dB higher if the mounting height is reduced, if the room is more "live" (i.e. hard surfaces, no furnishings or absorbent materials), if the room is smaller than 8 ac/h equivalent or a combination of these factors. Noise levels will also increase if more than one air curtain is installed at the same doorway (e.g. + 3dBA for 2 equal point sources: direct field).

C Range Surface

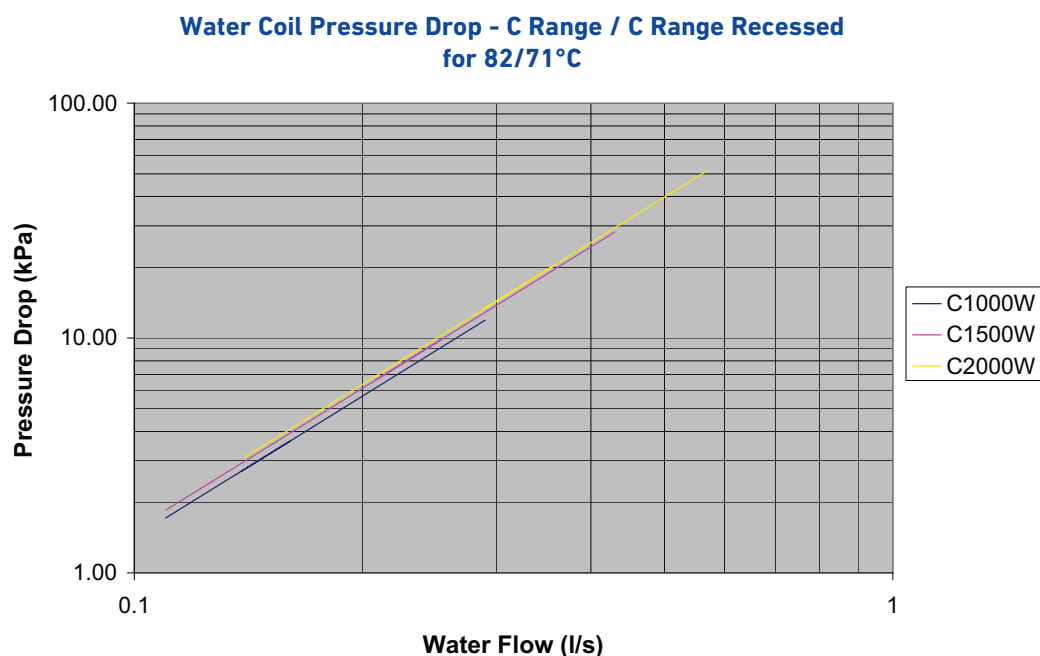


C Range Recessed



COIL PRESSURE DROP AND WATER FLOW INFORMATION

Water coil pressure C Range Surface / Recessed

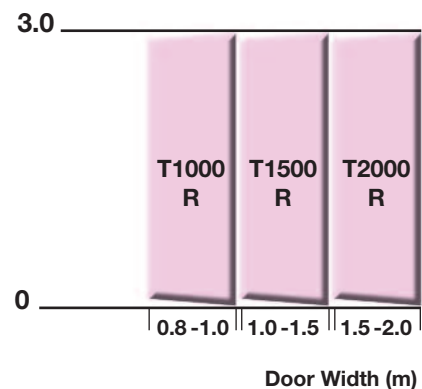
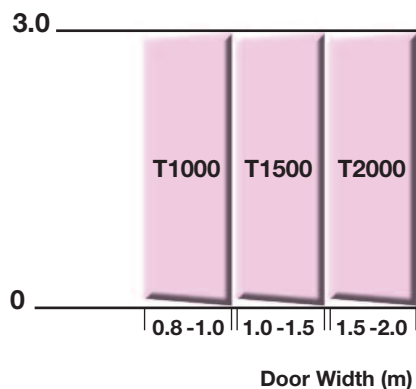


Water flow C Range Surface / Recessed

C Range	Normal Water Flow Rate (l/s) 82 / 71°C	Coil Water Pressure Drop (kPa)
C1000W NT	0.14	2.77
C1500W NT	0.21	6.74
C2000W NT	0.29	13.4

C Range Recessed	Normal Water Flow Rate (l/s) 82 / 71°C	Coil Water Pressure (kPa)
C1000WR	0.14	2.77
C1500WR	0.21	6.74
C2000WR	0.29	13.4

Heat output on water units based on LPHW at 82°C / 71°C and air entering temperature of 20°C

**T Range** Surface / Recessed

- Available in Electric, Water or Ambient
- Available in surface mounted or recessed
- Maximum mounting height on surface mounted and recessed models - 3m
- Supplied with Centrifugal fans
- Filter supplied as standard on surface mounted units
- Electric and Water units are supplied with Ecopower energy saving controller
- 3-Way valve supplied with water units
- 82/71°C and 60/40°C low grade water coils available on T range recessed



TECHNICAL SPECIFICATION

T Range Surface

Models	Dimensions (mm) (L x D x W)	Supply (50Hz)	Heat Output (kW)	Loading (A) *per phase	Max. Velocity (m/s)	Max. Air Volume (m³/h)	Weight (kg)	**dB(A) @3m
Ambient								
T1000A NT	1196 x 377 x 255	230V~1P&N	-	1.1	8	1320	27	56
T1500A NT	1746 x 377 x 255	230V~1P&N	-	1.5	8	1925	40	57
T2000A NT	2296 x 377 x 255	230V~1P&N	-	2	8	2640	50	57
Electric								
T1000E NT	1196 x 377 x 255	400V~3P&N	6/9	*14.1	8	1320	28	56
T1500E NT	1746 x 377 x 255	400V~3P&N	6/12	*18.9	8	1925	41	57
T2000E NT	2296 x 377 x 255	400V~3P&N	12/18	*28.1	8	2640	52	57
LPHW								
T1000W NT	1196 x 377 x 255	230V~1P&N	9	1.1	7.8	1250	29	56
T1500W NT	1746 x 377 x 255	230V~1P&N	12	1.5	7.8	1825	42	57
T2000W NT	2296 x 377 x 255	230V~1P&N	18	2	7.8	2500	53	57

T Range Recessed

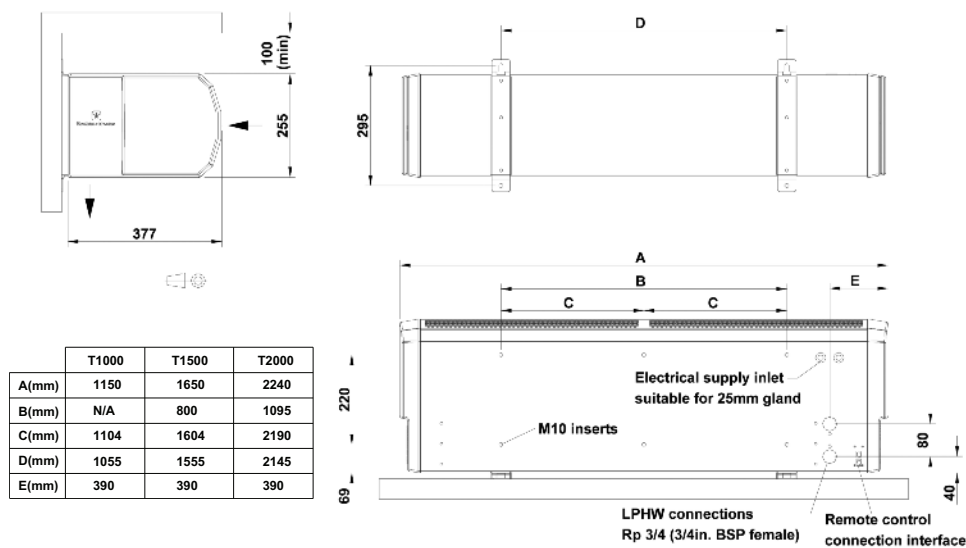
Models	Dimensions (mm) (L x D x W)	Grille Size inc. Flange (mm)	Supply (50Hz)	Heat Output (kW)	Loading (A) *per phase	Max. Velocity (m/s)	Max. Air Volume (m³/h)	Weight (kg)	**dB(A) @3m
Ambient									
T1000AR	1150 x 436 x 296	1104 x 436	230V~1P&N	-	1.1	7.5	2000	27	57
T1500AR	1650 x 436 x 296	1604 x 436	230V~1P&N	-	1.7	7.5	3000	40	58
T2000AR	2240 x 436 x 296	2190 x 436	230V~1P&N	-	2	7.5	4000	50	59
Electric									
T1000E9R	1150 x 436 x 296	1104 x 436	400V~3P&N	6/9	*14.1	7.5	2000	28	57
T1000E12R	1150 x 436 x 296	1104 x 436	400V~3P&N	6/12	*18.5	7.5	2000	28	57
T1500E12R	1650 x 436 x 296	1604 x 436	400V~3P&N	6/12	*18.9	7.5	3000	41	58
T1500E18R	1650 x 436 x 296	1604 x 436	400V~3P&N	9/18	*27.9	7.5	3000	41	58
T2000E18R	2240 x 436 x 296	2190 x 436	400V~3P&N	12/18	*28.1	7.5	4000	52	59
T2000E24R	2240 x 436 x 296	2190 x 436	400V~3P&N	12/24	*37	7.5	4000	52	59
LPHW									
T1000W12R	1150 x 436 x 296	1104 x 436	230V~1P&N	12	1.1	7	1950	29	57
T1500W18R	1650 x 436 x 296	1604 x 436	230V~1P&N	18	1.7	7	2950	42	58
T2000W24R	2240 x 436 x 296	2190 x 436	230V~1P&N	24	2	7	3950	53	59

The ceiling void for T range recessed must be sufficiently large and freely ventilated so there will be an adequate supply of ventilation air (m3/hr) to the unit, see table below.

Air Curtain	Required air flow within ceiling void (m³/hr)	Effective free area of ventilation grille for an enclosed ceiling void (cm²)
T1000R	353	500
T1500R	421	700
T2000R	707	1200

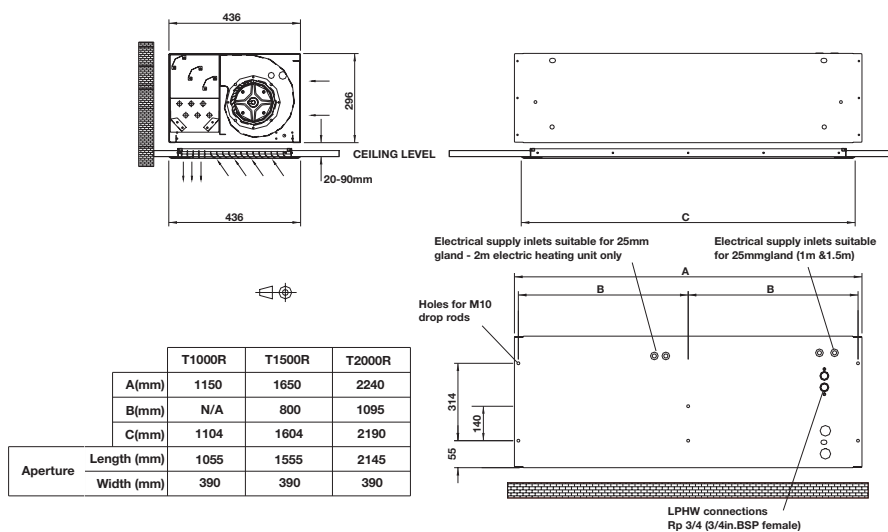
** Sound pressure levels (dBA) at 3m, as given in our brochure, are for a single air curtain mounted at its maximum mounting height, operating in a room with average acoustic characteristics as defined in CIBSE Guide B5 (reverberation time 0.7s) and a room size equivalent to 8 air changes per hour (ac/h). Care needs to be taken when selecting air curtains for an installation as noise levels can be several dB higher if the mounting height is reduced, if the room is more "live" (i.e. hard surfaces, no furnishings or absorbent materials), if the room is smaller than 8 ac/h equivalent or a combination of these factors. Noise levels will also increase if more than one air curtain is installed at the same doorway (e.g. + 3dBA for 2 equal point sources: direct field).

T Range Surface

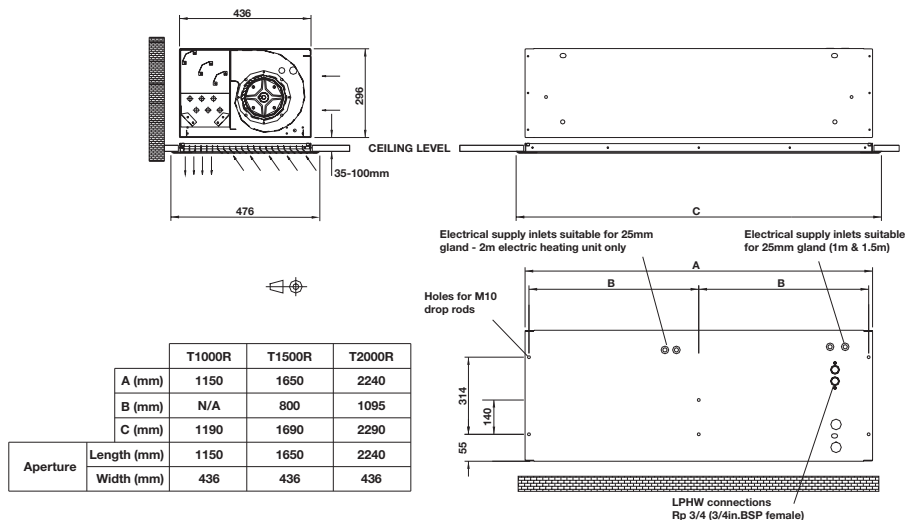


T Range Recessed

Standard Recessed Grille

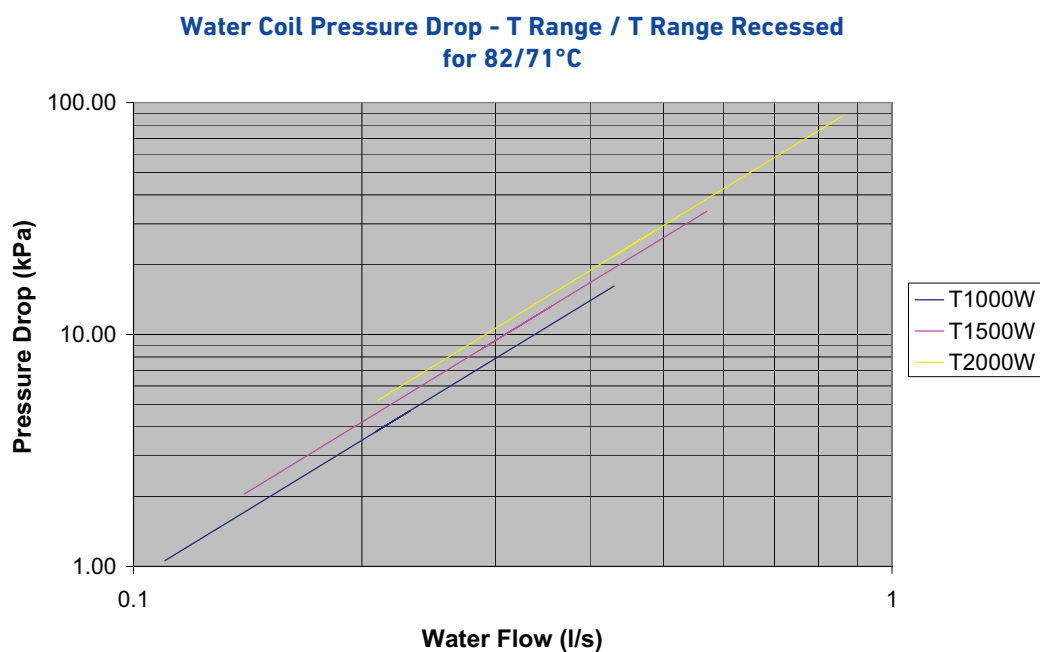


Wider Recessed Grille



COIL PRESSURE DROP AND WATER FLOW INFORMATION

Water coil pressure T Range Surface / Recessed

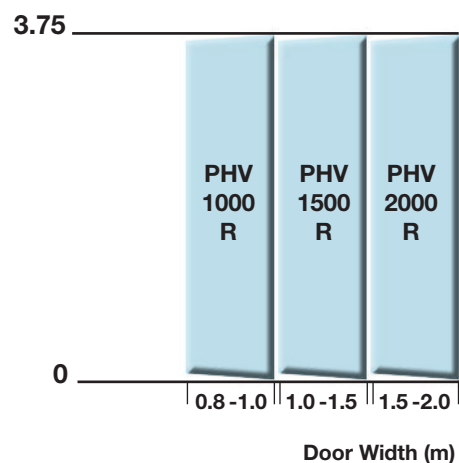
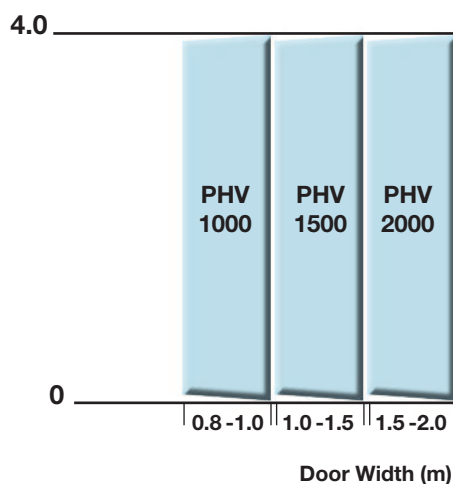


Water flow T Range Surface / Recessed

T Range	Water Flow Rate (l/s) 82/71°C	Coil Water Pressure Drop (kPa)
T1000W NT	0.21	3.86
T1500W NT	0.29	8.81
T2000W NT	0.43	21.84

T Range Recessed	Water Flow Rate (l/s) 82/71°C	Coil Water Pressure Drop (kPa)
T1000WR	0.29	2.66
T1500WR	0.43	2.02
T2000WR	0.57	3.54

Heat output on water units based on LPHW at 82°C / 71°C and air entering temperature of 20°C



PHV Range Surface / Recessed

- Available in Electric, Water or Ambient
- Available in surface mounted or recessed units
- Maximum mounting height on surface mounted models - 4m
- Maximum mounting height on recessed models - 3.75m
- Supplied with Tangential fans
- Electric and Water units are supplied with Ecopower energy saving controller
- 3-Way valve supplied with water units
- 82/71°C and 60/40°C low-grade water coils available on PHV surface mounted and recessed



TECHNICAL SPECIFICATION

PHV Range Surface

Models	Dimensions (mm) (L x D x W)	Supply (50Hz)	Heat Output (kW)	Loading (A) *per phase	Max. Velocity (m/s)	Max. Air Volume (m³/h)	Weight (kg)	**dB(A) @3m
Ambient								
PHV1000A NT	1196 x 377 x 255	230V~1P&N	-	1.3	12	2880	29	59
PHV1500A NT	1746 x 377 x 255	230V~1P&N	-	1.8	12	4020	43	60
PHV2000A NT	2296 x 377 x 255	230V~1P&N	-	2.7	12	5760	58	61
Electric								
PHV1000E NT	1196 x 377 x 255	400V~3P&N	6/12	*18.7	12	2880	32	59
PHV1500E NT	1746 x 377 x 255	400V~3P&N	9/18	*27.9	12	4020	45	60
PHV2000E NT	2296 x 377 x 255	400V~3P&N	12/24	*37.5	12	5760	62	61
LPHW								
PHV1000W NT	1196 x 377 x 255	230V~1P&N	12	1.3	11	2630	35	59
PHV1500W NT	1746 x 377 x 255	230V~1P&N	18	1.8	11	3670	47	60
PHV2000W NT	2296 x 377 x 255	230V~1P&N	24	2.7	11	5260	64	61

PHV Range Recessed

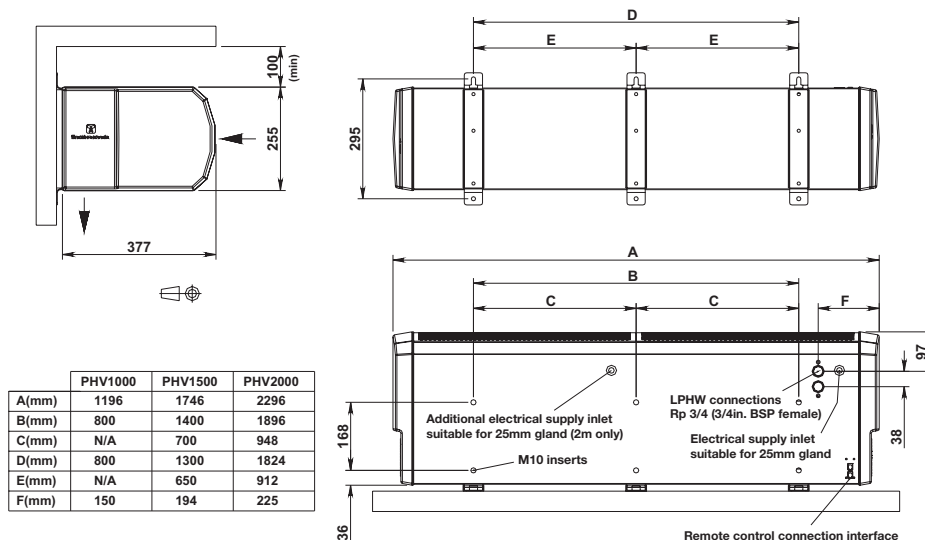
Models	Dimensions (mm) (L x D x W)	Grille Size inc. Flange (mm)	Supply (50Hz)	Heat Output (kW)	Loading (A) *per phase	Max. Velocity (m/s)	Max. Air Volume (m³/h)	Weight (kg)	**dB(A) @3m
Ambient									
PHV1000AR P2	1150 x 436 x 296	1104 x 436	230V~1P&N	-	1.3	11.5	2750	33	59
PHV1500AR P2	1650 x 436 x 296	1604 x 436	230V~1P&N	-	1.8	11.5	3840	47	60
PHV2000AR P2	2240 x 436 x 296	2190 x 436	230V~1P&N	-	2.7	11.5	5500	63	61
Electric									
PHV1000ER P2	1150 x 436 x 296	1104 x 436	400V~3P&N	6/12	*18.7	11.5	2750	37	59
PHV1500ER P2	1650 x 436 x 296	1604 x 436	400V~3P&N	9/18	*27.9	11.5	3840	53	60
PHV2000ER P2	2240 x 436 x 296	2190 x 436	400V~3P&N	12/24	*37.5	11.5	5500	71	61
LPHW									
PHV1000WR P2	1150 x 436 x 296	1104 x 436	230V~1P&N	12	1.3	10.5	2500	40	59
PHV1500WR P2	1650 x 436 x 296	1604 x 436	230V~1P&N	18	1.8	10.5	3500	55	60
PHV2000WR P2	2240 x 436 x 296	2190 x 436	230V~1P&N	24	2.7	10.5	5010	73	61

The ceiling void for PHV range recessed must be sufficiently large and freely ventilated so there will be an adequate supply of ventilation air (m³/hr) to the unit, see table below.

Air Curtain	Required air flow within ceiling void (m³/hr)	Effective free area of ventilation grille for an enclosed ceiling void (cm²)
PHV1000R	353	500
PHV1500R	421	700
PHV2000R	707	1200

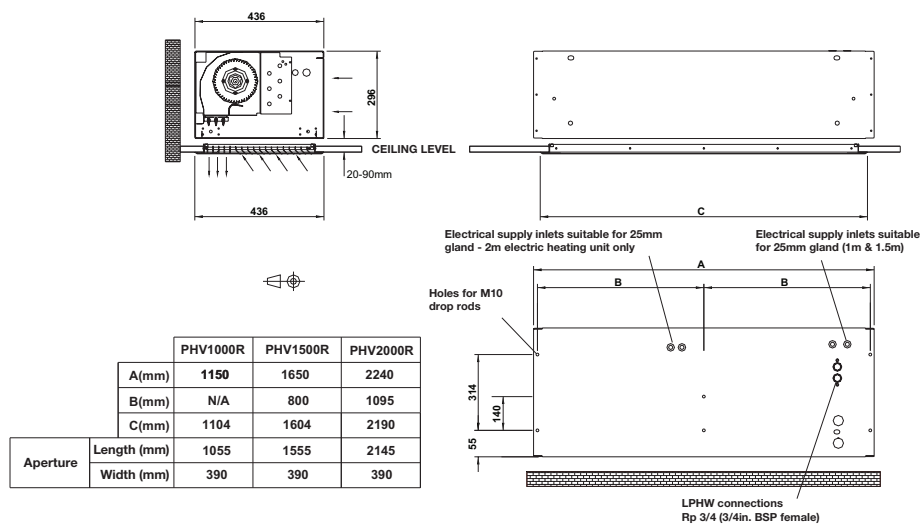
** Sound pressure levels (dBA) at 3m, as given in our brochure, are for a single air curtain mounted at its maximum mounting height, operating in a room with average acoustic characteristics as defined in CIBSE Guide B5 (reverberation time 0.7s) and a room size equivalent to 8 air changes per hour (ac/h). Care needs to be taken when selecting air curtains for an installation as noise levels can be several dB higher if the mounting height is reduced, if the room is more "live" (i.e. hard surfaces, no furnishings or absorbent materials), if the room is smaller than 8 ac/h equivalent or a combination of these factors. Noise levels will also increase if more than one air curtain is installed at the same doorway (e.g. + 3dBA for 2 equal point sources: direct field).

PHV Range Surface

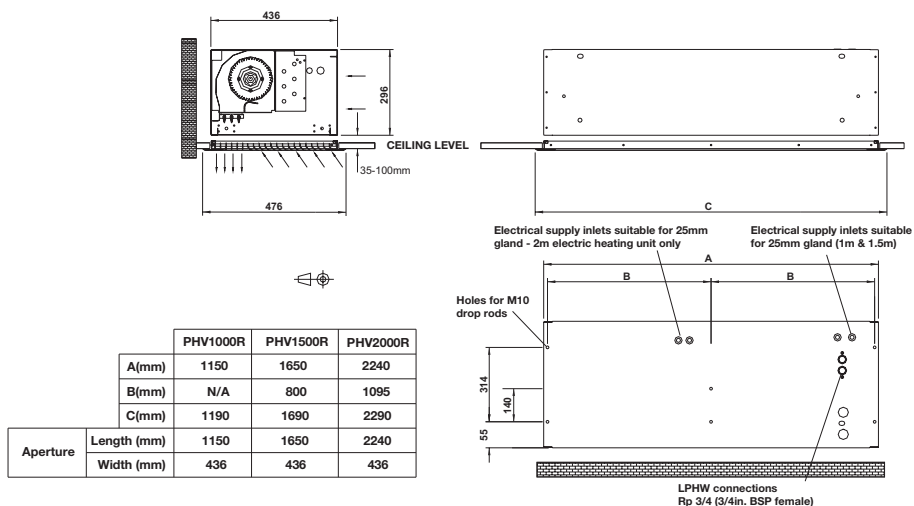


PHV Range Recessed

Standard Recessed Grille

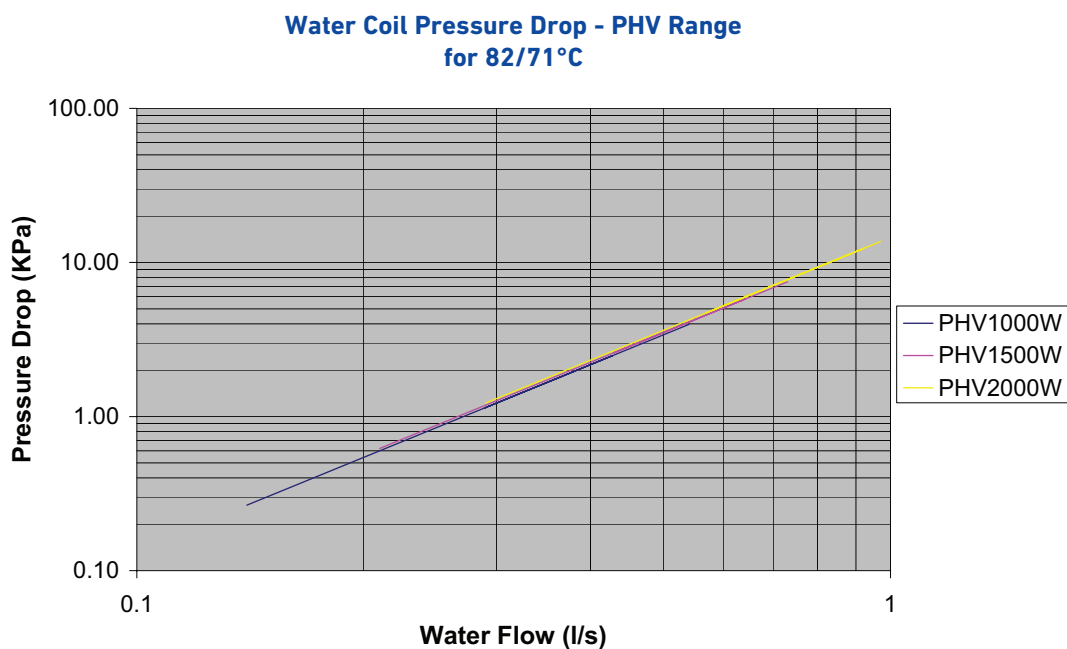


Wider Recessed Grille



COIL PRESSURE DROP AND WATER FLOW INFORMATION

Water coil pressure **PHV Range** Surface / Recessed



Water flow **PHV Range** Surface / Recessed

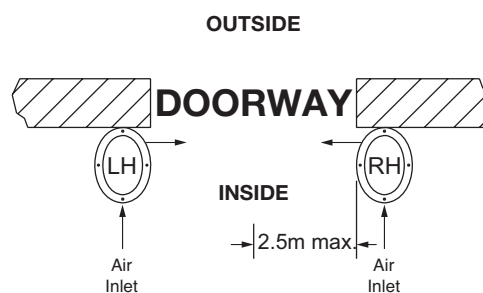
PHV Range	Water Flow Rate (l/s) 82/71°C	Coil Water Pressure Drop (kPa)
PHV1000W NT	0.29	1.14
PHV1500W NT	0.43	2.6
PHV2000W NT	0.57	4.72

PHV Range Recessed	Water Flow Rate (l/s) 82/71°C	Coil Water Pressure Drop (kPa)
PHV1000WR	0.29	1.14
PHV1500WR	0.43	2.6
PHV2000WR	0.57	4.72

Heat output on water units based on LPHW at 82°C / 71°C and air entering temperature of 20°C



Handing Guide



PHV Vertical Range

- Available in Electric, Water or Ambient
- Maximum effective width 2.5m
- Finish standard RAL 9010
- Tangential fans
- Electric and Water units are supplied with Ecopower energy saving control as standard
- 3-Way valve supplied with water units
- 82/71°C and 60/40°C low-grade water coils available
- Incorporates cross flow technology with turning vanes

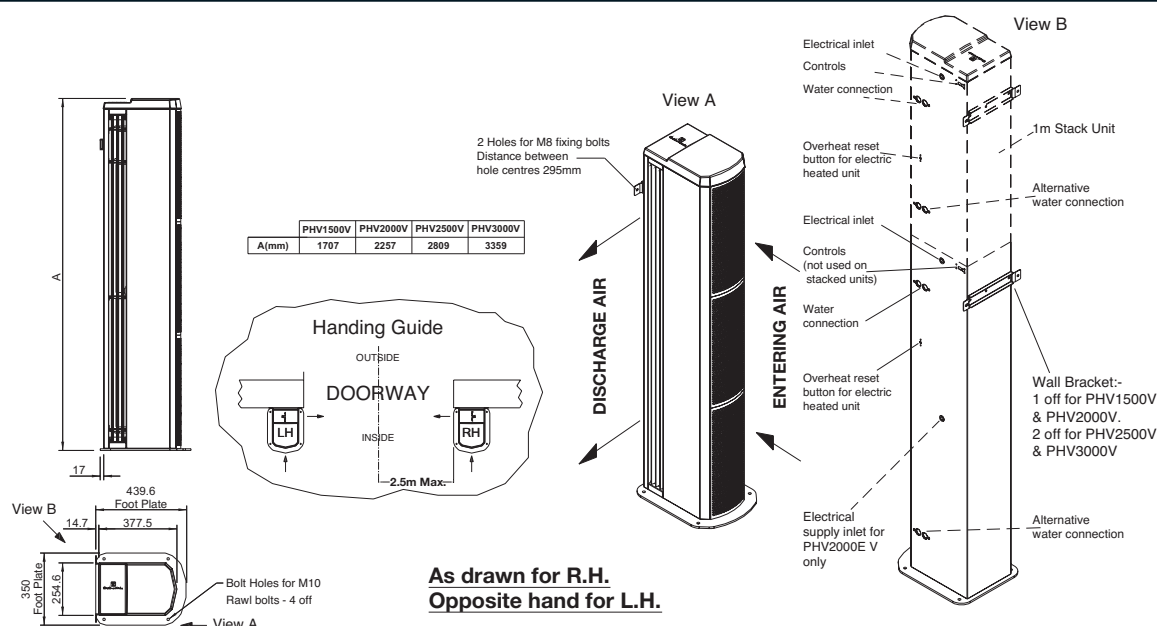


TECHNICAL SPECIFICATION

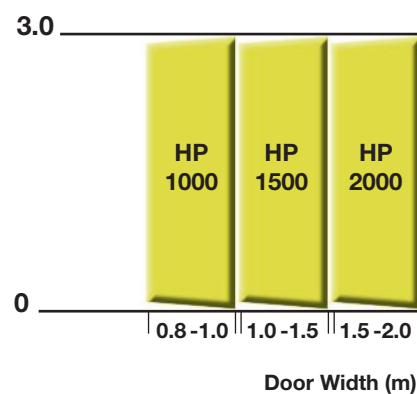
PHV Vertical Range

Models	Dimensions (mm) (L x D x W)		Supply (50Hz)	Heat Output (kW)	Loading (A) *per phase	Weight (kg)
Ambient						
PHV 1500A V	1707 x 439 x 350		230V~1P&N	0.4	1.8	60
PHV 2000A V	2257 x 439 x 350		230V~1P&N	0.6	2.7	77
PHV 2500A V (Stacked Unit)	2809 x 439 x 350	Top Air Curtain Bottom Air Curtain	230V~1P&N 230V~1P&N	0.3 0.4	1.3 1.8	99
PHV 3000A V (Stacked Unit)	3359 x 439 x 350	Top Air Curtain Bottom Air Curtain	230V~1P&N 230V~1P&N	0.3 0.6	1.3 2.7	116
Electric						
PHV 1500E V	1707 x 439 x 350		400V~3P&N	9/18	*27.9	66
PHV 2000E V	2257 x 439 x 350		400V~3P&N	12/24	*37.5	85
PHV 2500E V (Stacked Unit)	2809 x 439 x 350	Top Air Curtain Bottom Air Curtain	400V~3P&N 400V~3P&N	6/12 9/18	*18.7 *27.9	109
PHV 3000E V (Stacked Unit)	3359 x 439 x 350	Top Air Curtain Bottom Air Curtain	400V~3P&N 400V~3P&N	6/12 12/24	*18.7 *37.5	128
LPHW						
PHV 1500W V	1707 x 439 x 350		230V~1P&N	18	1.8	68
PHV 2000W V	2257 x 439 x 350		230V~1P&N	24	2.7	87
PHV 2500W V (Stacked Unit)	2809 x 439 x 350	Top Air Curtain Bottom Air Curtain	230V~1P&N 230V~1P&N	12 18	1.3 1.8	114
PHV 3000W V (Stacked Unit)	3359 x 439 x 350	Top Air Curtain Bottom Air Curtain	230V~1P&N 230V~1P&N	12 24	1.3 2.7	133

GA DRAWING



** Sound pressure levels (dBA) at 3m, as given in our brochure, are for a single air curtain mounted at its maximum mounting height, operating in a room with average acoustic characteristics as defined in CIBSE Guide B5 (reverberation time 0.7s) and a room size equivalent to 8 air changes per hour (ac/h). Care needs to be taken when selecting air curtains for an installation as noise levels can be several dB higher if the mounting height is reduced, if the room is more "live" (i.e. hard surfaces, no furnishings or absorbent materials), if the room is smaller than 8 ac/h equivalent or a combination of these factors. Noise levels will also increase if more than one air curtain is installed at the same doorway (e.g. + 3dBA for 2 equal point sources: direct field).



HP Range

- Available in Electric, Water or Ambient
- Available in surface mounted model
- Maximum mounting height - 3m
- Supplied with Centrifugal fans
- Filter as standard
- Electric and Water units are supplied with Ecopower energy saving controller
- 3-Way valve with water units
- 82/71°C and 60/40°C low-grade water coils available

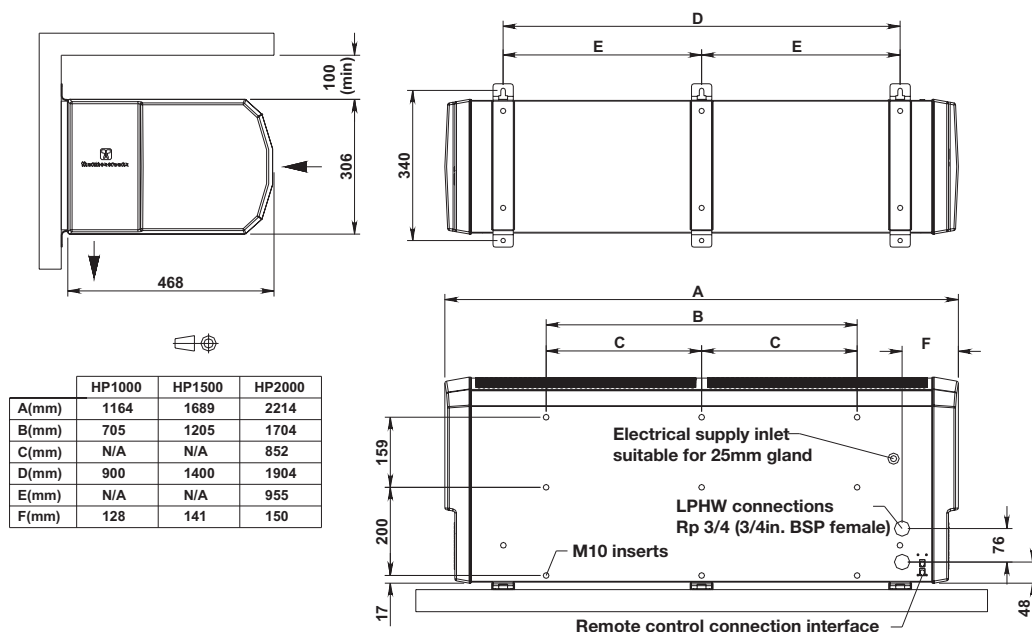


TECHNICAL SPECIFICATION

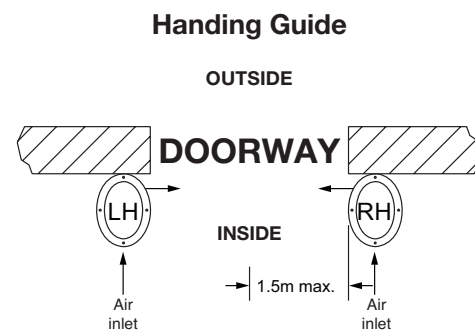
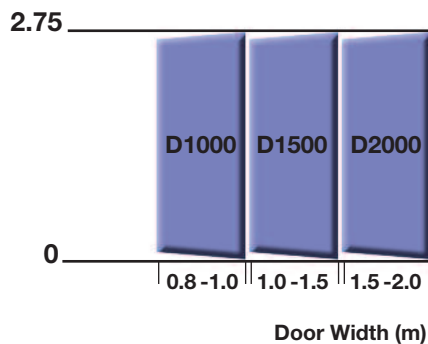
HP Range

Models	Dimensions (mm) (L x D x W)	Supply (50Hz)	Heat Output (kW)	Loading (A) *per phase	Max Velocity (m/s)	Max. Air Volume (m³/h)	Weight (kg)	**dB(A) @3m
Ambient								
HP1000A NT	1164 x 468 x 306	230V~1P&N	-	1.1	8.0	2000	36	57
HP1500A NT	1689 x 468 x 306	230V~1P&N	-	1.7	8.0	3000	52	58
HP2000A NT	2214 x 468 x 306	230V~1P&N	-	2.0	8.0	4000	63	59
Electric								
HP1000E NT	1164 x 468 x 306	400V~3P&N	6/12	*18.5	8.0	2000	37	57
HP1500E 12NT	1689 x 468 x 306	400V~3P&N	6/12	*18.9	8.0	3000	53	58
HP1500E 18NT	1689 x 468 x 306	400V~3P&N	9/18	*27.9	8.0	3000	53	58
HP2000E NT	2214 x 468 x 306	400V~3P&N	12/24	*37	8.0	4000	65	59
LPHW								
HP1000W NT	1164 x 468 x 306	230V~1P&N	12	1.1	7.5	1870	38	57
HP1500W NT	1689 x 468 x 306	230V~1P&N	18	1.7	7.5	2800	54	58
HP2000W NT	2214 x 468 x 306	230V~1P&N	24	2.0	7.5	3750	65	59

GA DRAWING



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Designer C Range

- Suitable for vertical or horizontal applications
- Available in Electric, Water or Ambient
- Maximum mounting height horizontal unit 2.75m
- Maximum effective width vertical unit 1.5m
- Designed to harmonize with the architectural features of the building
- Manufactured in high grade polished stainless steel
- Ecopower controller for energy saving supplied as standard
- 3-Way valve supplied with water units
- Supplied with Tangential fan
- Incorporates cross flow technology with turning vanes



TECHNICAL SPECIFICATION



Designer C Range Horizontal

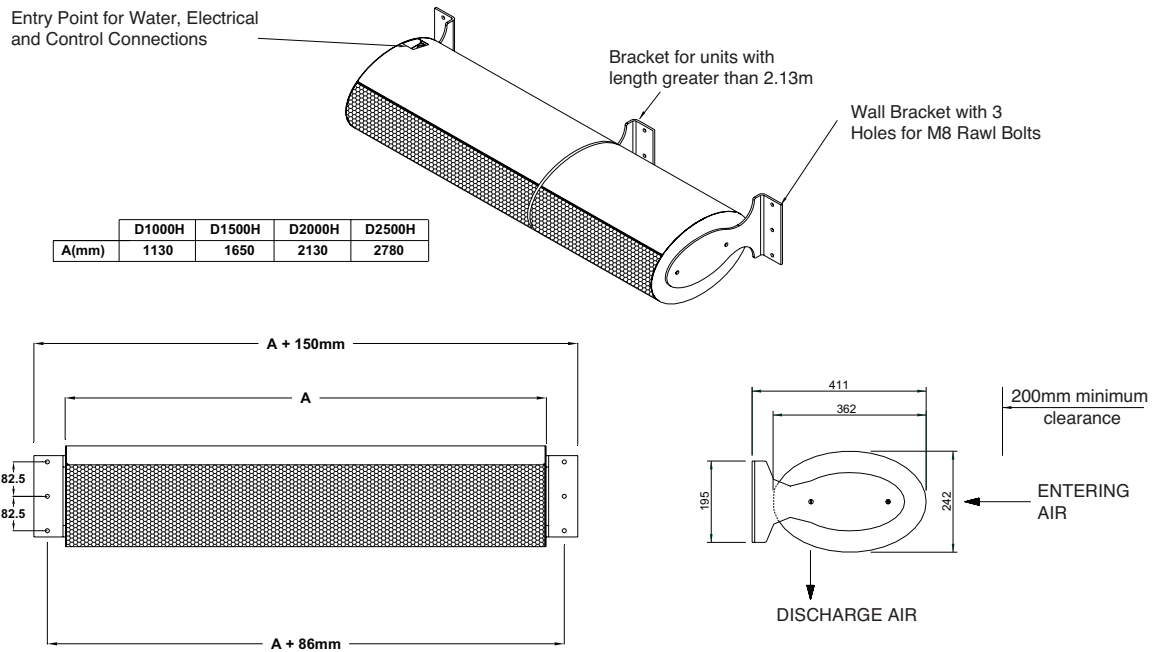
Models	Dimensions (mm) (L x D x W)	Supply (50Hz)	Heat Output (kW)	Loading (A) *per phase	Max. Velocity (m/s)	Max. Air Volume (m³/h)	Weight (kg)	**dB(A) @3m
Ambient								
D1000A	1130 x 362 x 242	230V~1P&N	-	0.7	8.5	1125	30	55
D1500A	1650 x 362 x 242	230V~1P&N	-	0.9	8.5	1620	43	55
D2000A	2130 x 362 x 242	230V~1P&N	-	1.1	8.5	2250	59	56
D2500A	2780 x 362 x 242	230V~1P&N	-	1.6	8.5	2745	73	58
Electric								
D1000E	1130 x 362 x 242	400V~3P&N	4.5/9	*13.7	8.5	1125	31	55
D1500E	1650 x 362 x 242	400V~3P&N	6/12	*18.3	8.5	1620	44	55
D2000E	2130 x 362 x 242	400V~3P&N	9/18	*27.2	8.5	2250	60	56
D2500E	2780 x 362 x 242	400V~3P&N	10.5/21	*32	8.5	2745	75	58
LPHW								
D1000W	1130 x 362 x 242	230V~1P&N	6	0.7	8	1060	32	55
D1500W	1650 x 362 x 242	230V~1P&N	9	0.9	8	1530	45	55
D2000W	2130 x 362 x 242	230V~1P&N	12	1.1	8	2124	62	56
D2500W	2780 x 362 x 242	230V~1P&N	15	1.6	8	2590	77	58

Designer C Range Vertical

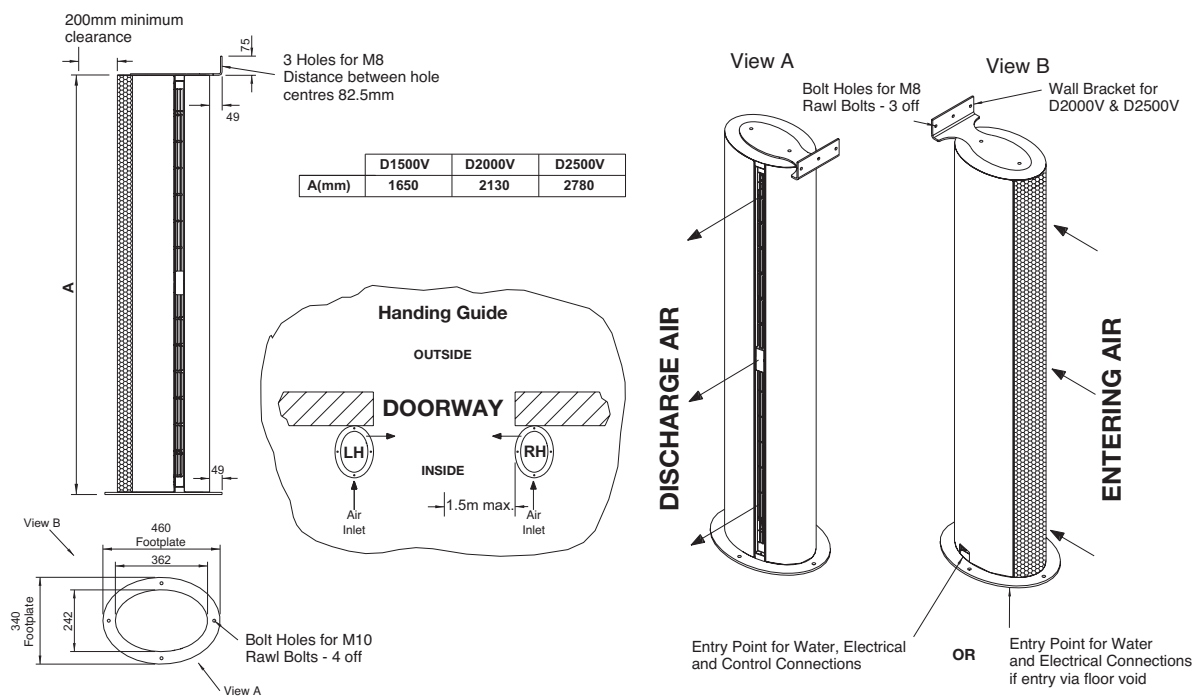
Models	Dimensions (mm) (L x D x W)	Supply (50Hz)	Heat Output (kW)	Loading (A) *per phase	Max Velocity (m/s)	Max. Air Volume (m³/h)	Weight (kg)	**dB(A) @3m
Ambient								
D1500A V	1650 x 362 x 242	230V~1P&N	-	0.9	8.5	1620	43	55
D2000A V	2130 x 362 x 242	230V~1P&N	-	1.1	8.5	2250	59	56
D2500A V	2780 x 362 x 242	230V~1P&N	-	1.6	8.5	2745	73	58
Electric								
D1500E V	1650 x 362 x 242	400V~3P&N	6/12	*18.3	8.5	1620	44	55
D2000E V	2130 x 362 x 242	400V~3P&N	9/18	*27.2	8.5	2250	60	56
D2500E V	2780 x 362 x 242	400V~3P&N	10.5/21	*32	8.5	2745	75	58
LPHW								
D1500W V	1650 x 362 x 242	230V~1P&N	9	0.9	8	1530	45	55
D2000W V	2130 x 362 x 242	230V~1P&N	12	1.1	8	2124	62	56
D2500W V	2780 x 362 x 242	230V~1P&N	15	1.6	8	2590	77	58

** Sound pressure levels (dB(A) at 3m, as given in our brochure, are for a single air curtain mounted at its maximum mounting height, operating in a room with average acoustic characteristics as defined in CIBSE Guide B5 (reverberation time 0.7s) and a room size equivalent to 8 air changes per hour (ac/h). Care needs to be taken when selecting air curtains for an installation as noise levels can be several dB higher if the mounting height is reduced, if the room is more "live" (i.e. hard surfaces, no furnishings or absorbent materials), if the room is smaller than 8 ac/h equivalent or a combination of these factors. Noise levels will also increase if more than one air curtain is installed at the same doorway (e.g. + 3dB(A) for 2 equal point sources: direct field).

Designer C Range Horizontal



Designer C Range Vertical

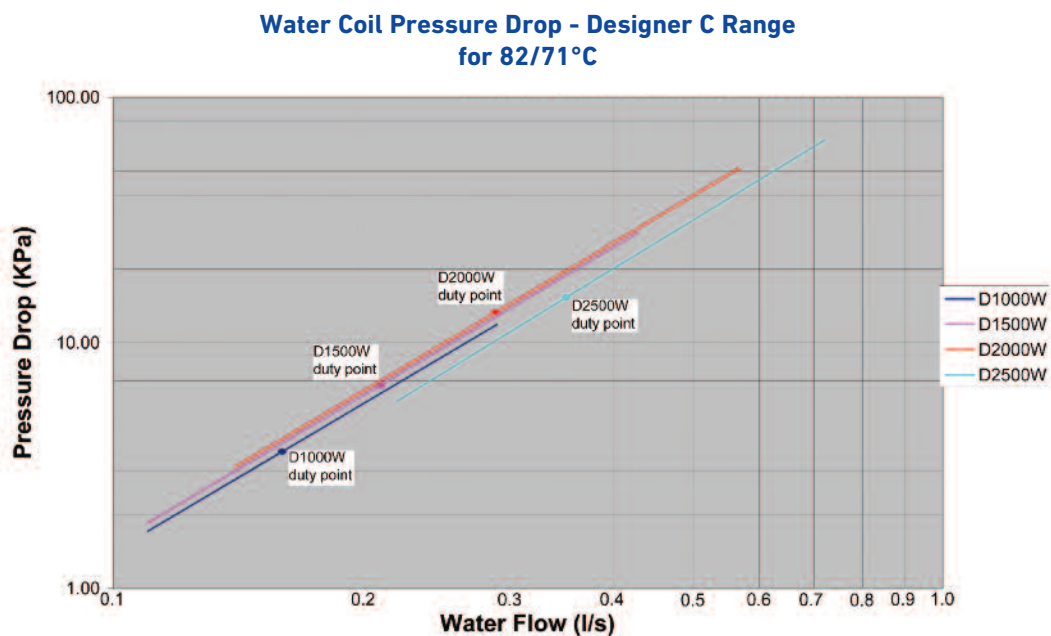


As Drawn for L.H.
Opposite Hand for R.H.



COIL PRESSURE DROP AND WATER FLOW INFORMATION

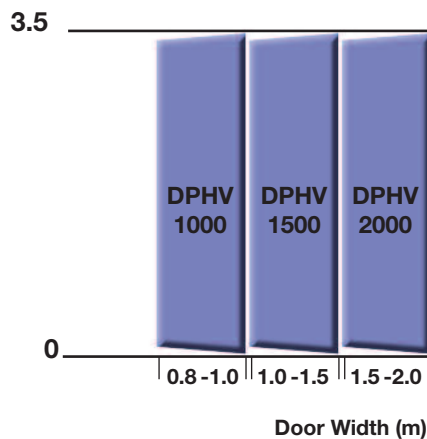
Water coil pressure Designer C Range



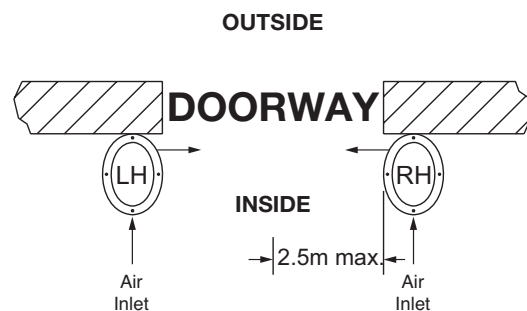
Water flow

Designer C Range	Water Flow Rate (l/s) 82/71°C	Coil Water Pressure Drop (kPa)
D1000W	0.14	2.77
D1500W	0.21	6.74
D2000W	0.29	13.4
D2500W	0.35	15.2

Heat output on water units based on LPHW at 82°C / 71°C and air entering temperature of 20°C



Handing Guide



Designer PHV Range

- Suitable for vertical or horizontal applications
- Available in Electric, Water or Ambient
- Maximum mounting height horizontal unit 3.5m
- Maximum effective width vertical unit 2.5m
- Designed to harmonize with the architectural features of the building
- Manufactured in high grade polished stainless steel
- Ecopower controller for energy saving supplied as standard
- 3-Way valve supplied with water units
- Tangential fans
- Incorporates cross flow technology with turning vanes
- 82/71°C and 60/40°C low-grade water coils available



TECHNICAL SPECIFICATION



Designer PHV Range Horizontal

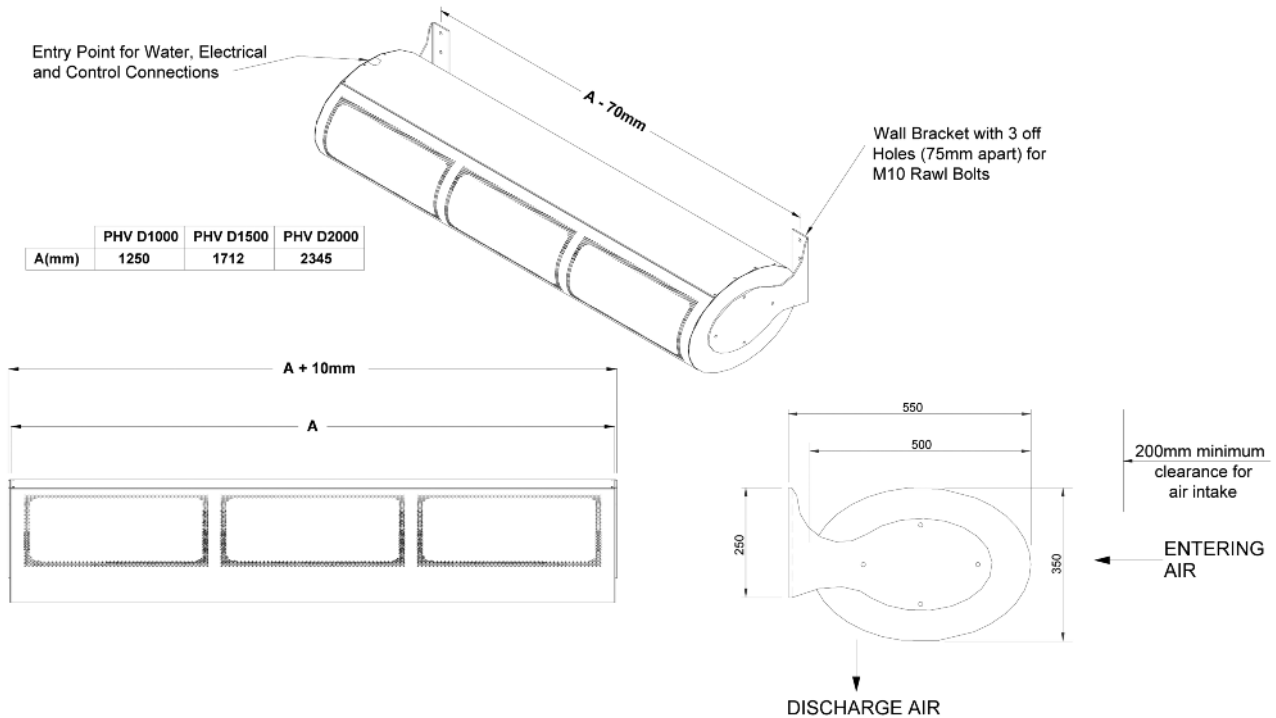
Models	Dimensions (mm) (L x D x W)	Supply (50Hz)	Heat Output (kW)	Loading (A) *per phase	Max Velocity (m/s)	Max. Air Volume (m³/h)	Weight (kg)	**dB(A) @3m
Ambient								
PHV D1000A	1260 x 500 x 350	230V~1P&N	-	1.5	11	2050	54	59
PHV D1500A	1722 x 500 x 350	230V~1P&N	-	2	11	3645	67	60
PHV D2000A	2355 x 500 x 350	230V~1P&N	-	2.9	11	4145	93	61
Electric								
PHV D1000E	1260 x 500 x 350	400V~3P&N	6/12	*18.7	10.5	1870	57	59
PHV D1500E	1722 x 500 x 350	400V~3P&N	9/18	*27.9	10.5	3325	71	60
PHV D2000E	2355 x 500 x 350	400V~3P&N	12/24	*37.5	10.5	3780	99	61
LPHW								
PHV D1000W	1260 x 500 x 350	230V~1P&N	12	1.3	9.5	1710	61	59
PHV D1500W	1722 x 500 x 350	230V~1P&N	18	1.8	9.5	2730	82	60
PHV D2000W	2355 x 500 x 350	230V~1P&N	24	2.7	9.5	3455	107	61

Designer PHV Range Vertical

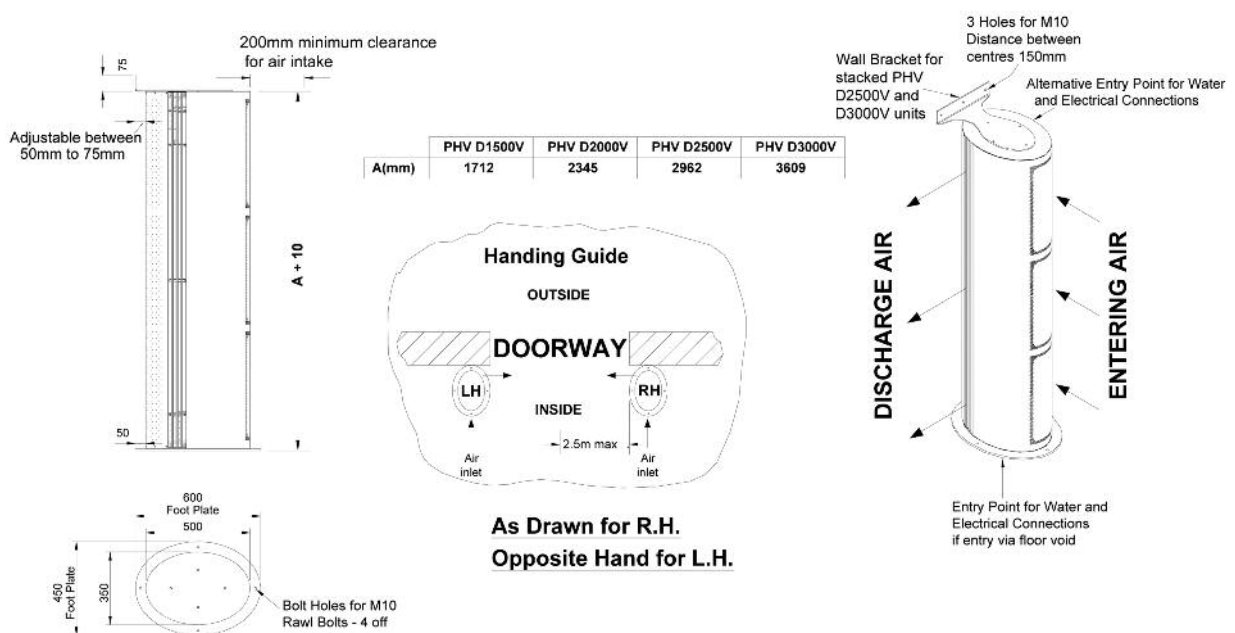
Models	Dimensions (mm) (L x D x W)		Supply (50Hz)	Heat Output (kW)	Loading (A) *per phase	Max. Velocity (m/s)	Max. Air Volume (m³/h)	Weight (kg)	**dB(A) @3m
Ambient									
PHV D1000A V	1260 x 500 x 350		230V~1P&N	-	1.5	11	2050	54	59
PHV D1500A V	1722 x 500 x 350		230V~1P&N	-	2	11	3645	67	60
PHV D2000A V	2355 x 500 x 350		230V~1P&N	-	2.9	11	4145	93	61
PHV D2500A V (Stacked Unit)	2972 x 500 x 350	Top Air Curtain Bottom Air Curtain	230V~1P&N 230V~1P&N	0.3 0.4	1.5 2	11 11	2050 3645	121	62
PHV D3000A V (Stacked Unit)	3619 x 500 x 350	Top Air Curtain Bottom Air Curtain	230V~1P&N 230V~1P&N	0.3 0.6	1.5 2.9	11 11	2050 4145	147	63
Electric									
PHV D1000E V	1260 x 500 x 350		400V~3P&N	6/12	*18.7	10.5	1870	57	59
PHV D1500E V	1722 x 500 x 350		400V~3P&N	9/18	*27.9	10.5	3325	71	60
PHV D2000E V	2355 x 500 x 350		400V~3P&N	12/24	*37.5	10.5	3780	99	61
PHV D2500E V (Stacked Unit)	2972 x 500 x 350	Top Air Curtain Bottom Air Curtain	400V~3P&N 400V~3P&N	6/12 9/18	*18.7 *27.9	10.5 10.5	1870 3325	146	62
PHV D3000E V (Stacked Unit)	3619 x 500 x 350	Top Air Curtain Bottom Air Curtain	400V~3P&N 400V~3P&N	6/12 12/24	*18.7 *37.5	10.5 10.5	1870 3780	177	63
Water									
PHV D1000W V	1260 x 500 x 350		230V~1P&N	12	1.3	9.5	1710	61	59
PHV D1500W V	1722 x 500 x 350		230V~1P&N	18	1.8	9.5	3040	82	60
PHV D2000W V	2355 x 500 x 350		230V~1P&N	24	2.7	9.5	3455	107	61
PHV D2500W V (Stacked Unit)	2972 x 500 x 350	Top Air Curtain Bottom Air Curtain	230V~1P&N 230V~1P&N	12 18	1.3 1.8	9.5 9.5	1710 3040	128	62
PHV D3000W V (Stacked Unit)	3619 x 500 x 350	Top Air Curtain Bottom Air Curtain	230V~1P&N 230V~1P&N	12 24	1.3 2.7	9.5 9.5	1710 3455	156	63

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Designer PHV Range Horizontal

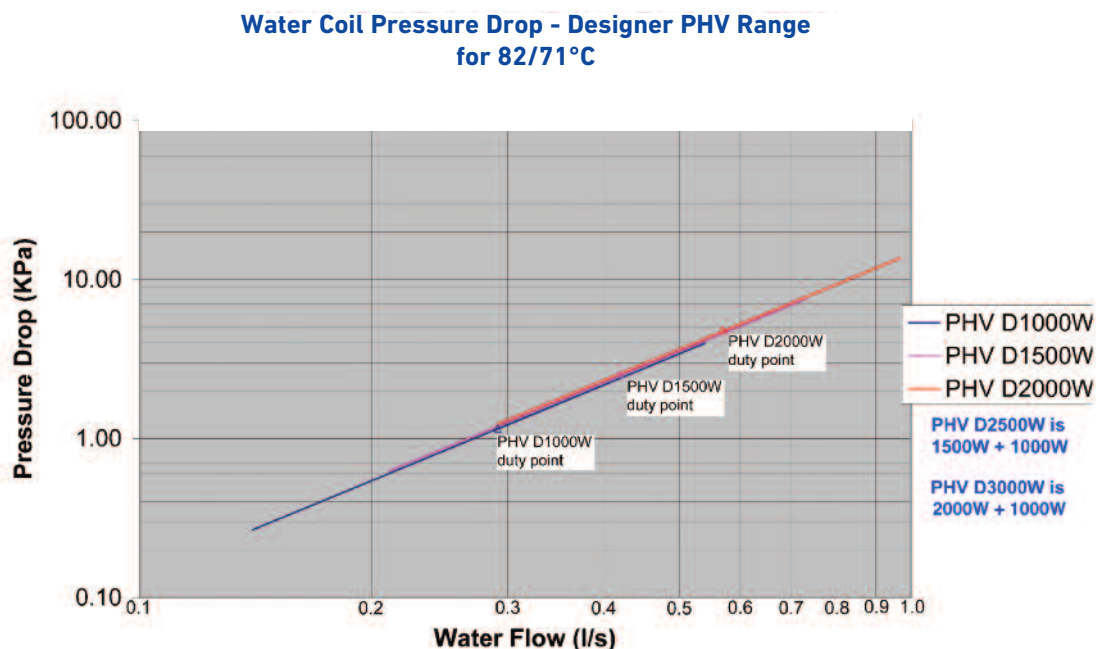


Designer PHV Range Vertical



COIL PRESSURE DROP AND WATER FLOW INFORMATION

Water coil pressure Designer PHV Range

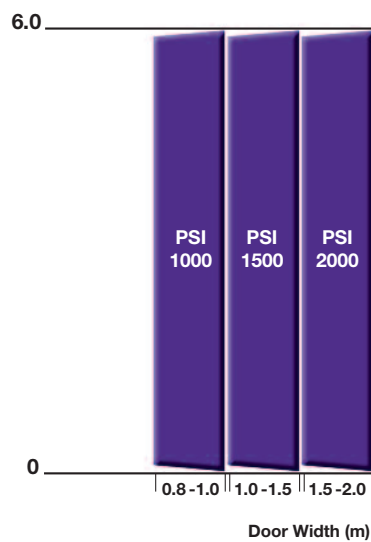


Water flow

Designer PHV Range		Water Flow Rate (l/s) 82/71°C	Coil Water Pressure Drop (kPa)
PHV D1000W		0.29	1.14
PHV D1500W, PHV D1500W V		0.43	2.6
PHV D2000W, PHV D2000W V		0.57	4.72
PHV 2500W V (Stacked Unit)	Top Air Curtain	0.29	1.14
	Bottom Air Curtain	0.43	2.6
PHV 3000W V (Stacked Unit)	Top Air Curtain	0.29	1.14
	Bottom Air Curtain	0.57	4.72

Heat output on water units based on LPHW at 82°C / 71°C and air entering temperature of 20°C

PSI RANGE



PSI Range

- Available in Electric, Water or Ambient
- Maximum mounting height - 6m
- Supplied as surface mounted units
- Supplied with Centrifugal fans
- Supplied with a switch box controller
- Units are suitable for industrial application such as warehouses, factories and airports
- 82/71°C coils and 60/40 low-grade water coils available



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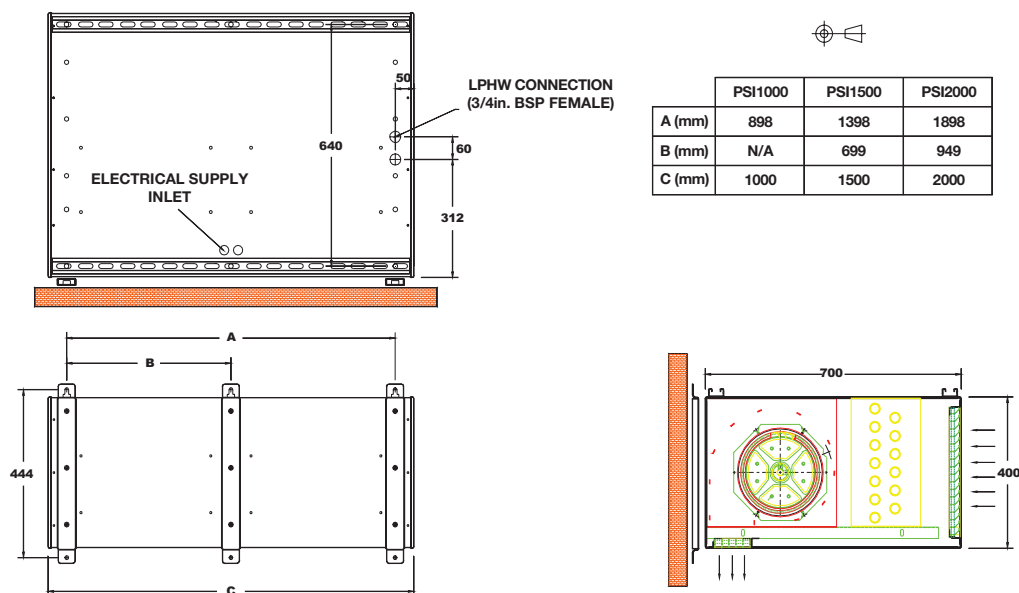
TECHNICAL SPECIFICATION

PSI Range

Models	Dimensions (mm) (L x D x W)	Supply (50Hz)	Heat Output (kW)	Loading (A) *per phase	Max Velocity (m/s)	Max. Air Volume (m³/h)	Weight (kg)	**dB(A) @3m
Ambient								
PSI1000A	1000 x 700 x 400	230V~1P&N	-	5	17.5	4020	58	72
PSI1500A	1500 x 700 x 400	230V~1P&N	-	7.5	17.5	6000	80	74
PSI2000A	2000 x 700 x 400	230V~1P&N	-	10	17.5	8040	110	75
Electric								
PSI1000E	1000 x 700 x 400	400V~3P&N	12/24	*38.3	17.5	4020	63	72
PSI1500E	1500 x 700 x 400	400V~3P&N	18/36	*57.5	17.5	6000	86	74
PSI2000E	2000 x 700 x 400	400V~3P&N	24/48	*76.6	17.5	8040	110	75
LPHW								
PSI1000W	1000 x 700 x 400	230V~1P&N	24	5	16	3675	63	72
PSI1500W	1500 x 700 x 400	230V~1P&N	36	7.5	16	5485	86	74
PSI2000W	2000 x 700 x 400	230V~1P&N	48	10	16	7350	110	75

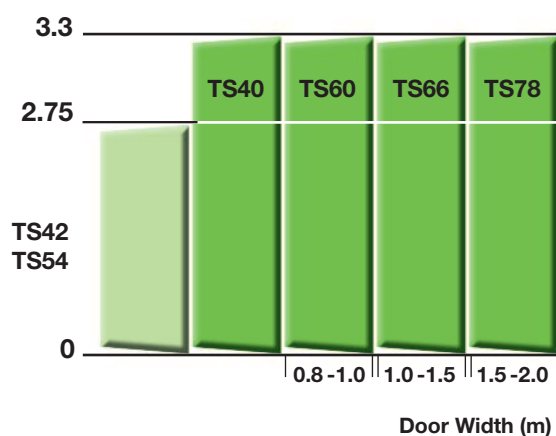
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PSI Range



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TS RANGE COLD STORE



TS Range Cold Store

- Suitable for horizontal applications
- Maximum mounting height - 3 phase units 3.3m
- Maximum mounting single phase units 2.75m
- Available in single phase or three phase
- Corrosion proof casing
- Centrifugal fan
- Units are specifically engineered for cold store and freezer room applications
- The air duct can be adjusted to direct the flow of air at the desired angle for optimum result



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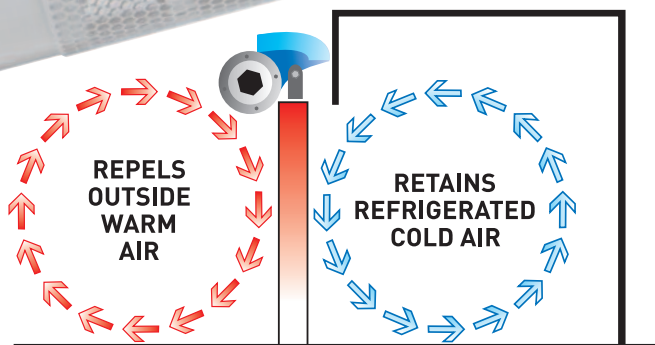
COLD STORE RANGE

When a chilled or frozen store door is opened an exchange of air takes place which results in large amounts of energy being lost. Warm air is exchanged for the cold air which causes inconsistency in internal temperatures. Moisture infiltration can create food safety issues in chilled stores and health and safety problems in frozen stores as the moisture turns to ice.

The TS range of air curtains create an effective barrier across the entrance of chilled and frozen stores preventing the loss of cold air and the infiltration of heat, resulting in substantial energy savings.

Features of TS Range:

- Suitable for protection of low temperature cold stores at -30°C and preparation rooms at 12°C.
- Air discharge is designed to provide an expanding air curtain of greater width than the diffuser. This unique feature provides extra protection at the side of the doorway and permits effective protection for openings wider than the unit.
- Units constructed from corrosion resistant plastics and all metal fittings are epoxy coated for long life.
- Modular design allows units to be fitted together to fit wider door openings.



TECHNICAL SPECIFICATION

TS Range

Models	Dimensions (mm) (L x D x W)	Supply (50Hz)	Loading (A) *per Phase	Max Velocity (m/s)	Max. Air Volume (m³/h)	Weight (kg)	**dB(A) @3m
Ambient							
TS42	1080 x 280 x 275	230V~1P&N	1.8	11.9	1011	16	71
TS54	1380 x 280 x 265	230V~1P&N	1.8	9.5	913	18	69
TS40	1000 x 370 x 385	400V~3P&N	*1.8	15.8	1845	23	77
TS60	1520 x 370 x 385	400V~3P&N	*1.8	10	1800	24	77
TS66	1690 x 370 x 385	400V~3P&N	*1.8	11.3	1760	26	77
TS78	1990 x 370 x 385	400V~3P&N	*1.8	11.1	1710	28	77

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AIR CURTAIN ACCESSORIES

■ Ambient Models:

Ambient NT units are supplied with a remote switch unit. The switch unit allows the air curtain to be powered on/off and to select one of the three fan speeds.

Part No. : T7263660



■ End Caps:

Available for all NT Products



■ Joining Kits:

Available for C/T/PHV/HP units of the NT Range. To be used when making multiple parallel installations. This will provide the optical illusion of looking at a single long unit instead of multiple units mounted together.

Part No. : T7308220 - C NT

Part No. : T7308200 - T & PHV NT

Part No. : T7308210 - HP NT

■ Door Limit Switch:

Provided as standard with Single Phase TS Cold Store units. The DLS can also be used with Ambient units and C Electric NT units as an optional extra. The device will switch the unit on/off as the door opens/closes. Useful for places where the flow of people is less constant.

Part No. : T7260200



■ 3 Way Mid Position Valve:

Valve comes as standard with all Ecopower LPHW units. It is designed to optimize energy consumption while maintaining a comfortable environment at a constant desired temperature.

Part No. : T7760111



■ Extension Leads:

To be used for 'Master & Slave' installations or simply to extend the Ecopower Controller lead. Maximum recommended length of the extension leads is 30m.

Part No. : T5951001 - 3mtr (excludes coupler)

Part No. : T5951050 - 10mtr (excludes coupler)

Part No. : T5951060 - 15mtr (excludes coupler)

Part No. : T5951020 - 30mtr (includes coupler)

Part No. : T5951030 - Coupler

■ Ecopower Controller:

The Ecopower Controller is fitted as standard on all models except for PSI, TS and Ambient models.

Part No. : T7263600



AIR CURTAIN EQUIPMENT SPECIFICATION

■ Surface mounted units (C,T,PHV,HP Range)

- The casing cabinet is constructed of corrosion resistant pre-finished 20 gauge sheet steel finished in white colour (RAL 9010).
- The discharge grille is produced from extruded tear drop profile section.
- Units can be painted to any RAL colour.
- Units are IP21 rated.

■ Recessed Units (T, PHV Range)

- The casing cabinet is constructed of corrosion resistant 20 gauge galvanised sheet steel. Decorative ceiling grille with separate discharge and air inlet sections produced from aluminium profiles available as standard in anodised aluminium grey or other RAL colours.
- Units are IP 21 rated.

■ Recessed Unit (C Range)

- The casing cabinet is constructed of corrosion resistant 18 gauge galvanised sheet steel.
- Decorative ceiling grille with separate discharge and air inlet sections produced from aluminium profiles available as standard in anodised aluminium grey or white (RAL 9010).
- Units are IP 21 rated.

■ Designer Vertical Range

- The casing cabinet is constructed of corrosion resistant 20 gauge polished stainless steel with internal 16 gauge galvanised metal framework reinforcement.
- The discharge grille is produced from extruded teardrop profile section and fitted with turning vanes to generate good air velocity projection with high uniformity.
- Units can be painted to any RAL colour or supplied in brushed stainless steel.
- Units are IP 21 rated.

■ PSI Industrial Range

- The casing cabinet is constructed of corrosion resistant pre-finished 20 gauge sheet steel finished in white colour (RAL 9010) with internal 16 gauge galvanised sheet steel reinforcement.
- The inlet and discharge grille are produced in a satin anodised finish.
- Units are IP 21 rated.

■ TS Cold Store Range

- The casing cabinet is constructed of corrosion resistant glass-reinforced plastic with painted metal parts.
- Units are IP 44 rated.

■ JET Over Door Heater

- The casing cabinet is constructed of corrosion resistant pre-finished 20 gauge sheet steel finished in white colour (RAL 9010).

■ T600ER and T800ER (Small T Recessed Over Door Heater)

- The casing cabinet is constructed of corrosion resistant 20 gauge galvanised sheet steel.

■ Fans and Motors

- PHV Fans are 150mm diameter forward curved metal bladed crossflow impellers.
- C Range fans are 100mm diameter forward curved metal bladed crossflow impellers.
- T and HP range fans are 146mm diameter forward curved centrifugal fans on a fan deck.
- Powered by 4-pole AC induction motors on resilient mountings, suitable for continuous heavy-duty operation, protected by an automatic reset thermal switch with sealed for life pre-lubricated sleeve bearings.
- The specific fan power of the air curtain shall be less than 0.55 W/l/s on high fan speed.

JET RANGE OVER DOOR HEATERS



Jet Range

- Electrically heated over door heater
- Maximum mounting height 2.3m
- Curved styling
- Available in 3, 4.5 and 6kw
- Full heat and half heat setting
- Bracket mounted, enabling angular adjustment of heat flow
- Supplied as RAL 9010
- Supplied with Tangential fan
- Ideal for small shops, kiosks and drive through windows



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Jet Range

Models	Dimensions (mm) (L x D x W)	Supply (50Hz)	Heat Output (kW)	Electrical Input (W)	Max Velocity (m/s)	Max. Air Volume (m³/h)	Weight (kg)	**dB(A) @3m
JET 3	600 x 120 x 201	230V~1P&N	1.5/3	3030	6	200	4.5	46.5
JET 4.5	800 x 120 x 201	230V~1P&N	2.25/4.5	4540	6.5	290	5.5	49.5
JET 6	800 x 120 x 201	230V~1P&N	3/6	6055	8	370	5.5	56

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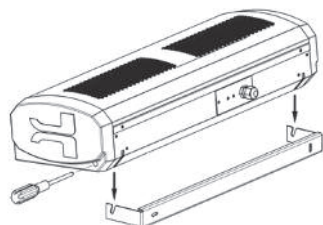
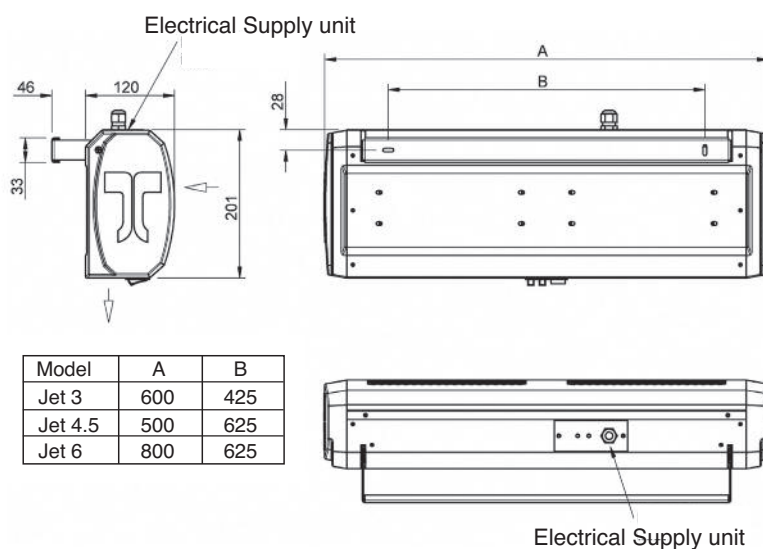


Figure 1: Mounting Bracket Alignment

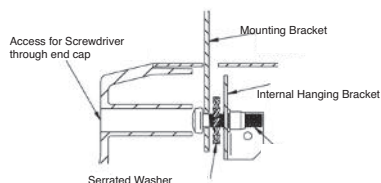
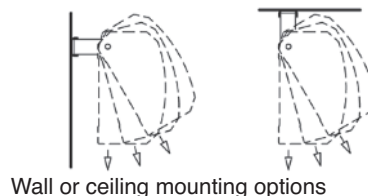


Figure 2: Cross section view & mounting bracket



Typical Installation - Wall Mounting

1. Use mounting bracket as template and mark two fixing holes on wall or ceiling.
2. Drill mounting holes and secure bracket into position.
3. Hang the unit and secure fastening hardware.
4. Open power connection plate.
5. Connect electrical supply.
6. Close power connection plate and secure cable gland.

A combination of units joined end to end will provide coverage on greater spans.

T RANGE OVER DOOR HEATERS



T Range

- Available in 3 or 4.5 kW
- Maximum mounting height 2.3m
- Recessed model with wall mounted controller and ceiling grille included
- Electrically heated over door heater
- Two heat settings
- Standard Grille RAL 9010



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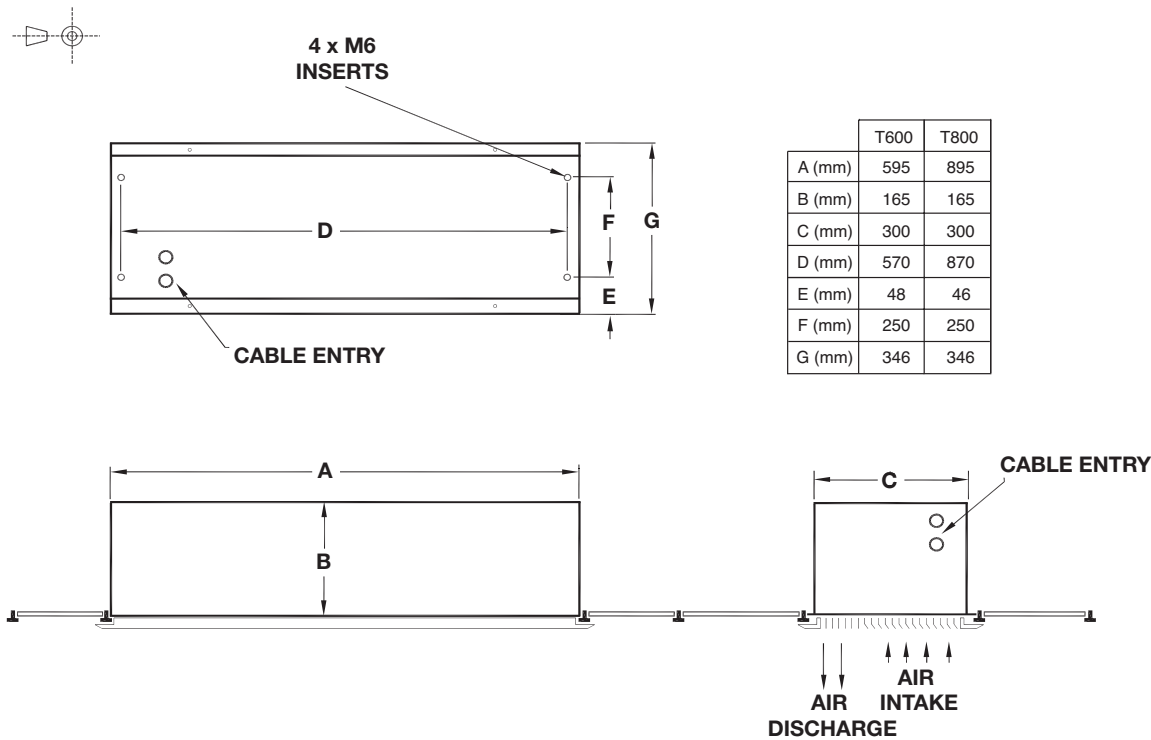


T Range Over Door Heater

Models	Dimensions (mm) (L x D x W)	Supply (50Hz)	Heat Output (kW)	Loading (A) *per phase	Max Velocity (m/s)	Max. Air Volume (m³/h)	Weight (kg)	**dB(A) @3m	
Electric									
T600ER	595 x 347 x 162	230V~1P&N	1.5/3	*13.5	4.1	300	7.5	58	
T800ER	895 x 347 x 162	230V~1P&N	3/4.5	*20	4.5	360	9	58	

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All Thermoscreens products are certified in accordance with CE regulations
and where applicable comply with the following standards:

EN 60335-2-30, 2004/108/EC Electromagnetic Compatibility (EMC),

Machinery Directive (2006/42/EC, as amended by 91/368/ECC, 93/44/EEC and 90/68/EEC)

Low Voltage Directive, (72/23/EEC as amended by 93/68/EEC)

Pressure Equipment Directive (97/23/EC)

IP21 Rating CSA - Standard 22.2 UL 2021 / UL 1995, GOST R 23511-79, GOST R 50033-92



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Issue 2

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