

ESBE T3 PLUS Pump Control Set

Underfloor heating with electronic, high flow control for light commercial applications



Standard Model with ESBE Series VRG Rotary Valve



BMS Model with ESBE Series ARA Actuator



Self-acting Model with ESBE Series CRC/CRA Controller

Product Information

The ESBE T3 Plus electronic three-port pump set has the following features:

- Compatible with BMS control
- Self-acting temperature control
- Weather compensation
- 'A' rated Grundfos pump
- Integrated check valves for easy filling
- Temperature gauge
- Assembled in the UK: pre-tested, packaged and ready for instant installation
- 2 Year warranty
- Fully reversible (Left or Right sided manifold)
- Available in 200mm, 210mm and 225mm manifold connection centers

Specification

Kv: 4 (155 – 238 m² / 15.5 – 24 kW*)

Kv: 6.3 (165 – 280 m² / 16.5 – 28 kW*)

Application: Light commercial systems

Control: BMS / Self Acting

Control type:

- 3-Point (power open/power closed)
- Modulating (proportional)
- Constant temperature (CRA)
- Weather compensation (CRC)

Max temperature range:

Continuously = 110°C / Temporarily = 130°C

Maximum supply pressure: 10 Bar

Optional extras

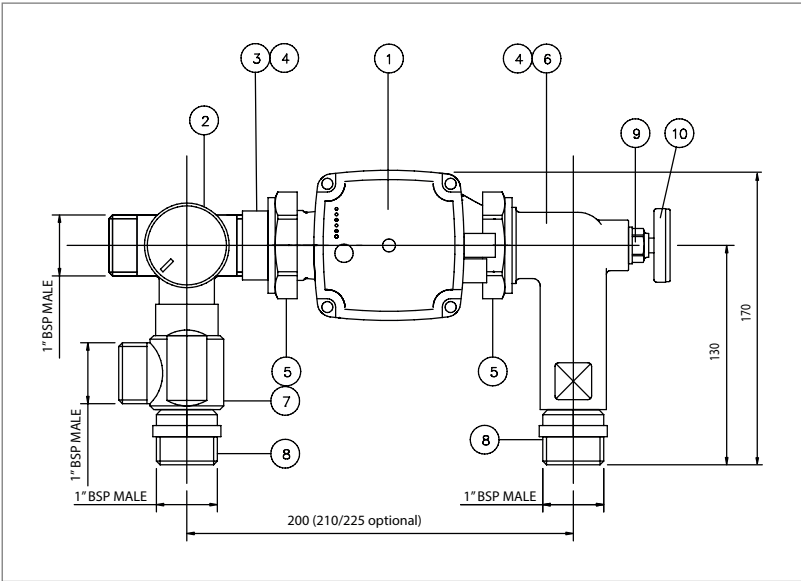
ESBE ARA600 rotary actuator for BMS connection

ESBE CRC/CRA self-acting temperature controller

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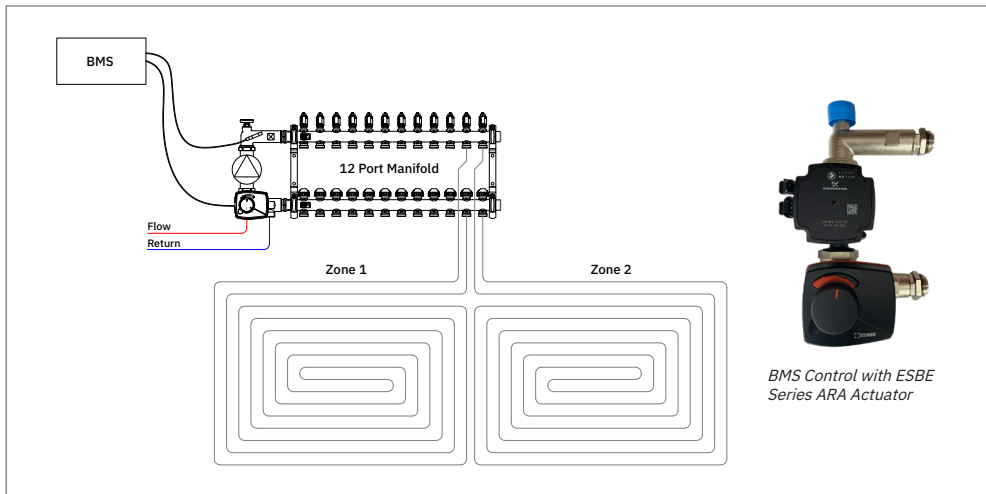


Dimensions

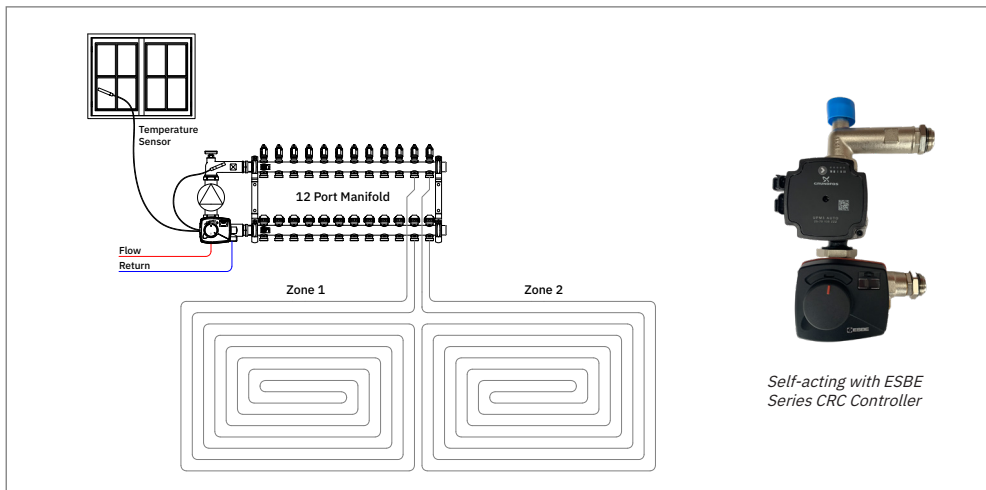


| Specification | | |
|---------------|------------------------------|---|
| 1 | Grundfos UPM3 Pump | 1 |
| 2 | VRG132 Three Way Valve | 1 |
| 3 | 5mm Screwed Flange E1000-03B | 1 |
| 4 | 2mm Rubber Washer | 2 |
| 5 | 1 1/2" Rapid Connection Nut | 2 |
| 6 | Elbow Output | 1 |
| 7 | Primary Return T Piece | 1 |
| 8 | 1" BSP Male Adaptor | 2 |
| 9 | 3/8" Pocket Insert | 1 |
| 10 | Temperature Gauge | 1 |

Typical Application with Building Management System Control



Typical Application with Self-acting Temperature Controller and Weather Compensation



- *Sizing based on the following:
- 100 W/m² heat loss
 - 12 equal UFH circuits with pipe at 200mm c/c
 - Pumps with ΔPc curve (recommended for UFH)
 - PE-Xb pipe with 2mm wall and 0.007μm surface roughness
 - 50deg flow, 10°C dT, and water properties from CIBSE Guide C
 - Typical 12-port manifold with ball valves, integral balancing and shut-off valves