



The VERTICAL is the ultimate space saving solution, with a traditional front panel available in a choice of four types, two heights and four lengths.

- The VERTICAL is suitable for narrow and tall wall spaces
- The VERTICAL type 10 comes without side panels








TYPE 10 & 22









**VERTICAL**

# VERTICAL

## General specification & technical information

-  **CERTIFICATION**  
Manufactured and tested to BS EN 442 & EN 442. Carries the CE & UKCA Mark. Produced under a quality management system - ISO 9001:2015, environmental management system - ISO 14001:2015 and Occupational health and safety management system - ISO 45001:2018.
-  **GUARANTEE**  
10 year guarantee from date of purchase against manufacturing defects.
-  **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 is available to order.
-  **SYSTEM**  
2 pipe pumped indirect domestic and commercial heating applications.

-  **CONNECTIONS**  
6 x 1/2" BSP.
-  **AIR VENTS**  
Air vent and plug packs are included in the packaging.
-  **OPERATING PRESSURES**  
Tested to a pressure of 8 bar.  
Working pressure of up to 6 bar.
-  **OPERATING TEMPERATURE**  
Maximum 100°C.
-  **DELIVERY**  
2 - 5 working days.  
Non-stocked items: 4 - 5 weeks.
-  **VALVES**  
Please see page 38.

For more general information, please see page 264.

### Weights & water contents per metre length

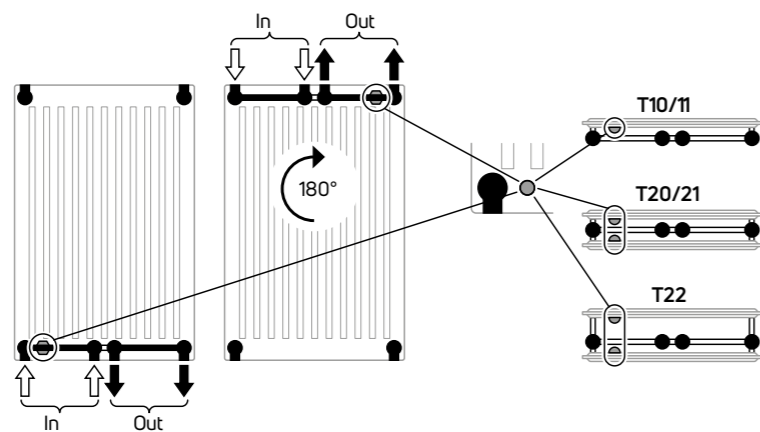
| Type | Nominal Height (mm) |                   |             |                   |
|------|---------------------|-------------------|-------------|-------------------|
|      | 1800                |                   | 1950        |                   |
|      | Weight (kg)         | Water Content (l) | Weight (kg) | Water Content (l) |
| 10   | 37.47               | 10.13             | 38.67       | 11.07             |
| 20   | 71.33               | 21.83             | 77.07       | 23.78             |
| 21   | 83.07               | 21.47             | 91.33       | 24.13             |
| 22   | 93.87               | 21.60             | 102.33      | 23.13             |

### n-Coefficients

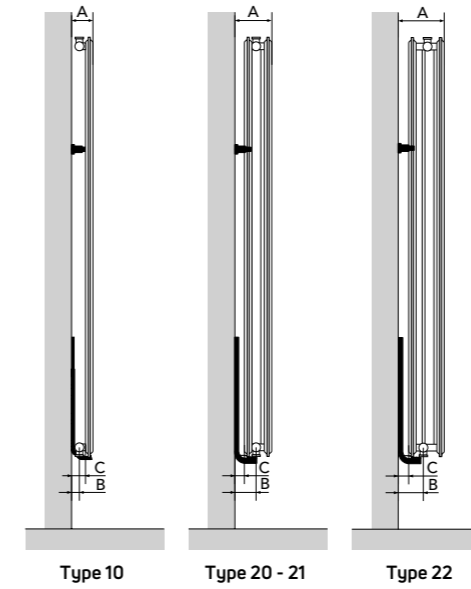
| Type | Nominal Height (mm) |        |
|------|---------------------|--------|
|      | 1800                | 1950   |
| 10   | 1.3246              | 1.3381 |
| 20   | 1.3094              | 1.3135 |
| 21   | 1.3384              | 1.3422 |
| 22   | 1.3566              | 1.3619 |

### Connection options

6 x 1/2" BSP (15/21)

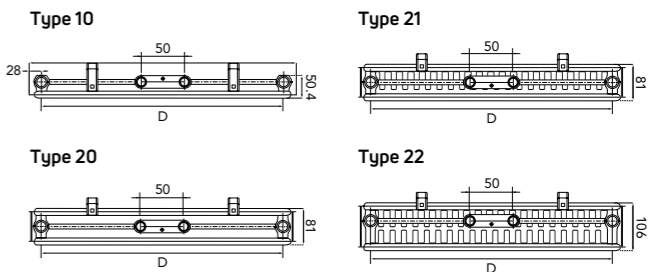


### Mounting positions & dimensions

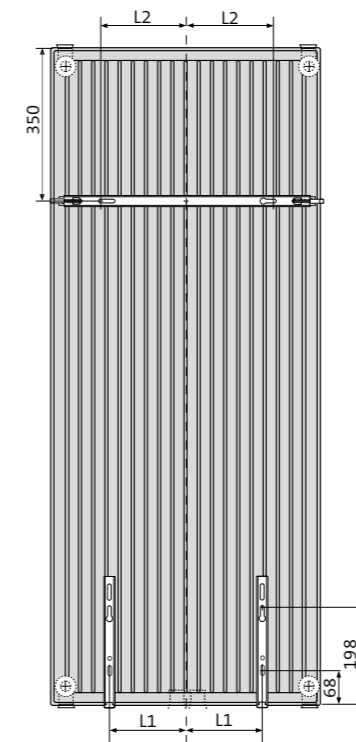


|        | Type |       |     | Length (mm) | D (mm) |
|--------|------|-------|-----|-------------|--------|
|        | 10   | 20-21 | 22  |             |        |
| A (mm) | 80   | 106   | 131 | 300         | 244    |
| B (mm) | 43   | 65    | 65  | 450         | 394    |
| C (mm) | 65   | 25    | 25  | 600         | 544    |
|        |      |       |     | 750         | 694    |

### Top View

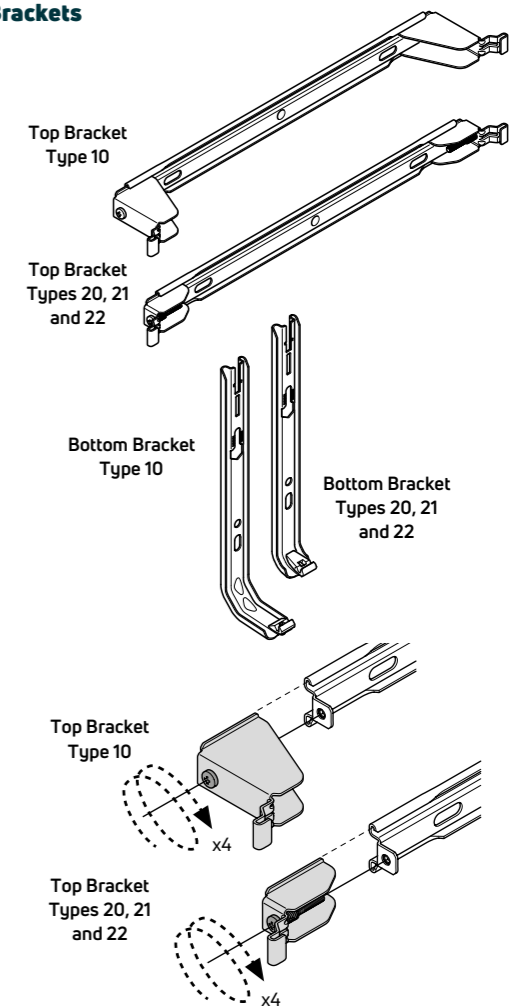


### Bracket positions & dimensions



| Length (mm) | L <sub>1</sub> | L <sub>2</sub> |
|-------------|----------------|----------------|
|             | (mm)           | (mm)           |
| 300         | 60             | 75             |
| 450         | 135            | 125            |
| 600         | 210            | 200            |
| 750         | 285            | 250            |

### Brackets



NB: All measurements are nominal.

# VERTICAL

## Heat outputs

Type 10



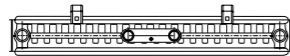
Type 20



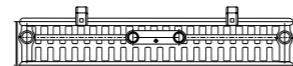
| Nominal Height | Nominal Length (mm) | Heat Outputs @ ΔT 50°C |       | Heat Outputs @ ΔT 30°C |       | Order Code   |
|----------------|---------------------|------------------------|-------|------------------------|-------|--------------|
|                |                     | Watts                  | Btu/h | Watts                  | Btu/h |              |
| 1800mm         | 300                 |                        |       |                        |       |              |
|                | 450                 | 765                    | 2611  | 389                    | 1328  | V 180 SP 45  |
|                | 600                 | 1020                   | 3481  | 518                    | 1768  | V 180 SP 60  |
|                | 750                 | 1275                   | 4352  | 648                    | 2211  | V 180 SP 75* |
| 1950mm         | 300                 |                        |       |                        |       |              |
|                | 450                 | 819                    | 2795  | 413                    | 1410  | V 195 SP 45  |
|                | 600                 | 1092                   | 3727  | 551                    | 1881  | V 195 SP 60* |
|                | 750                 | 1365                   | 4659  | 689                    | 2351  | V 195 SP 75* |

| Nominal Height | Nominal Length (mm) | Heat Outputs @ ΔT 50°C |       | Heat Outputs @ ΔT 30°C |       | Order Code   |
|----------------|---------------------|------------------------|-------|------------------------|-------|--------------|
|                |                     | Watts                  | Btu/h | Watts                  | Btu/h |              |
| 1800mm         | 300                 | 819                    | 2795  | 420                    | 1433  | V 180 DP 30  |
|                | 450                 | 1229                   | 4193  | 629                    | 2146  | V 180 DP 45  |
|                | 600                 | 1638                   | 5590  | 839                    | 2862  | V 180 DP 60  |
|                | 750                 | 2048                   | 6988  | 1049                   | 3579  | V 180 DP 75* |
| 1950mm         | 300                 | 877                    | 2993  | 448                    | 1529  | V 195 DP 30* |
|                | 450                 | 1315                   | 4488  | 672                    | 2293  | V 195 DP 45* |
|                | 600                 | 1753                   | 5984  | 896                    | 3058  | V 195 DP 60* |
|                | 750                 | 2192                   | 7480  | 1120                   | 3822  | V 195 DP 75* |

Type 21



Type 22

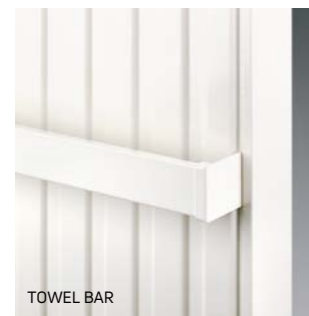


| Nominal Height | Nominal Length (mm) | Heat Outputs @ ΔT 50°C |       | Heat Outputs @ ΔT 30°C |       | Order Code    |
|----------------|---------------------|------------------------|-------|------------------------|-------|---------------|
|                |                     | Watts                  | Btu/h | Watts                  | Btu/h |               |
| 1800mm         | 300                 | 963                    | 3287  | 486                    | 1659  | V 180 DPX 30* |
|                | 450                 | 1445                   | 4930  | 729                    | 2488  | V 180 DPX 45  |
|                | 600                 | 1926                   | 6573  | 972                    | 3317  | V 180 DPX 60  |
|                | 750                 | 2408                   | 8217  | 1215                   | 4146  | V 180 DPX 75* |
| 1950mm         | 300                 | 1020                   | 3481  | 514                    | 1754  | V 195 DPX 30* |
|                | 450                 | 1530                   | 5222  | 771                    | 2631  | V 195 DPX 45* |
|                | 600                 | 2040                   | 6963  | 1028                   | 3508  | V 195 DPX 60* |
|                | 750                 | 2550                   | 8703  | 1285                   | 4385  | V 195 DPX 75* |

| Nominal Height | Nominal Length (mm) | Heat Outputs @ ΔT 50°C |       | Heat Outputs @ ΔT 30°C |       | Order Code   |
|----------------|---------------------|------------------------|-------|------------------------|-------|--------------|
|                |                     | Watts                  | Btu/h | Watts                  | Btu/h |              |
| 1800mm         | 300                 | 1132                   | 3864  | 566                    | 1931  | V 180 DC 30  |
|                | 450                 | 1698                   | 5796  | 849                    | 2896  | V 180 DC 45  |
|                | 600                 | 2264                   | 7728  | 1132                   | 3862  | V 180 DC 60  |
|                | 750                 | 2831                   | 9660  | 1415                   | 4827  | V 180 DC 75  |
| 1950mm         | 300                 | 1192                   | 4068  | 594                    | 2027  | V 195 DC 30* |
|                | 450                 | 1788                   | 6102  | 892                    | 3044  | V 195 DC 45  |
|                | 600                 | 2384                   | 8136  | 1189                   | 4057  | V 195 DC 60  |
|                | 750                 | 2980                   | 10170 | 1486                   | 5071  | V 195 DC 75  |

\*Non-stock - made to order only.

## Accessories



TOWEL BAR

| Product   | Finish | Order Code |
|---|--------|------------|
| <b>VALVE SETS (Includes a nut &amp; olive pack)</b> |        |            |
| Two-pipe Valve Set (Straight)**                     | White  | VSWHST     |
| Two-pipe Valve Set (Straight)**                     | Chrome | VSCHST     |
| Two-pipe Valve Set (Angle)**                        | White  | VSWHAN     |
| Two-pipe Valve Set (Angle)**                        | Chrome | VSCHAN     |
| <b>TOWEL BARS</b>                                   |        |            |
| 300mm   | White  | VERTBAR300 |
| 450mm   | White  | VERTBAR450 |
| 600mm   | White  | VERTBAR600 |
| 750mm   | White  | VERTBAR750 |



VSWHST



VSCHST



VSWHAN



VSCHAN

\*\*Not to be used for top connection.

