

Caspian® LST

Education | Healthcare | Office | Hospitality



Caspian LST (Low Surface Temperature) is ideal for applications where vulnerable people need protecting from hot surfaces, such as in schools and certain healthcare applications

Caspian LST (low surface temperature) fully complies with the NHS Estates Health Guidance Notes, "Safe hot water and surface temperatures" (formally known as DN4) and has been independently verified by BSRIA

Using EC technology and meeting the DN4 legislation 100% of the time, this hydronic fan convector provides complete peace of mind for specifiers choosing the Caspian

Any building registered under the Registered Homes Act 1984, including hospitals, clinics, surgeries and other health care premises, requires heat emitters whose maximum surface temperature must not exceed 43°C. This also extends to social services personal care properties, and may also apply to any property where occupants may be at risk of burns to their skin if they came into prolonged (10 seconds or more) contact with a standard heat emitter

As well as healthcare applications Caspian LST is the ideal choice for schools and nurseries where the risk of children coming into contact with higher surface temperature heat emitters can be avoided

Caspian LST range is patented (UK Patent No. 2,555,566)



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.

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. Regulate the flow to achieve maximum performance.

Controls

Variable heat output controller (mounted within the products).

Accessories

See table.

Specification

To specify state: Low Surface Temperature Fan Convactor with EC motor, in 1.2mm zinc coated steel, polyester powder coated in white RAL 9010. Dimensions at 660mm high and 595mm, 895mm, 1195mm, 1495mm or 1795mm wide. With variable heat output controller. As Smith's Caspian LST 60, 90, 120, 150, 180.

Technical Data

Heat output

Model	Heat Output at 80°			Heat Output at 75°			Heat Output at 70°			Heat Output at 65°			Heat Output at 60°		
	Low (kW)	Medium (kW)	High (kW)	Low (kW)	Medium (kW)	High (kW)	Low (kW)	Medium (kW)	High (kW)	Low (kW)	Medium (kW)	High (kW)	Low (kW)	Medium (kW)	High (kW)
CASPIAN LST 60	1.0	1.6	2.2	0.9	1.4	1.9	0.8	1.3	1.7	0.8	1.1	1.5	0.7	1.0	1.3
CASPIAN LST 90	3.0	3.5	3.9	2.8	3.2	3.7	2.6	3.0	3.5	2.4	2.8	3.2	2.1	2.5	2.9
CASPIAN LST 120	5.0	5.3	5.7	4.7	5.1	5.5	4.4	4.8	5.2	4.0	4.4	4.8	3.6	4.0	4.4
CASPIAN LST 150	6.2	6.7	7.2	6.0	6.5	7.0	5.7	6.2	6.7	5.3	5.8	6.3	4.9	5.4	5.9
CASPIAN LST 180	7.7	8.2	8.7	7.5	8.0	8.5	7.2	7.7	8.2	6.8	7.3	7.8	6.4	6.9	7.4

Model	Heat Output at 55°			Heat Output at 50°			Pressure Drop		
	Low (kW)	Medium (kW)	High (kW)	Low (kW)	Medium (kW)	High (kW)	High (kPa)	Medium (kPa)	Low (kPa)
CASPIAN LST 60	0.6	0.8	1.1	0.6	0.7	0.8	1.5	1.1	0.9
CASPIAN LST 90	1.9	2.2	2.6	1.6	2.0	2.3	3.9	2.3	1.6
CASPIAN LST 120	3.2	3.6	4.1	2.8	3.2	3.7	7.3	5.5	5.3
CASPIAN LST 150	4.6	5.1	5.6	4.2	4.7	5.2	8.6	6.8	6.2
CASPIAN LST 180	6.1	6.6	7.1	5.7	6.2	6.7	11.3	8.6	7.9

Model	Flow & return connections	Fused spur	Total Power Consumption				Sound Levels			Casting colour	Fan only
			Low (Watts)	Medium (Watts)	High (Watts)	Water Capacity (Litres)	High (dBA)	Medium (dBA)	Low (dBA)		
CASPIAN LST 60	22mm	3A	26	41	55	0.92	50	43	35	white	•
CASPIAN LST 90	22mm	3A	33	59	85	1.50	53	45	37	white	•
CASPIAN LST 120	22mm	3A	33	79	125	2.08	57	48	38	white	•
CASPIAN LST 150	22mm	3A	50	119	188	2.58	59	47	36	white	•
CASPIAN LST 180	22mm	3A	66	158	250	3.18	59	47	36	white	•

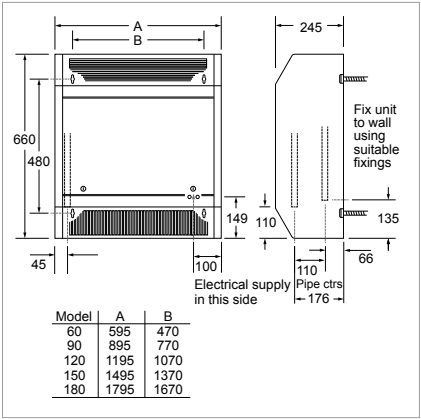
Heat output testing based on BS EN442 using mean water temperature, 20°C entering air temperature, 10° temperature drop.
Sound levels measured at 3m in front of the floor mounted model.

Ordering Guide

Model	Packed Wt (kg)	Product Codes
CASPIAN LST 60 EC	24	HPCA28001
CASPIAN LST 90 EC	36	HPCA28002
CASPIAN LST 120 EC	44	HPCA28003
CASPIAN LST 150 EC	60	HPCA28004
CASPIAN LST 180 EC	78	HPCA28005

Plinths	Product Codes			
	100mm Black	100mm White	150mm Black	150mm White
CASPIAN UV/LST 60 PLINTH	HACA33106	HACA33111	HACA33097	HACA33006
CASPIAN UV/LST 90 PLINTH	HACA33107	HACA33112	HACA33098	HACA33007
CASPIAN UV/LST 120 PLINTH	HACA33108	HACA33113	HACA33099	HACA33008
CASPIAN UV/LST 150 PLINTH	HACA33109	HACA33114	HACA33100	HACA33009
CASPIAN UV/LST 180 PLINTH	HACA33110	HACA33115	HACA33101	HACA33010
Accessories				Product Codes
FLEXIBLE HOSES 22MM PAIR				HAGA95003
CASPIAN REMOTE SWITCHING ON/OFF RELAY (24V AC COIL)				HACA33127

Dimensions



Mounting Option

