

Thermolier Steam-fed Unit Heater



APPLICATIONS

Thermolier Unit Heaters are part of a fan driven hot air heating system which utilises heat exchange technology to keep cost at bay. Units are available in horizontal and downflow configurations for use with steam or hot water. Front louvers and careful siting of the units gives exceptionally fast warm up and practical heat control in large spaces and, the fact that the units require little or no maintenance gives a clear indication of their ruggedness and efficiency.

High ceiling locations inevitably benefit from Thermolier as part of an effective heating solution. Easy to install and control, features include improved air circulation, moisture resistance and no need for wall space.

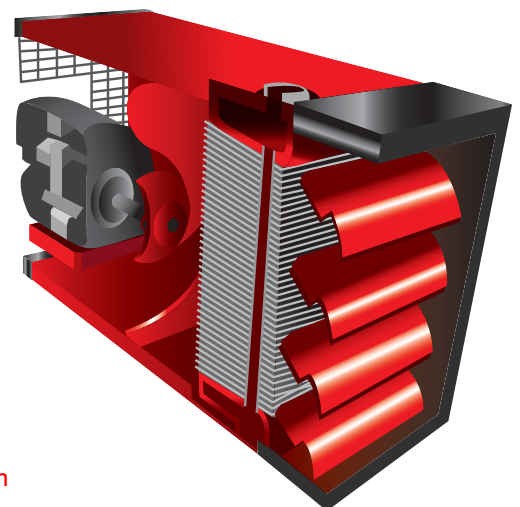
Ducting can also be connected to the rear of the unit to draw fresh air from outside the building or to the front for distribution through a ceiling void or partition to the working area. The Thermolier Design Team will design a Thermolier Installation to suit customers individual requirements. Turnbull & Scott also offer a full installation package including boiler house design if required.

FEATURES

- Provides high output and quick pre-heating
- Low installation costs
- Simple zone control
- Neat unobtrusive appearance in Red powder coated finish to RAL 3022
- Compact design
- ATEX Rated Motors available upon request

DESIGN AND INSTALLATION

The Thermolier Design Team will design a Thermolier Installation to suit every customers' individual requirements. Turnbull & Scott also offers a full installation package including boiler house design if required.



Control Options available on page 28

BENEFITS

- Three year guarantee
- Installation and design service ensures correct selection
- Thick wall copper tubes which provide longer life
- Superior tube to fin bond ensures high performance
- Ferruled tube to header joint uses thermal expansion to ensure a tight joint
- Boiler plate header channels eliminate warping or damage when piping up
- Variety of gill spacing allows greater selection of leaving air temperatures
- Deep blade propeller type fan dynamically balanced quiet and efficient operation
- Totally enclosed B.S motors used with 'sealed for life' ball bearings require no maintenance
- Two coat stove enamelled zintec casing resists corrosion

TECHNICAL DATA

The casing is constructed from 1mm thick zinc coated steel to BS.1449. The body and louvers are stove enamel finished in post office red with the louvre box and fan guard black. Overall Thermolier dimensions/weight and inlet connections vary, dependent upon customer requirements.

The heater battery is constructed using 15mm outside diameter specifically made thick walled copper tubes to BS.2870 grade C106. The gills are 0.35mm thick aluminium to BS.1470. The boiler plate header channels are 8mm thick steel to BS.1501-161-430B. Eyebolts are secured to lugs welded directly to the headers. The battery is hydraulically tested to 25 bar. Motor and fan assembly is a continuously rated, totally enclosed air over motor type with IP44 protection against the penetration of dust and moisture into the windings.

CAT No.	Fan Input / Consump (V/Hz & A)	RPM	Output (kW)	Mounting Height Horizontal (m)	Dimensions (WxHxD) (mm)	Air Throw (m)	Volume (m3/sec)	Velocity (m/s)	Weight (kg)	Trade Price
123L-S-H-3	415/50 0.8A	930	12.7	2.4-3.7	345x345x565	6	0.19	2	35	£755
223L-S-H-3	415/50 0.8A	930	22.2	2.7-4.3	425x425x565	9	0.32	2.5	40	£870
323L-S-H-3	415/50 0.8A	930	37.3	3.3-4.0	500x500x565	12	0.58	3	50	£980
423N-S-H-3	415/50 0.8A	930	63.9	4.3-5.5	575x575x565	15	1.04	4	70	£1,190
523N-S-H-3	415/50 0.8A	930	88.2	5.0-6.0	650x650x565	18.5	1.495	4.5	75	£1,380
123L-S-H-1	230/50 0.8A	930	12.7	2.4-3.7	345x345x565	6	0.19	2	35	£760
223L-S-H-1	230/50 0.8A	930	22.2	2.7-4.3	425x425x565	9	0.32	2.5	40	£875
323L-S-H-1	230/50 0.8A	930	37.3	3.3-4.0	500x500x565	12	0.58	3	50	£985
423N-S-H-1	230/50 1.0A	930	63.9	4.3-5.5	575x575x565	15	1.04	4	70	£1,195
523N-S-H-1	230/50 1.3A	930	88.2	5.0-6.0	650x650x565	18.5	1.495	4.5	75	£1,385

Please note output based on 3 bar steam pressure and 20 degrees ambient temperature.

All units supplied as horizontal as standard, if you require downflow (vertical) please contact our sales team.