



AMBIRAD

ENERGY EFFICIENT HEATING SYSTEMS

ENVIROAIR STB/STE

**GAS FIRED
AIR HEATERS**

Introduction

Ambi-Rad STB and STE EnviroAir gas fired air heaters are compact, fully automatic and suitable for a wide range of industrial and commercial applications.

They are primarily designed for ducted applications to provide heating and ventilation. However they may also be used for free blowing applications where either higher airflows or fresh air is required. Units may be either installed in plant rooms or suspended in the area to be heated thereby saving valuable floor space.

Designed and manufactured to the highest degree of technical excellence, the heaters have an established record of reliability, long life and low maintenance. For free blowing applications a range of optional outlet louvres provide a choice of air distribution. Discharge nozzles for increased mounting heights are also available.

EnviroAir benefits

- Simple low cost heating and ventilation.
- Versatility: wide range of airflows and static pressures up to 400 pascals.

These units are room sealed fan assisted balanced flue appliances with a separated combustion system. Separated combustion technology provides mechanically induced outside air for combustion, preventing dirt, dust or other contaminants from entering the burners or combustion process. The room sealed units also provide significant improvements in thermal and seasonal efficiency thereby reducing running costs compared to conventional open flued models.

The units have a thermal efficiency of over 91% and significantly reduced carbon emissions. They are included on the Government's Energy Technology List and are eligible for Enhanced Capital Allowances.

Technical data

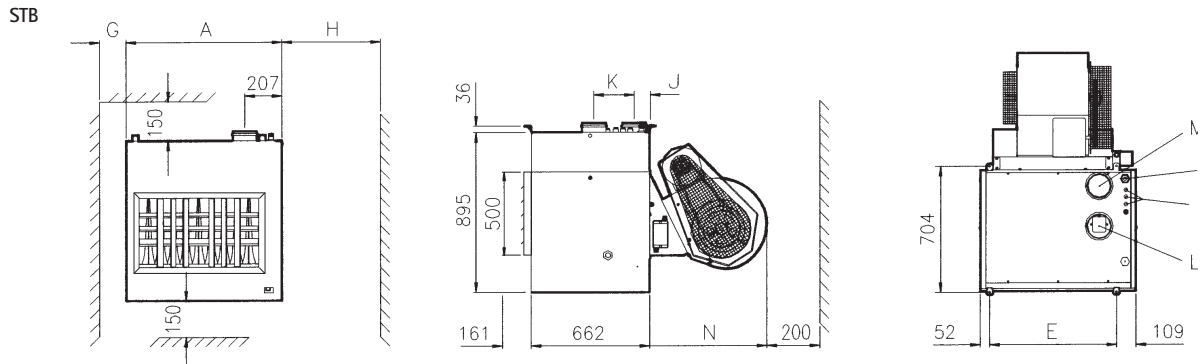
Model		100	125	150	175	225	300	400
Nominal heat output	kW	24	29	35	41	52	71	95
Gas rate								
Natural gas G20	m ³ /h	2.75	3.36	4.07	4.76	6.03	8.25	11.01
Propane G31	kg/h	2.06	2.51	3.04	3.56	4.51	6.17	8.24
Gas connection†	BSP in	¾	¾	¾	¾	¾	¾	¾
Flue diameter	mm	100	100	100	130	130	130	130
Combustion air inlet	mm	100	100	100	130	130	130	130
Airflow @ 125Pa (standard motor)	m ³ /h	1800	2600	3050	3400	4200	5900	7000
Minimum airflow	m ³ /h	1350	1650	2000	2300	2900	4000	5000
Standard motor (230V single phase)	kW	0.18	0.37	0.37	0.37	0.55	0.75	0.75
Maximum motor size (three phase)	kW	1.1	1.1	1.5	1.5	2.2	3.0	3.0
Maximum airflow (with larger motor)	m ³ /h	3000	4000	5000	5000	7200	9000	12000
Approximate weight (STB models only)*	kg	108	135	155	155	168	193	248
Approximate weight (STE models only)*	kg	155	188	219	219	241	295	350

† The connection size on the heater does not indicate the size of gas supply pipework. Gas pipework should be sized within allowable pressure drops to comply with current codes of practice. Natural gas G20 calorific value 10.5 kWh/m³ GCV. Minimum inlet pressure 17.5 mbar, maximum inlet pressure 50 mbar.

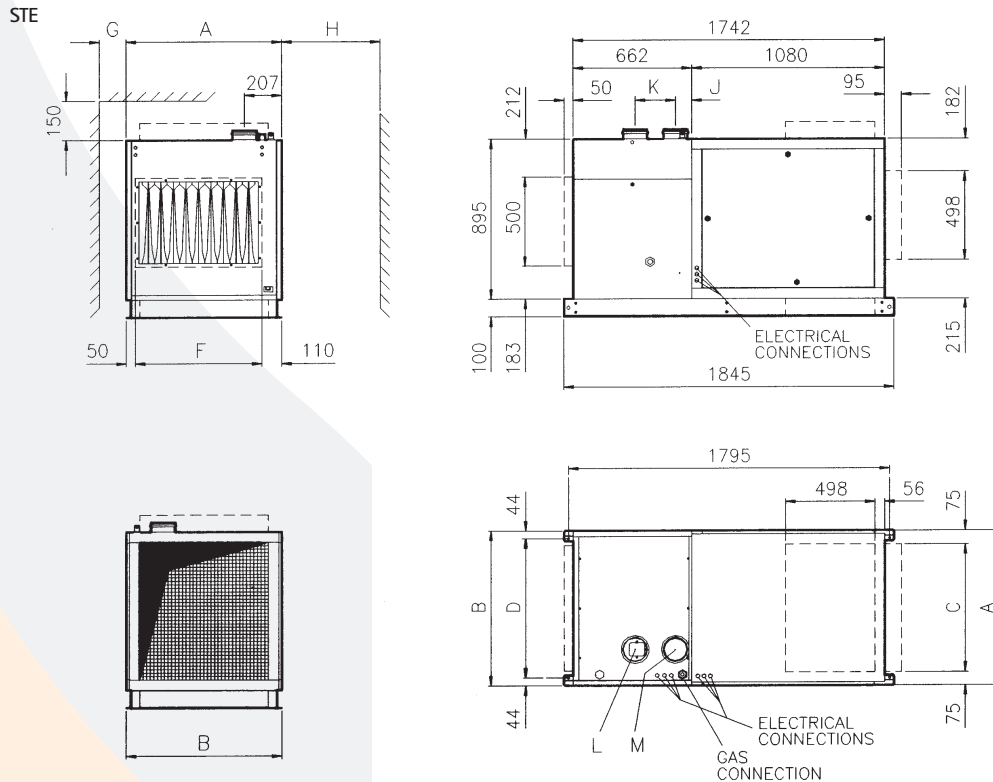
Propane G31 calorific value 14.0 kWh/m³ GCV. Minimum inlet pressure 37 mbar, maximum inlet pressure 50 mbar.

* Actual weight depends on options fitted.

Dimensions



Note: STB shown with louvres (optional extra). For duct outlet dimensions see STE drawing below.



Model	100	125	150	175	225	300	400
A Cabinet width	520	590	730	730	870	1080	1360
B Overall width (STE models only)	524	594	734	734	874	1084	1364
C Duct inlet width (STE models only)	370	440	580	580	720	930	1213
D Suspension centres (STE models only)	436	506	646	646	786	996	1276
E Suspension centres (STB models only)	359	429	569	569	709	919	1199
F Duct outlet spigot width	360	430	570	570	710	920	1200
G Side clearance non control side	150	150	150	150	150	300	300
H Side clearance control side	550	620	750	750	900	1100	1400
J Heater back to air inlet	166	166	166	90	90	90	90
K Air inlet/flue outlet centres	140	140	140	140	225	225	225
L Flue spigot diameter	102	102	102	132	132	132	132
M Air inlet diameter	102	102	102	132	132	132	132
N Depth centrifugal fan (STB models only)	518	575	668	668	668	575	668

All dimensions are in millimetres.



Ambi-Rad Limited Fens Pool Avenue
Brierley Hill West Midlands
DY5 1QA United Kingdom

Telephone 01384 489700
Facsimile 01384 489707
UK sales email sales@ambirad.co.uk
Website www.ambirad.co.uk

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