

Merriott

Ultima Touch Temperature



What does Merriott stand for?

Our bespoke heating and cooling solutions are the better choice for commercial applications across the UK and Ireland.

Merriott offers a diverse and versatile range of designer heating solutions.

Whether they are building consultants, architects or designers, our customers can tailor our bespoke range of products to satisfy their specification requirements.

We have invested in world-class production facilities and manufacture products of the very highest standard - backed by revolutionary technology, rigorous testing and stringent quality control.

As a company, we have an unwavering commitment to innovation and sustainability, pioneering products that lead the way in design, performance and energy efficiency.

Underpinning all of this is our relationship with our customers: ensuring they can rely on best-in-class service and support, from specification right through to delivery.

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Range Overview

Ultima Touch Temperature

Merriott Ultima Touch Temperature radiators comply with NHS guidelines for maximum surface temperature of 43 °C, with a maximum 80°C flow and 70°C return (i.e. ΔT 55°C).

OUTPUTS

All Merriott Ultima Touch Temperature radiators have been manufactured and tested in accordance with EN442.

FINISH

Every Merriott Ultima Touch Temperature radiator undergoes an intensive pre-treatment process to protect against rust. In pre-treatment, the radiators are degreased and powder-coated with iron phosphate and rinsed prior to painting. A cathodic electrodeposition primer coating is then applied to give total coverage of the bare steel and maximum corrosion protection. The durable topcoat (epoxy polyester powder) is electrostatically applied and stove enamel baked at 180 °C. The process is monitored to ensure continuous achievement of optimum adhesion, opacity and gloss levels

COLOUR

Our standard finish is anti-microbial semi-gloss RAL 9016 (white) in epoxy polyester powder.

An extensive range of other RAL colours are available on request.

Casing side panels can be finished in an alternative colour to the casing upon request.

PACKAGING

The entire surface of the emitter, including all 4 corners, is protected by cardboard box ends and packed in shrink wrapped polythene.

The entire casing is packaged in a cardboard box.

Emitters and covers are packaged separately allowing for delivery and installation of the cover at second fix installation stage.

TESTING

For Precision emitters, the standard test pressure is 7 Bar giving a maximum operating pressure of 5.38 Bar.

For Primo emitters, the standard test pressure is 10.5 Bar giving a maximum operating pressure of 8 Bar.

DIMENSIONAL TOLERANCES

Dimensional tolerances are in accordance with EN442.

MATERIALS

Merriott Ultima Touch Temperature radiators are manufactured from flat steel tubes, 70mm x 11mm, with a standard thickness of 1.5mm.

WARRANTY

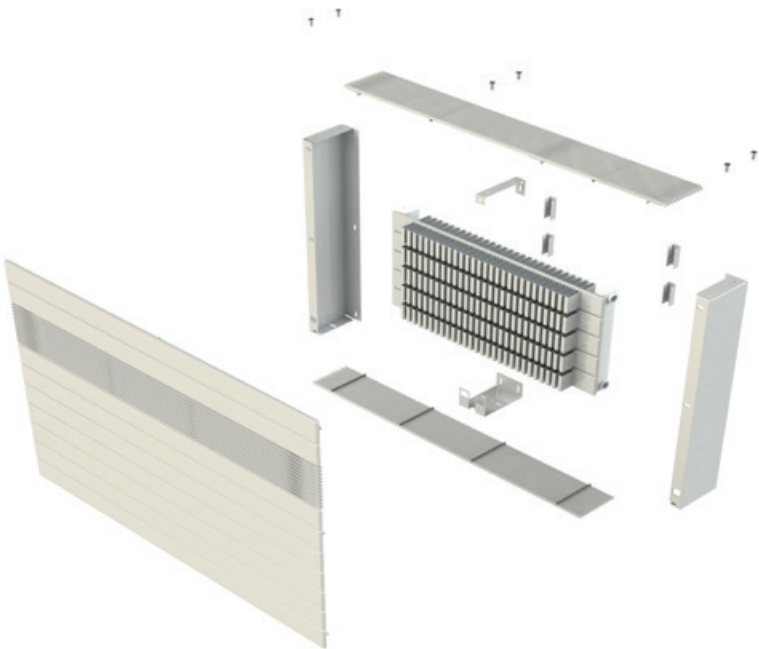
Merriott radiators are guaranteed for a period of 10 years from date of purchase in respect of defective materials and workmanship. The system should be designed in accordance with British Standard Code of Practice for Water Based Heating Systems in Buildings **BS EN 12828:2012+A1:2014** and **BS EN 12831-1:2017**. The installation and commissioning of the system should comply with **BS EN 14336:2004**. On completion of the installation, the system should be properly flushed and filled in accordance with the British Code of Practice for the Treatment of Water in Domestic Hot Water Central Heating Systems **BS 7593:2019**, Part L of Building Regulations and Good Practice Guidance for Scotland. Merriott strongly recommends the use of corrosion inhibitor for all applications. Failure to observe these standards may invalidate the manufacturer's warranty.

Product Information

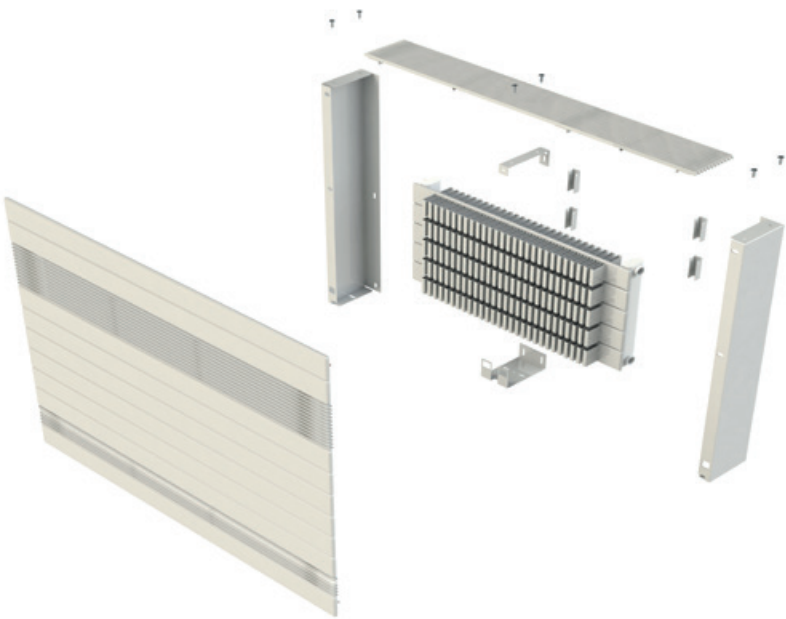
Ultima Touch Temperature components

Each LST casing consists of 2 end boxes, front panel, grilles and brackets.

Every LST has 3 grilles to allow an inlet and outlet of air.



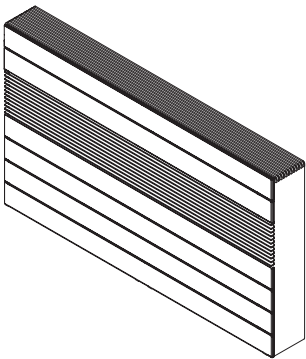
STYLE 2



STYLE 4

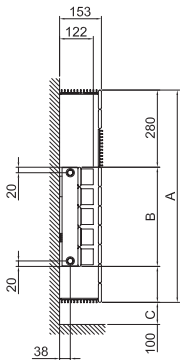
Range Options

Style 2 LST cover models



STYLE LC2A

Style 2 with a Precision Emitter (Type E12)
Top Outlet Grille
Top Front Facing Grille (140mm)
Bottom Inlet Grille

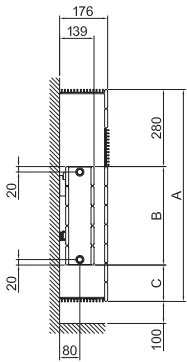


Cover 'A' (mm)	560	630	700	770	840	910	980
Emitter 'B' (mm)	143	215	288	360	433	505	578
Clearance 'C' (mm)	137	207	205	202	200	197	195
(Watts/m) ΔT50 °C	481	641	787	907	1048	1190	1305
(Watts/m) ΔT30 °C	246	328	403	467	540	613	672

- Add 300mm for overall casing length.
- Max length of casing in one piece is 3000mm. max length of emitter 2700mm.

STYLE LC2B

Style 2 with a Precision Emitter (Type E22)
Top Outlet Grille
Top Front Facing Grille (140mm)
Bottom Inlet Grille

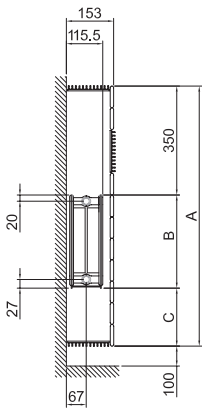


Cover 'A' (mm)	630	700	770	840	910	980
Emitter 'B' (mm)	143	215	288	360	433	505
Clearance 'C' (mm)	207	205	202	200	197	195
(Watts/m) ΔT50 °C	653	851	1032	1205	1372	1536
(Watts/m) ΔT30 °C	367	466	551	627	710	791

- Add 300mm for overall casing length.
- Max length of casing in one piece is 3000mm. max length of emitter 2700mm.

STYLE LC2C

Style 2 with a Primo Emitter (Type T22)
Top Outlet Grille
Top Front Facing Grille (140mm)
Bottom Inlet Grille

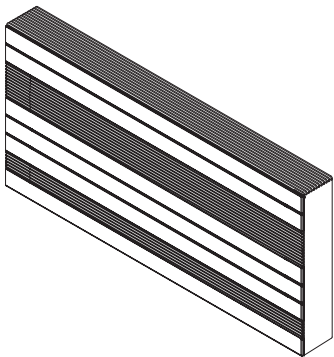


Cover 'A' (mm)	770	840	910	980
Emitter 'B' (mm)	300	300	400	500
Clearance 'C' (mm)	120	190	160	130
(Watts/m) ΔT50 °C	1096	1096	1382	1652
(Watts/m) ΔT30 °C	561	561	703	836

- Add 300mm for overall casing length.
- Max length of casing in one piece is 3000mm. max length of emitter 2700mm.

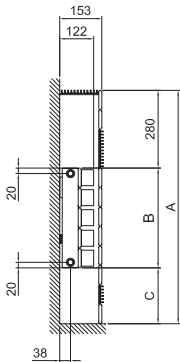
Range Options

Style 4 LST cover models



STYLE LC4A

Style 4 with a Precision Emitter (Type E12)
Top Outlet Grille
Top Front Facing Grille (140mm)
Bottom Front Facing Grille (70mm)

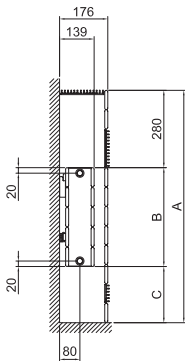


Cover 'A' (mm)	630	700	770	840	910	980
Emitter 'B' (mm)	143	215	288	360	433	505
Clearance 'C' (mm)	207	205	202	200	197	195
(Watts/m) $\Delta T50^{\circ}C$	481	641	787	907	1048	1190
(Watts/m) $\Delta T30^{\circ}C$	246	328	403	467	540	613

- Add 300mm for overall casing length.
- Max length of casing in one piece is 3000mm. max length of emitter 2700mm.

STYLE LC4B

Style 4 with a Precision Emitter (Type E22)
Top Outlet Grille
Top Front Facing Grille (140mm)
Bottom Front Facing Grille (70mm)

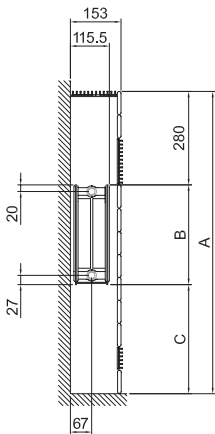


Cover 'A' (mm)	630	700	770	840	910	980
Emitter 'B' (mm)	143	215	288	360	433	505
Clearance 'C' (mm)	207	205	202	200	197	195
(Watts/m) $\Delta T50^{\circ}C$	653	851	1032	1205	1372	1536
(Watts/m) $\Delta T30^{\circ}C$	367	466	551	627	710	791

- Add 300mm for overall casing length.
- Max length of casing in one piece is 3000mm. max length of emitter 2700mm.

STYLE LC4C

Style 4 with a Primo Emitter (Type T22)
Top Outlet Grille
Top Front Facing Grille (140mm)
Bottom Front Facing Grille (70mm)



Cover 'A' (mm)	700	770	840	910	980
Emitter 'B' (mm)	300	300	400	500	500
Clearance 'C' (mm)	120	190	160	130	200
(Watts/m) $\Delta T50^{\circ}C$	1096	1096	1382	1652	1910
(Watts/m) $\Delta T30^{\circ}C$	561	561	703	836	961

- Add 300mm for overall casing length.
- Max length of casing in one piece is 3000mm. max length of emitter 2700mm.

Weights and Water Content

PRECISION EMITTER (TYPE 12)

Cover (mm)	560	630	700	770	840	910	980
Emitter (mm)	143	215	288	360	433	505	578
Emitter Water Content (Litres/m)	1.16	1.74	2.32	2.90	3.48	4.06	4.64
Emitter Dry Weight (Kg/m)	6.99	10.48	13.97	17.46	20.96	24.45	27.94

PRECISION EMITTER (TYPE 24)

Cover (mm)	560	630	700	770	840	910	980
Emitter (mm)	143	215	288	360	433	505	578
Emitter Water Content (Litres/m)	2.32	3.48	4.64	5.8	6.96	8.12	9.28
Emitter Dry Weight (Kg/m)	13.09	19.63	26.17	32.72	39.26	45.8	52.35

PRIMO EMITTER (TYPE 22)

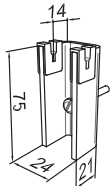
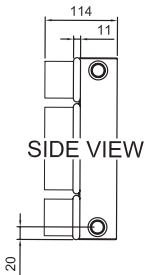
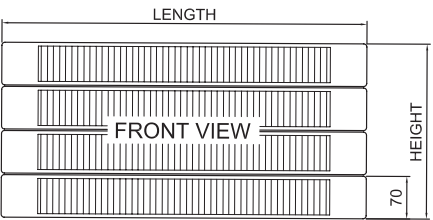
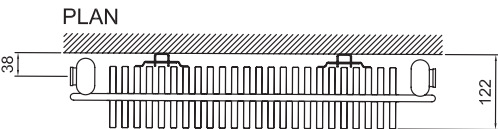
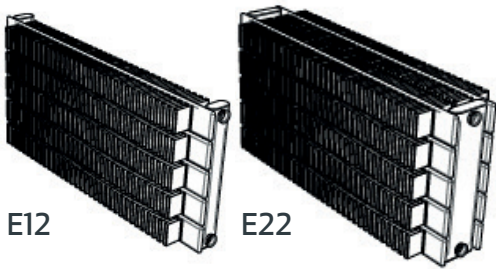
Cover (mm)	770	840	910	980
Emitter (mm)	300	300	400	500
Emitter Water Content (Litres/m)	3.39	3.39	4.39	5.38
Emitter Dry Weight (Kg/m)	16.84	16.84	22.65	28.47

Dimensional Information

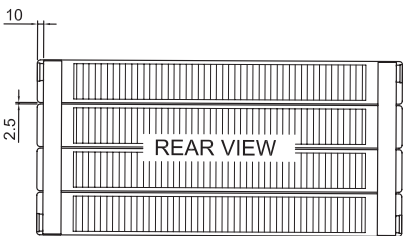
Precision emitters

TECHNICAL SPECIFICATION FOR TYPE E12 EMITTER

Height: available from 143mm to 578mm in increments of 72.5mm.
Length: available from 500mm to 2700mm in increments of 100mm.



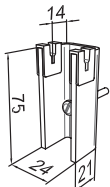
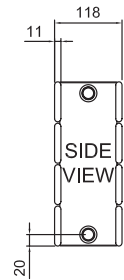
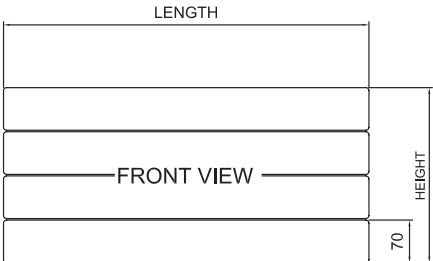
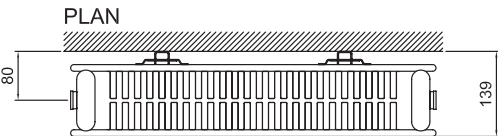
A2 Wall Bracket



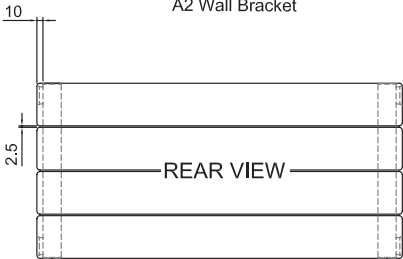
For mounting lug details see
Bracket Location section

TECHNICAL SPECIFICATION FOR TYPE E22 EMITTER

Height: available from 143mm to 578mm in increments of 72.5mm.
Length: available from 500mm to 2700mm in increments of 100mm.



A2 Wall Bracket



For mounting lug details see
Bracket Location section

Dimensional Information & Mounting Details

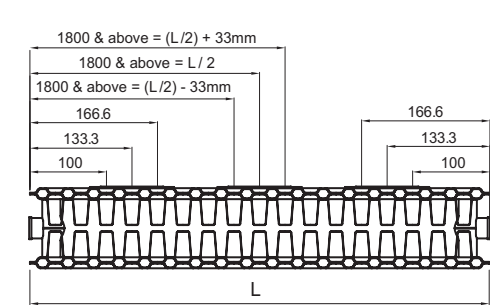
Primo emitters

TECHNICAL SPECIFICATION FOR TYPE T22 EMITTER

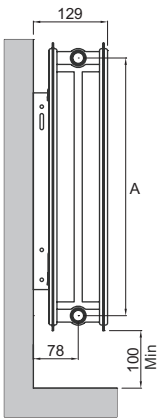
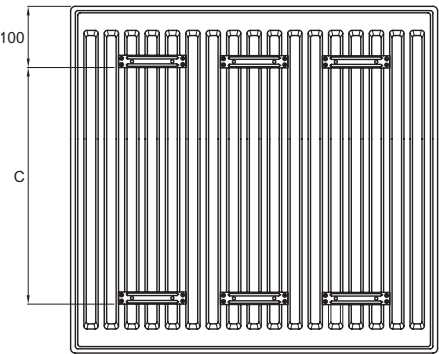
Height: available from 300mm to 500mm in increments of 100mm.
Length: available from 300mm to 2700mm in increments of 100mm.



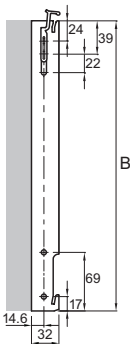
T22



Nominal Height (mm)	C (mm)
300	120
400	220
500	320



Nominal Height (mm)	A (mm)
300	250
400	350
500	450



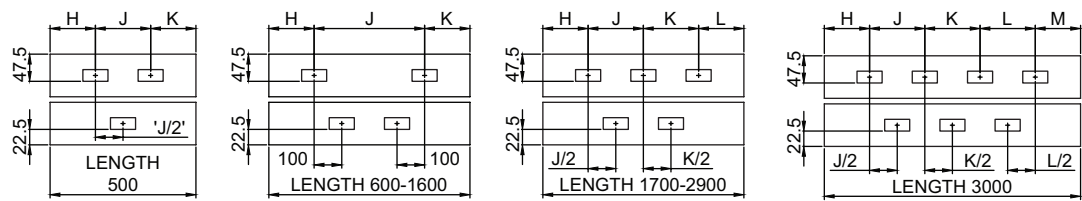
Nominal Height (mm)	B (mm)
300	142
400	242
500	342

Emitter Type:	Height (mm)	Available Lengths (mm)														
T22	300	400	500	600	800	1000	1200	1400	1600	1800	2000	-	-	-	-	-
	400	400	500	600	700	800	900	1000	1100	1200	1300	1400	1600	1800	2000	-
	500	-	400	500	600	700	800	900	1000	1100	1200	1300	1400	1600	1800	2000

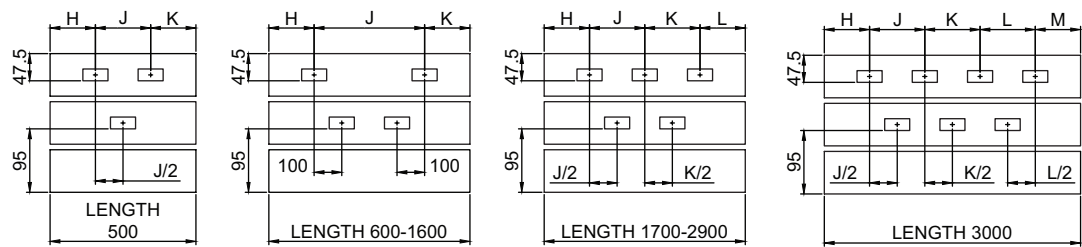
Mounting Details

Bracket locations: Precision emitters

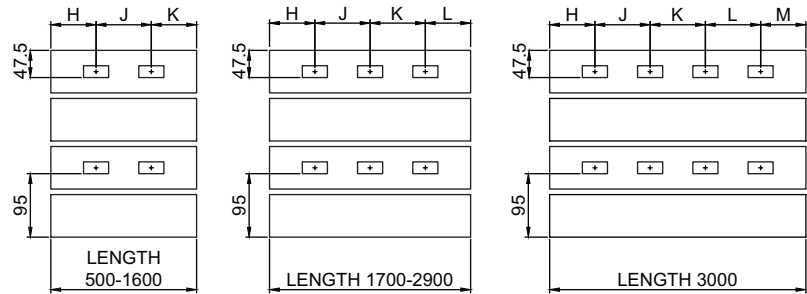
HEIGHT: 143mm



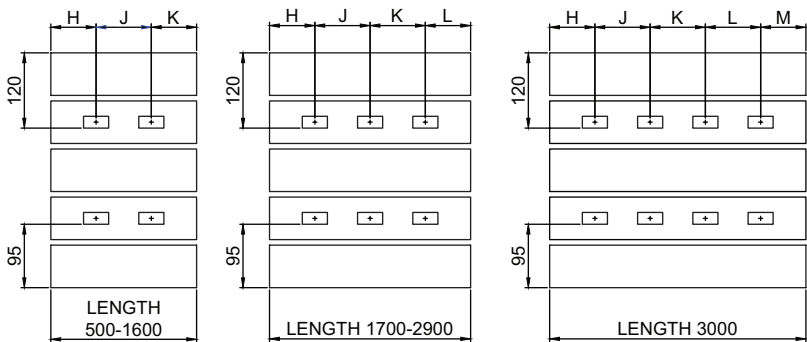
HEIGHT: 215mm



HEIGHT: 288mm



HEIGHT: 360mm - 868mm

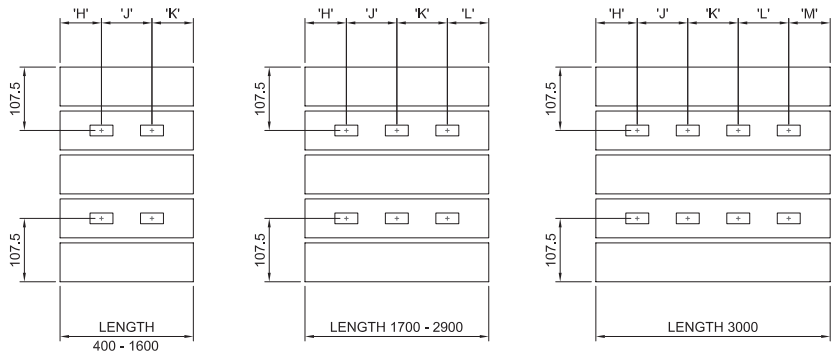


All dimensions are in millimetres

Mounting Details

Bracket locations: Precision emitters

HEIGHT: 360mm - 868mm



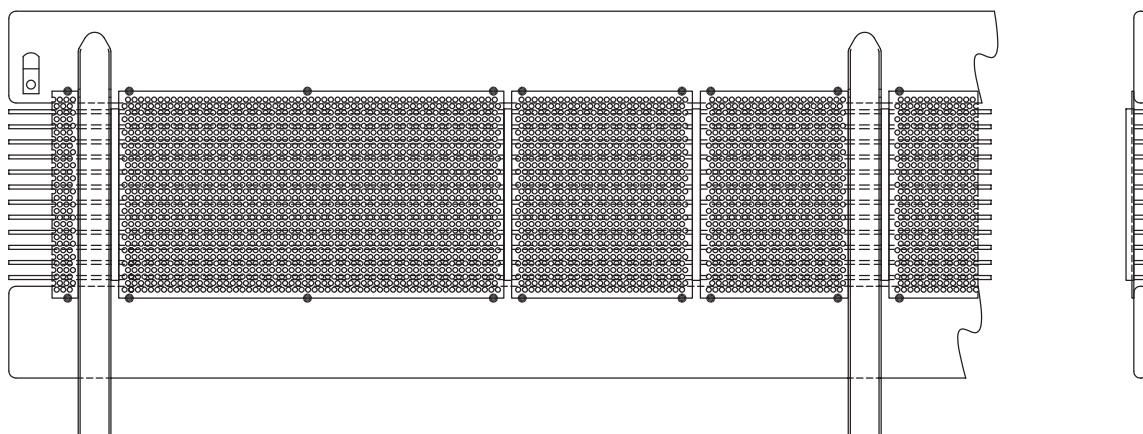
Length	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	2400	2500	2600	2700	2800	2900	3000
H'	130	140	150	150	140	150	140	150	150	140	150	150	140	150	150	150	150	140	150	150	140	150	150	140	150	140	150
J'	140	220	300	400	520	600	720	800	900	1020	1100	1200	1320	700	720	800	820	900	920	1000	1060	1100	1120	1200	1220	1300	900
K'	130	140	150	150	140	150	140	150	150	140	150	150	140	700	780	800	880	920	980	1000	1060	1100	1180	1220	1280	1320	900
L'	-	-	-	-	-	-	-	-	-	-	-	-	-	150	150	150	150	140	150	150	140	150	150	140	150	140	900
M'	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	150

All dimensions are in millimetres

Additional Options

Grilles

- Anti-ligature mesh should be specified at time of order and is used instead of all grilles on specified LST
- Use of anti-ligature grilles will reduce output by 26% and the unit will no longer be NHS compliant at 43°C





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Merriott UK & Ireland
Purmo Group (UK) Ltd
Eastern Avenue, Team Valley
Gateshead, Tyne & Wear, NE11 0PG
0330 0415 472
sales@merriottuk.com / sales@merriott.ie
www.merriottuk.com

Follow us on  @merriottuk and 

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