

SPC Airdor Forcefield Air Curtains – exposed hot water & electric models



SPC Airdor Forcefield is the new range of powerful air curtains designed for applications where an invisible barrier of air is required. Ideally suited to entrance areas of public, commercial or industrial buildings the units are capable of providing a continuous barrier down to floor level. Units are available in widths of 1.5 to 2.5m and suitable for mounting heights up to 3.5m.

Units are equipped with LPHW or electric heat exchangers which warm the air being expelled from the unit to temper the effects of cold outside air passing from outside to in and to offset losses associated with open doors. A range of LPHW heat exchangers are available to suit even low grade hot water systems with little reduction on thermal output. Electric units all require a 3 phase supply and are available with 2 stage output control.

Key Benefits

- Provides a barrier of high velocity warm air separating the internal environment from external so the internal environment remains draught free and comfortable
- Prevents excessive heat loss from the internal environment therefore reducing energy usage
- Helps prevent the ingress of insects and odours through open doors

Key Features

- Horizontal or vertical mounting
- Individual EC fans for controllability and energy efficiency
- Casing finished in pure white, outlet grille in black; other colours on request
- Linear discharge grille generates high velocity jet of air to floor level
- Enhanced heat exchangers available for low water temperature applications
- 2 stage control available for electric heated units
- Remote switching and thermostatic control
- Advanced, programmable, electronic controller available
- Casing depth = 530mm
- Casing height = 270mm
- Hot water connections in 22mm copper



Model	1500			2000			2500		
	1	2	3	1	2	3	1	2	3
Speed	1	2	3	1	2	3	1	2	3
Output (kW)	11.1	14.2	16.2	15.2	19.6	22.4	18.9	24.7	28.4
Airflow (m3/s)	0.35	0.55	0.71	0.44	0.69	0.89	0.52	0.82	1.07
Water flow (l/s)	0.14	0.17	0.2	0.19	0.24	0.27	0.23	0.3	0.35
Water PD (kPa)	2	3.2	4	4.4	7	8.9	7.7	12.5	16
Electrical Power (W)	56	140	312	70	175	390	84	210	468

Table 1. Outputs for LPHW at 80/60°C and room air at 20°C, conventional coil

Model	1500			2000			2500		
	1	2	3	1	2	3	1	2	3
Speed	1	2	3	1	2	3	1	2	3
Output (kW)	8.3	11	12.6	11.6	15.2	17.5	14.4	19.1	22.3
Airflow (m3/s)	0.35	0.55	0.71	0.44	0.69	0.89	0.52	0.82	1.07
Water flow (l/s)	0.1	0.13	0.15	0.14	0.18	0.21	0.18	0.23	0.27
Water PD (kPa)	1.8	2.9	3.8	4	6.5	8.4	7.1	11.8	15.5
Electrical Power (W)	56	140	312	70	175	390	84	210	468

Table 2. Outputs for LPHW at 60/40°C and room air at 20°C, enhanced coil

Model	1500		2000		2500	
	1	2	1	2	1	2
Setting	1	2	1	2	1	2
Airflow (m3/s)	0.55	0.71	0.69	0.89	0.82	1.07
Output (kW)	9	13.5	12	18	18	24
Electrical Power (W)	9400	13900	12500	18500	18600	24600

Table 3. Outputs for electric heated units, 400V/3Ph/50Hz supply

