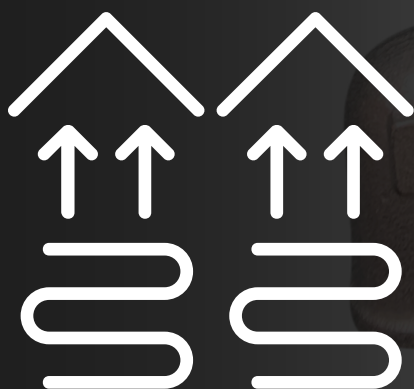


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## LITTLE BOOK OF PUMP PACKS



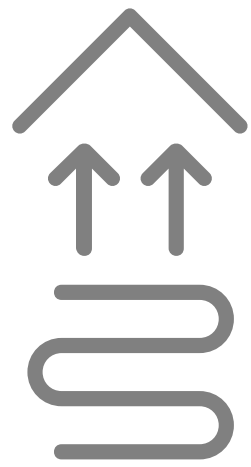
## UNDERFLOOR HEATING (UFH) CONTROL PACK GUIDE



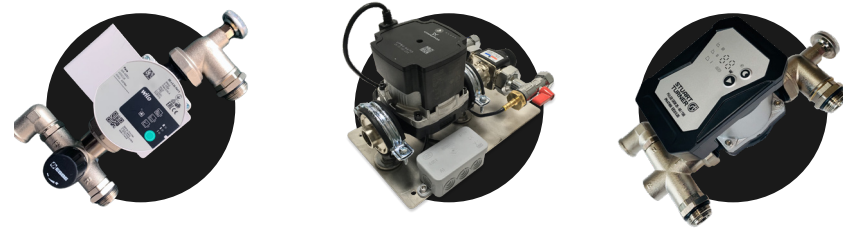
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CONTROLLED BY ESBE - BUILT BY ESSCO



# Underfloor Heating (UFH) Control Pack Guide



Essco control packs fit directly onto any UFH manifold and manage the temperature and flow of water around the system.

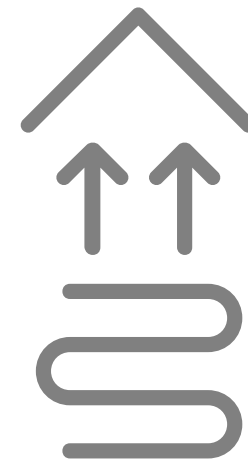
## Key Features

- Controlled by ESBE, meaning robust Swedish valve design with energy efficiency as standard (T4 and SL models).
- Choice of 'A' rated Grundfos, Wilo or Stuart Turner pump.
- Universal connections to suit all manifolds.
- T4 model fully complies with BS1264 when force screed drying is required, making installation and compliance hassle-free.
- Supplied fully tested and plug-and-play for fast installation and operation.
- Compact design, suitable for tight spaces and provides a neat installation.
- Manufactured in Europe and assembled in the UK by Essco, meaning quality and reliability is fully assured.
- Competitively priced to provide excellent value for money.
- Labour costs and installation time can be reduced using pump packs.
- Bespoke packages are available to suit project requirements.

Built by ESSCO using quality components



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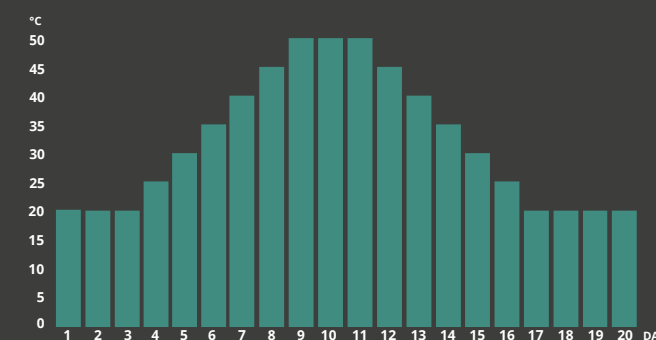
# Our Control Pack Range

Built in-house, packs are supplied fully tested, ready for fast installation and operation.

Control Pack Range	Page
ESBE T4 with thermostatic mixing valve	5
ESBE SL Single-loop with thermostatic mixing valve	6
H4 For heat pumps and low temperature systems	7
ESBE T3 with electronic, high flow control for light commercial applications	8
Pump set accessories	9

## Screed Floor Commissioning

The Essco T4 UFH pump pack features a unique temperature range of 20-55°C and fully complies with BS1264 when force screed drying is required.



The graph above provides an example of the commissioning process to force dry a floor under BS1264 with an ambient floor temperature of 20°C. If the ambient temperature is lower, extra days will be required. Increments of no more than 5°C per day should be made to increase the temperature using the mixing valve on the manifold. The floor should be cooled prior to floor coverings being installed and a humidity test taken to ensure that the humidity is around 75 RH.



For further information,  
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01489 779 068 or  
sales@esscogroup.co.uk

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# ESBE T4 Pump Control Set

Underfloor heating with thermostatic mixing valve

### Product Information

The ESBE compact T4 thermostatic 4 port pump set, comes complete with:

- 20°C - 55°C temperature range suited for force screed drying in accordance with (BS1264)
- 'A' rated Wilo, Grundfos or Stuart Turner 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)
- Side or bottom entry connections
- Available in 200mm, 210mm and 225mm manifold connection centers

### Specification

Kv: 3.4Kv (Up to 220sqm / 18kW)  
Temperature range: 20°C - 55°C  
Max temperature range:  
Continuously = 95°C / Temporarily = 100°C  
Maximum supply pressure: 10 Bar

### Optional extras

Primary isolation valves  
Safety temperature switch  
Manifold isolation valves  
Compression fittings

### Connections

Primary connections: 3/4" BSPF  
Manifold connections: 1" BSPM



# ESBE SL Pump Control Set

Single-loop underfloor heating with thermostatic mixing valve

### Product Information

The ESBE SL thermostatic single-loop pump set comes complete with:

- 'A' rated Wilo, Grundfos or Stuart Turner pump
- Assembled in the UK: pre-tested, packaged and ready for instant installation
- Wall mounting plate as standard
- Fitted temperature switch (40°C standard)
- In-built primary isolation valves
- ESBE 35-60 UFH thermostatic mixing valve
- In-built bypass
- Pre-wired pump terminal box
- 2 Year warranty

### Specification

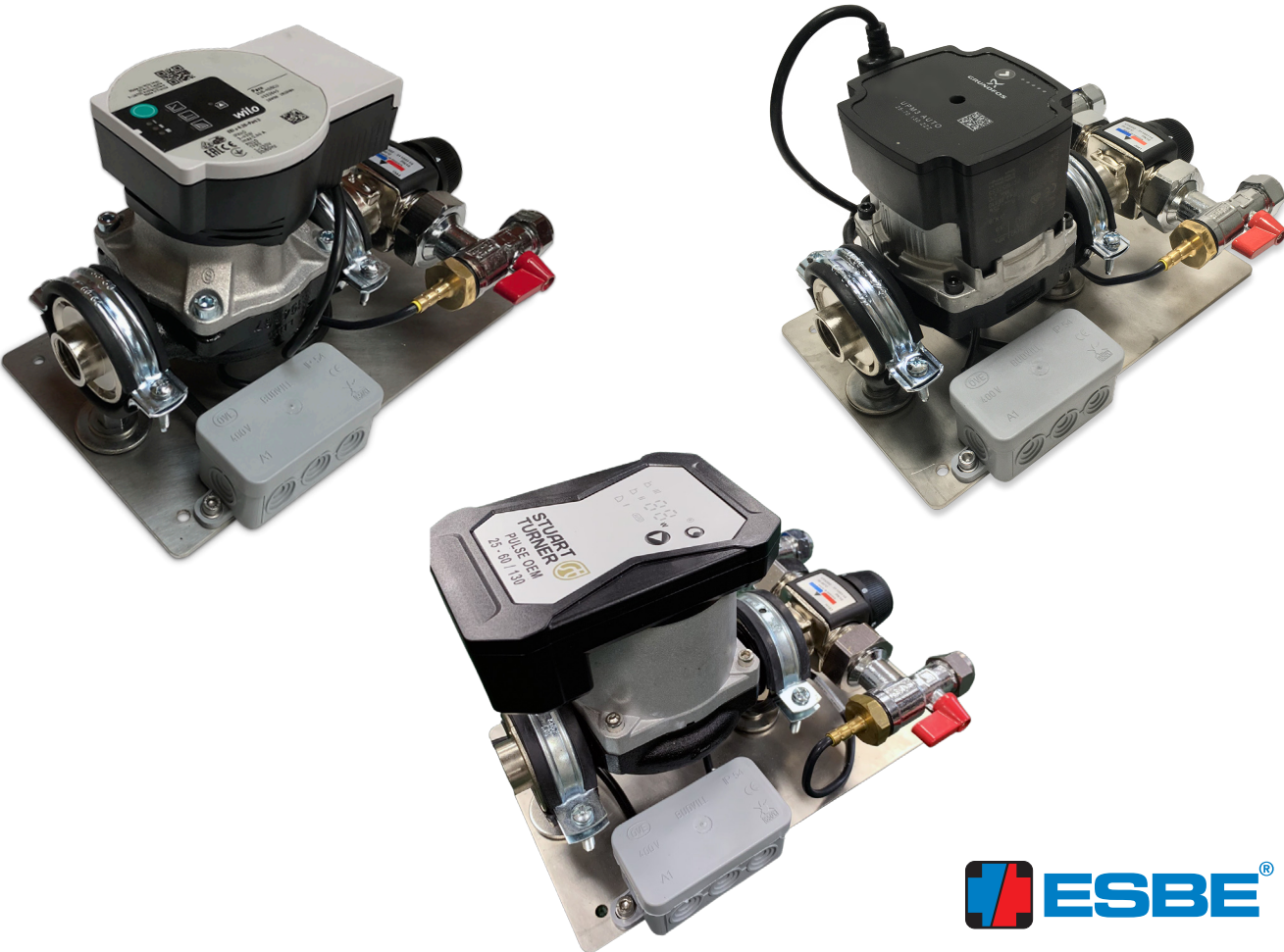
Kv: 1.6 (Up to 90sqm / 5kW)  
Temperature range: 35°C - 60°C  
Max temperature range:  
Continuously = 95°C / Temporarily = 100°C  
Maximum supply pressure: 10 Bar

### Optional extras

Eurocone connection fittings

### Connections

Primary connections: 15mm CPF  
Secondary outlet: 1/2" BSPF





# H4 Pump Control Set

For heat pumps and low temperature systems

## Product Information

The compact H4 4-port pump set, comes complete with:

- In-built 4-way deflector plate
- ‘A’ rated Wilo, Grundfos or Stuart Turner 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)
- Side or bottom entry connections
- Available in 200mm, 210mm and 225mm manifold connection centers

## Specification

Output: Up to 250sqm / 20kW  
Max temperature range:  
Continuously = 95°C / Temporarily = 100°C  
Maximum supply pressure: 10 Bar

## Optional extras

Primary isolation valves  
Safety temperature switch  
Manifold isolation valves  
Compression fittings

## Connections

Primary connections: 3/4” BSPF  
Manifold connections: 1” BSPM

# ESBE T3 PLUS Pump Control Set

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

## 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 Wilo, Grundfos or Stuart Turner 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 m<sup>2</sup>/ 15.5 – 24 kW\*)  
Kv: 6.3 (165 – 280 m<sup>2</sup>/ 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

## Connections

Primary connections: 1” BSPM  
Manifold connections: 1” BSPM



# Pump Set Accessories

## Primary isolation valves



3/4" BSPF, 22mm & 28mm - suitable for use with T4 & H4 pump sets.

## Temperature Switch



Available in 40°C, 45°C, 50°C & 55°C - suitable for use with T4, SL and H4 pump sets.

## ESBE ARA600 Actuator



ESBE ARA600 rotary actuator for BMS connection. Suitable for use with T3 PLUS pump sets.

## Manifold isolation valves



Suitable for use with T4 & H4 pump sets.

## Compression fittings



22 and 28mm - suitable for use with T4 & H4 pump sets.

## ESBE CRC/CRA Temperature Controller



ESBE CRC/CRA self-acting temperature controller. Suitable for use with T3 PLUS pump sets.

# Pump Set Accessories

## 'A' Rated circulating pump:

WILO 25/6-SCU Pump



Grundfos UPM3 Auto Pump



Stuart Turner 25/6 Pump



Essco Controls has been assessed and granted approval under terms of the scheme for Quality Management Systems to ISO 9001:2015.





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