

Trench Heating



APPLICATIONS

Floor Trench Heating from Turnbull & Scott is ideal for combating cold down draughts and condensation often prevalent in full and half height glazed areas and provides an effective heat source where wall space is limited.

The systems offer robust quality, minimal maintenance and discreet elegant style. All installations are custom-designed so that your stylish heating solution is made-to-measure. Our prototype service is available to clients, specifiers and contractors as standard.

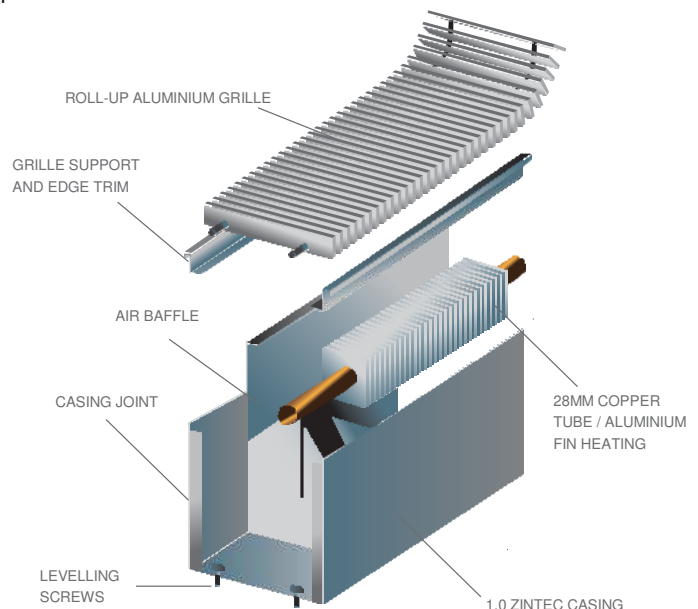
The systems are offered as either Low Pressure Hot Water (LPHW) or electric options.

BENEFITS

- Effective against downdraughts and condensation in glazed areas
- Unobtrusive appearance – no wall space required
- Custom designed for each installation to ensure wide range of outputs
- Aluminium fin with superior tube to fin bond ensures high performance
- Robust construction for long life
- Low maintenance
- Grilles are simple to fix, easy to join and very robust.
- Low installation costs
- Easily levelled
- Technical support to ensure correct specification

FEATURES

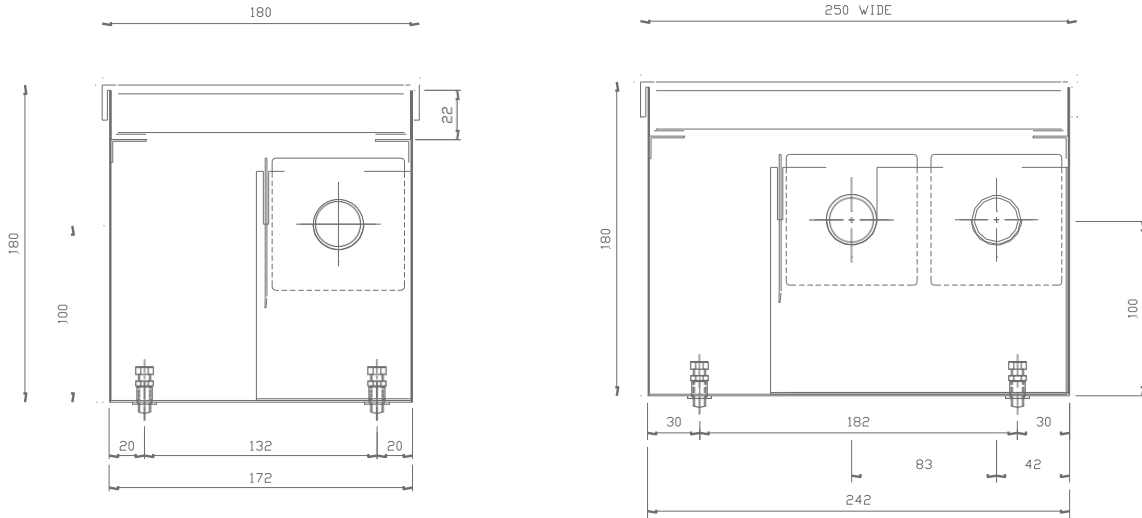
- Available in LPHW with 28mm diameter tubing
- Available in last electric to order (please call for advice)
- Supplied in standard 2.5m lengths
- Grille finish is silver anodised or may be powder coated to any colour
- Suitable for screeded or raised access floors
- Manufactured in the UK
- Installation and maintenance services available
- Roll-up, linear bar and architectural cast iron grilles available
- Mitred and curved units available



Order Hotline: 01450 372103

HIDDEN HEAT THAT'S DISCREET AND EFFECTIVE

Floor trench heating is a discreet and effective solution using copper/aluminium finned tubing to amplify the heated radiant surface area for maximum heat output. Internal surfaces are insulated and coated with heat reflective finish to enhance natural convection and airflow. Ideal for low level glazing, or environments where surface mounted radiators are too obtrusive or unsightly.



LPHW THERMAL OUTPUT – WATTS/METRE

MEAN WATER TEMPERATURE(°C)

	40°	45°	50°	55°	60°	65°	70°	75°	80°	85°	90°	Price
TRENCH 180	121	166	211	262	313	369	425	486	546	611	675	£620
TRENCH 250	179	247	315	393	470	556	641	733	825	924	1023	£710

(Entering air temperature 20°C -normal room temperature)

WATER VELOCITY CORRECTION FACTOR

The thermal output figures are based on a velocity of 1.0 m/s. For other velocities, the following factors should be applied:

VELOCITY (m/s)	0.05	0.10	0.20	0.30	0.40	0.50	0.60	0.80	1.00	1.50	2.00
CORRECTION FACTOR	0.86	0.91	0.91	0.95	0.96	0.97	0.98	0.99	1.00	1.02	1.03

AMBIENT TEMPERATURE CORRECTION

The thermal output figures are based on an ambient temperature of 20°C and may be corrected for other ambient temperatures in the range of 0°C to 40°C by multiplying by the factor "R".

$$\text{where } R = \frac{T - T_a}{T - 20} \quad \begin{array}{l} T = \text{Mean temperature of heating medium } ^\circ\text{C} \\ T_a = \text{Ambient Temperature} \end{array}$$

Order Faxline: 01450377800