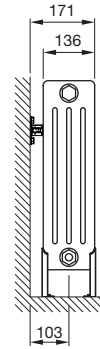
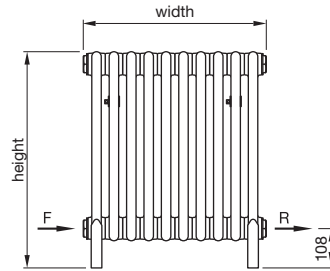
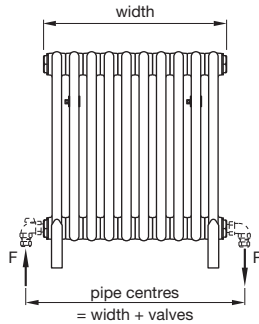


# Zehnder Charleston

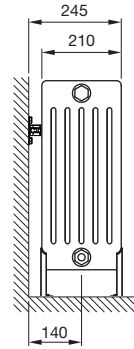
with welded-on-feet

always the  
best climate

**zehnder**



4 column



6 column

All dimensions shown are in millimetres

Test pressure: **15 BAR**  
 Max working pressure: **10 BAR**  
 Max working temperature: **110° C**  
 All steel construction: **dia 25mm tubes**  
 Connections: **½ inch BSP btm opp end tapings**

**Not suitable for use on domestic hot water system**

Heat output determined in accordance with EN 442

Test Laboratory: WSP-LAB, Test Lab Registration No: 1428

| Model     | Height<br>± 2mm | Width<br>± 1.5% | Finish  | Output<br>ΔT=50K |      | Output<br>ΔT=30K |      | n    | Weight<br>kg | Water<br>Content<br>litres |
|-----------|-----------------|-----------------|---------|------------------|------|------------------|------|------|--------------|----------------------------|
|           |                 |                 |         | Watts            | Btu  | Watts            | Btu  |      |              |                            |
| 4040-14-F | 475             | 670             | painted | 769              | 2624 | 401              | 1368 | 1.28 | 17.8         | 12.6                       |
| 4040-18-F | 475             | 854             | painted | 989              | 3374 | 516              | 1761 | 1.28 | 22.4         | 16.2                       |
| 4040-22-F | 475             | 1038            | painted | 1209             | 4125 | 630              | 2150 | 1.28 | 27.1         | 19.8                       |
| 4040-26-F | 475             | 1222            | painted | 1429             | 4876 | 745              | 2542 | 1.28 | 31.7         | 23.4                       |
| 4050-10-F | 575             | 486             | painted | 676              | 2307 | 353              | 1204 | 1.27 | 15.7         | 10.0                       |
| 4050-14-F | 575             | 670             | painted | 946              | 3228 | 494              | 1686 | 1.27 | 21.4         | 14.0                       |
| 4050-18-F | 575             | 854             | painted | 1217             | 4152 | 635              | 2167 | 1.27 | 27.0         | 18.0                       |
| 4050-22-F | 575             | 1038            | painted | 1487             | 5074 | 777              | 2651 | 1.27 | 32.7         | 22.0                       |
| 4050-26-F | 575             | 1222            | painted | 1757             | 5995 | 918              | 3132 | 1.27 | 38.4         | 26.0                       |
| 4050-28-F | 575             | 1314            | painted | 1893             | 6459 | 988              | 3371 | 1.27 | 41.2         | 28.0                       |
| 4060-10-F | 675             | 486             | painted | 798              | 2723 | 418              | 1426 | 1.27 | 18.3         | 12.0                       |
| 4060-14-F | 675             | 670             | painted | 1117             | 3811 | 585              | 1996 | 1.27 | 25.0         | 16.8                       |
| 4060-18-F | 675             | 854             | painted | 1437             | 4903 | 752              | 2566 | 1.27 | 31.7         | 21.6                       |
| 4060-22-F | 675             | 1038            | painted | 1756             | 5991 | 919              | 3136 | 1.27 | 38.4         | 26.4                       |
| 4060-26-F | 675             | 1222            | painted | 2075             | 7080 | 1086             | 3705 | 1.27 | 45.1         | 31.2                       |
| 4060-28-F | 675             | 1314            | painted | 2235             | 7626 | 1170             | 3992 | 1.27 | 48.4         | 33.6                       |
| 6040-30-F | 475             | 1406            | painted | 2415             | 8240 | 1259             | 4296 | 1.28 | 55.3         | 39.0                       |

Issue 1.0



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## Tools & Material Required

Wall plugs - 10mm  
Screws - 7mm diameter x 60mm length  
Suitable valves  
PTFE tape  
Silicone thread sealant  
Tape measure  
Allen key - 13mm & 12mm (when installing Zehnder valves)  
Spanner - 13mm & 14mm  
Electric drill  
Masonry drill bit - 10mm diameter  
Spirit level

| Key | Component                         | Qty |
|-----|-----------------------------------|-----|
| A   | Air Vent - 1/2" (factory fitted)  | 1   |
| B   | Wall Plug*                        | 4   |
| C   | Bracket                           | 4   |
| D   | Screw - Hex Head, 7mm dia x 60mm* | 4   |
| E   | Washer*                           | 4   |
| F   | Screw*                            | 2   |
| G   | Hexagonal Rod - 5mm x 237mm       | 1   |

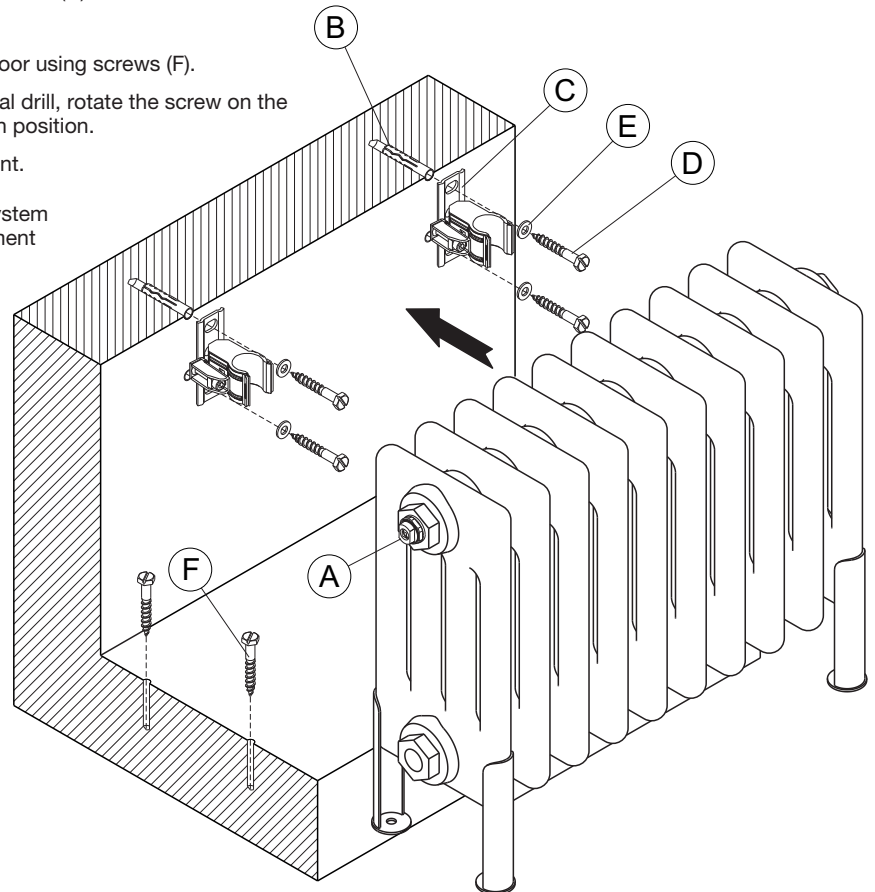
\* not supplied

## Assembly Instructions

Sufficient PTFE tape must be applied to valve-tail threads prior to their installation.  
Silicone thread sealant should be applied to all threaded components manufactured with 'O-rings'.

- Fit valve tails, using correct size Allen key.
- Accurately mark out bracket holes on wall.
- Drill 10mm diameter holes in wall to a minimum depth of 65mm and insert wall plugs (B).
- Attach brackets (C) to wall with screws (D) & washers (E) as shown and level.
- Place the radiator in position with the tubes loosely in brackets (C).
- Remove radiator and drill holes in floor.
- Reposition radiator with tubes in brackets (C) and fix to floor using screws (F).
- Using the hexagonal 5mm x 237mm rod (G) in an electrical drill, rotate the screw on the brackets counter-clockwise to clamp the radiator tubes in position.
- Plumb radiator to heating circuit with flow opposite air vent.

This radiator should be installed onto a central heating system that has been cleaned/flushed and contains water treatment and inhibitors in accordance with BS7593.



Issue 1.0