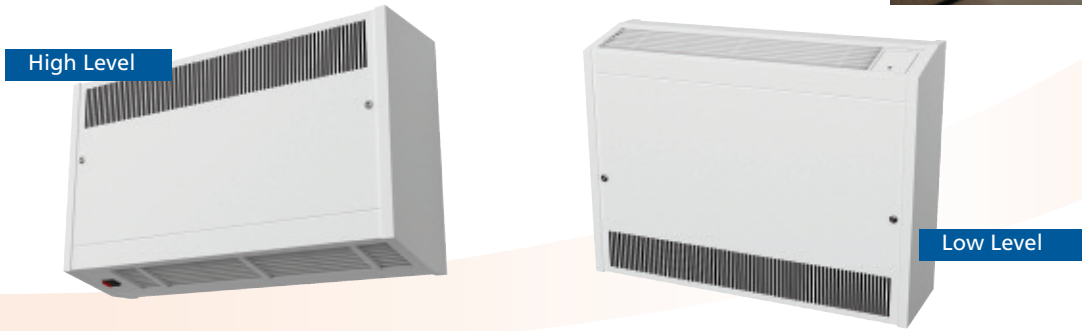


# Caspian High & Low

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.



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)
<b>Hydronic</b>							
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)
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 120/10	Caspian HL 120/10	9.5 (32300)	11.4 (39000)	12.5 (42800)	8.6 (29300)	10.4 (35500)	11.4 (38900)
Caspian LL 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 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 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 60/03	Caspian HL 60/03	3.2 (10900)	3.5 (12000)	3.7 (12800)	2.9 (9900)	3.2 (11000)	3.4 (11600)

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)
<b>Hydronic</b>							
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)
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 120/10	Caspian HL 120/10	7.7 (26100)	9.3 (31600)	10.1 (34600)	6.8 (23200)	8.2 (28000)	9.0 (30700)
Caspian LL 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 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 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 60/03	Caspian HL 60/03	2.6 (8800)	2.8 (9700)	3.0 (10300)	2.3 (7800)	2.5 (8600)	2.7 (9200)

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)
<b>Hydronic</b>							
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)
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 120/10	Caspian HL 120/10	5.9 (20200)	7.2 (24500)	7.9 (26800)	5.2 (17600)	6.2 (21300)	6.8 (23400)
Caspian LL 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 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 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 60/03	Caspian HL 60/03	2.0 (6900)	2.2 (7500)	2.3 (8000)	1.7 (6000)	1.9 (6600)	2.0 (7000)

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)
<b>Hydronic</b>							
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)
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 120/10	Caspian HL 120/10	4.4 (15000)	5.3 (18100)	5.8 (19800)	3.4 (11700)	4.2 (14200)	4.6 (15600)
Caspian LL 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 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 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 60/03	Caspian HL 60/03	1.5 (5100)	1.6 (5600)	1.7 (5900)	1.2 (3950)	1.3 (4350)	1.4 (4650)

Heat outputs tested in accordance with BS 4856 using mean water temperature at 18°C entering air temperature.

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

Heat outputs tested in accordance with BS 4856 using mean water temperature at 18°C entering air temperature.

### Correction Factors

EAT °C	Mean Water Temperature °C			
	80	70	50	40
15	1.10	1.10	1.10	1.10
21	0.93	0.93	0.93	0.93

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

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

Sound levels measured at 1.5m.

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



Thermostat and auto speed control



Variable low temp cut out



Wall mounted remote thermostat



Tamperproof control panel

### Caspian High & Low

#### 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

#### 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 I (low level models only)
- Unit must be earthed

#### Commissioning

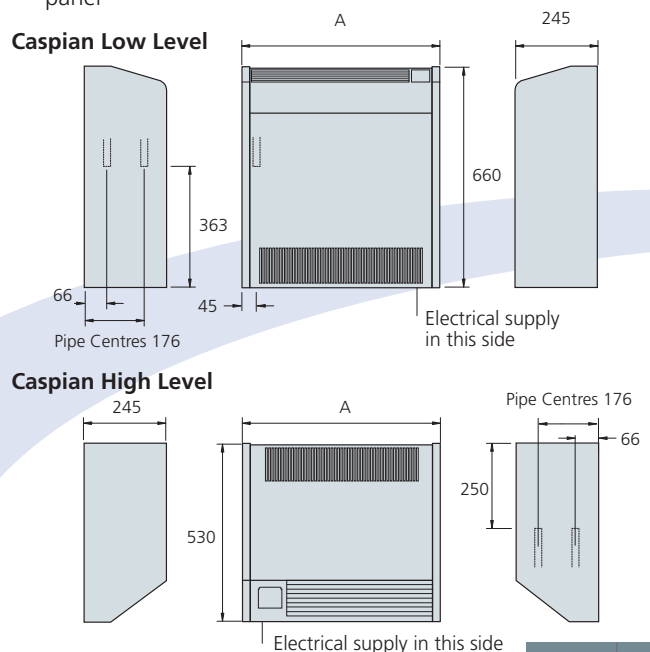
Check water is hot enough to activate the low temperature cut-out thermostat

#### 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



All dimensions in mm

Model	A
60	595
90	895
120	1195