Caspian[®] TT

Education | Healthcare | Places of worship | Leisure and sport | Office | Hospitality | Retail | Showroom | Industrial | Residential



Warm air is discharged from the upper surface to avoid causing discomfort to people sitting adjacent to the appliance

Caspian fan convectors are both a practical and high quality heating solution for any commercial project

Incorporating the latest EC motor technology, which can result in running-cost savings as high as 70%, and with variable speed control as standard, the Caspian delivers heat quickly and quietly. AC motor models are available on request

It is possible to have master and slave Caspian fan convectors that integrate the entire range of EC Caspian products. Please contact either our sales team or technical team to ensure that this is correctly specified

Caspians are compatible with most types of wet central heating systems, functioning equally efficiently with conventional boilers, biomass technology or ground or air source heat pumps

The airflow can be reversed so that the warm air is discharged from the lower vent. Please contact either our sales team or technical team to ensure that the correct inlet/discharge positioning is specified

Available with Smart Control and Antibacterial paint



Product Information

Motor

EC (BMS compliant) or AC.

Finish

Casing: zinc-coated steel 1.2mm . Polyester powder-coated: white RAL 9010. Available to special order in any colour and with anti-microbial or antibacterial paint.

Filter

Class G2, 100% polyester, non-washable.

Installation

Suitable for two-pipe central heating systems. Maximum installation height for high or ceiling mounting - 4m to underside. Pipework access holes on the rear and underside. Key operated front access panels. Bleed valve accessible on removal of front casing. Unit must be earthed.

Commissioning

Check water is hot enough to activate the low temperature cut-out thermostat.

Controls

See accessories table.

Specification

To specify state: Fan Convector with EC motor (or AC), in 1.2mm zinc coated steel, 660mm high and 595mm, 895mm, 1195mm, 1495mm or 1795mm wide. With variable heat output controller. As Smith's Caspian TT 60,

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90, 120, 150, 180.

Technical Data

Model Reference	Fan Speed	Control Voltage VDC	40°C MWT	45°C MWT	50°C MWT	55°C MWT	60°C MWT	65°C MWT	70°C MWT	75°C MWT	80°C MWT
	Low	3.8	0.85	1.20	1.55	1.96	2.37	2.78	3.19	3.61	4.02
EC 60	Mid	4.9	1.13	1.62	2.10	2.58	3.06	3.55	4.03	4.51	5.00
	High	6.4	1.47	2.05	2.63	3.21	3.79	4.36	4.94	5.52	6.10
	Low	3.2	1.98	2.55	3.11	3.67	4.24	4.80	5.37	5.93	6.50
EC 90	Mid	4.6	2.80	3.58	4.36	5.14	5.91	6.69	7.47	8.25	9.03
	High	6.1	3.68	4.65	5.62	6.59	7.55	8.52	9.49	10.46	11.42
	Low	3.1	3.03	3.61	4.19	4.78	5.36	5.94	6.53	7.11	7.69
EC 120	Mid	4.3	3.91	4.87	5.82	6.78	7.74	8.70	9.65	10.61	11.57
	High	5.5	4.84	6.00	7.17	8.33	9.49	10.66	11.82	12.99	14.15
	Low	2.9	3.59	4.57	5.55	6.53	7.51	8.49	9.47	10.45	11.44
EC 150	Mid	4.0	4.77	6.10	7.43	8.76	10.08	11.41	12.74	14.07	15.39
	High	5.1	6.47	7.71	8.96	10.21	11.45	12.70	13.94	15.19	16.43
	Low	2.8	4.69	5.92	7.15	8.39	9.62	10.85	12.08	13.31	14.55
EC 180	Mid	3.9	4.93	7.15	9.38	11.60	13.82	16.05	18.27	20.49	22.72
	High	4.9	7.90	9.74	11.58	13.42	15.27	17.11	18.95	20.79	22.63

Heat output - EC (AC product also available)

Model Reference	Fan Speed	Air Volume (m³/h)	Air Volume (I/s)	Specific Fan Power w/ls	Power Consumption (W)	NR in typical room*	Hydraulic Resistance (KPA)	Nominal Weight (KG)	Water Capacity (L)
	Low	201.00	55.90	0.14	8.00	34.00	1.38		
EC 60	Mid	290.50	80.75	0.26	21.00	41.50	1.69	23.00	0.92
	High	380.00	105.60	0.32	34.00	49.50	2.00		
	Low	297.00	80.75	0.20	16.00	34.00	4.70		
EC 90	Mid	450.50	124.38	0.34	42.00	41.50	5.85	36.00	1.50
	High	604.00	168.00	0.40	68.00	49.97	7.00		
	Low	419.30	116.50	0.14	16.00	34.00	17.78		
EC 120	Mid	549.65	152.68	0.26	40.00	42.00	20.59	45.00	2.08
	High	680.00	188.89	0.34	64.00	49.96	23.40		
	Low	459.80	127.72	0.17	22.00	34.70	22.23		
EC 150	Mid	598.10	166.14	0.35	59.00	41.50	29.46	60.00	2.58
	High	736.40	205.56	0.47	96.00	49.38	36.69		
	Low	542.00	150.56	0.19	29.00	34.90	47.83		
EC 180	Mid	690.00	191.67	0.40	78.50	41.50	60.76	78.00	3.18
	High	838.00	232.78	0.55	128.00	49.00	73.70		

*a typical room is taken as a room with a volume of 173m³ and a reverberation time of 0.8 seconds at 500 Hz with one unit installed, situated against a wall or ceiling (radiating noise in a equartersphere). No allowance is made for attenuation provided by ceilings, enclosures or ductwork. Outputs based upon testing at EN442: 2014 using mean water temperature and an entering air temperature of 20°C with a 10°C temperature drop between flow and return.

Correction factors

Mean Water Temp °C	45 - 80				
Water Temperature drop °C		5	10	15	20
Entering Air Temperature °C	15	1.13	1.10	1.07	1.05
	18	1.08	1.05	1.02	0.99
	20	1.04	1.00	0.95	0.89
	25	0.93	0.91	0.89	0.86

How to calculate Mean Water Temperature

Mean water	ſ	Flow temperature + Return temperature	
temperature (∆T)		2	

Factors are approximate data based upon a standard coil.

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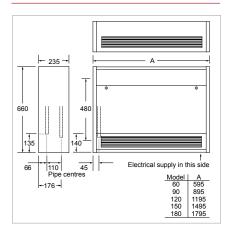
Ordering Guide

Model	Packed Wt (kg)	Product Codes		
AC Codes				
CASPIAN TT 60 AC	24	HPCA16000		
CASPIAN TT 90 AC	39	HPCA16001		
CASPIAN TT 120 AC	46	HPCA16002		
CASPIAN TT 150 AC	61	HPCA16003		
CASPIAN TT 180 AC	76	HPCA16004		
EC Codes				
CASPIAN TT 60 EC	24	HPCA15000		
CASPIAN TT 90 EC	39	HPCA15001		
CASPIAN TT 120 EC	46	HPCA15002		
CASPIAN TT 150 EC	61	HPCA15003		
CASPIAN TT 180 EC	76	HPCA15004		

Mounting Options



Dimensions



Produc		t Codes	
Plinths	100mm	150mm	
CASPIAN FF/EXT/SL/TT 60 PLINTH BLACK	HACA33077	HACA33082	
CASPIAN FF/EXT/SL/TT 90 PLINTH BLACK	HACA33083		
CASPIAN FF/EXT/SL/TT 120 PLINTH BLACK	HACA33079	HACA33084	
CASPIAN FF/EXT/SL/TT 150 PLINTH BLACK	HACA33080	HACA33085	
CASPIAN FF/EXT/SL/TT 180 PLINTH BLACK	HACA33081	HACA33086	
CASPIAN FF/EXT/SL/TT 60 PLINTH WHITE	HACA33087	HACA33092	
CASPIAN FF/EXT/SL/TT 90 PLINTH WHITE	HACA33088	HACA33093	
CASPIAN FF/EXT/SL/TT 120 PLINTH WHITE	HACA33089	HACA33094	
CASPIAN FF/EXT/SL/TT 150 PLINTH WHITE	HACA33090	HACA33095	
CASPIAN FF/EXT/SL/TT 180 PLINTH WHITE	HACA33091	HACA33096	
Accessories	Product Codes		
FLEXIBLE HOSES 22MM PAIR	HAGA95003		
ROOM THERMOSTAT HARD WIRED	HAGA95001		
ROOM THERMOSTAT TAMPER PROOF	HAGA95004		
CASPIAN PROPORTIONAL HEAT OUTPUT CONTROLLER 15°-25° INTEGRAL (EC)	HACA33005		
CASPIAN PROPORTIONAL HEAT OUTPUT CONTROLLER 15°-25° REMOTE SENSOF	HACA33037		
CASPIAN PROPORTIONAL HEAT OUTPUT CONTROLLER 11°-21° INTEGRAL (EC)	HACA33117		
CASPIAN PROPORTIONAL HEAT OUTPUT CONTROLLER 11°-21° REMOTE SENSOF	HACA33118		
BLANK CONFIGURABLE PROPORTIONAL HEAT OUTPUT CONTROLLER (PROGRAM	HACA33126		
CASPIAN ADJUSTABLE LOW TEMPERATURE CUT-OUT (EC AND AC)	HACA33001		
CASPIAN EXTERNAL CONTROL HARNESS (EC)	HACA33004		
CASPIAN EC LINKING KIT (MASTER/SLAVE)	HACA33068		
CASPIAN REMOTE SWITCHING ON/OFF RELAY (24V AC COIL)	HACA33127		
CASPIAN THERMOSTAT (T1) & AUTO-SPEED CONTROL (T2) (AC LOW LEVEL)	HACA33003		
CASPIAN THERMOSTAT (T1) (EC & AC LOW LEVEL)	HACA33002		
CASPIAN THERMOSTAT (T2) (AC LOW LEVEL)	HACA33036		

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