

Caspian High & Low

Caspian low surface temperature fan convectors have been specially developed for a wide range of applications in larger spaces and commercial environments. With the ability to rapidly heat large areas at low cost, Caspian commercial fan convectors are both practical and energy efficient. Fully compatible with renewable energy technology, such as ground and air source heat pumps, Caspian can also enhance your environmental credentials. Supplied as standard in white but can be supplied in any colour.



High Level



Low Level

Model		Heat Output at 80°C			Heat Output at 75°C		
Low Level	High Level	Low kW (Btu/h)	Medium kW (Btu/h)	High kW (Btu/h)	Low kW (Btu/h)	Medium kW (Btu/h)	High kW (Btu/h)
Hydronic							
Caspian LL 60/03	Caspian HL 60/03	3.2 (10900)	3.5 (12000)	3.7 (12800)	2.9 (9900)	3.2 (11000)	3.4 (11600)
Caspian LL 60/04	Caspian HL 60/04	4.0 (13500)	4.5 (15400)	5.1 (17300)	3.6 (12300)	4.1 (14000)	4.6 (15700)
Caspian LL 90/06	Caspian HL 90/06	6.2 (21100)	6.8 (23300)	7.4 (25100)	5.6 (19100)	6.2 (21200)	6.7 (22900)
Caspian LL 90/07	Caspian HL 90/07	6.8 (23300)	7.7 (26300)	8.6 (29300)	6.2 (21200)	7.0 (23900)	7.8 (26600)
Caspian LL 120/10	Caspian HL 120/10	9.5 (32300)	11.4 (39000)	12.5 (42800)	8.6 (29300)	10.4 (35500)	11.4 (38900)
Caspian LL 120/11	Caspian HL 120/11	10.5 (35700)	12.5 (42800)	13.4 (45800)	9.5 (32400)	11.4 (38900)	12.2 (41600)
Caspian LL 120/12	Caspian HL 120/12	11.4 (39000)	13.4 (45800)	14.4 (49200)	10.4 (35500)	12.2 (41600)	13.1 (44700)

Model		Heat Output at 70°C			Heat Output at 65°C		
Low Level	High Level	Low kW (Btu/h)	Medium kW (Btu/h)	High kW (Btu/h)	Low kW (Btu/h)	Medium kW (Btu/h)	High kW (Btu/h)
Hydronic							
Caspian LL 60/03	Caspian HL 60/03	2.6 (8800)	2.8 (9700)	3.0 (10300)	2.3 (7800)	2.5 (8600)	2.7 (9200)
Caspian LL 60/04	Caspian HL 60/04	3.2 (10900)	3.6 (12500)	4.1 (14000)	2.8 (9700)	3.2 (11000)	3.6 (12400)
Caspian LL 90/06	Caspian HL 90/06	5.0 (17000)	5.5 (18800)	6.0 (20300)	4.4 (15100)	4.9 (16700)	5.3 (18100)
Caspian LL 90/07	Caspian HL 90/07	5.5 (18800)	6.2 (21300)	6.9 (23700)	4.9 (16700)	5.5 (18900)	6.2 (21000)
Caspian LL 120/10	Caspian HL 120/10	7.7 (26100)	9.3 (31600)	10.1 (34600)	6.8 (23200)	8.2 (28000)	9.0 (30700)
Caspian LL 120/11	Caspian HL 120/11	8.5 (28800)	10.1 (34600)	10.9 (37000)	7.5 (25600)	9.0 (30700)	9.6 (32900)
Caspian LL 120/12	Caspian HL 120/12	9.3 (31600)	10.9 (37000)	11.7 (39800)	8.2 (28000)	9.6 (32900)	10.3 (35300)

Model		Heat Output at 60°C			Heat Output at 55°C		
Low Level	High Level	Low kW (Btu/h)	Medium kW (Btu/h)	High kW (Btu/h)	Low kW (Btu/h)	Medium kW (Btu/h)	High kW (Btu/h)
Hydronic							
Caspian LL 60/03	Caspian HL 60/03	2.0 (6900)	2.2 (7500)	2.3 (8000)	1.7 (6000)	1.9 (6600)	2.0 (7000)
Caspian LL 60/04	Caspian HL 60/04	2.5 (8500)	2.8 (9700)	3.2 (10800)	2.2 (7300)	2.5 (8400)	2.8 (9400)
Caspian LL 90/06	Caspian HL 90/06	3.9 (13200)	4.3 (14600)	4.6 (15800)	3.4 (11500)	3.7 (12700)	4.0 (13700)
Caspian LL 90/07	Caspian HL 90/07	4.3 (14600)	4.8 (16500)	5.4 (18400)	3.7 (12700)	4.2 (14300)	4.7 (16000)
Caspian LL 120/10	Caspian HL 120/10	5.9 (20200)	7.2 (24500)	7.9 (26800)	5.2 (17600)	6.2 (21300)	6.8 (23400)
Caspian LL 120/11	Caspian HL 120/11	6.6 (22400)	7.9 (26900)	8.4 (28700)	5.7 (19500)	6.8 (23300)	7.3 (25000)
Caspian LL 120/12	Caspian HL 120/12	7.2 (24500)	8.4 (28700)	9.0 (30800)	6.2 (21300)	7.3 (25000)	7.9 (26800)

Model		Heat Output at 50°C			Heat Output at 45°C		
Low Level	High Level	Low kW (Btu/h)	Medium kW (Btu/h)	High kW (Btu/h)	Low kW (Btu/h)	Medium kW (Btu/h)	High kW (Btu/h)
Hydronic							
Caspian LL 60/03	Caspian HL 60/03	1.5 (5100)	1.6 (5600)	1.7 (5900)	1.2 (3950)	1.3 (4350)	1.4 (4650)
Caspian LL 60/04	Caspian HL 60/04	1.8 (6250)	2.1 (7100)	2.3 (8000)	1.4 (4900)	1.6 (5600)	1.8 (6300)
Caspian LL 90/06	Caspian HL 90/06	2.9 (9700)	3.2 (10800)	3.4 (11700)	2.2 (7600)	2.5 (8500)	2.7 (9100)
Caspian LL 90/07	Caspian HL 90/07	3.2 (10800)	3.6 (12200)	4.0 (13600)	2.5 (8500)	2.8 (9600)	3.1 (10600)
Caspian LL 120/10	Caspian HL 120/10	4.4 (15000)	5.3 (18100)	5.8 (19800)	3.4 (11700)	4.2 (14200)	4.6 (15600)
Caspian LL 120/11	Caspian HL 120/11	4.8 (16500)	5.8 (19800)	6.2 (21200)	3.8 (13000)	4.6 (15600)	4.9 (16600)
Caspian LL 120/12	Caspian HL 120/12	5.3 (18100)	6.2 (21200)	6.7 (22800)	4.2 (14200)	4.9 (16700)	5.2 (17900)

Heat outputs tested in accordance with BS EN442 using mean water temperature, 18°C entering air temperature, 10°C temperature drop.

Model		Heat Output at 40°C		
Low Level	High Level	Low kW (Btu/h)	Medium kW (Btu/h)	High kW (Btu/h)
Hydronic				
Caspian LL 60/03	Caspian HL 60/03	0.9 (3050)	1.0 (3400)	1.1 (3600)
Caspian LL 60/04	Caspian HL 60/04	1.1 (3800)	1.3 (4350)	1.4 (4900)
Caspian LL 90/06	Caspian HL 90/06	1.7 (5900)	1.9 (6600)	2.1 (7100)
Caspian LL 90/07	Caspian HL 90/07	1.9 (6600)	2.2 (7400)	2.4 (8300)
Caspian LL 120/10	Caspian HL 120/10	2.7 (9100)	3.2 (11000)	3.5 (12100)
Caspian LL 120/11	Caspian HL 120/11	2.9 (10000)	3.5 (12100)	3.8 (12900)
Caspian LL 120/12	Caspian HL 120/12	3.2 (11000)	3.8 (12900)	4.1 (13900)

Heat outputs tested in accordance with BS4856 using mean water temperature, 18°C entering air temperature, 10°C temperature drop and a flow rate of 340 litres/h.

Model		Sound Levels			Casing Colour	
Low Level	High Level	High (dBA)	Medium (dBA)	Low (dBA)	White	Fan-Only
Hydronic						
Caspian LL 60/03	Caspian HL 60/03	40	37	34	White	n/a
Caspian LL 60/04	Caspian HL 60/04	38	35	32	White	n/a
Caspian LL 90/06	Caspian HL 90/06	43	40	37	White	n/a
Caspian LL 90/07	Caspian HL 90/07	42	40	37	White	n/a
Caspian LL 120/10	Caspian HL 120/10	44	42	37	White	n/a
Caspian LL 120/11	Caspian HL 120/11	46	44	39	White	n/a
Caspian LL 120/12	Caspian HL 120/12	48	46	42	White	n/a

Sound levels measured at 1.5m.

Model		Total Power Consumption						Water Capacity			
Low Level	High Level	Flow & Return Connections	Mains Cable	Transformer	Flexible Hoses	Isolating Valves	Fused Spur	Low (Watts)	Medium (Watts)	High (Watts)	(Litres)
Hydronic											
Caspian LL 60/03	Caspian HL 60/03	22mm	n/a	n/a	n/a	n/a	3A	29	36	51	0.56
Caspian LL 60/04	Caspian HL 60/04	22mm	n/a	n/a	n/a	n/a	3A	29	36	51	0.92
Caspian LL 90/06	Caspian HL 90/06	22mm	n/a	n/a	n/a	n/a	3A	53	60	98	0.72
Caspian LL 90/07	Caspian HL 90/07	22mm	n/a	n/a	n/a	n/a	3A	53	60	98	1.50
Caspian LL 120/10	Caspian HL 120/10	22mm	n/a	n/a	n/a	n/a	3A	53	99	114	2.08
Caspian LL 120/11	Caspian HL 120/11	22mm	n/a	n/a	n/a	n/a	3A	60	114	135	2.08
Caspian LL 120/12	Caspian HL 120/12	22mm	n/a	n/a	n/a	n/a	3A	99	135	151	2.08



Thermostat and auto speed control



Adjustable low temperature cut-out



Wall mounted room thermostat



Tamperproof control panel

Caspian High & Low

Motor

AC only

Finish

Casing: zinc-coated steel 1.2mm

Polyester powder-coated: white RAL 9010

Available to special order in any colour

Available with anti-microbial paint or anti-bacterial paint

Filter

Class G3, 100% polyester, non-washable

Installation

- Suitable for two-pipe central heating systems
- Mounting brackets supplied for both models (low level models can sit on the floor)
- Maximum installation height for high level mounted model - 4m to underside
- Pipework access holes on the rear and underside (Low) and top (High)
- Key operated front access panels
- Bleed valve accessible on removal of front casing
- Tamperproof control panel (low level models only)
- Unit must be earthed

Commissioning

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

Controls

Rocker switch - low/medium/high heat output

Illuminated rocker switch - on/off

Facility to connect room thermostat

Low temperature cut-out thermostat set to energise fan at approximately 35°C

Accessories

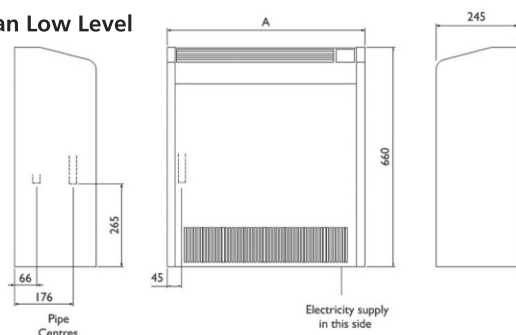
Wall mounted room thermostat

Adjustable low temperature cut-out (30°C to 90°C)

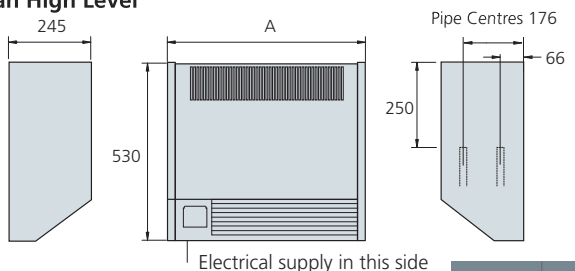
Thermostat (T1) & auto speed control (T2) Low only

See Glossary on page 46 for further information on Accessories

Caspian Low Level



Caspian High Level



All dimensions in mm

Model	A
60	595
90	895
120	1195

Mean Water Temperature °C	
EAT°C	80 to 40
15	1.10
21	0.93

Temperature Drop °C				
	20	15	10	5
Factor	0.89	0.95	1.00	1.04

Model	Packed Weight
Caspian LL 60/03	28KG
Caspian LL 60/04	28KG
Caspian LL 90/06	37KG
Caspian LL 90/07	39KG
Caspian LL 120/10	48KG
Caspian LL 120/11	48KG
Caspian LL 120/12	48KG

Caspian HL 60/03	24KG
Caspian HL 60/04	24KG
Caspian HL 90/06	37KG
Caspian HL 90/07	39KG
Caspian HL 120/10	46KG
Caspian HL 120/11	46KG
Caspian HL 120/12	46KG