



LST



## LST (LOW SURFACE TEMPERATURE)

The MYSON LST is one of the UK's most popular LST radiators. It is compliant with NHS Estates Guidance Notes 1998 and therefore ideal for hospital and care home applications. It is also suitable for schools, student accommodation and other social housing projects. The surface temperature remains below 43°C and has a safety conscious round steel casing, eliminating sharp edges.

- The MYSON LST is available in 90 sizes
- It is available in three types, Super, Super Extra and Super Plus
- There are four different heights ranging from 572mm to 972mm
- We offer lengths from 420mm, which is the slimmest panel LST radiator on the market today, through to 2200mm

## LST (LOW SURFACE TEMPERATURE)

### GENERAL SPECIFICATION & TECHNICAL INFORMATION



#### CERTIFICATION

Manufactured and tested to BS EN 442. Carries the BS Kitemark. Produced under a quality management system - ISO 9001:2008 and environmental management system - ISO 14001:2004.



#### GUARANTEE

10 year guarantee from date of purchase against manufacturing defects for both the radiator and the casing.



#### COLOUR

All radiators are de-greased, phosphated and primer coated. An epoxy polyester finishing coat in white (RAL 9016) is applied to all front and rear surfaces.



#### ACCESSORIES

Touch up paint available on request.



#### SYSTEM

2 pipe pumped indirect domestic and commercial heating applications.



#### CONNECTIONS

4 x 1/2" BSP. Please refer to control options on page 47.



#### AIR VENTS

Air vent and plug packs are included in the packaging.



#### OPERATING PRESSURES

Tested to a pressure of 10.5 bar.  
Working pressure of up to 8.0 bar.



#### OPERATING TEMPERATURE

Surface temperature below 43°C.  
Water inlet temperature up to 82°C.



#### DELIVERY

2 - 5 working days.



#### VALVES

Please see page 220.



#### BIM

Visit our website to download the BIM components  
[www.myson.co.uk/bim](http://www.myson.co.uk/bim)

For more general information, please see page 242.

#### WEIGHTS & WATER CONTENTS PER RADIATOR - LST SUPER

| Nominal Length (mm) | Nominal Height (mm) |                   |             |                   |             |                   |             |                   |
|---------------------|---------------------|-------------------|-------------|-------------------|-------------|-------------------|-------------|-------------------|
|                     | 572                 |                   | 672         |                   | 872         |                   | 972         |                   |
|                     | Weight (kg)         | Water Content (l) | Weight (kg) | Water Content (l) | Weight (kg) | Water Content (l) | Weight (kg) | Water Content (l) |
| 420                 | -                   | -                 | 7.43        | 0.63              | 10.15       | 0.90              | 11.36       | 1.05              |
| 600                 | -                   | -                 | 11.02       | 0.84              | 15.32       | 1.20              | 17.22       | 1.40              |
| 800                 | 12.10               | 1.02              | 14.90       | 1.26              | 20.90       | 1.80              | 23.53       | 2.10              |
| 1000                | 15.22               | 1.36              | 18.80       | 1.68              | 26.50       | 2.40              | 29.88       | 2.80              |
| 1200                | 18.45               | 1.70              | 22.69       | 2.10              | 32.09       | 3.00              | 36.21       | 3.50              |
| 1400                | 21.63               | 2.04              | 26.62       | 2.52              | 37.73       | 3.60              | 42.57       | 4.20              |
| 1600                | 24.80               | 2.38              | 30.56       | 2.94              | 43.37       | 4.20              | 48.94       | 4.90              |
| 1800                | 27.94               | 2.72              | 34.53       | 3.36              | 49.04       | 4.80              | 55.34       | 5.60              |
| 2000                | 31.07               | 3.06              | 38.40       | 3.78              | 54.62       | 5.40              | 61.74       | 6.30              |
| 2200                | -                   | -                 | 42.27       | 4.20              | 60.20       | 6.00              | -           | -                 |

#### WEIGHTS & WATER CONTENTS PER RADIATOR - LST SUPER EXTRA

| Nominal Length (mm) | Nominal Height (mm) |                   |             |                   |
|---------------------|---------------------|-------------------|-------------|-------------------|
|                     | 672                 |                   | 872         |                   |
|                     | Weight (kg)         | Water Content (l) | Weight (kg) | Water Content (l) |
| 600                 | 14.63               | 1.72              | 20.39       | 2.48              |
| 800                 | 19.96               | 2.58              | 28.51       | 3.72              |
| 1000                | 25.30               | 3.44              | 35.96       | 4.96              |
| 1200                | 30.84               | 4.30              | 43.88       | 6.20              |
| 1400                | 36.27               | 5.16              | 51.46       | 7.44              |
| 1600                | 41.74               | 6.02              | 60.07       | 8.68              |
| 1800                | 47.03               | 6.88              | 67.42       | 9.92              |
| 2000                | 53.19               | 7.74              | 75.03       | 11.16             |
| 2200                | 58.38               | 8.60              | 83.21       | 12.40             |

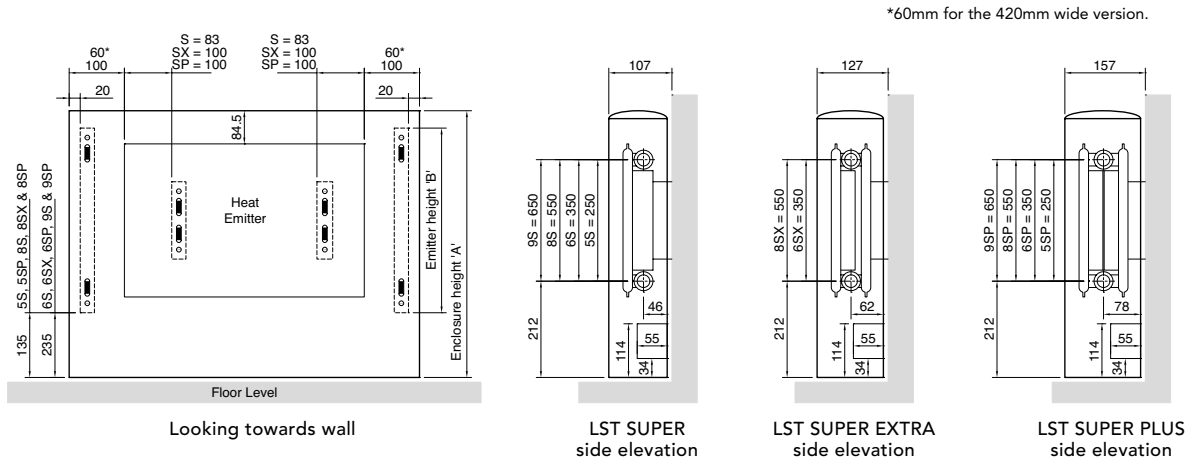
WEIGHTS & WATER CONTENTS PER RADIATOR - LST SUPER PLUS

| Nominal Length (mm) | Nominal Height (mm) |                   |             |                   |             |                   |             |                   |
|---------------------|---------------------|-------------------|-------------|-------------------|-------------|-------------------|-------------|-------------------|
|                     | 572                 |                   | 672         |                   | 872         |                   | 972         |                   |
|                     | Weight (kg)         | Water Content (l) | Weight (kg) | Water Content (l) | Weight (kg) | Water Content (l) | Weight (kg) | Water Content (l) |
| 420                 | -                   | -                 | 10.61       | 1.29              | 14.78       | 1.86              | 16.62       | 2.10              |
| 600                 | -                   | -                 | 16.28       | 1.72              | 23.04       | 2.48              | 26.07       | 2.80              |
| 800                 | 17.92               | 2.04              | 22.36       | 2.58              | 31.88       | 3.72              | 36.18       | 4.20              |
| 1000                | 22.70               | 2.72              | 28.44       | 3.44              | 40.72       | 4.96              | 46.32       | 5.60              |
| 1200                | 27.50               | 3.40              | 34.52       | 4.30              | 49.59       | 6.20              | 56.45       | 7.00              |
| 1400                | 32.31               | 4.08              | 40.61       | 5.16              | 58.44       | 7.44              | 66.57       | 8.40              |
| 1600                | 37.12               | 4.76              | 46.74       | 6.02              | 67.33       | 8.68              | 76.73       | 9.80              |
| 1800                | 41.80               | 5.44              | 52.88       | 6.88              | 76.24       | 9.92              | 86.91       | 11.20             |
| 2000                | 46.74               | 6.12              | 58.94       | 7.74              | 85.06       | 11.16             | 97.09       | 12.60             |
| 2200                | -                   | -                 | 65.00       | 8.60              | 93.88       | 12.40             | -           | -                 |

n-COEFFICIENTS

| Type |     | Nominal Height (mm) |        |        |        |
|------|-----|---------------------|--------|--------|--------|
|      |     | 572                 | 672    | 872    | 972    |
| 11   | LS  | 1.3047              | 1.3027 | 1.3093 | 1.3178 |
| 21   | LSX | -                   | 1.2808 | 1.2640 | -      |
| 22   | LSP | 1.3121              | 1.3229 | 1.3444 | 1.3528 |

BRACKET POSITIONS & DIMENSIONS



| Enclosure Height A (mm) | Emitter Height B (mm) |
|-------------------------|-----------------------|
| 572                     | 300                   |
| 672                     | 400                   |
| 872                     | 600                   |
| 972                     | 700                   |

**Important:** It is advisable to leave a further 5mm clearance above any final floor covering to allow for easy fitting and removal.

NB: All measurements are nominal.

## LST (LOW SURFACE TEMPERATURE)

### HEAT OUTPUTS

LST SUPER - Nominal Depth 107mm



| Nominal Height | Outer Casing Nominal Length (mm) |
|----------------|----------------------------------|
| 572mm          | 800                              |
|                | 1000                             |
|                | 1200                             |
|                | 1400                             |
|                | 1600                             |
|                | 1800                             |
|                | 2000                             |

| Heat Outputs @ $\Delta T$ 50°C |       | Heat Outputs @ $\Delta T$ 30°C |       | Order Code |
|--------------------------------|-------|--------------------------------|-------|------------|
| Watts                          | Btu/h | Watts                          | Btu/h |            |
| 277                            | 946   | 139                            | 475   | 5 LS 080   |
| 370                            | 1261  | 186                            | 634   | 5 LS 100   |
| 462                            | 1576  | 232                            | 792   | 5 LS 120   |
| 554                            | 1890  | 278                            | 949   | 5 LS 140   |
| 647                            | 2207  | 325                            | 1109  | 5 LS 160   |
| 739                            | 2521  | 371                            | 1266  | 5 LS 180   |
| 832                            | 2837  | 418                            | 1426  | 5 LS 200   |

|       |      |
|-------|------|
| 672mm | 420  |
|       | 600  |
|       | 800  |
|       | 1000 |
|       | 1200 |
|       | 1400 |
|       | 1600 |
|       | 1800 |
|       | 2000 |
|       | 2200 |

|      |      |     |      |          |
|------|------|-----|------|----------|
| 182  | 621  | 92  | 314  | 6 LS 042 |
| 243  | 830  | 123 | 418  | 6 LS 060 |
| 365  | 1245 | 184 | 627  | 6 LS 080 |
| 486  | 1660 | 245 | 836  | 6 LS 100 |
| 608  | 2074 | 306 | 1045 | 6 LS 120 |
| 730  | 2489 | 368 | 1254 | 6 LS 140 |
| 851  | 2904 | 429 | 1463 | 6 LS 160 |
| 973  | 3319 | 490 | 1672 | 6 LS 180 |
| 1094 | 3734 | 551 | 1881 | 6 LS 200 |
| 1216 | 4149 | 612 | 2088 | 6 LS 220 |

|       |      |
|-------|------|
| 872mm | 420  |
|       | 600  |
|       | 800  |
|       | 1000 |
|       | 1200 |
|       | 1400 |
|       | 1600 |
|       | 1800 |
|       | 2000 |
|       | 2200 |

|      |      |     |      |          |
|------|------|-----|------|----------|
| 265  | 904  | 134 | 457  | 8 LS 042 |
| 353  | 1205 | 179 | 610  | 8 LS 060 |
| 530  | 1808 | 268 | 915  | 8 LS 080 |
| 706  | 2410 | 358 | 1221 | 8 LS 100 |
| 883  | 3013 | 447 | 1526 | 8 LS 120 |
| 1060 | 3615 | 537 | 1831 | 8 LS 140 |
| 1236 | 4218 | 626 | 2136 | 8 LS 160 |
| 1413 | 4820 | 716 | 2441 | 8 LS 180 |
| 1589 | 5423 | 805 | 2746 | 8 LS 200 |
| 1766 | 6026 | 894 | 3050 | 8 LS 220 |

|       |      |
|-------|------|
| 972mm | 420  |
|       | 600  |
|       | 800  |
|       | 1000 |
|       | 1200 |
|       | 1400 |
|       | 1600 |
|       | 1800 |
|       | 2000 |

|      |      |     |      |          |
|------|------|-----|------|----------|
| 304  | 1037 | 155 | 529  | 9 LS 042 |
| 405  | 1383 | 206 | 702  | 9 LS 060 |
| 608  | 2074 | 309 | 1053 | 9 LS 080 |
| 810  | 2765 | 412 | 1404 | 9 LS 100 |
| 1013 | 3456 | 514 | 1755 | 9 LS 120 |
| 1216 | 4148 | 617 | 2106 | 9 LS 140 |
| 1418 | 4839 | 720 | 2457 | 9 LS 160 |
| 1621 | 5530 | 823 | 2808 | 9 LS 180 |
| 1823 | 6220 | 925 | 3156 | 9 LS 200 |

LST SUPER PLUS - Nominal Depth 157mm



| Heat Outputs @ $\Delta T$ 50°C |       | Heat Outputs @ $\Delta T$ 30°C |       | Order Code |
|--------------------------------|-------|--------------------------------|-------|------------|
| Watts                          | Btu/h | Watts                          | Btu/h |            |
| 545                            | 1861  | 276                            | 942   | 5 LSP 080  |
| 727                            | 2481  | 368                            | 1256  | 5 LSP 100  |
| 909                            | 3102  | 460                            | 1571  | 5 LSP 120  |
| 1091                           | 3722  | 552                            | 1883  | 5 LSP 140  |
| 1273                           | 4342  | 644                            | 2199  | 5 LSP 160  |
| 1454                           | 4961  | 736                            | 2511  | 5 LSP 180  |
| 1636                           | 5583  | 829                            | 2827  | 5 LSP 200  |

|      |      |      |      |           |
|------|------|------|------|-----------|
| 351  | 1198 | 179  | 611  | 6 LSP 042 |
| 468  | 1597 | 238  | 811  | 6 LSP 060 |
| 702  | 2395 | 357  | 1217 | 6 LSP 080 |
| 936  | 3194 | 475  | 1622 | 6 LSP 100 |
| 1170 | 3992 | 594  | 2028 | 6 LSP 120 |
| 1404 | 4790 | 713  | 2433 | 6 LSP 140 |
| 1638 | 5589 | 832  | 2839 | 6 LSP 160 |
| 1872 | 6387 | 951  | 3244 | 6 LSP 180 |
| 2106 | 7186 | 1070 | 3650 | 6 LSP 200 |
| 2340 | 7984 | 1188 | 4053 | 6 LSP 220 |

|      |       |      |      |           |
|------|-------|------|------|-----------|
| 494  | 1686  | 253  | 863  | 8 LSP 042 |
| 659  | 2249  | 337  | 1150 | 8 LSP 060 |
| 989  | 3374  | 505  | 1724 | 8 LSP 080 |
| 1318 | 4498  | 674  | 2299 | 8 LSP 100 |
| 1648 | 5623  | 842  | 2874 | 8 LSP 120 |
| 1978 | 6748  | 1011 | 3449 | 8 LSP 140 |
| 2307 | 7872  | 1179 | 4023 | 8 LSP 160 |
| 2637 | 8997  | 1348 | 4598 | 8 LSP 180 |
| 2966 | 10121 | 1516 | 5173 | 8 LSP 200 |
| 3296 | 11245 | 1684 | 5746 | 8 LSP 220 |

|      |       |      |      |           |
|------|-------|------|------|-----------|
| 560  | 1911  | 287  | 979  | 9 LSP 042 |
| 747  | 2548  | 383  | 1306 | 9 LSP 060 |
| 1120 | 3822  | 574  | 1959 | 9 LSP 080 |
| 1494 | 5096  | 766  | 2613 | 9 LSP 100 |
| 1867 | 6370  | 957  | 3266 | 9 LSP 120 |
| 2240 | 7644  | 1149 | 3919 | 9 LSP 140 |
| 2614 | 8918  | 1340 | 4572 | 9 LSP 160 |
| 2987 | 10192 | 1531 | 5225 | 9 LSP 180 |
| 3361 | 11468 | 1723 | 5879 | 9 LSP 200 |

LST SUPER EXTRA - Nominal Depth 127 mm



| Nominal Height | Outer Casing Nominal Length (mm) |
|----------------|----------------------------------|
| 672mm          | 600                              |
|                | 800                              |
|                | 1000                             |
|                | 1200                             |
|                | 1400                             |
|                | 1600                             |
|                | 1800                             |
|                | 2000                             |
|                | 2200                             |

| Heat Outputs @ $\Delta T$ 50°C |       | Heat Outputs @ $\Delta T$ 30°C |       | Order Code |
|--------------------------------|-------|--------------------------------|-------|------------|
| Watts                          | Btu/h | Watts                          | Btu/h |            |
| 355                            | 1211  | 184                            | 629   | 6 LSX 060  |
| 532                            | 1815  | 277                            | 944   | 6 LSX 080  |
| 710                            | 2423  | 369                            | 1258  | 6 LSX 100  |
| 887                            | 3026  | 461                            | 1573  | 6 LSX 120  |
| 1064                           | 3630  | 553                            | 1888  | 6 LSX 140  |
| 1242                           | 4238  | 645                            | 2202  | 6 LSX 160  |
| 1419                           | 4842  | 738                            | 2517  | 6 LSX 180  |
| 1597                           | 5449  | 830                            | 2831  | 6 LSX 200  |
| 1774                           | 6053  | 922                            | 3146  | 6 LSX 220  |

|       |      |
|-------|------|
| 872mm | 600  |
|       | 800  |
|       | 1000 |
|       | 1200 |
|       | 1400 |
|       | 1600 |
|       | 1800 |
|       | 2000 |
|       | 2200 |

|      |      |      |      |           |
|------|------|------|------|-----------|
| 483  | 1648 | 253  | 864  | 8 LSX 060 |
| 725  | 2474 | 380  | 1296 | 8 LSX 080 |
| 966  | 3296 | 506  | 1728 | 8 LSX 100 |
| 1208 | 4122 | 633  | 2160 | 8 LSX 120 |
| 1450 | 4947 | 760  | 2592 | 8 LSX 140 |
| 1691 | 5770 | 886  | 3024 | 8 LSX 160 |
| 1933 | 6595 | 1013 | 3456 | 8 LSX 180 |
| 2174 | 7418 | 1139 | 3888 | 8 LSX 200 |
| 2416 | 8243 | 1266 | 4320 | 8 LSX 220 |

## LST (LOW SURFACE TEMPERATURE) VALVES & CONTROLS

MYSON offer a range of thermostatic valves designed to maximise the effectiveness of our range of Low Surface Temperature radiators. Two designs are available, the Close Coupled Kit which allows the case to be removed for cleaning without removing the TRV head, and the competitively priced Direct Fit Kit.

### DIRECT FIT TRV KIT

Suitable for TBOE connection only.

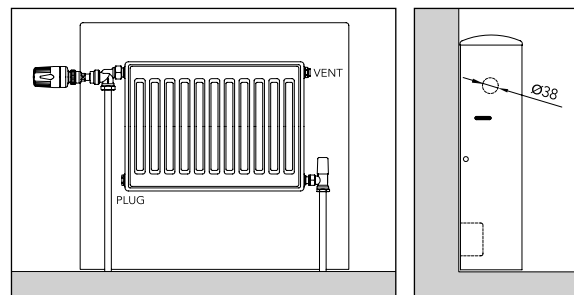
This kit allows a MYSON TRV body to be directly fitted to the radiator, with the thermostatic head projecting beyond the enclosure.



#### Direct Fit TRV Kit comprises:

- 1 Horizontal angle TRV body
- 1 TRV head
- 1 Extension adaptor
- 1 Plastic bush
- 1 MATCHMASTER lockshield valve

**Order Code:** DIRECTFIT



Direct Fit Kit

### CLOSE COUPLED TRV KIT

Suitable for TBOE or BOE connections.

This arrangement offers a choice of positions for both the valve body and sensor head.

The kit allows the thermal sensing head of a MYSON TRV to be mounted directly on the top left right hand side of the LST enclosure. The point of fitting has been half-sheared

and requires only to be knocked out to facilitate easy installation, becoming an integral part of the appliance.

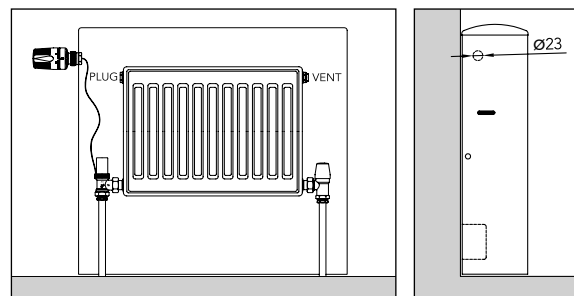
The valve body is fitted to the casing and is coupled to the sensing head by a flexible capillary extension lead to the radiator.



#### Close Coupled TRV Kit comprises:

- 1 TRV head & limit pins
- 1 1/2" 15mm angle body
- 1 LST capillary unit
- 1 Head locating body
- 1 1/2" 15mm FULLFLOW lockshield valve

**Order Code:** CCKTC



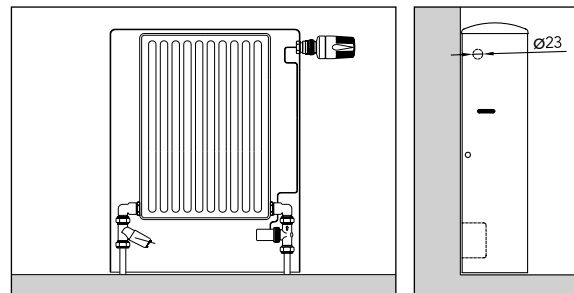
Close Coupled Kit



#### Close Coupled TRV Kit for 420mm comprises:

- 1 TRV head & limit pins
- 1 1/2" 15mm straight body
- 1 LST capillary unit
- 1 Head locating body
- 1 1/2" 15mm FULLFLOW straight lockshield valve
- 2 Integration elbows

**Order Code:** CCKTC420  
(must be ordered with 420mm wide radiators)



Close Coupled Kit for 420mm

Please see page 220 for more information.