

T Series.

The industry standard for commercial and retail applications.



Tried, tested and proven, Thermoscreens T Series air curtains are the product of choice for commercial and retail environments of all types and sizes. Robust and very reliable they offer highly efficient air separation for virtually any doorway.

Sizes (Width) (Joining kits available)

1m, 1.5m and 2m

Mounting Height

Up to 3m

Colour

Standard RAL 9010 (White)
RAL colour matching available

Warranty

2 years

Key features.



Water



Electric



Ambient



ErP compliant



Custom Paint

- Very energy efficient
- Ambient, water heated or electric heated
- Surface or recessed mounting
- Ecopower energy saving controls (water heated and electric heated units)
- ErP compliant and BMS ready
- Centrifugal fans provide powerful air flow
- High heat output
- Water heated units supplied with motorised three-port valve
- Sophisticated digital control system
- Heating coils for low or high-grade water temperatures (60°C to 90°C) - recessed units
- Downrated single phase output (electric units)
- Filters as standard on all surfaced mounted models
- End caps and wall brackets supplied as standard
- Door limit switch (advisable for water heated and ambient units only)
- EcoPower controller extension cables
- Ceiling fixings provided (excluding drop-rods)
- Joining kits available for connecting surface mounted units



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T Series.

Surface Mounted.

Thermoscreens

T Series | Surface Mounted

Model	Dimensions (L x W x D) (mm)	Supply (50Hz)	Loading (A) per phase	Heat output (kW)	Max velocity (m/s)	Max air volume (m³/h)	Weight (kg)	Noise output dB(A) @3m H M L		
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Electric

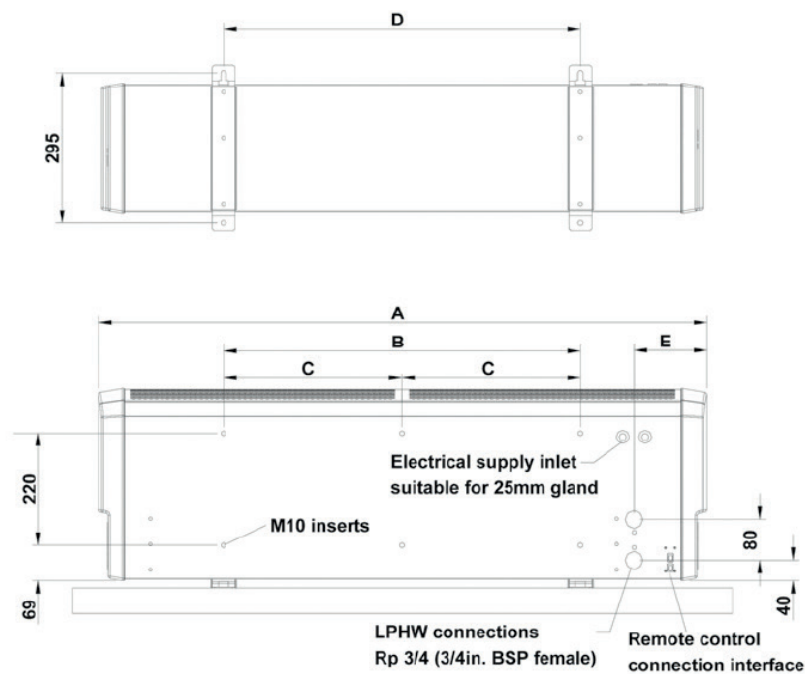
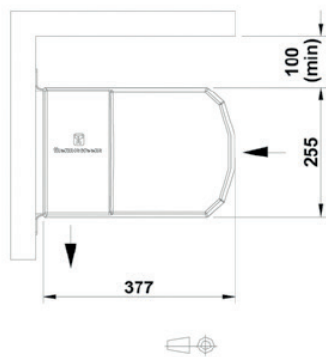
T1000E	1196x377x255	400V~3P&N	14.1	6/9	8.0	1320	28	56	55	54
T1500E	1746x377x255	400V~3P&N	18.9	6/12	8.0	1925	41	57	56	55
T2000E	2296x377x255	400V~3P&N	28.1	12/18	8.0	2640	52	57	56	54

Water 2 row 82/71

T1000W	1196x377x255	230V~1P&N	1.1	4.5/9	7.8	1250	29	56	55	54
T1500W	1746x377x255	230V~1P&N	1.5	6/12	7.8	1825	42	57	56	55
T2000W	2296x377x255	230V~1P&N	2.0	9/18	7.8	2500	53	57	56	54

Ambient

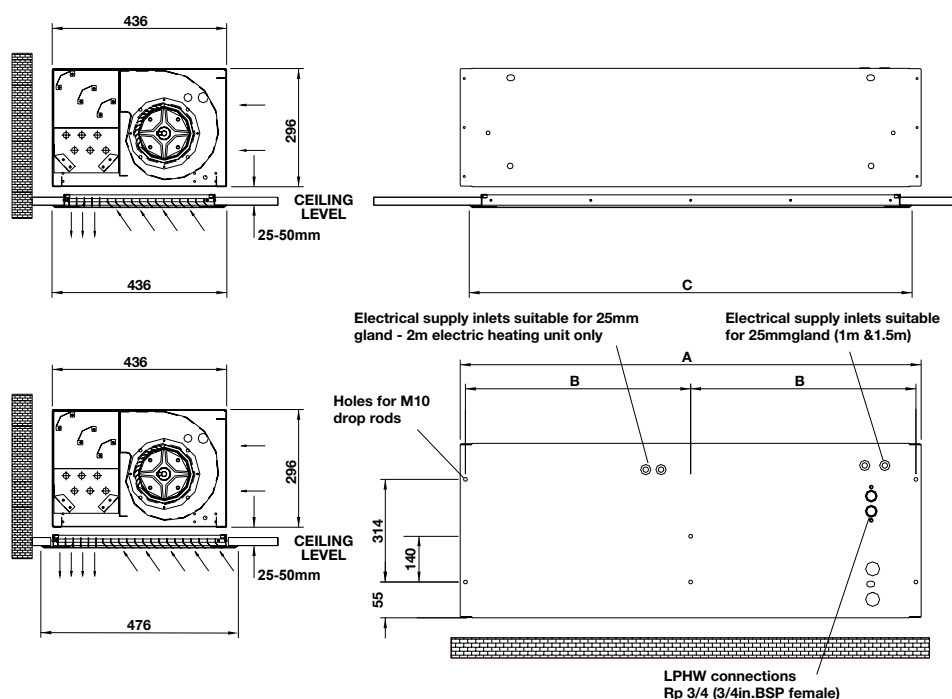
T1000A	1196x377x255	230V~1P&N	1.1	-	8.0	1320	27	56	55	54
T1500A	1746x377x255	230V~1P&N	1.5	-	8.0	1925	40	57	56	55
T2000A	2296x377x255	230V~1P&N	2.0	-	8.0	2640	50	57	56	54



	T1000	T1500	T2000
A (mm)	1196	1746	2296
B (mm)	700	1200	1700
C (mm)	-	-	850
D (mm)	700	1200	1700
E (mm)	143	156	206

T Series | Recessed

Model	Dimensions (L x W x D) (mm)	Standard grille size (mm)	Supply (50Hz)	Loading (A) per phase	Heat output (kW)	Max velocity (m/s)	Max air volume (m³/h)	Weight (kg)	Noise output dB(A) @3m		
Electric											
T1000E9R	1150x436x296	1104x436	400V~3P&N	14.1	6/9	7.5	2000	28	57	54	52
T1000E12R	1150x436x296	1104x436	400V~3P&N	18.7	6/12	7.5	2000	28	57	54	52
T1500E12R	1650x436x296	1604x436	400V~3P&N	18.9	6/12	7.5	3000	41	58	54	52
T1500E18R	1650x436x296	1604x436	400V~3P&N	27.9	9/18	7.5	3000	41	58	54	52
T2000E18R	2240x436x296	2190x436	400V~3P&N	28.1	12/18	7.5	4000	52	59	55	53
T2000E24R	2240x436x296	2190x436	400V~3P&N	36.8	12/24	7.5	4000	52	59	55	53
Water 2 row 82/71											
T1000WR	1150x436x296	1104x436	230V~1P&N	1.1	6/12	7.0	1950	29	57	54	52
T1500WR	1650x436x296	1604x436	230V~1P&N	1.7	9/18	7.0	2950	42	58	54	52
T2000WR	2240x436x296	2190x436	230V~1P&N	2.0	12/24	7.0	3950	53	59	55	53
Water 3 row 60/40											
T1000WR	1150x436x296	1104x436	230V~1P&N	1.1	6/12	6.5	1755	29	57	54	52
T1500WR	1650x436x296	1604x436	230V~1P&N	1.7	9/18	6.5	2655	42	58	54	52
T2000WR	2240x436x296	2190x436	230V~1P&N	2.0	12/24	6.5	3555	53	59	55	53
Ambient											
T1000AR	1150x436x296	1104x436	230V~1P&N	1.1	-	7.5	2000	27	57	54	52
T1500AR	1650x436x296	1604x436	230V~1P&N	1.7	-	7.5	3000	40	58	54	52
T2000AR	2240x436x296	2190x436	230V~1P&N	2.0	-	7.5	4000	50	59	55	53



Standard Recessed Grille

	T1000R	T1500R	T2000R
A (mm)	1150	1650	2240
B (mm)	-	800	1095
C (mm)	1104	1604	2190
Aperture			
Length (mm)	1055	1555	2145
Width (mm)	390	390	390

Wider Recessed Grille

	T1000R	T1500R	T2000R
A (mm)	1150	1650	2240
B (mm)	-	800	1095
C (mm)	1190	1690	2290
Aperture			
Length (mm)	1150	1650	2240
Width (mm)	436	436	436

Water flow rate and pressure drop calculations for different water temperatures.

To calculate water flow rate and coil pressure drop, use our coil calculation programme. Then calculate the new water drop (valve) using the following formula:

$$\text{New Water Pressure Drop (valve)} = \text{82/71 Water Pressure Drop (valve)} \times \left(\frac{\text{New Water Flow Rate}}{\text{82/71 Water Flow Rate}} \right)^2$$

Example:

T1500W at 85/65°C, EAT = 20°C

82/71 Water flow rate = 15.6 l/min
(from water flow rate and pressure drop table below)

New water flow rate = 8.7 l/min
(from Thermoscreens coil calculation programme)

New water pressure drop (coil) = 4.0 kPa
(from Thermoscreens coil calculation programme)

Therefore:

New water pressure drop (valve) =

$$5.5 \times \left(\frac{8.7}{15.6} \right)^2 = 1.7 \text{ kPa}$$

Conversion factors:

1 kPa = 0.102m Water column

10 l per minute = 0.6 m³/h

Water flow rate and pressure drop.

T Series	2 row coil (based on 82/71°C)		
	Water flow rate (l/min)	Water pressure drop (coil) ΔP (kPa)	Water pressure drop (valve) ΔP (kPa)
T1000W	11.7	5.9	3.1
T1500W	15.6	11.1	5.5
T2000W	23.4	5.5	7.0

Accessories.

Description	Part number
Master and slave lead: 6m	T5951110
Ecopower extension lead: 10m	T5951112
Ecopower extension lead: 15m	T5951113
Ecopower extension lead: 30m	T5951114
Extension lead coupler	T5951030
Joining kit	T7308200

T Series Recessed	2 row coil (based on 82/71°C)			3 row coil (based on 60/40°C)		
	Water flow rate (l/min)	Water pressure drop (coil) ΔP (kPa)	Water pressure drop (valve) ΔP (kPa)	Water flow rate (l/min)	Water pressure drop (coil) ΔP (kPa)	Water pressure drop (valve) ΔP (kPa)
T1000WR	15.6	10.6	5.5	8.6	5.8	2.5
T1500WR	23.4	3.4	7.0	12.9	14.7	3.5
T2000WR	31.2	6.3	10.0	17.1	10.5	4.5

A control valve is supplied loose with water heated T series air curtains which is fitted into the site pipework during installation.

