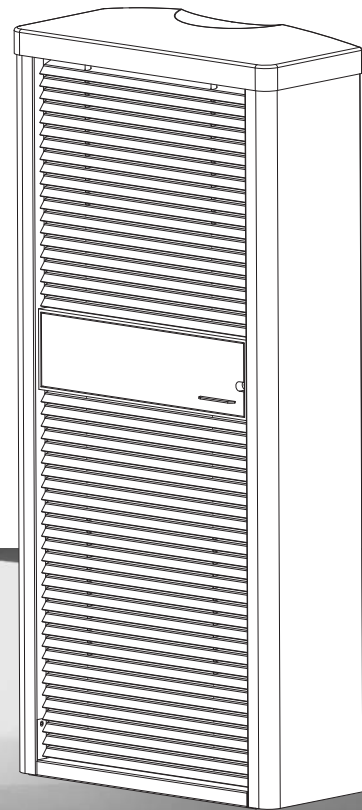


Installation, Operating, Maintenance
and After Sales Manual.

SLIM-LINE II Fan Convector



heatingthrough**innovation.**

Product Serial Number:

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Please leave this manual with the end user.

Part Number: 1370059

Issue 1

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1.0 General Information

- This SLIM-LINE II fan convector is designed for wall mounted installation with a minimum installation height of 125mm to the underside of the unit.
- The SLIM-LINE II should only be used on closed circulation, two pipe, pump assisted central heating systems.
- The SLIM-LINE II fan convector can be used on heat pump systems.
- Before proceeding with the installation, the heating system

design must be considered and the unit correctly sized to meet the heat loss requirements of the room at normal fan speed.

- The SLIM-LINE II is supplied with integral controls including room thermostat, fan speed selector and summer/winter switch. In heating mode a low limit thermostat prevents the fan from operating if the heating system water temperature is below 43°C. In summer mode the fan can be operated to circulate a flow of air without any heat supply.

This unit **MUST NOT** be installed in a bathroom or other similar high humidity area.

2.0 Heating System Design

This fan convector must be fitted on a two pipe, pumped circulation heating system.

For optimum fan convector heating performance the system must be capable of providing sufficient hot water through the heat exchanger. This means that:

1. The minimum pipe size from boiler to fan convector must be 15mm.
2. **This unit is not suitable for use on microbore pipe-work.**
3. Where the unit is fitted on to a system with other emitters a separate circuit for the fan convector should be considered to provide adequate water flow.

4. The system water must be above 43°C.

5. For heat pump applications - see Commissioning Procedure

6. **This unit is NOT suitable for one-pipe systems.**

7. **Optimum performance will require effective balancing of the whole system.**

8. This unit must not be used to replace a radiator in an existing system unless an adequate flow of water through the unit can be guaranteed.

3.0 Unit Selection/Sizing

Heat output performance is given in the Technical Data section of this manual. Outputs are shown for the three fan speeds, however, it is important to size the unit to match the calculated heat loss requirements of the room with the unit operating on

the low fan speed. The higher fan speeds are used in automatic mode when the room temperature is significantly lower than the preset temperature.

4.0 Location

- This SLIM-LINE II unit may be fitted to any convenient wall at a height from floor level that suits the application, providing an unimpeded flow of warm air into the area to be heated.
- The minimum distance from the underside of the unit to floor level is 125mm.

- The unit should be mounted on a flat wall, and stud or partition walls should be avoided to minimise the possibility of noise transmission.

5.0 Preparation

Before proceeding with the installation, unpack the carton contents and check against the checklist below:

1. SLIM-LINE II unit.
2. 15mm isolating valves (1 pair).
3. Instruction manual.
4. Warranty card.
5. Fixing kit (tamper-proof cover, rubber mounts and cable gland).

1.0

2.0

3.0

4.0

5.0

6.0 Fixing

- Using the fixing dimensions (see fig. 1), mark the fixing hole positions on the wall.
- Drill and plug the wall for No. 8 x 40mm round head wood screws ensuring that the wall plugs are suitable for the wall type.
- Remove the backing from the self-adhesive washers and place on screws with adhesive side towards the point.
- Tighten the screws into the wall leaving about 9mm projecting.
- Press adhesive washers to the wall.

Remove the outer casing as follows:

- Remove the upper and lower front grilles.
- Remove air filter.
- Remove the upper and lower case fixing screws.
- Lift off the outer case.
- Fit chassis on to mounting screws and tighten.

Note: Before proceeding with pipe-work connections check that the unit is level. If the right hand end is lower than the left then the ability to vent the unit may be restricted.

When water connections and electrical connections have been completed and the unit has been vented, fit the outer cover and secure with fixing screws.

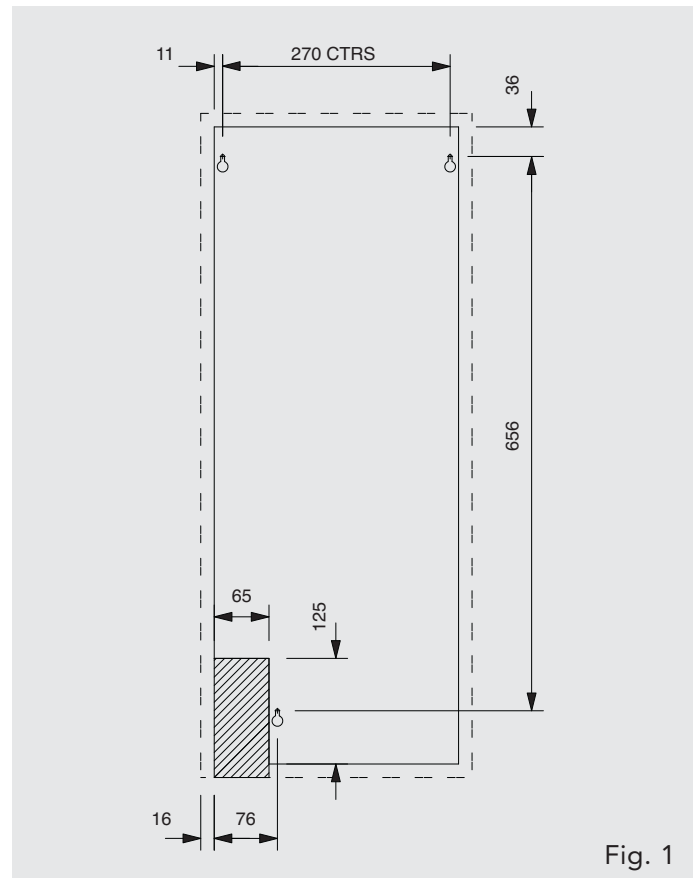


Fig. 1

7.0 Water Connections

- Connect unit to system flow and return pipes using the two 15mm isolating valves (see fig. 2).

Note: To ensure effective venting of the heat exchanger the flow pipe should be connected to the front connection.

Note: For SLIM-LINE II installations pipe-work must not be routed directly underneath the unit as this will adversely affect the operation of the integral room thermostat. **If this cannot be avoided, the pipe-work must be boxed to prevent heat rise.**

- Ensure system is flushed in accordance with recognised best practice and a suitable inhibitor is added to the system as necessary.
- Open valves fully, check pipe connections for leaks and vent the heat exchanger - see Commissioning Procedure.

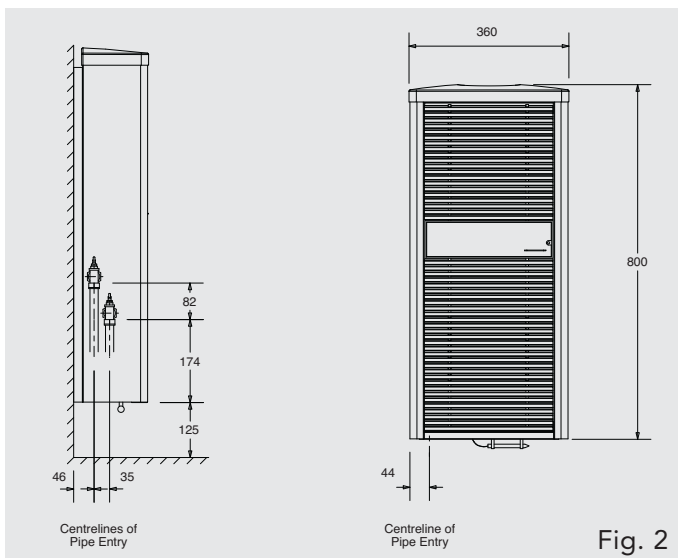


Fig. 2

10.0 Technical Data

Heating Performance Data

Power Consumption watts	Water Capacity litres	Fan Speed	Heat Output watts						Heat Output Btu/h					
			Temperature Difference °C						Temperature Difference °F					
			20°	30°	40°	50°	60°	66.6°	36°	54°	72°	90°	108°	120°
125	0.51	Boost	1470	2220	2960	3720	4460	4950	5016	7575	10100	12693	15218	16889
		Medium	1130	1710	2280	2870	3460	3840	3856	5835	7779	9792	11806	13102
		Low	860	1340	1820	2290	2770	3080	2934	4572	6210	7813	9451	10509

Flow Rate Correction Factors:

453 ltr/h (100 gal/h) multiply by 1.03.

227 ltr/h (50 gal/h) multiply by 0.96.

113 ltr/h (25 gal/h) multiply by 0.85.

Approximate Hydraulic Resistance through Fan Convectors

Litres/h	mm wg	ft wg	gal/h
455	1771	5.81	100
340	1161	3.81	75
227	561	1.84	50
113	201	0.66	25

Heat output tests in accordance with BS 4856 Part 1: 1972

Supply 220 - 240V - 50Hz

Flow Rate 340 ltr/h (75 gal/h).

Test Pressure 20bar (2MPa)

Maximum Working Pressure 10bar (1MPa)

Water Connections 15mm compression

Unit Weight (dry) 14.26kg

Noise Levels

Fan Speed	Sound Pressures at 2.5m (dBA)
Boost	39.7
Medium	30.6
Low	21.9

Noise levels tested in accordance with EN23741.

11.0 Operating Instructions

The SLIM-LINE II is fitted with a fan speed and off selector switch, room thermostat and summer-winter switch.

Ensure that the electrical supply is switched on.

Heating will only be provided when the central heating boiler is on, the pump is running and the system water temperature is greater than 43°C. Ensure boiler is on, and set timer, boiler controls and room thermostats as necessary.

Turn remote room thermostat to a high setting.

Set fan speed control to position I.

The unit will now run on low fan speed.

The low speed setting is recommended for normal operation with the high speed for boost heating (position II) when required.

Low Limit Operation

A low limit thermostat fitted to the SLIM-LINE II will ensure that the fan stops after the heating system is switched off and the water flow stops. If left in an operating position the unit will automatically restart when the heating system is reheated.

Off Position

Set the fan speed selector switch to the off (O) position.

12.0 Troubleshooting

Once installed this fan convectors becomes part of a complete heating system that will generally include a boiler, pump, other emitters such as radiators and fan convectors, and a number of heating controls, dependent on system complexity. An apparent problem with this unit may be the result of system controls being incorrectly set and can be solved easily without calling out your installer or MYSON Service. Before calling your installer or MYSON Service, please carry out the checks listed opposite.

Note: If you call out MYSON Service to a fault detailed opposite, or to repair a fault caused by incorrect use, a call out charge will be made.

12.0 Troubleshooting (continued...)

Problem	Possible Causes	Remedy
Heating Mode - No Fan	Unit switched off	Turn on
	Temperature set point reached	Increase temperature set point
	Unit not switched on at fused spur	Switch on at spur
	Fuse blown at fused spur	Replace fuse
	Unit isolating valves shut	Open valves
	Water temperature reaching fan convector below 43°C (Heater model only)	Check boiler - Programmer ON Boiler ON and set to high with central heating pump running Note: Operation of fan convector can be checked by switching to manual fan setting
Heating Mode (Heater Model only) poor heating performance and/or unit cycles on water sensor	Low water temperature to unit	Turn up boiler thermostat
	Poor water flow	Vent air from heating system

If the fan convector is still faulty after checking the above, call your installer or MYSON Service.

Common Installation Faults

For optimum performance, this unit must be correctly sized to match the heat loss requirements of the space it is required to

heat, and the heating system must be correctly designed to provide adequate flow of hot water to the unit (refer to section 2). If the recommendations in section 2 are not followed, problems may arise as detailed below.

Problem	Possible Causes
Poor heating performance (Heater Model only)	Unit incorrectly sized for heat loss of room
Heating Mode (Heater Model only) poor heating performance and/or unit cycles on water sensor	Boiler thermostat set too low
	Lack of flow to fan convector -
	Pump set on low setting
	Isolating valves not fully open
	System incorrectly balanced with unit starved of hot water flow
	Pipe sizing to unit too small

13.0 Maintenance

Before undertaking any maintenance activity isolate the electrical supply.

Maintenance should be restricted to occasional removal of dust and lint around the unit. The outer surface may be wiped over

with warm water and mild detergent taking care to avoid water entering the grille areas.

10.0
11.0
12.0
13.0



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Spare parts and technical help on all Convector products are available from MYSON Service.