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1

ULTRA LST COLLECTION



ULTRA LST COLLECTION

The Towelrads Ultra LST range is a state of the art Low Surface Temperature radiator solution where protecting the vulnerable is a priority. All the products in the Ultra LST range do not exceed 43 degrees external temperatures in line with NHS guidelines for safety ensuring clients and contractors alike can specify and install with confidence.

Towelrads have three core products in the LST Ultra range, our standard one-piece construction "LST Ultra" which is available in 1.5mm thick casing as standard and a heavy duty 2mm option for those high traffic and added durability situations.

The Towelrads "Easyclean" product, is also available in 1.5mm as standard with a 2mm heavy duty option. The Easyclean is a lockable hinged casing for easy access to the emitter for cleaning and maintenance, especially designed for hospitals and areas where infection control and cleaning is a major priority.

Completing the Ultra LST family is the Towelrads Anti Ligature casing. Manufactured from 2mm heavy gauge steel as standard the Anti Ligature casing incorporates a true anti ligature punched mesh design with subsequent internal wall and floor fixings, the casing is also Class O Fire Rated for added protection.

All of the Towelrads LST Ultra Range casings are finished with Anti-Microbial paint ensuring industry leading protection from bacteria and microbes

ULTRA LST STANDARD

FEATURES AND BENEFITS:

- Three products in the LST Ultra range ensuring a solution for all applications.
- 1.5mm or 2mm thick casing options for added strength and durability where required
- The Ultra LST is available in three heights (500mm, 650mm and 800mm) with eight lengths from 600mm to 2000mm as standard.
- Casing designed to be fit flush to the floor, so no plinth required, above skirting options available on request.
- Internal compact radiator manufactured to EN442 certification, adapted wall brackets ensure one casing depth of 130mm is suitable whether T11 or T22 heat emitter. (160mm Anti Ligature Product)
- RAL 9010 paint finish as standard incorporating Anti-Microbial paint to maximise resistance from bacteria and microbes
- All casing corners are rounded to eliminate any potential sharp edges
- Two stage installation process applicable meaning emitters can be installed and covers delivered to site at a later date when required. Therefore eliminating unnecessary storage or potential damage
- Casings can also be retro fitted to existing radiator installations if necessary.
- 5-year warranty on Casings and 10 year warranty on Heat Emitters
- All casings manufactured in the UK
- High pressure capability, 10 bar working pressure
- Available with ½" BSP x 15mm angled tamper proof internal capacity TRV or external capillary TRV head that can be fitted LH or RH remotely on the casing.

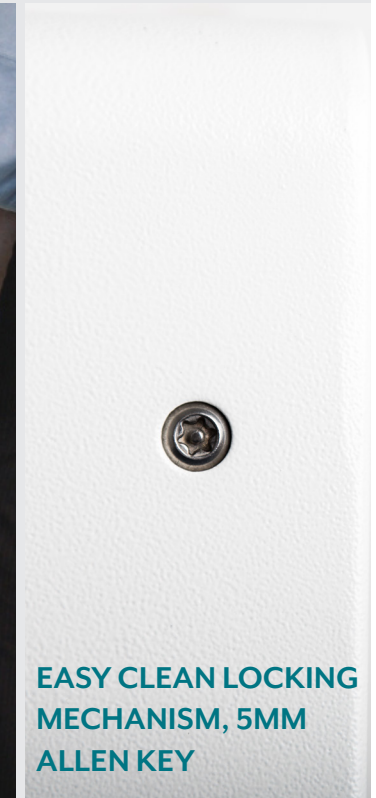


**ULTRA LST ANTI-LIGATURE
SLOPED TOP**

SINGLE PIECE CONSTRUCTION USING A STATE OF THE ART LASER CUTTING OPERATION



ULTRA LST EASY CLEAN



**EASY CLEAN LOCKING
MECHANISM, 5MM
ALLEN KEY**

ULTRA LST ANTI-LIGATURE



OPTIONS

Ultra LST is available with a choice of internal and external thermostatic valves. These valves are unidirectional and must always be fitted to the flow side of the emitter.

The external control head consists of a 15mm angled valve fitted to the emitter inside the LST cover and linked by capillary tube to an external TRV head. This can be positioned on either side of the cover and emitter. The temperature head can be pre-set to the desired temperature and locked. These valves are unsuitable for single pipe systems.

A direct Fit TRV Kit is also available allowing the installer to fit the TRV on to the internal emitter with the TRV head protruding through the casing.

The internal control head consists of a 15mm angled valve body control head fitted to the emitter inside the cover. It features an internal capillary sensor that is attached to the underside of the cover to measure the inlet air temperature. The control head can be pre-set to the desired temperature and is tamper-proof.

The HARVK5 TRV kit is a fully dynamic thermostatic valve option with self-regulating adjustment.



ACVK1
Lockable remote sensing with L/S



ACVK2
Lockable internal sensing with L/S



HARVK5
self regulating dynamic TRV set



ACVK3
Direct Fit TRV Kit

LST Heavy Duty 2mm casing
The Ultra LST is also available with a heavy duty 2mm casing for those high traffic areas where extra durability is required.

The Ultra LST Standard and Easy Clean casings are available as a heavy duty 2mm casing option. The Towelrads Anti Ligature casing is 2mm as standard as is our LST Vertical range

- Towelrads LST Ultra Standard – One piece floor mounted LST casing with a smooth contour radius finish to eliminate any potential sharp edges.
- Towelrads Easy Clean Ultra LST is designed to provide complete access to the emitter and associated pipework by means of a fully hinged removable front panel. The removable quick access front panel is fully lockable with a 5mm allen key and is attached with security fixings
- Towelrads Anti Ligature Ultra LST incorporates a fully punched mesh design. Punching perforations into the cover ensures there are no weak spots or potential for removal of the mesh or to create a ligature point on the casing. 2mm heavy duty anti vandal steel casing as standard. The casing is tested to Class O Fire Rating and complete with internal wall and floor fixings. External remote shrouded TRV options are available as well as 30 degree and 45 degree sloping tops. Price on application.



Optional RAL Finishes Available	
RAL 1013	Oyster White
RAL 1023	Traffic Yellow
RAL 3000	Flame Red
RAL 5002	Ultramarine Blue
RAL 7016	Anthracite Grey
RAL 7032	Pebble Grey
RAL 7035	Light Grey
RAL 8017	Chocolate Brown
RAL 9005	Jet Black

TECHNICAL SPECIFICATIONS

ULTRA LST STANDARD COLLECTION

T11

Product Code	Casing Height	Casing Length	Emitter Height	Emitter Length	T50k watts	BTU T50
660000	500	600	300	400	187	638
660001		800	300	600	281	959
660002		1000	300	800	374	1276
660003		1200	300	1,000	468	1597
660004		1400	300	1,200	562	1918
660005		1600	300	1,400	655	2235
660006		1800	300	1,600	749	2556
660007		2000	300	1,800	842	2875
660073	650	600	500	400	293	998
660074		800	500	600	439	1498
660075		1000	500	800	584	1993
660076		1200	500	1,000	731	2495
660077		1400	500	1,200	878	2996
660078		1600	500	1,400	1028	3508
660079		1800	500	1,600	1178	4020
660080		2000	500	1,800	1398	4770
660081	800	600	600	400	363	1239
660082		800	600	600	545	1860
660083		1000	600	800	727	2480
660084		1200	600	1,000	910	3105
660085		1400	600	1,200	1093	3729
660086		1600	600	1,400	1274	4347
660087		1800	600	1,600	1458	4977
660088		2000	600	1,800	1639	5593

T22

Product Code	Casing Height	Casing Length	Emitter Height	Emitter Length	T50k watts	BTU T50
660024	500	600	300	400	346	1180
660025		800	300	600	520	1775
660026		1000	300	800	693	2365
660027		1200	300	1,000	867	2965
660028		1400	300	1,200	1039	3545
660029		1600	300	1,400	1211	4132
660030		1800	300	1,600	1387	4733
660031		2000	300	1,800	1560	5323
660089	650	600	500	400	485	1655
660090		800	500	600	723	2469
660091		1000	500	800	964	3290
660092		1200	500	1,000	1208	4122
660093		1400	500	1,200	1445	4931
660094		1600	500	1,400	1690	5766
660095		1800	500	1,600	1988	6783
660096		2000	500	1,800	2202	7513
660097	800	600	600	400	611	2085
660098		800	600	600	919	3136
660099		1000	600	800	1226	4183
660100		1200	600	1,000	1533	5231
660101		1400	600	1,200	1839	6275
660102		1600	600	1,400	2148	7329
660103		1800	600	1,600	2453	8370
660104		2000	600	1,800	2761	9421

Internal Sensing Valve Kit 15mm inc Lockshield	ACVK2
2m Capillary Valve Kit 15mm Inc Lockshield	ACVK1
Direct Fit TRV Kit	ACVK3
Self regulating dynamic TRV Set	HARVK5

4

ULTRA LST COLLECTION

LST ULTRA VERTICAL – 2MM CASE THICKNESS

Casing Height	Casing Depth	Casing Length	Emitter Height	Emitter Length	Tapping Centre	DT50k T20 watts	DT50k T21 watts	DT50k T22 watts
2100	162	400	1800	300	240	811	964	1162
		500		400	340	1081	1285	1550
		600		500	440	1351	1607	1937
		700		600	540	1622	1928	2324
		800		700	640	1892	2249	2712

TECHNICAL DIAGRAMS

Dimensional information
Features Emitter and Cover

Ultra LST Type 11 and Type 22 130mm* Casing Depth
Heat Emitter length = Case L- 200mm

*Standard and Easyclean dimensions only

*Anti-Ligature casing depth 160mm T11 and T22

