



thermoscreens®

air curtains





thermoscreens®

CONTENTS

THERMOSCREENS	04	HP RANGE	24
WHY FIT AN AIR CURTAIN?	05	Technical specifications and GA drawing	25
AIR CURTAIN SELECTION GUIDE	06	DESIGNER C RANGE	26
THERMOSCREENS SELECTION OVERVIEW	07	Technical specifications	27
AIR VELOCITY DISTRIBUTION CHART	08	GA drawing	28
ECOPOWER CONTROL	09	Coil pressure drop and water flow information	29
C RANGE / C RANGE RECESSED	10	DESIGNER PHV RANGE	30
Technical specifications	11	Technical specifications	31
GA drawing	12	GA drawing	32
Coil pressure drop and water flow information	13	Coil pressure drop and water flow information	33
T RANGE / T RANGE RECESSED	14	PSI RANGE (INDUSTRIAL)	34
Technical specifications	15	Technical specifications and GA drawing	35
GA drawing	16	TS RANGE (COLD STORE)	36
Coil pressure drop and water flow information	17	Technical specifications	37
PHV RANGE / PHV RANGE RECESSED	18	AIR CURTAIN ACCESSORIES	38
Technical specifications	19	AIR CURTAIN EQUIPMENT SPECIFICATION	39
GA drawing	20	JET RANGE OVER DOOR HEATER	40
Coil pressure drop and water flow information	21	Technical specifications and GA drawing	41
PHV VERTICAL RANGE	22	T RANGE OVER DOOR HEATER	42
Technical specifications and GA drawing	23	Technical specifications and GA drawing	43



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Established in the 1960s, Thermoscreens is a long-established, leading air curtain manufacturer that exports to over 60 countries worldwide.

Thermoscreens air curtains increase energy efficiency and improve comfort in retail, commercial, architectural and industrial applications. They can be installed in any frequently used entrance, but typical applications include: High street stores, Shopping centres, Hospitals, Hotels, Banks, Factories, and Warehouses.

Thermoscreens offers heated, ambient and cold store products, which:

- can be surface mounted, recessed or installed vertically
- are available in 1m, 1.5m and 2m lengths, which can be seamlessly joined together if required
- are available in brushed stainless steel or white, or powder painted in a range of colours to match colour themes or décor

As an industry innovator, Thermoscreens is actively responding to environmental issues. All products are designed with energy efficiency in mind, and the need to reduce energy consumption and CO2 emissions is being addressed through new innovations and revolutionary solutions. The introduction of Ecopower Air technology means end users can now benefit from further energy savings, as well as increased comfort. Ecopower Air technology offers superior climate separation across a doorway through enhanced air stream projection and air stream uniformity

Understanding its responsibility towards sustainability, Thermoscreens adheres strictly to the Environmental Management Systems BS EN ISO14001:2004.

Underpinning all of this is Thermoscreens' commitment to product quality, reliability, performance and delivery – evidenced by accreditation to the Quality Management Systems BS EN ISO9001:2008.

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



thermoscreens®

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:**

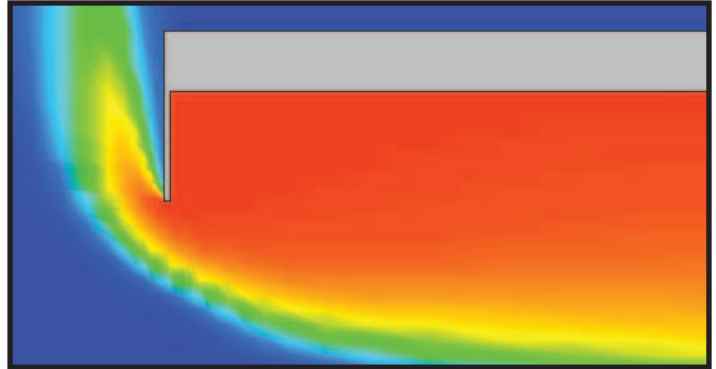
Air curtains help to ensure a clean and healthy environment.

■ **Health and Safety:**

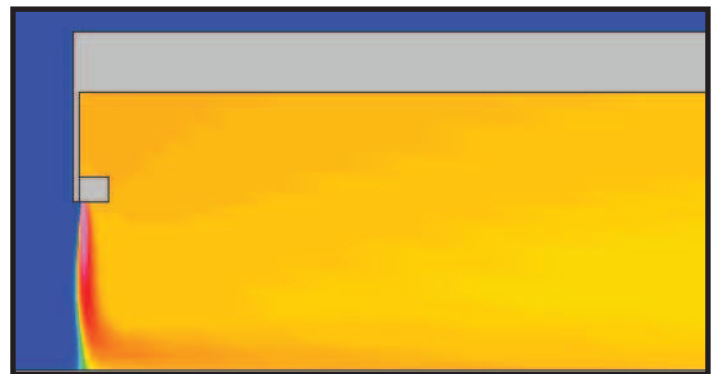
In refrigeration applications, Thermoscreens cold store air curtains can significantly reduce the ingress of warm air when doors are required to be left open for access helping to retain the refrigerated air inside.

■ **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

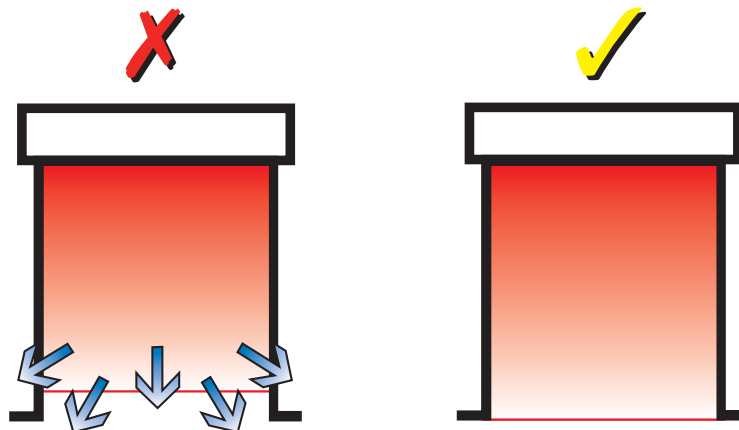


Recessed

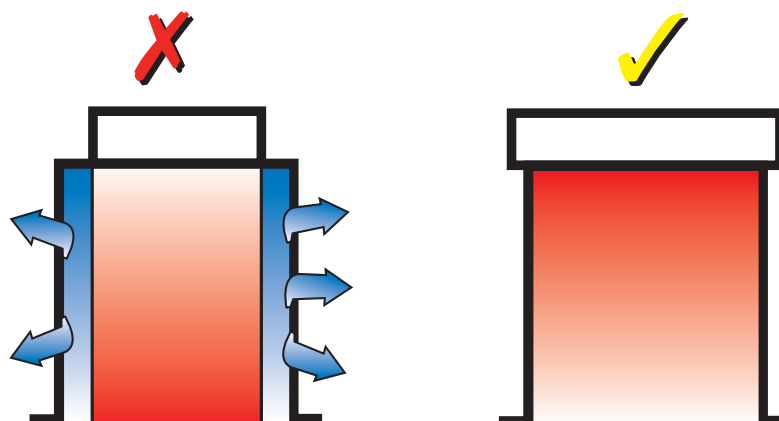


- **Voltage and power supply**

- **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).



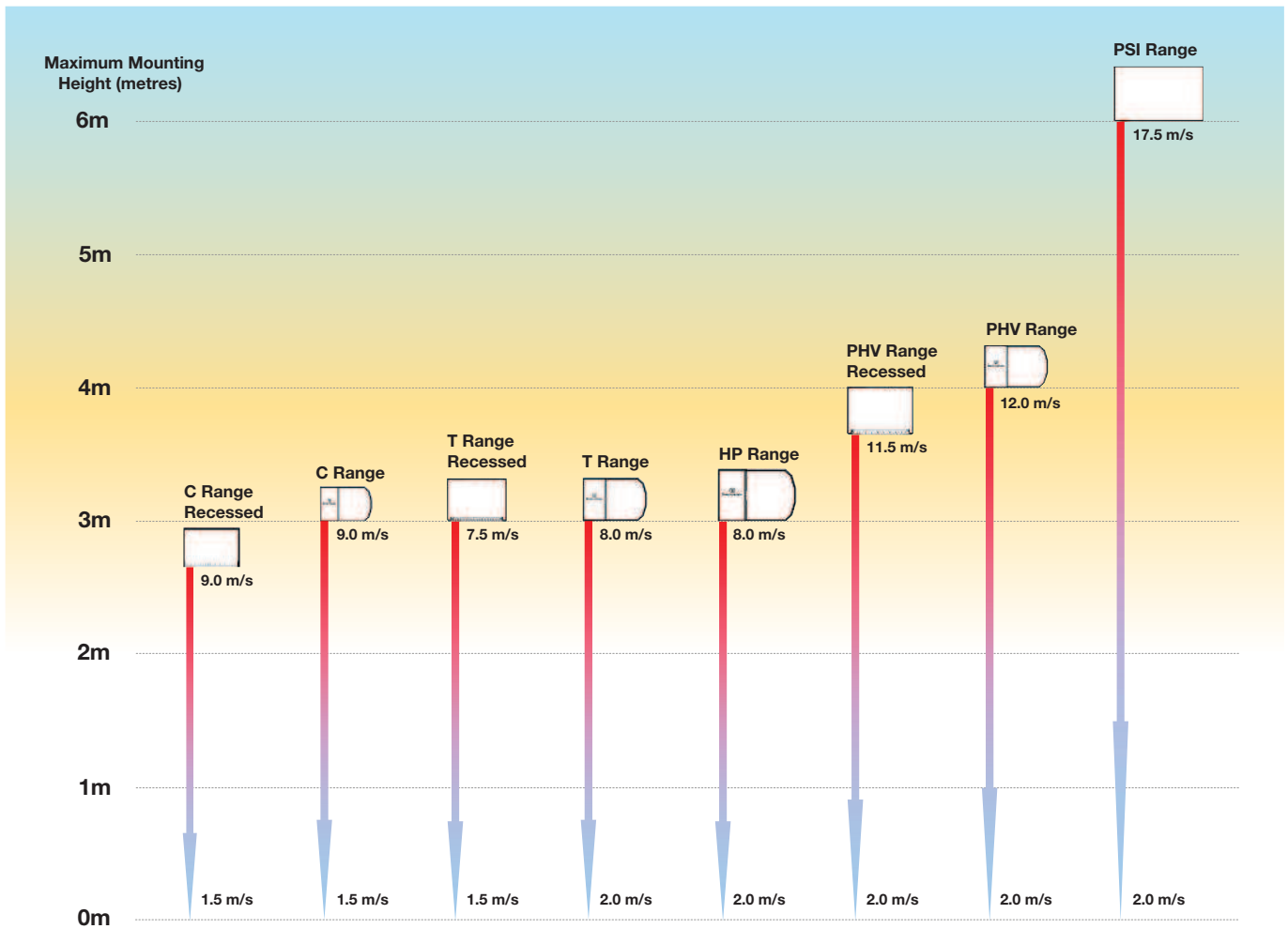
THERMOSCREENS SELECTION OVERVIEW

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	
					Surface	Recessed		
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.



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

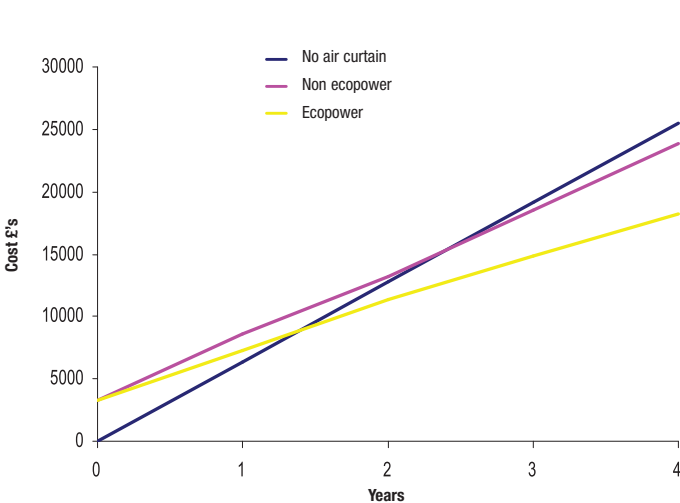
The easy-to-use controller can be set in 'auto mode' to ensure that consistent comfort levels are thermostatically maintained. Alternatively, the Ecopower Controller can be manually set for constant 50% or 100% heat output or zero heat output to provide a barrier of ambient air during warmer weather 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. The Ecopower Control can provide an annual saving of up to £1,555.*



*Figures quoted are for reference purposes only

- Non ecopower: £4,034
- Ecopower: £2,479
- Annual Saving: £1,555

■ 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:

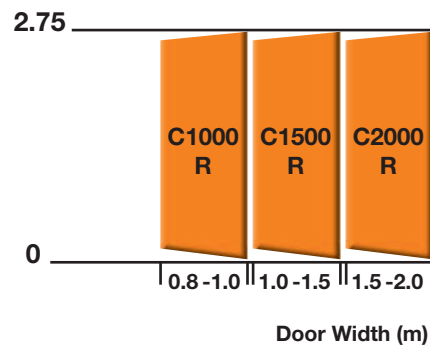
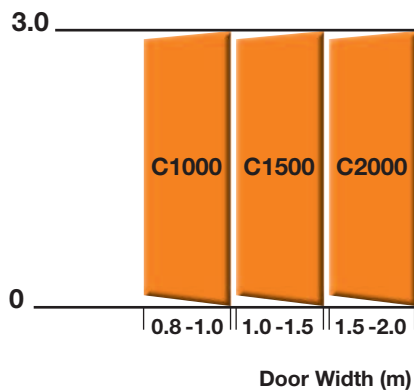
The Ecopower Controller is quick and easy to install as it incorporates low voltage switch cabling, eliminating the need for mains rated conduit runs. In addition, the quick-fit plug-in connectors allow multiple units to be simply linked together using the optional RJ lead.



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
- Master Slave Single Temp Sensor
- Air Temperature Sensor



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 (m ³ /h)	Weight (kg)	**dB(A) @3m High, Med, Low
Ambient								
C1000A NT	1137 x 275 x 198	230V~1P&N	-	0.7	9.0	1250	15	55 53 50
C1500A NT	1669 x 275 x 198	230V~1P&N	-	0.9	9.0	1800	21	55 53 49
C2000A NT	2200 x 275 x 198	230V~1P&N	-	1.1	9.0	2500	31	56 54 50
Electric								
C1000E NT	1137 x 275 x 198	400V~3P&N	4.5/9	*13.7	9.0	1250	18	55 53 50
C1500E NT	1669 x 275 x 198	400V~3P&N	6/12	*18.3	9.0	1800	26	55 53 49
C2000E NT	2200 x 275 x 198	400V~3P&N	9/18	*27.2	9.0	2500	37	56 54 50
LPHW 82/71								
C1000W NT	1137 x 275 x 198	230V~1P&N	6	0.7	8.5	1180	16	55 53 50
C1500W NT	1669 x 275 x 198	230V~1P&N	9	0.9	8.5	1700	23	55 53 49
C2000W NT	2200 x 275 x 198	230V~1P&N	12	1.1	8.5	2360	33	56 54 50

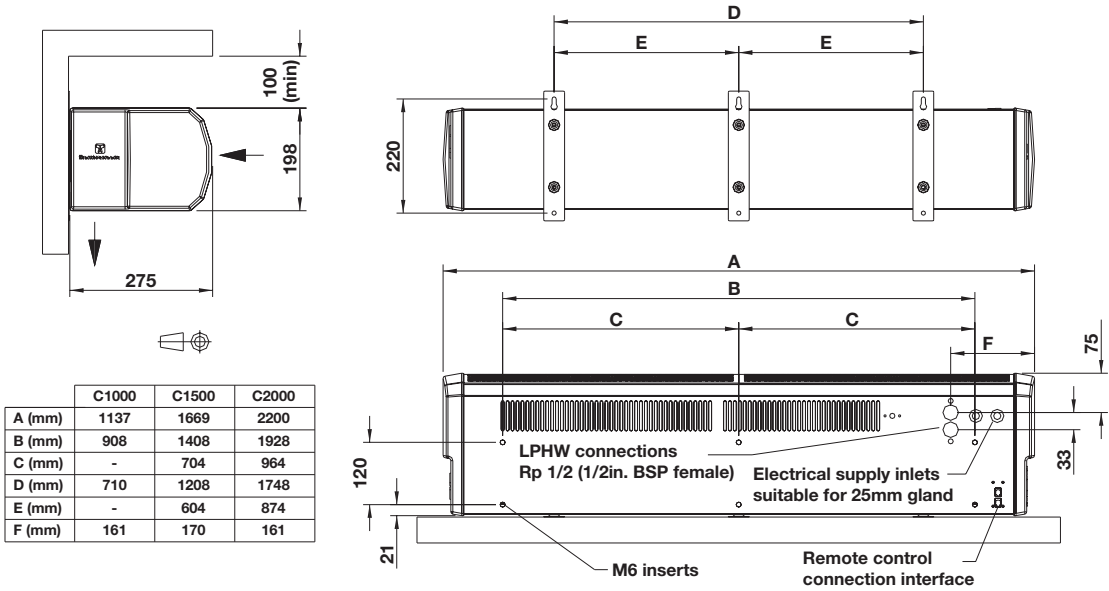
C Range Recessed

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 (m ³ /h)	Weight (kg)	**dB(A) @3m High, Med, Low
Ambient									
C1000AR	1200 x 301 x 206	1209 x 353	230V~1P&N	-	0.7	9.0	1190	19	55 53 50
C1500AR	1600 x 301 x 206	1609 x 353	230V~1P&N	-	0.9	9.0	1730	25	55 53 49
C2000AR	2100 x 301 x 206	2120 x 353	230V~1P&N	-	1.1	9.0	2380	35	56 54 50
Electric									
C1000E9R	1200 x 301 x 206	1209 x 353	400V~3P&N	4.5/9	*13.7	9.0	1190	22	55 53 50
C1500E12R	1600 x 301 x 206	1609 x 353	400V~3P&N	6/12	*18.3	9.0	1730	30	55 53 49
C2000E18R	2100 x 301 x 206	2120 x 353	400V~3P&N	9/18	*27.2	9.0	2380	41	56 54 50
LPHW 82/71									
C1000W6R	1200 x 301 x 206	1209 x 353	230V~1P&N	6	0.7	8.5	1120	20	55 53 50
C1500W9R	1600 x 301 x 206	1609 x 353	230V~1P&N	9	0.9	8.5	1630	27	55 53 49
C2000W12R	2100 x 301 x 206	2120 x 353	230V~1P&N	12	1.1	8.5	2240	37	56 54 50

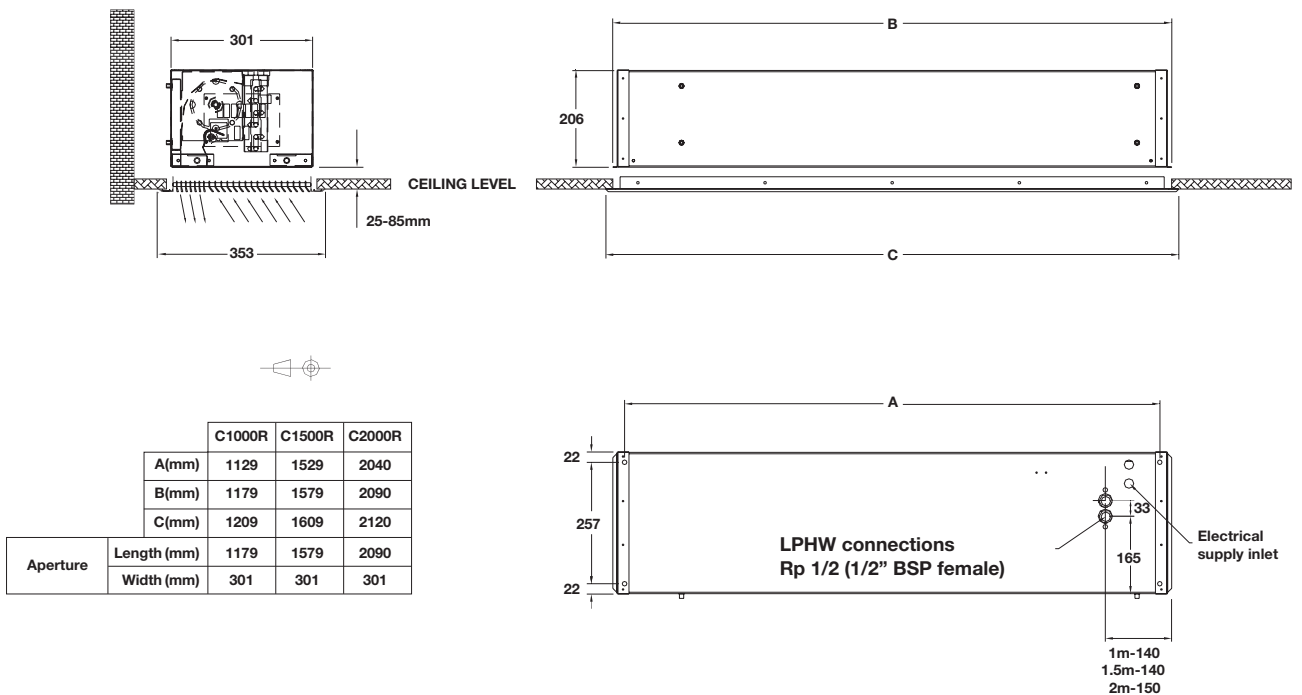
Dimension (L) = Dimension B (GA drawing) + 10mm clearance on each side

** 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. + 3dBA for 2 equal point sources: direct field).

C Range Surface

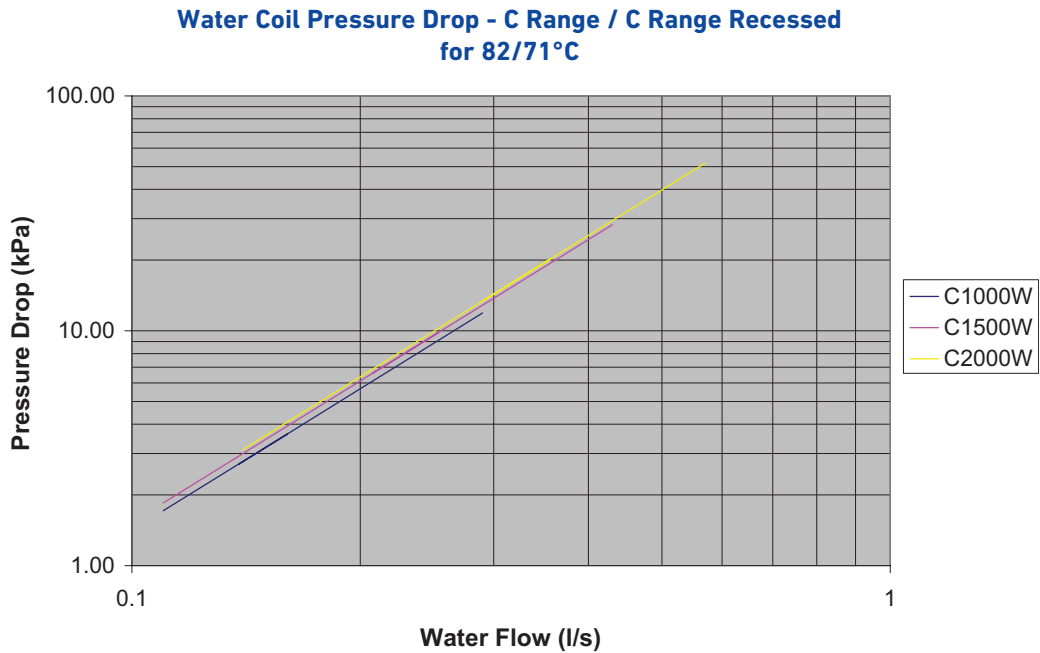


C Range Recessed



COIL PRESSURE DROP AND WATER FLOW INFORMATION

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

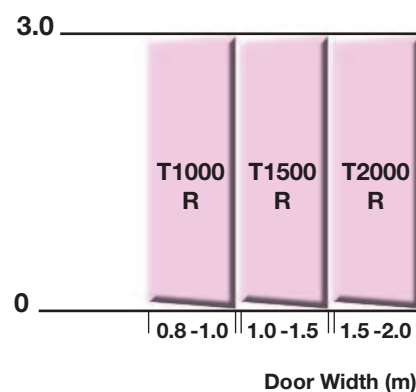


Water flow **C Range** Surface / Recessed

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	13.40

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	13.40

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

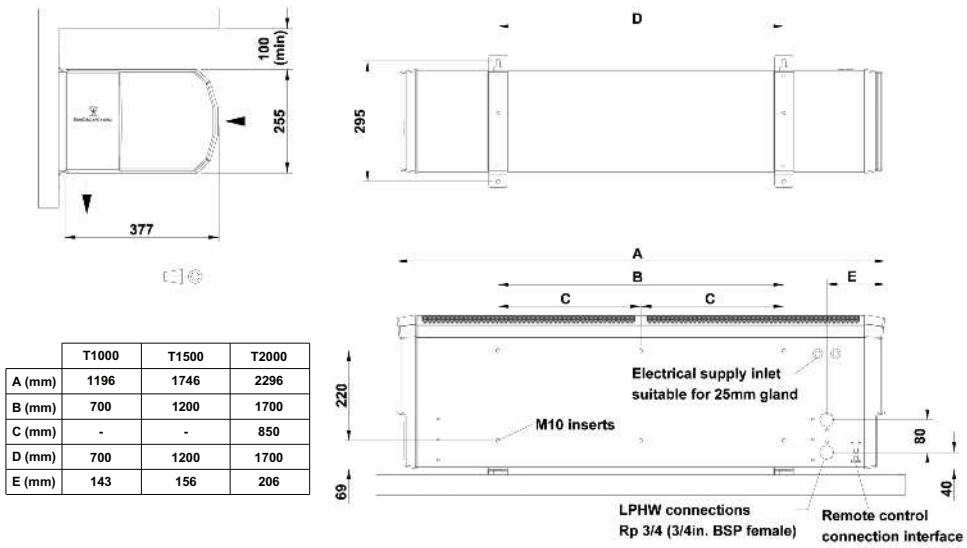
Models	Dimensions (mm) (L x D x W)	Supply (50Hz)	Heat Output (kW)	Loading (A) *per phase	Max. Velocity (m/s)	Max. Air Volume (m ³ /h)	Weight (kg)	**dB(A) @3m High, Med, Low
Ambient								
T1000A NT	1196 x 377 x 255	230V~1P&N	-	1.1	8.0	1320	27	56 55 54
T1500A NT	1746 x 377 x 255	230V~1P&N	-	1.5	8.0	1925	40	57 56 55
T2000A NT	2296 x 377 x 255	230V~1P&N	-	2.0	8.0	2640	50	57 56 54
Electric								
T1000E NT	1196 x 377 x 255	400V~3P&N	6/9	*14.1	8.0	1320	28	56 55 54
T1500E NT	1746 x 377 x 255	400V~3P&N	6/12	*18.9	8.0	1925	41	57 56 55
T2000E NT	2296 x 377 x 255	400V~3P&N	12/18	*28.1	8.0	2640	52	57 56 54
LPHW 82/71								
T1000W NT	1196 x 377 x 255	230V~1P&N	9	1.1	7.8	1250	29	56 55 54
T1500W NT	1746 x 377 x 255	230V~1P&N	12	1.5	7.8	1825	42	57 56 55
T2000W NT	2296 x 377 x 255	230V~1P&N	18	2.0	7.8	2500	53	57 56 54

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 (m ³ /h)	Weight (kg)	**dB(A) @3m High, Med, Low
Ambient									
T1000AR	1150 x 436 x 296	1104 x 436	230V~1P&N	-	1.1	7.5	2000	27	57 54 50
T1500AR	1650 x 436 x 296	1604 x 436	230V~1P&N	-	1.7	7.5	3000	40	58 56 54
T2000AR	2240 x 436 x 296	2190 x 436	230V~1P&N	-	2.0	7.5	4000	50	59 57 55
Electric									
T1000E9R	1150 x 436 x 296	1104 x 436	400V~3P&N	6/9	*14.1	7.5	2000	28	57 54 50
T1000E12R	1150 x 436 x 296	1104 x 436	400V~3P&N	6/12	*18.7	7.5	2000	28	57 54 50
T1500E12R	1650 x 436 x 296	1604 x 436	400V~3P&N	6/12	*18.9	7.5	3000	41	58 56 54
T1500E18R	1650 x 436 x 296	1604 x 436	400V~3P&N	9/18	*27.9	7.5	3000	41	58 56 54
T2000E18R	2240 x 436 x 296	2190 x 436	400V~3P&N	12/18	*28.1	7.5	4000	52	59 57 55
T2000E24R	2240 x 436 x 296	2190 x 436	400V~3P&N	12/24	*36.8	7.5	4000	52	59 57 55
LPHW 82/71									
T1000W12R	1150 x 436 x 296	1104 x 436	230V~1P&N	12	1.1	7.0	1950	29	57 54 50
T1500W18R	1650 x 436 x 296	1604 x 436	230V~1P&N	18	1.7	7.0	2950	42	58 56 54
T2000W24R	2240 x 436 x 296	2190 x 436	230V~1P&N	24	2.0	7.0	3950	53	59 57 55
LPHW 60/40									
T1000W12R	1150 x 436 x 296	1104 x 436	230V~1P&N	12	1.1	6.5	1755	29	57 54 50
T1500W18R	1650 x 436 x 296	1604 x 436	230V~1P&N	18	1.7	6.5	2655	42	58 56 54
T2000W24R	2240 x 436 x 296	2190 x 436	230V~1P&N	24	2.0	6.5	3555	53	59 57 55

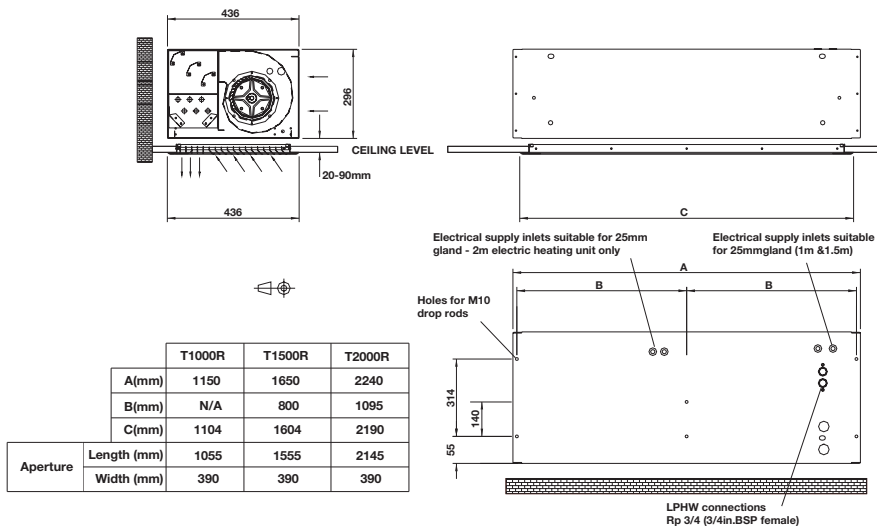
** Sound pressure levels (dBA) at 3m, as given in our brochure, are for a single air curtain mounted at its maximum mounting height, operating in a room with average acoustic characteristics as defined in CIBSE Guide B5 (reverberation time 0.7s) and a room size equivalent to 8 air changes per hour (ac/h). 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

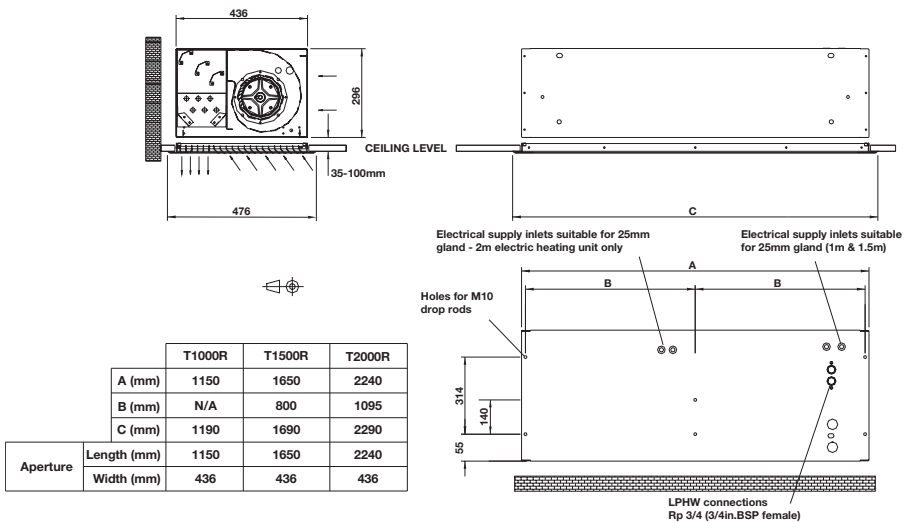


T Range Recessed

Standard Recessed Grille

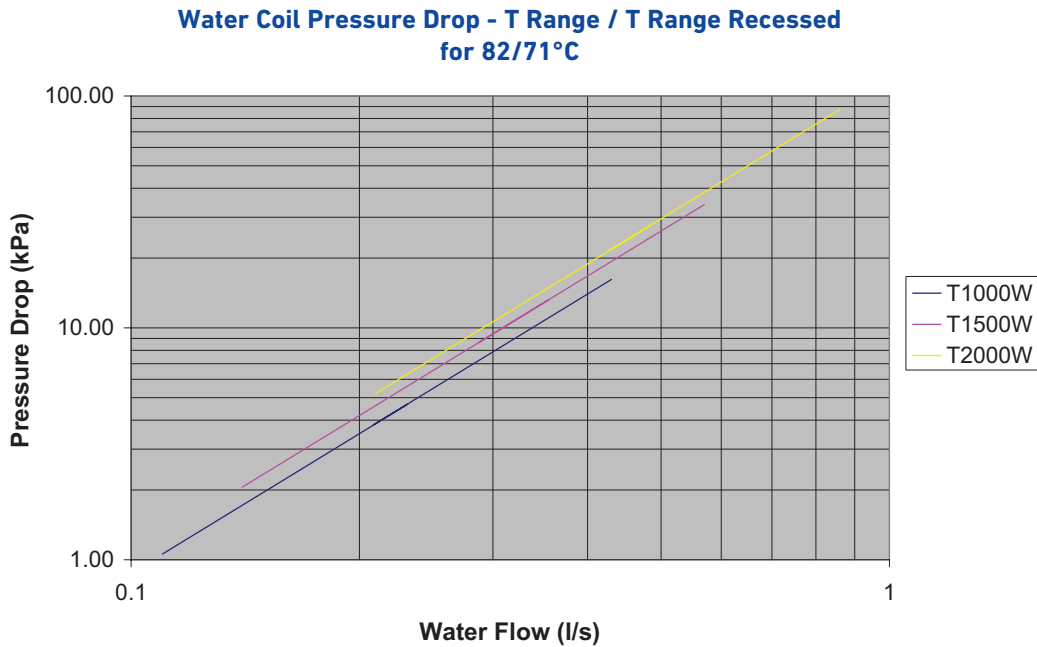


Wider Recessed Grille



COIL PRESSURE DROP AND WATER FLOW INFORMATION

Water coil pressure T Range Surface / Recessed

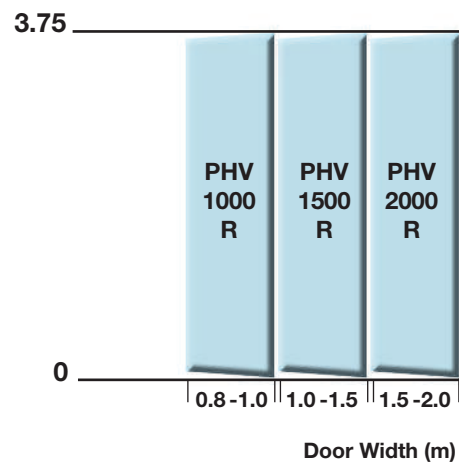
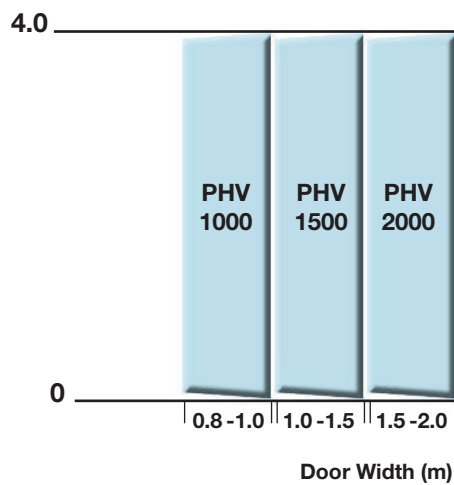


Water flow T Range Surface / Recessed

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	0.29	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

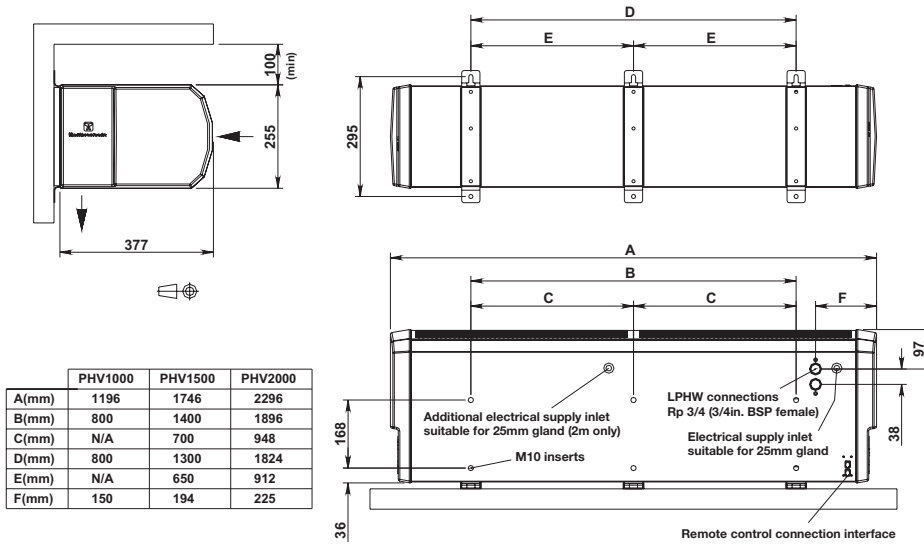
Models	Dimensions (mm) (L x D x W)	Supply (50Hz)	Heat Output (kW)	Loading (A) *per phase	Max. Velocity (m/s)	Max. Air Volume (m ³ /h)	Weight (kg)	**dB(A) @3m High, Med, Low
Ambient								
PHV1000A NT	1196 x 377 x 255	230V~1P&N	-	1.3	12.0	2880	29	59 57 56
PHV1500A NT	1746 x 377 x 255	230V~1P&N	-	1.8	12.0	4020	43	60 57 53
PHV2000A NT	2296 x 377 x 255	230V~1P&N	-	2.7	12.0	5760	58	61 59 58
Electric								
PHV1000E NT	1196 x 377 x 255	400V~3P&N	6/12	*18.7	12.0	2880	32	59 57 56
PHV1500E NT	1746 x 377 x 255	400V~3P&N	9/18	*27.9	12.0	4020	45	60 57 53
PHV2000E NT	2296 x 377 x 255	400V~3P&N	12/24	*37.5	12.0	5760	62	61 59 58
LPHW 82/71								
PHV1000W NT	1196 x 377 x 255	230V~1P&N	12	1.3	11.0	2630	35	59 57 56
PHV1500W NT	1746 x 377 x 255	230V~1P&N	18	1.8	11.0	3670	47	60 57 53
PHV2000W NT	2296 x 377 x 255	230V~1P&N	24	2.7	11.0	5260	64	61 59 58
LPHW 60/40								
PHV1000W NT	1196 x 377 x 255	230V~1P&N	12	1.3	10.5	2370	35	59 57 56
PHV1500W NT	1746 x 377 x 255	230V~1P&N	18	1.8	10.5	3300	47	60 57 53
PHV2000W NT	2296 x 377 x 255	230V~1P&N	24	2.7	10.5	4730	64	61 59 58

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 (m ³ /h)	Weight (kg)	**dB(A) @3m High, Med, Low
Ambient									
PHV1000AR P2	1150 x 436 x 296	1104 x 436	230V~1P&N	-	1.3	11.5	2750	33	59 57 56
PHV1500AR P2	1650 x 436 x 296	1604 x 436	230V~1P&N	-	1.8	11.5	3840	47	60 57 53
PHV2000AR P2	2240 x 436 x 296	2190 x 436	230V~1P&N	-	2.7	11.5	5500	63	61 59 58
Electric									
PHV1000ER P2	1150 x 436 x 296	1104 x 436	400V~3P&N	6/12	*18.7	11.5	2750	37	59 57 56
PHV1500ER P2	1650 x 436 x 296	1604 x 436	400V~3P&N	9/18	*27.9	11.5	3840	53	60 57 53
PHV2000ER P2	2240 x 436 x 296	2190 x 436	400V~3P&N	12/24	*37.5	11.5	5500	71	61 59 58
LPHW 82/71									
PHV1000WR P2	1150 x 436 x 296	1104 x 436	230V~1P&N	12	1.3	10.5	2500	40	59 57 56
PHV1500WR P2	1650 x 436 x 296	1604 x 436	230V~1P&N	18	1.8	10.5	3500	55	60 57 53
PHV2000WR P2	2240 x 436 x 296	2190 x 436	230V~1P&N	24	2.7	10.5	5010	73	61 59 58
LPHW 60/40									
PHV1000WR P2	1150 x 436 x 296	1104 x 436	230V~1P&N	12	1.3	10.0	2250	40	59 57 56
PHV1500WR P2	1650 x 436 x 296	1604 x 436	230V~1P&N	18	1.8	10.0	3150	55	60 57 53
PHV2000WR P2	2240 x 436 x 296	2190 x 436	230V~1P&N	24	2.7	10.0	4510	73	61 59 58

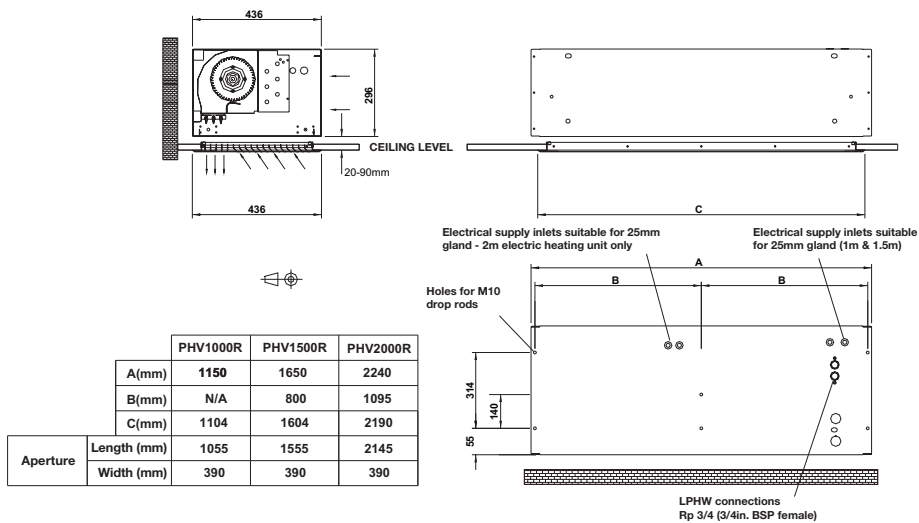
** Sound pressure levels (dB(A) at 3m, as given in our brochure, are for a single air curtain mounted at its maximum mounting height, operating in a room with average acoustic characteristics as defined in CIBSE Guide B5 (reverberation time 0.7s) and a room size equivalent to 8 air changes per hour (ac/h). 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).

PHV Range Surface

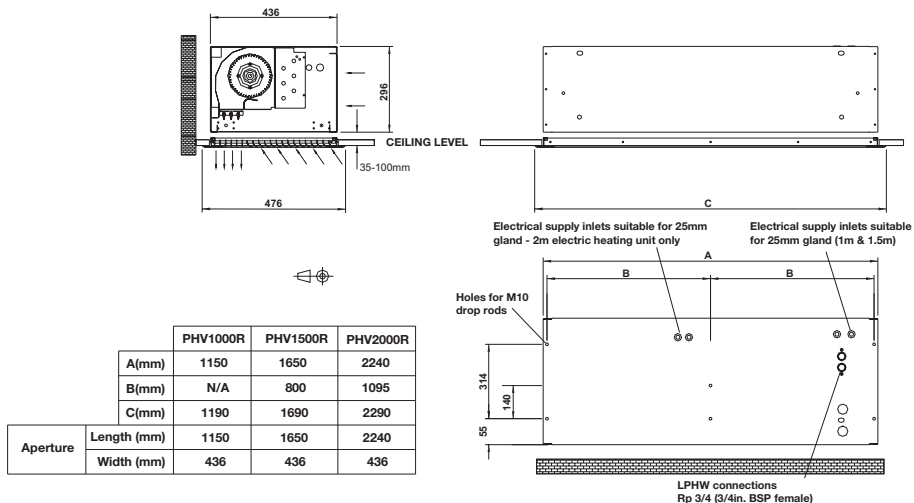


PHV Range Recessed

Standard Recessed Grille

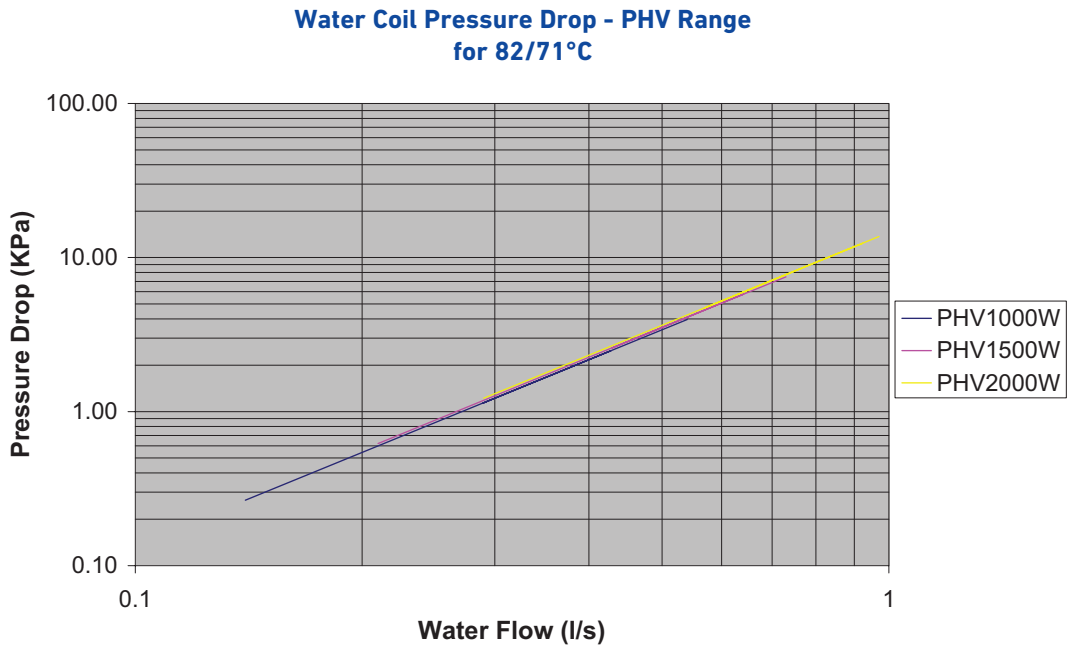


Wider Recessed Grille



COIL PRESSURE DROP AND WATER FLOW INFORMATION

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



Water flow **PHV Range** Surface / Recessed

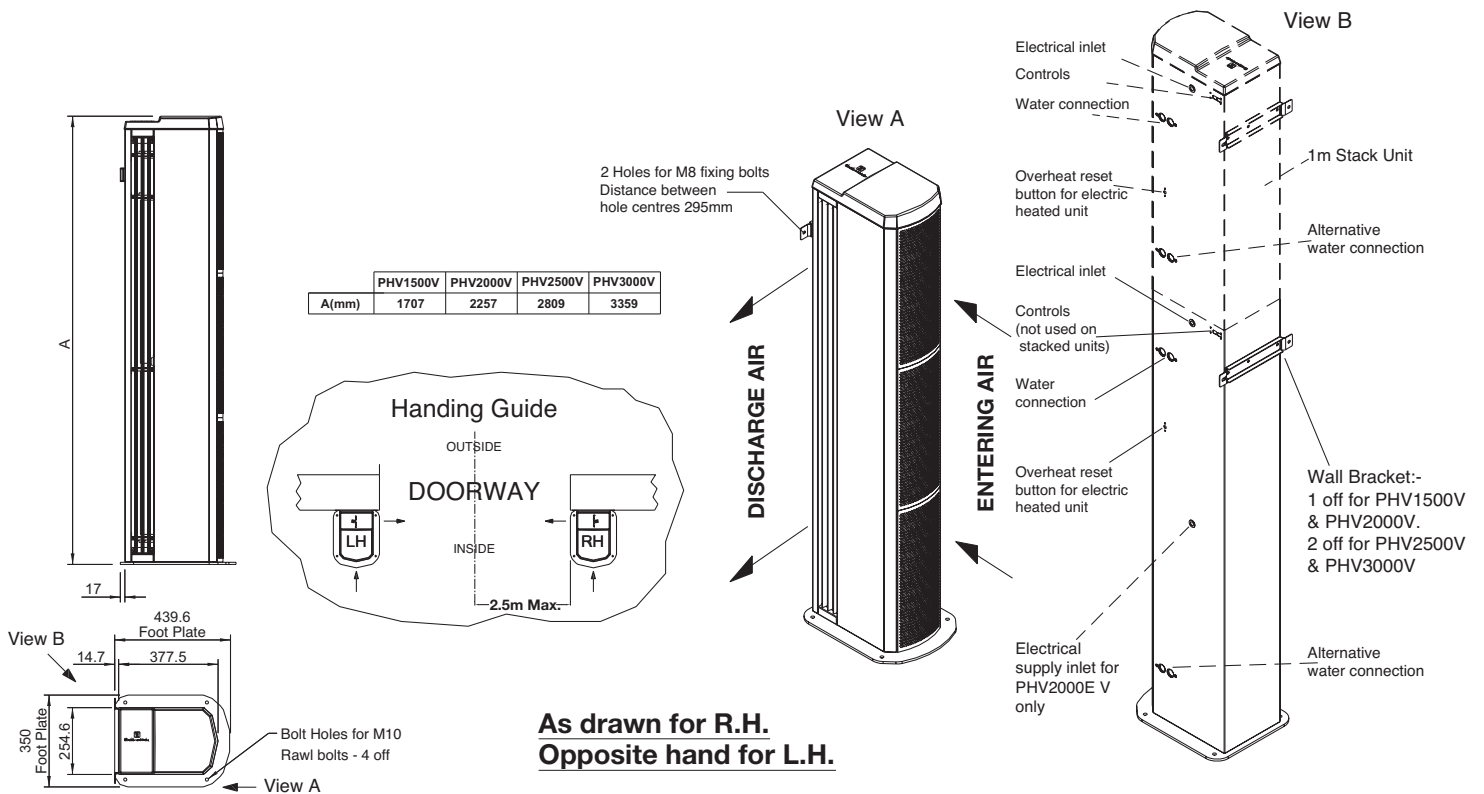
PHV Range	Water Flow Rate (l/s) 82/71°C	Coil Water Pressure Drop (kPa)
PHV1000W NT	0.29	1.14
PHV1500W NT	0.43	2.60
PHV2000W NT	0.57	4.72

PHV Range Recessed	Water Flow Rate (l/s) 82/71°C	Coil Water Pressure Drop (kPa)
PHV1000WR	0.29	1.14
PHV1500WR	0.43	2.60
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



GA DRAWING



TECHNICAL SPECIFICATION

- 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

PHV Vertical Range

Models	Dimensions (mm) (L x D x H)		Supply (50Hz)	Heat Output (kW)	Loading (A) *per phase	Max. Air Volume (m³/h)	Weight (kg)	**dB(A) @3m High, Med, Low		
Ambient										
PHV 1500A V	1707 x 439 x 350		230V~1P&N		1.8	3645	60	60	57	53
PHV 2000A V	2257 x 439 x 350		230V~1P&N		2.7	4145	77	61	59	58
PHV 2500A V (Stacked Unit)	2809 x 439 x 350	Top Air Curtain Bottom Air Curtain	230V~1P&N 230V~1P&N		1.3 1.8	2050 3645	99	62	60	59
PHV 3000A V (Stacked Unit)	3359 x 439 x 350	Top Air Curtain Bottom Air Curtain	230V~1P&N 230V~1P&N		1.3 2.7	2050 4145	116	63	61	60
Electric										
PHV 1500E V	1707 x 439 x 350		400V~3P&N	9/18	*27.9	3325	66	60	57	53
PHV 2000E V	2257 x 439 x 350		400V~3P&N	12/24	*37.5	3780	85	61	59	58
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	1870 3325	109	62	60	59
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	1870 3780	128	63	61	60
LPHW 82/71										
PHV 1500W V	1707 x 439 x 350		230V~1P&N	18	1.8	3040	68	60	57	53
PHV 2000W V	2257 x 439 x 350		230V~1P&N	24	2.7	3455	87	61	59	58
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	1710 3040	114	62	60	59
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	1710 3455	133	63	61	60
LPHW 60/40										
PHV 1500W V	1707 x 439 x 350		230V~1P&N	18	1.8	3040	68	60	57	53
PHV 2000W V	2257 x 439 x 350		230V~1P&N	24	2.7	3455	87	61	59	58
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	1710 3040	114	62	60	59
PHV 3000W V (Stacked Unit)	3359 x 439 x 350	Top Air Curtain Bottom Air Curtain	230V~1P&N 230V~1P&N	12 21	1.3 2.7	1710 3455	133	63	61	60

** 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

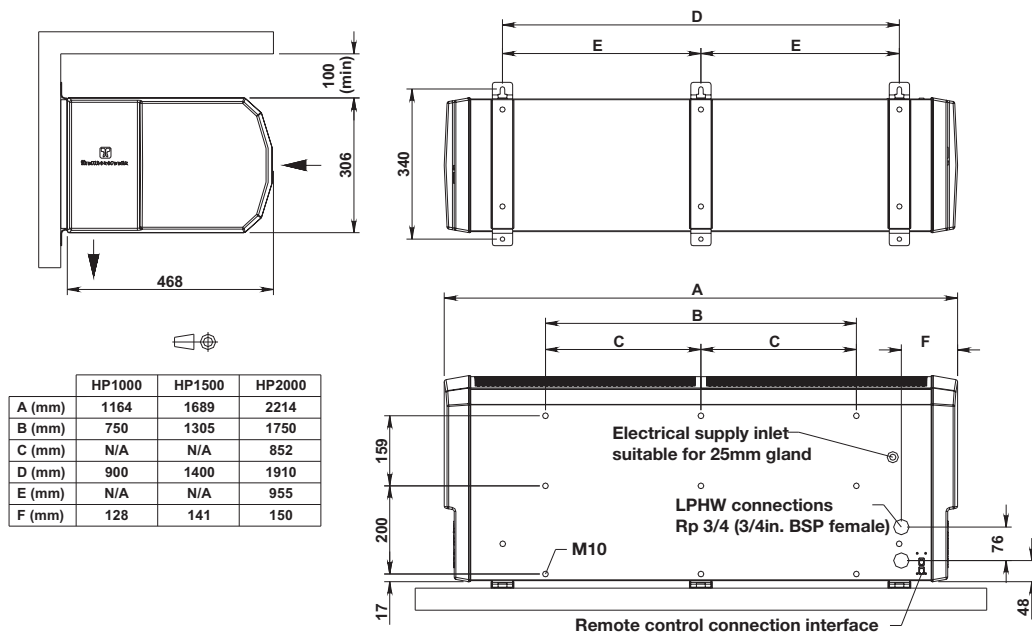


TECHNICAL SPECIFICATION

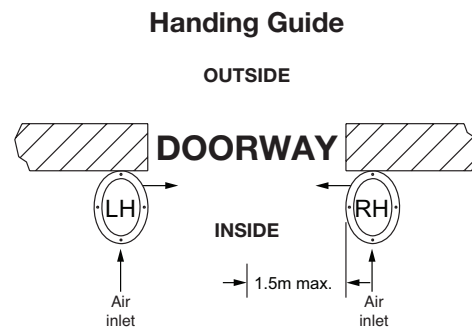
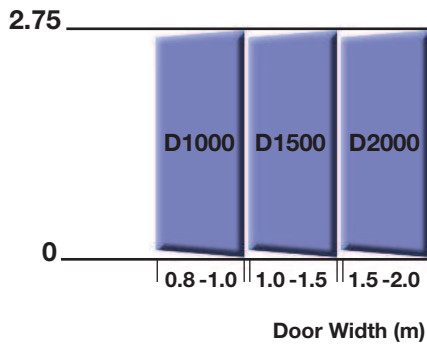
HP Range

Models	Dimensions (mm) (L x D x W)	Supply (50Hz)	Heat Output (kW)	Loading (A) *per phase	Max Velocity (m/s)	Max. Air Volume (m ³ /h)	Weight (kg)	**dB(A) @3m High, Med, Low
Ambient								
HP1000A NT	1164 x 468 x 306	230V~1P&N	-	1.1	8.0	2000	36	57 54 50
HP1500A NT	1689 x 468 x 306	230V~1P&N	-	1.7	8.0	3000	52	58 56 54
HP2000A NT	2214 x 468 x 306	230V~1P&N	-	2.0	8.0	4000	63	59 57 55
Electric								
HP1000E NT	1164 x 468 x 306	400V~3P&N	6/12	*18.5	8.0	2000	37	57 54 50
HP1500E 12NT	1689 x 468 x 306	400V~3P&N	6/12	*18.9	8.0	3000	53	58 56 54
HP1500E 18NT	1689 x 468 x 306	400V~3P&N	9/18	*27.9	8.0	3000	53	58 56 54
HP2000E NT	2214 x 468 x 306	400V~3P&N	12/24	*37.0	8.0	4000	65	59 57 55
LPHW 82/71								
HP1000W NT	1164 x 468 x 306	230V~1P&N	12	1.1	7.5	1870	38	57 54 50
HP1500W NT	1689 x 468 x 306	230V~1P&N	18	1.7	7.5	2800	54	58 56 54
HP2000W NT	2214 x 468 x 306	230V~1P&N	24	2.0	7.5	3750	65	59 57 55
LPHW 60/40								
HP1000W NT	1164 x 468 x 306	230V~1P&N	12	1.1	7.0	1680	38	57 54 50
HP1500W NT	1689 x 468 x 306	230V~1P&N	18	1.7	7.0	2520	54	58 56 54
HP2000W NT	2214 x 468 x 306	230V~1P&N	24	2.0	7.0	3375	65	59 57 55

GA DRAWING



** 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

- 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

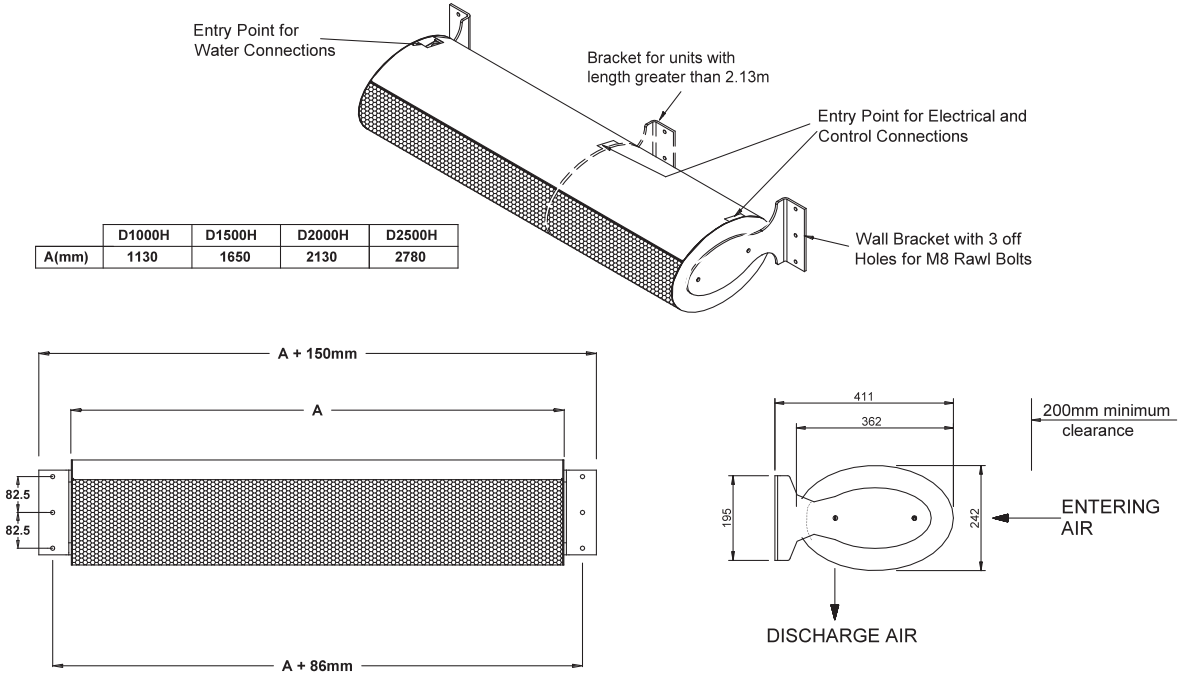
Models	Dimensions (mm) (L x D x W)	Supply (50Hz)	Heat Output (kW)	Loading (A) *per phase	Max. Velocity (m/s)	Max. Air Volume (m ³ /h)	Weight (kg)	**dB(A) @3m High, Med, Low
Ambient								
D1000A	1130 x 362 x 242	230V~1P&N	-	0.7	8.5	1125	30	55 53 50
D1500A	1650 x 362 x 242	230V~1P&N	-	0.9	8.5	1620	43	55 53 49
D2000A	2130 x 362 x 242	230V~1P&N	-	1.1	8.5	2250	59	56 54 50
D2500A	2780 x 362 x 242	230V~1P&N	-	1.6	8.5	2745	73	58 55 51
Electric								
D1000E	1130 x 362 x 242	400V~3P&N	4.5/9	*13.7	8.5	1125	32	55 53 50
D1500E	1650 x 362 x 242	400V~3P&N	6/12	*18.3	8.5	1620	45	55 53 49
D2000E	2130 x 362 x 242	400V~3P&N	9/18	*27.2	8.5	2250	62	56 54 50
D2500E	2780 x 362 x 242	400V~3P&N	10.5/21	*32.0	8.5	2745	77	58 55 51
LPHW 82/71								
D1000W	1130 x 362 x 242	230V~1P&N	6	0.7	8.0	1060	31	55 53 50
D1500W	1650 x 362 x 242	230V~1P&N	9	0.9	8.0	1530	44	55 53 49
D2000W	2130 x 362 x 242	230V~1P&N	12	1.1	8.0	2124	60	56 54 50
D2500W	2780 x 362 x 242	230V~1P&N	15	1.6	8.0	2590	75	58 55 51

Designer C Range Vertical

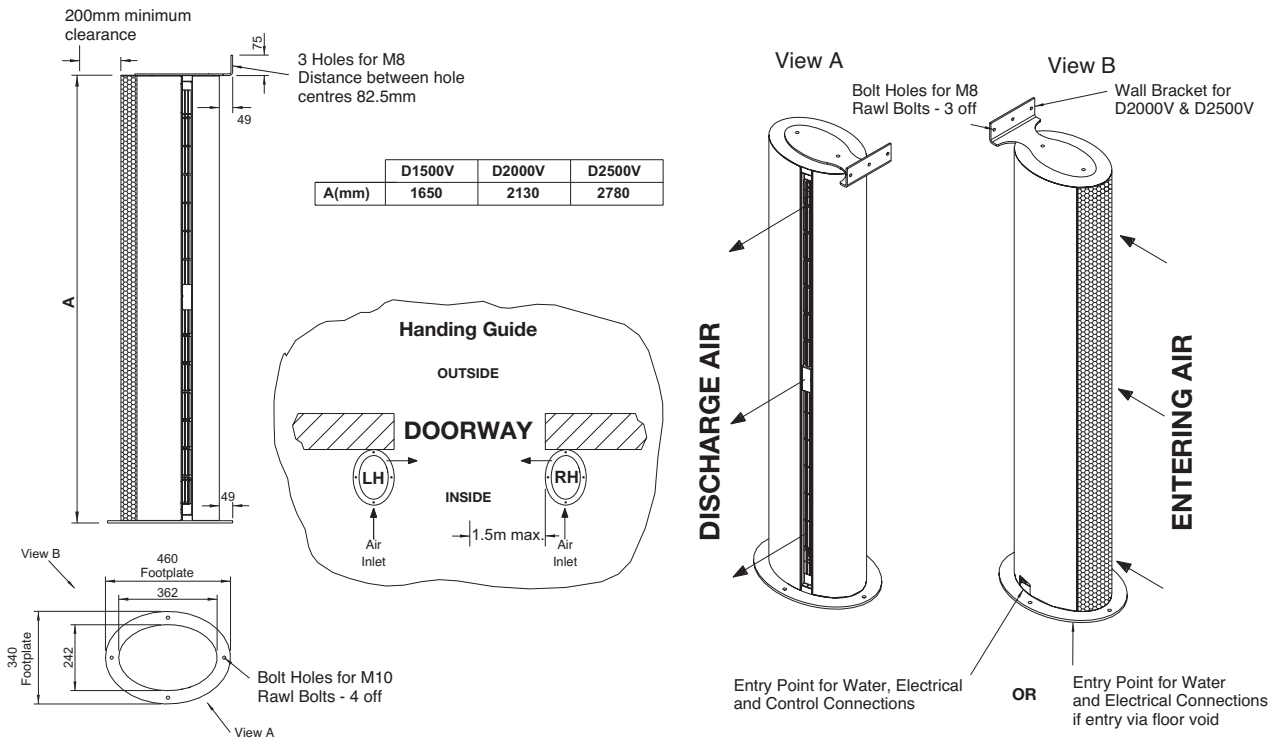
Models	Dimensions (mm) (L x D x W)	Supply (50Hz)	Heat Output (kW)	Loading (A) *per phase	Max Velocity (m/s)	Max. Air Volume (m ³ /h)	Weight (kg)	**dB(A) @3m High, Med, Low
Ambient								
D1500A V	1650 x 362 x 242	230V~1P&N	-	0.9	8.5	1620	43	55 53 49
D2000A V	2130 x 362 x 242	230V~1P&N	-	1.1	8.5	2250	59	56 54 50
D2500A V	2780 x 362 x 242	230V~1P&N	-	1.6	8.5	2745	73	58 55 51
Electric								
D1500E V	1650 x 362 x 242	400V~3P&N	6/12	*18.3	8.5	1620	45	55 53 49
D2000E V	2130 x 362 x 242	400V~3P&N	9/18	*27.2	8.5	2250	62	56 54 50
D2500E V	2780 x 362 x 242	400V~3P&N	10.5/21	*32.0	8.5	2745	77	58 55 51
LPHW 82/71								
D1500W V	1650 x 362 x 242	230V~1P&N	9	0.9	8.0	1530	44	55 53 49
D2000W V	2130 x 362 x 242	230V~1P&N	12	1.1	8.0	2124	60	56 54 50
D2500W V	2780 x 362 x 242	230V~1P&N	15	1.6	8.0	2590	75	58 55 51

** 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



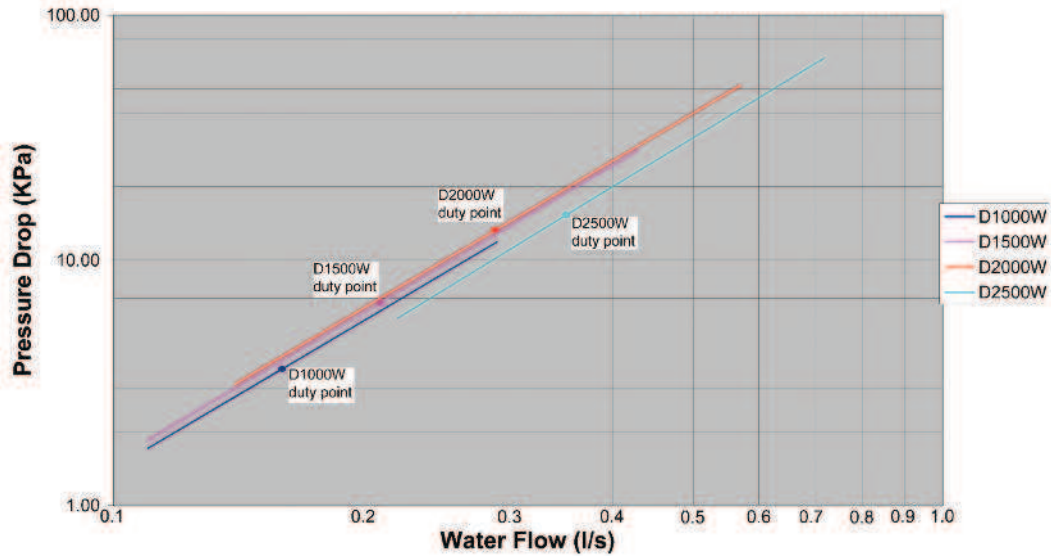
As Drawn for L.H.
Opposite Hand for R.H.



COIL PRESSURE DROP AND WATER FLOW INFORMATION

Water coil pressure Designer C Range

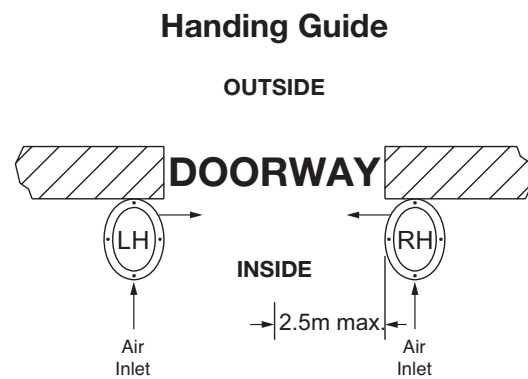
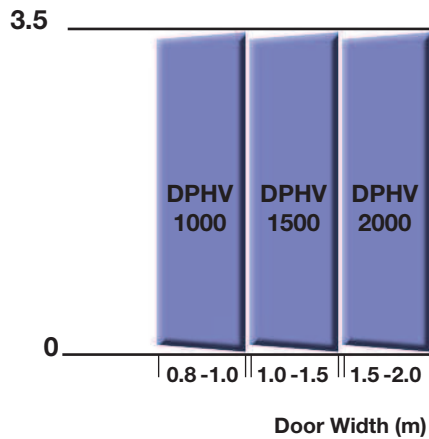
Water Coil Pressure Drop - Designer C Range
for 82/71°C



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	13.40
D2500W	0.35	15.20

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



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

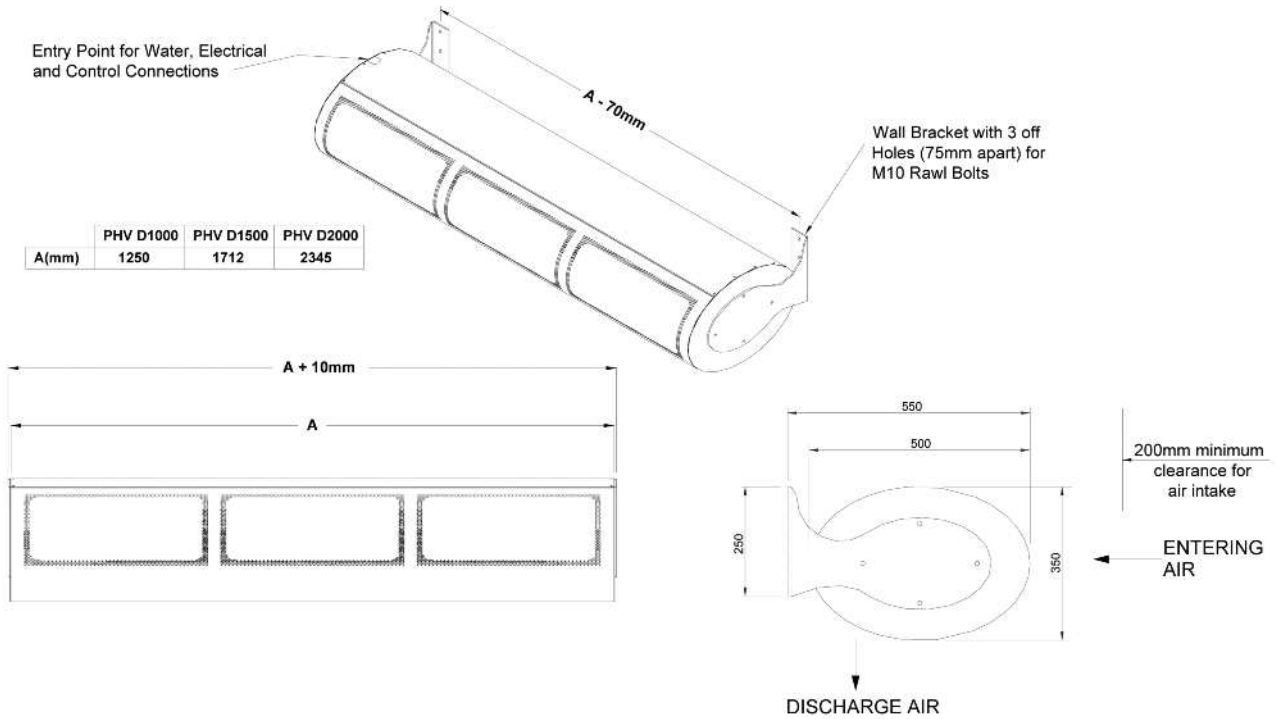
Models	Dimensions (mm) (L x D x W)	Supply (50Hz)	Heat Output (kW)	Loading (A) *per phase	Max Velocity (m/s)	Max. Air Volume (m ³ /h)	Weight (kg)	**dB(A) @3m High, Med, Low
Ambient								
PHV D1000A	1260 x 500 x 350	230V~1P&N	-	1.5	11.0	2050	54	59 57 56
PHV D1500A	1722 x 500 x 350	230V~1P&N	-	2.0	11.0	3645	67	60 57 53
PHV D2000A	2355 x 500 x 350	230V~1P&N	-	2.9	11.0	4145	93	61 59 58
Electric								
PHV D1000E	1260 x 500 x 350	400V~3P&N	6/12	*18.7	10.5	1870	57	59 57 56
PHV D1500E	1722 x 500 x 350	400V~3P&N	9/18	*27.9	10.5	3325	71	60 57 53
PHV D2000E	2355 x 500 x 350	400V~3P&N	12/24	*37.5	10.5	3780	99	61 59 58
LPHW								
PHV D1000W	1260 x 500 x 350	230V~1P&N	12	1.3	9.5	1710	61	59 57 56
PHV D1500W	1722 x 500 x 350	230V~1P&N	18	1.8	9.5	2730	82	60 57 53
PHV D2000W	2355 x 500 x 350	230V~1P&N	24	2.7	9.5	3455	107	61 59 58

Designer PHV Range Vertical

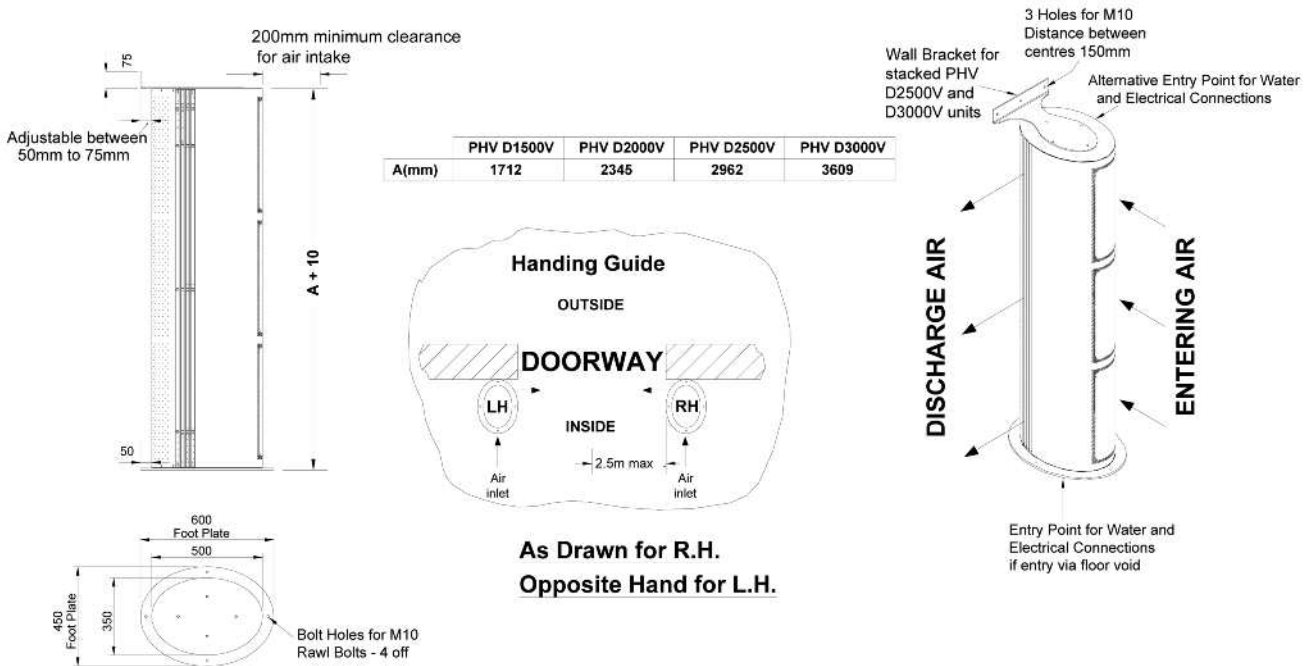
Models	Dimensions (mm) (L x D x W)	Air Curtain	Supply (50Hz)	Heat Output (kW)	Loading (A) *per phase	Max. Velocity (m/s)	Max. Air Volume (m ³ /h)	Weight (kg)	**dB(A) @3m High, Med, Low
Ambient									
PHV D1000A V	1260 x 500 x 350		230V~1P&N	-	1.5	11.0	2050	54	59 57 56
PHV D1500A V	1722 x 500 x 350		230V~1P&N	-	2.0	11.0	3645	67	60 57 53
PHV D2000A V	2355 x 500 x 350		230V~1P&N	-	2.9	11.0	4145	93	61 59 58
PHV D2500A V (Stacked Unit)	2972 x 500 x 350	Top	230V~1P&N	-	1.5	11.0	2050	121	62 60 59
		Bottom	230V~1P&N	-	2.0	11.0	3645		
PHV D3000A V (Stacked Unit)	3619 x 500 x 350	Top	230V~1P&N	-	1.5	11.0	2050	147	63 61 60
		Bottom	230V~1P&N	-	2.9	11.0	4145		
Electric									
PHV D1000E V	1260 x 500 x 350		400V~3P&N	6/12	*18.7	10.5	1870	57	59 57 56
PHV D1500E V	1722 x 500 x 350		400V~3P&N	9/18	*27.9	10.5	3325	71	60 57 53
PHV D2000E V	2355 x 500 x 350		400V~3P&N	12/24	*37.5	10.5	3780	99	61 59 58
PHV D2500E V (Stacked Unit)	2972 x 500 x 350	Top	400V~3P&N	6/12	*18.7	10.5	1870	128	62 60 59
		Bottom	400V~3P&N	9/18	*27.9	10.5	3325		
PHV D3000E V (Stacked Unit)	3619 x 500 x 350	Top	400V~3P&N	6/12	*18.7	10.5	1870	156	63 61 60
		Bottom	400V~3P&N	12/24	*37.5	10.5	3780		
Water									
PHV D1000W V	1260 x 500 x 350		230V~1P&N	12	1.3	9.5	1710	61	59 57 56
PHV D1500W V	1722 x 500 x 350		230V~1P&N	18	1.8	9.5	3040	82	60 57 53
PHV D2000W V	2355 x 500 x 350		230V~1P&N	24	2.7	9.5	3455	107	61 59 58
PHV D2500W V (Stacked Unit)	2972 x 500 x 350	Top	230V~1P&N	12	1.3	9.5	1710	143	62 60 59
		Bottom	230V~1P&N	18	1.8	9.5	3040		
PHV D3000W V (Stacked Unit)	3619 x 500 x 350	Top	230V~1P&N	12	1.3	9.5	1710	168	63 61 60
		Bottom	230V~1P&N	24	2.7	9.5	3455		

** 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 PHV Range Horizontal - Wall Mounted



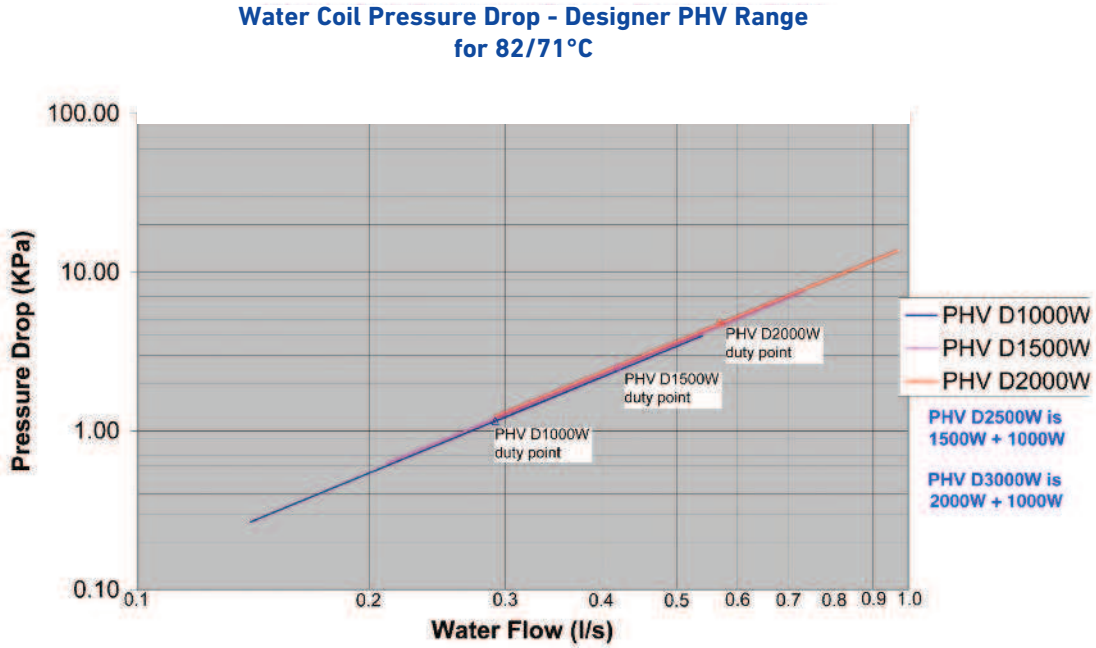
Designer PHV Range Vertical



COIL PRESSURE DROP AND WATER FLOW INFORMATION

Water coil pressure Designer PHV Range

PHV Range

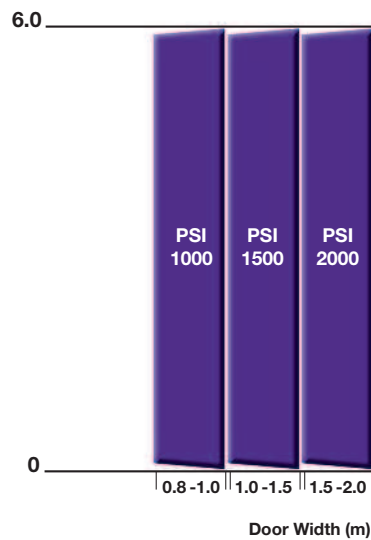


Water flow

Designer PHV Range		Water Flow Rate (l/s) 82/71°C	Coil Water Pressure Drop (kPa)
PHV D1000W		0.30	6.60
PHV D1500W, PHV D1500W V		0.43	14.30
PHV D2000W, PHV D2000W V		0.57	28.60
PHV 2500W V (Stacked Unit)	Top Air Curtain	0.30	6.60
	Bottom Air Curtain	0.43	14.30
PHV 3000W V (Stacked Unit)	Top Air Curtain	0.30	6.60
	Bottom Air Curtain	0.57	28.60

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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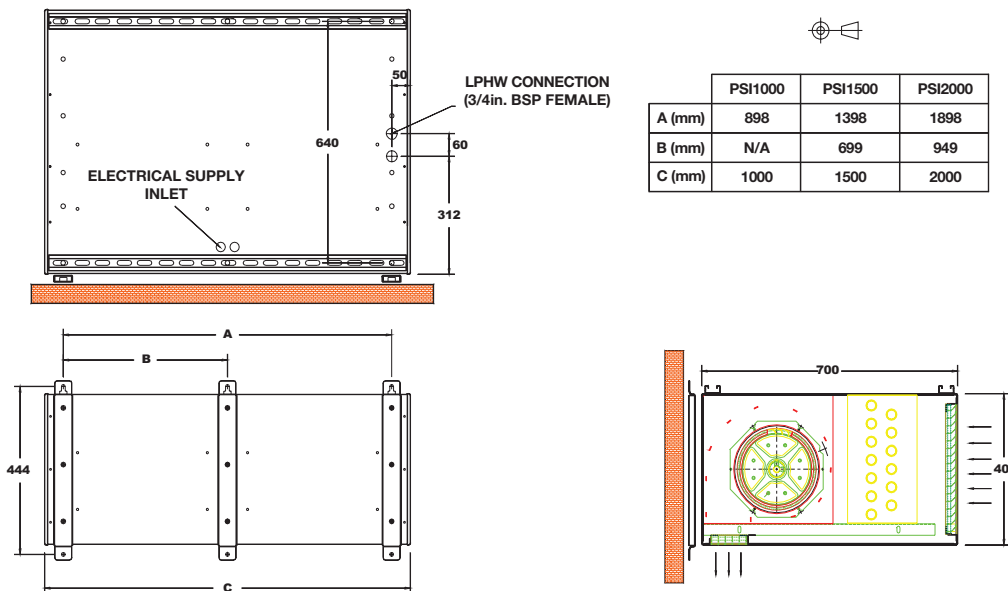
TECHNICAL SPECIFICATION

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 (m ³ /h)	Weight (kg)	**dB(A) @3m High, Med, Low
Ambient								
PSI1000A	1000 x 700 x 400	230V~1P&N	-	5.0	17.5	4020	58	72 69 66
PSI1500A	1500 x 700 x 400	230V~1P&N	-	7.5	17.5	6000	80	74 71 68
PSI2000A	2000 x 700 x 400	230V~1P&N	-	10.0	17.5	8040	110	75 72 69
Electric								
PSI1000E	1000 x 700 x 400	400V~3P&N	12/24	*38.3	17.5	4020	63	72 69 66
PSI1500E	1500 x 700 x 400	400V~3P&N	18/36	*57.5	17.5	6000	86	74 71 68
PSI2000E	2000 x 700 x 400	400V~3P&N	24/48	*76.6	17.5	8040	110	75 72 69
LPHW								
PSI1000W	1000 x 700 x 400	230V~1P&N	24	5.0	16.0	3675	63	72 69 66
PSI1500W	1500 x 700 x 400	230V~1P&N	36	7.5	16.0	5485	86	74 71 68
PSI2000W	2000 x 700 x 400	230V~1P&N	48	10.0	16.0	7350	110	75 72 69

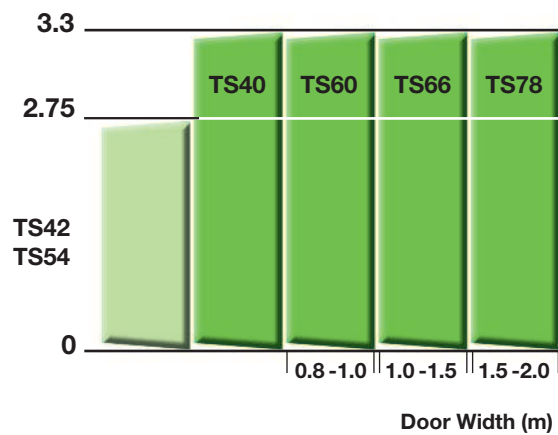
GA DRAWING

PSI Range



** 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).

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 results
- Door Limit Switch supplied as standard with Single Phase and Three Phase TS units
- DOL Starter provided as an optional extra for 3 Phase TS units



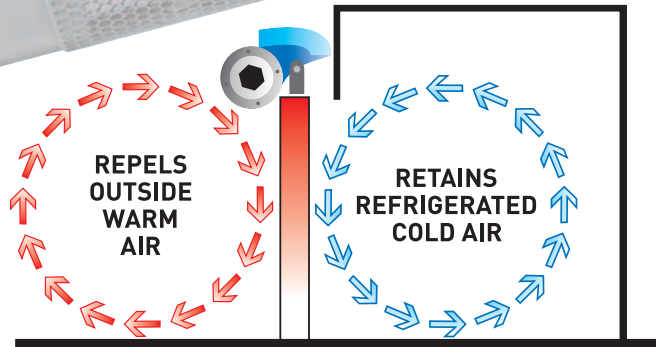
COLD STORE RANGE

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	10.0	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



■ Door Limit Switch:

Provided as standard with Single Phase and Three 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



■ 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

■ 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. : T7263636 - 6mtr (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. : T7263630



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



TECHNICAL SPECIFICATION

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 (m ³ /h)	Weight (kg)	**dB(A) @3m
JET 3	600 x 120 x 201	230V~1P&N	1.5/3	3030	6.0	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	8.0	370	5.5	56

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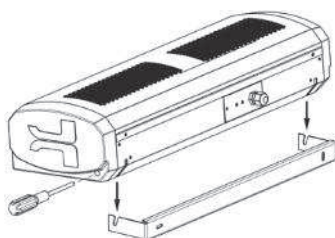
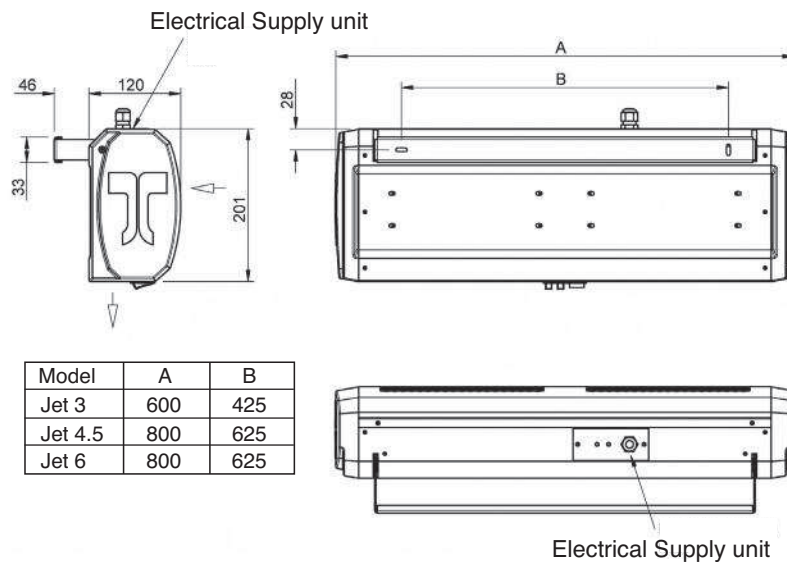


Figure 1: Mounting Bracket Alignment

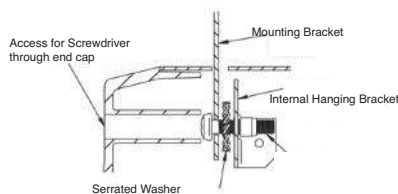
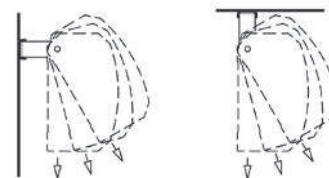


Figure 2: Cross section view & mounting bracket



Wall or ceiling mounting options

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



TECHNICAL SPECIFICATION

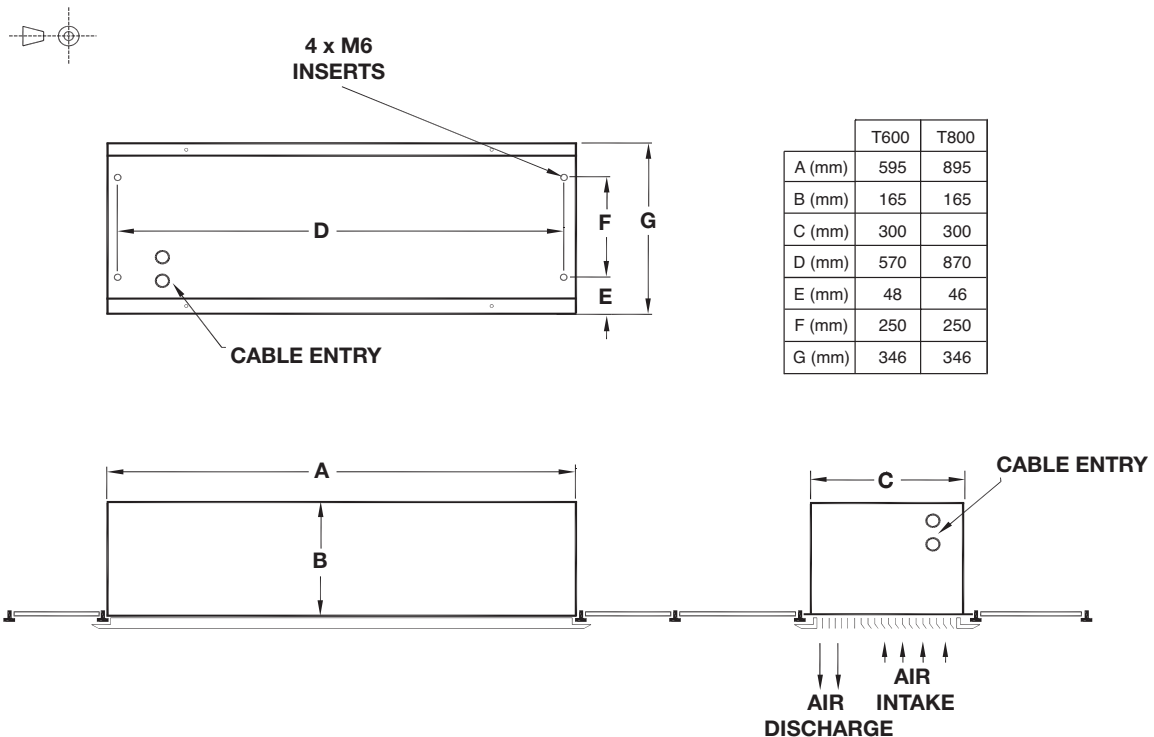


T Range Over Door Heater

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	*20.0	4.5	360	8.5	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 3

ACARVER GROUP COMPANY

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