



# Liberty

Victorian styled decorative cast iron column radiators



## Features and Benefits

- Designed for period properties and traditional furnishing styles
- Multiple configurations of 3 to 40 sections
- ½" bsp connection (BBOE) fittings supplied as standard (¾" and 1" also available)
- Delivered to site assembled in lengths up to 15 sections
- Supplied as standard in a primer that requires over painting (by others) or it can be fully factory painted by MHS to many RAL or BS colour finishes (additional costs apply)
- Full range of optional solid brass valves available
- Ten-year guarantee against manufacturing defects

**Models:** 510, 660, 760 and 954

**Outputs:** 168 – 6,040 Watts

**Maximum working pressure:** 6 bar (water tested to 7.8 bar)

**Heights:** 510 – 954mm

**Lengths:** 228 – 3,040mm

**Types:** Floor standing



# Liberty



The stunning Victoriana Liberty cast iron column radiator blends with the period setting while providing modern comfort heating.

For period properties and traditional furnishing styles, the Liberty cast iron column radiator from MHS Radiators is the perfect heat emitter. Its scrolled relief patterns and Victoriana looks transform the Liberty from humble radiator to stunning reproduction centrepiece. Where the period setting includes highly-prized panelling, the free-standing Liberty will avoid damage to the wall. The Liberty is supplied as standard in a primer that requires over painting (by others) or it can be fully factory painted by MHS to many RAL/BS colour finishes (additional costs apply)

It is perfect either for new heating systems or for replacing outdated or antique radiators with the minimum disruption to existing installations.

The Liberty is available in four heights of 510mm, 660mm, 760mm and 954mm. Assembled radiators can be delivered to site in lengths up to 15 sections. Further sections may be assembled on site for longer finished radiators.



Each radiator is supplied complete with fittings for 1/2" bsp connection (BBOE) as standard with the option for 3/4" or 1" with TBOE and TBSE connections if required.

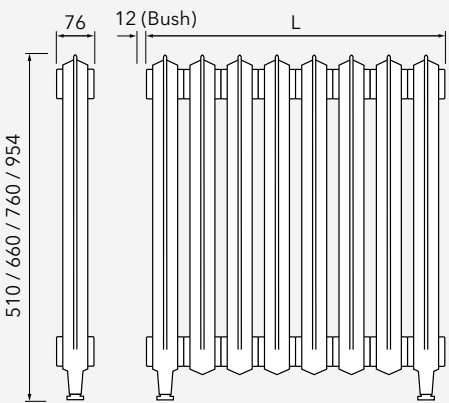
To complete the traditional styling, solid brass Chartwell or Kentwell radiator valves will finish your radiators off perfectly.

Liberty radiators have a maximum working pressure of 6 bar (water test = 7.8 bar max) and carry a 10 year guarantee against manufacturing defects.

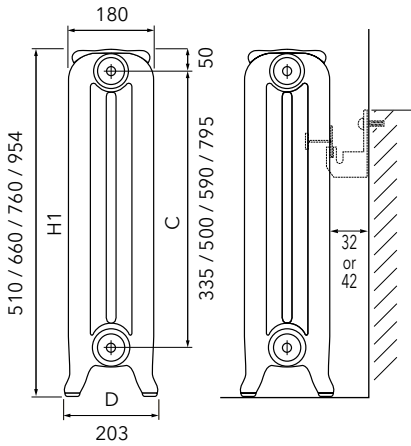
## Single Section Output/Dimensions

| Model                           |        | 510  | 660   | 760   | 954   |
|---------------------------------|--------|------|-------|-------|-------|
| Height - With Foot              | H1     | 510  | 660   | 760   | 954   |
| Centres                         | C      | 335  | 500   | 590   | 795   |
| Section Width                   | W      | 76   | 76    | 76    | 76    |
| Depth                           | D      | 203  | 203   | 203   | 203   |
| Water volume per section        | Lit    | 1.83 | 2.26  | 2.60  | 3.30  |
| Dry weight per section          | kg     | 8.70 | 10.80 | 11.00 | 13.50 |
| Output EN442 - Δt 50°C          | Watts  | 74   | 111   | 121   | 151   |
| BS EN442 per sect.              | Btu/hr | 252  | 378   | 403   | 515   |
| Output EN442 - Δt 55.5°C        | Watts  | 84   | 127   | 138   | 172   |
| BS EN442 per sect.              | Btu/hr | 286  | 433   | 472   | 586   |
| Output EN442 - Δt 60°C          | Watts  | 93   | 140   | 153   | 191   |
| BS EN442 per sect.              | Btu/hr | 317  | 479   | 523   | 652   |
| Max delivered assembled lengths |        | 15   | 15    | 15    | 15    |

Manufacturing tolerance of ±2mm should be allowed in all dimensions.



**Note** - When connecting bottom opposite ends 24mm must be added to 'L' dimension to allow for the reducing bushes. If connecting top/bottom same end then 12mm must be added to 'L' dimension plus valves.



## Multiple Section Outputs/Watts 75/65/20°C Δt 50 BS EN442

| Sections    | L - Length mm | Output 510 H | Output 660 H | Output 760 H | Output 954 H |
|-------------|---------------|--------------|--------------|--------------|--------------|
| 3 Section   | 228           | 222          | 333          | 363          | 453          |
| 4 Section   | 304           | 296          | 444          | 484          | 604          |
| 5 Section   | 380           | 370          | 555          | 605          | 755          |
| 6 Section   | 456           | 444          | 666          | 726          | 906          |
| 7 Section   | 532           | 518          | 777          | 847          | 1057         |
| 8 Section   | 608           | 592          | 888          | 968          | 1208         |
| 9 Section   | 684           | 666          | 999          | 1089         | 1359         |
| 10 Section  | 760           | 740          | 1110         | 1210         | 1510         |
| 11 Section  | 836           | 814          | 1221         | 1331         | 1661         |
| 12 Section  | 912           | 888          | 1332         | 1452         | 1812         |
| 13 Section  | 988           | 962          | 1443         | 1573         | 1963         |
| 14 Section  | 1064          | 1036         | 1554         | 1694         | 2114         |
| *15 Section | 1140          | 1110         | 1665         | 1815         | 2265         |
| 17 Section  | 1292          | 1258         | 1887         | 2057         | 2567         |
| 19 Section  | 1444          | 1406         | 2109         | 2299         | 2869         |
| 21 Section  | 1596          | 1554         | 2331         | 2541         | 3171         |

\*Maximum deliverable lengths, further lengths are possible by joining sections on site. Make-up tool is required. To convert Watts to Btus X 3.412.





CHART TWO

Due to the limitations of the printing process, finished product colour may vary from this publication. If you would like a colour swatch, please contact head office.

MHS Classic colour finishes

|                                                 |                                            |                                             |                                                |                                                 |                                            |
|-------------------------------------------------|--------------------------------------------|---------------------------------------------|------------------------------------------------|-------------------------------------------------|--------------------------------------------|
|                                                 |                                            |                                             |                                                |                                                 |                                            |
| <b>RAL 9016</b><br>Traffic White (semi-gloss)   | <b>RAL 9010</b><br>Warm White (semi-gloss) | <b>RAL 9001</b><br>Cream White (semi-gloss) | <b>RAL 1013</b><br>Pearl White (semi-gloss)    | <b>RAL 7035</b><br>Light Grey (semi-gloss)      | <b>RAL 7015</b><br>Slate Grey (semi-gloss) |
|                                                 |                                            |                                             |                                                |                                                 |                                            |
| <b>RAL 7016</b><br>Anthracite Grey (semi-gloss) | <b>RAL 7016</b><br>Anthracite Grey (matt)  | <b>RAL 3003</b><br>Flame Red (semi-gloss)   | <b>RAL 9007</b><br>Grey Aluminium (semi-gloss) | <b>RAL 9023</b><br>Pearl Dark Grey (semi-gloss) | <b>Black (matt)</b>                        |
|                                                 |                                            |                                             |                                                |                                                 |                                            |
| <b>Anthracite (matt)</b>                        | <b>Light Old Penny (matt)</b>              | <b>Dark Old Penny (matt)</b>                | <b>Natural Cast Iron (matt)</b>                | <b>Pewter (matt)</b>                            | <b>Antique Gold (matt)</b>                 |
|                                                 |                                            |                                             |                                                |                                                 |                                            |
| <b>Bronze (gloss)</b>                           | <b>Gun Metal (matt)</b>                    | <b>Beaten Brass (semi-gloss)</b>            |                                                |                                                 |                                            |

IMPORTANT NOTE:  
Do not powder coat this product.



COLOUR MATCHING

If you're looking for a colour other than those shown in our colour chart, we can finish your radiator to any RAL colour in gloss, semi-gloss or matt finish. We also offer a colour match to most designer paint brands. Colours outside of our colour chart carry a £50 ex VAT (£60 inc VAT) special mixing charge (per colour).

MHS Special effects finishes (Cast Iron only)

|                  |                     |                      |              |
|------------------|---------------------|----------------------|--------------|
|                  |                     |                      |              |
| <b>Stone</b>     | <b>Black Chrome</b> | <b>Chrome Effect</b> | <b>Brass</b> |
|                  |                     |                      |              |
| <b>Rose Gold</b> | <b>Corten</b>       | <b>Blue Chrome</b>   |              |

## Chartwell Valves

Chartwell valves are available in 15mm, 15mm TRV, 1/2"- 3/4" BSP manual

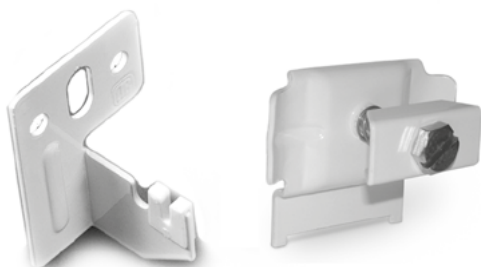


## Kentwell Valves

Available in 6 finishes.



## Bracket and Clamp



Note: For additional stability, it is recommended that a wall tie (available from MHS Radiators) is fitted to each radiator.

| $\Delta t$ | CF    |
|------------|-------|
| 60         | 1.267 |
| 59         | 1.24  |
| 58         | 1.213 |
| 57         | 1.186 |
| 56         | 1.159 |
| 55.5       | 1.145 |
| 55         | 1.132 |
| 54         | 1.105 |
| 53         | 1.079 |
| 52         | 1.052 |
| 51         | 1.026 |
| 50         | 1.000 |
| 45         | 0.872 |
| 40         | 0.748 |
| 35         | 0.629 |

### Correction Factor Table

The outputs shown within this brochure are based on BS EN442, 75-65-20°C operating conditions, giving a  $\Delta t$  of 50°C, for  $\Delta t$ 's other than this, a correction factor must be applied. This correction factor table assumes an averaged exponent of 1.30. If a more accurate exponent / correction factor is required, please contact MHS Radiators.

**Example:** Output required @ 82-71-21°C  $\Delta t$  55.5 the CF = 1.145, therefore multiply the listed output by the correction factor to give actual radiator output under these operating conditions.

**Water Treatment:** These products are for use on closed heating systems only; they are not suitable for installation on secondary HWS circuits. On completion of the installation the entire system **MUST** be thoroughly cleaned and flushed to remove debris/flux residues etc. If a chemical cleanser is used, it must be thoroughly flushed from the system. Following this, the system **MUST** be dosed with a good eminence water treatment to prevent corrosion. System design, flushing and dosing must be in accordance with BS 5449: 1990, BS EN 12828 & 12831: 2003 and BS 7593: 2006

**IMPORTANT:** Failure to observe these requirements will render the guarantee on the product void. Corrosion inhibitor must be used in accordance with the manufacturer's instructions and recommendations and should take into account the particular metals within the system.



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