Caspian[®] SL

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



Warm air is discharged at an upward 45° angle to avoid causing discomfort to people sitting adjacent to appliance and with chamfered profile to avoid sharp corners

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

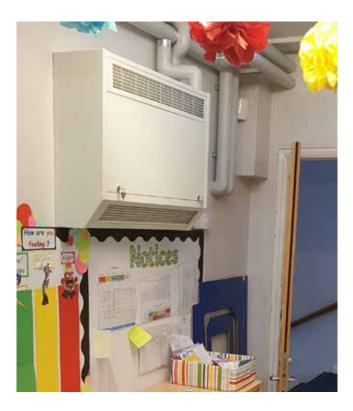
Incorporating the latest EC motor technology, which can result in running-cost savings as high as 70%, and with variable speed control as standard, the Caspian delivers heat quickly and quietly

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).

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, 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 SL 60, 90, 120, 150, 180.

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Technical Data

Heat output - EC

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
EC 60	Low	3.8	0.85	1.20	1.55	1.96	2.37	2.78	3.19	3.61	4.02
	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

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 quartersphere). 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	Flow temperature + Return temperature
temperature (∆T)	2

Factors are approximate data based upon a standard coil.

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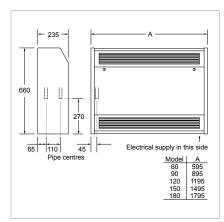
Ordering Guide

Model	Packed Wt (kg)	Product Codes		
CASPIAN SL 60	23	HPCA31501		
CASPIAN SL 90	36	HPCA31502		
CASPIAN SL 120	45	HPCA31503		
CASPIAN SL 150	60	HPCA31504		
CASPIAN SL 180	78	HPCA31505		

Mounting Options



Dimensions



Plinths	Produc	ct Codes			
Plinths	100mm	150mm			
CASPIAN FF/EXT/SL/TT 60 PLINTH BLACK	HACA33077	HACA33082			
CASPIAN FF/EXT/SL/TT 90 PLINTH BLACK	HACA33078	HACA33083			
CASPIAN FF/EXT/SL/TT 120 PLINTH BLACK HACA33079					
CASPIAN FF/EXT/SL/TT 150 PLINTH BLACK	HACA33080	HACA33085			
CASPIAN FF/EXT/SL/TT 180 PLINTH BLACK HACA33081					
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			
PENCIL PROOF GRILLE INSERT (PAIR TO SUIT FF, SL & UV 60)					
PENCIL PROOF GRILLE INSERT (PAIR TO SUIT FF, SL & UV 90)					
PENCIL PROOF GRILLE INSERT (PAIR TO SUIT FF, SL & UV 120)					
PENCIL PROOF GRILLE INSERT (PAIR TO SUIT FF, SL & UV 150)					
PENCIL PROOF GRILLE INSERT (PAIR TO SUIT FF, SL & UV 180)					
FLEXIBLE HOSES 22MM PAIR					
ROOM THERMOSTAT HARD WIRED					
ROOM THERMOSTAT TAMPER PROOF					
CASPIAN PROPORTIONAL HEAT OUTPUT CONTROLLER 15°-25° INTEGRAL (EC)					
CASPIAN PROPORTIONAL HEAT OUTPUT CONTROLLER 15°-25° REMOTE SENSO	DR (EC)	HACA33037			
CASPIAN PROPORTIONAL HEAT OUTPUT CONTROLLER 11°-21° INTEGRAL (EC)					
CASPIAN PROPORTIONAL HEAT OUTPUT CONTROLLER 11°-21° REMOTE SENSO	DR (EC)	HACA33118			
BLANK CONFIGURABLE PROPORTIONAL HEAT OUTPUT CONTROLLER (PROGRA	MMED AT FACTORY)	HACA33126			
CASPIAN ADJUSTABLE LOW TEMPERATURE CUT-OUT		HACA33001			
CASPIAN EXTERNAL CONTROL HARNESS (EC)					
CASPIAN EC LINKING KIT (MASTER/SLAVE)					
CASPIAN REMOTE SWITCHING ON/OFF RELAY (24V AC COIL)					
CASPIAN EC THERMOSTAT (T1) & AUTO-SPEED CONTROL (T2) C/W CIRCUIT BOARD					
CASPIAN THERMOSTAT (T1) (EC LOW LEVEL)		HACA33002			
CASPIAN EC AUTO-SPEED CONTROL (T2) C/W CIRCUIT BOARD		HACA33038			

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