

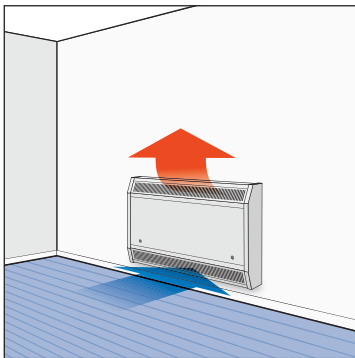
# Caspian Universal

One heating solution for a variety of applications - suitable for high, low or ceiling-mounted installation, you can even turn it upside down.

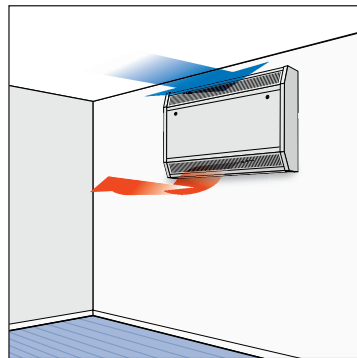
Caspian low surface temperature fan convectors have been specially developed for a wide range of applications in larger spaces and commercial environments. With the ability to rapidly heat large areas at low cost, Caspian Universal fan convectors are both practical and energy efficient. Supplied as standard in white but can be powder coated in any colour.

Incorporating the latest EC motor technology which can result in running cost savings as high as 80% and with variable speed control as standard, the Caspian Universal delivers heat quickly, efficiently and effectively.

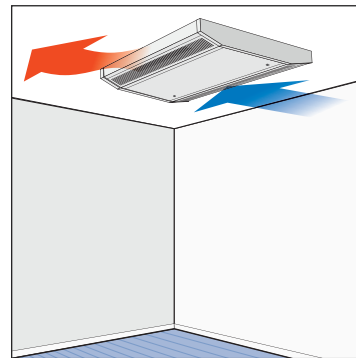
The Caspian Universal, in line with all Smith's fan convector is compatible with most types of wet central heating systems and functions equally efficiently, whether connected to a conventional boiler or renewable technology, such as biomass boilers or ground or air source heat pumps.



Caspian Universal mounted low



Caspian Universal mounted high



Caspian Universal ceiling-mounted

Model	Heat Output at 80°			Heat Output at 75°			Heat Output at 70°		
	Low (KW/BTU)	Medium (KW/BTU)	High (KW/BTU)	Low (KW/BTU)	Medium (KW/BTU)	High (KW/BTU)	Low (KW/BTU)	Medium (KW/BTU)	High (KW/BTU)
Caspian UV 120	6.7 (22700)	10.6 (36000)	14.5 (49400)	6.1 (20937)	9.6 (32968)	13.2 (45000)	5.6 (19100)	8.7 (29800)	11.8 (40400)
Caspian UV 90	5.2 (17700)	7.8 (26500)	10.3 (35200)	4.8 (16300)	7.2 (24600)	9.6 (32800)	4.4 (15000)	6.7 (22700)	8.9 (30400)
Caspian UV 60	3.2 (10900)	4.5 (15500)	5.9 (20000)	2.9 (9900)	4.1 (14000)	5.3 (18100)	2.6 (8800)	3.7 (12500)	4.8 (16200)

Model	Heat Output at 65°			Heat Output at 60°			Heat Output at 55°		
	Low (KW/BTU)	Medium (KW/BTU)	High (KW/BTU)	Low (KW/BTU)	Medium (KW/BTU)	High (KW/BTU)	Low (KW/BTU)	Medium (KW/BTU)	High (KW/BTU)
Caspian UV 120	4.9 (16600)	7.7 (26400)	10.6 (36200)	4.1 (14100)	6.7 (23000)	9.4 (32000)	3.4 (11600)	5.8 (19700)	8.1 (27700)
Caspian UV 90	3.9 (13500)	6.0 (20400)	8.0 (27300)	3.5 (11900)	5.3 (18000)	7.1 (24200)	3.0 (10400)	4.6 (15800)	6.2 (21100)
Caspian UV 60	2.3 (7800)	3.2 (11100)	4.2 (14300)	2.0 (6800)	2.8 (9600)	3.6 (12400)	1.7 (5800)	1.9 (8200)	2.0 (10600)

Model	Heat Output at 50°			Heat Output at 45°			Heat Output at 40°		
	Low (KW/BTU)	Medium (KW/BTU)	High (KW/BTU)	Low (KW/BTU)	Medium (KW/BTU)	High (KW/BTU)	Low (KW/BTU)	Medium (KW/BTU)	High (KW/BTU)
Caspian UV 120	2.7 (9000)	4.8 (16300)	6.9 (23500)	2.0 (6700)	3.7 (12600)	5.4 (18400)	1.3 (4400)	2.6 (8900)	3.9 (13400)
Caspian UV 90	2.6 (8800)	3.9 (13400)	5.3 (18000)	2.0 (7000)	3.1 (10500)	4.1 (14000)	1.5 (5100)	2.2 (7500)	2.9 (10000)
Caspian UV 60	1.4 (4800)	2.0 (6800)	2.5 (8700)	1.1 (3800)	1.5 (5100)	1.9 (6300)	0.8 (2700)	1.0 (3400)	1.2 (4000)

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	Flow & Return Connections	Mains Cable	Transformer	Flexible Hoses	Isolation Valves	Fused Spur	Total Power Consumption			
							Low (Watts)	Medium (Watts)	High (Watts)	Water Capacity (Litres)
Caspian UV 120	22mm	n/a	n/a	n/a	n/a	3A	13	62	110	2.08
Caspian UV 90	22mm	n/a	n/a	n/a	n/a	3A	15	43	70	1.50
Caspian UV 60	22mm	n/a	n/a	n/a	n/a	3A	8	24	40	0.92

Model	Sound Levels				
	High (dBA)	Medium (dBA)	Low (dBA)	Casting Colour	Fan Only
Caspian UV 120	58	46	35	White	n/a
Caspian UV 90	53	42	34	White	n/a
Caspian UV 60	50	42	33	White	n/a

Measured at 3m in front of floor mounted model.

#### Correction factors

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

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



External control harness



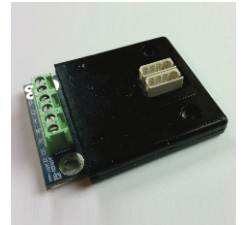
Plinth



Adjustable low temperature cut-out



Wall mounted room thermostat



Proportional heat output controller



22mm flexible hoses

## Caspian Universal

### Finish

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

### 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

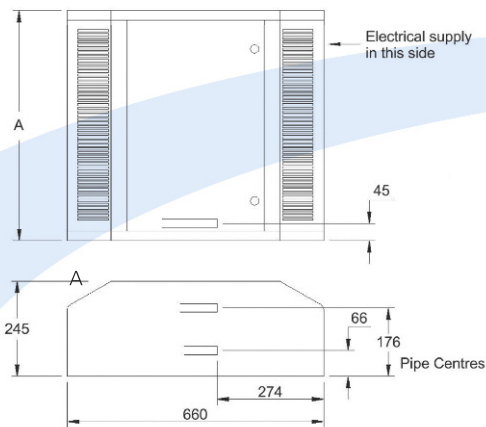
### Controls

Variable heat output controller (mounted within the product)

### Accessories

- External control harness (for up to 4 products)
- Plinth (150mm high) to suit each model, available in black or white
- Adjustable low temperature cut-out (30°C to 90°C)
- Wall mounted room thermostat
- Proportional heat output controller
- 22mm flexible hoses (pair)

## Caspian Universal



All dimensions in mm

Model	A
60	595
90	895
120	1195