

TSG Floor Standing Gas Fired Heater



Data Sheet

DESCRIPTION

Colt gas fired heaters provide three major savings. Firstly, the design of the heater is simplified as no heat exchanger or flue is needed, giving a low installed cost. The high level of thermal efficiency achieved by this type of heater and the 20:1 turndown ratio, results in the second saving, which is a reduction in gas consumption and therefore running costs. Thirdly the design and construction of the unit together with its optimum operating temperatures, guarantees a long and reliable equipment working life.

A complete range of floor standing or horizontal units are available with outputs ranging from 51.5kW to 415kW.

APPLICATIONS

Gas fired heaters are an economic means of providing make-up air heating and may also be used as a primary source of space heating, providing temperature control of incoming fresh air.

The positive pressure created within a building fitted with this form of heating ensures even temperature distribution, lower floor to roof temperature gradients and eliminates cold draughts.

As well as providing excellent factory heating, direct fired gas units are suited to a wide variety of applications including paint shops, offices, leisure centre and other public buildings.

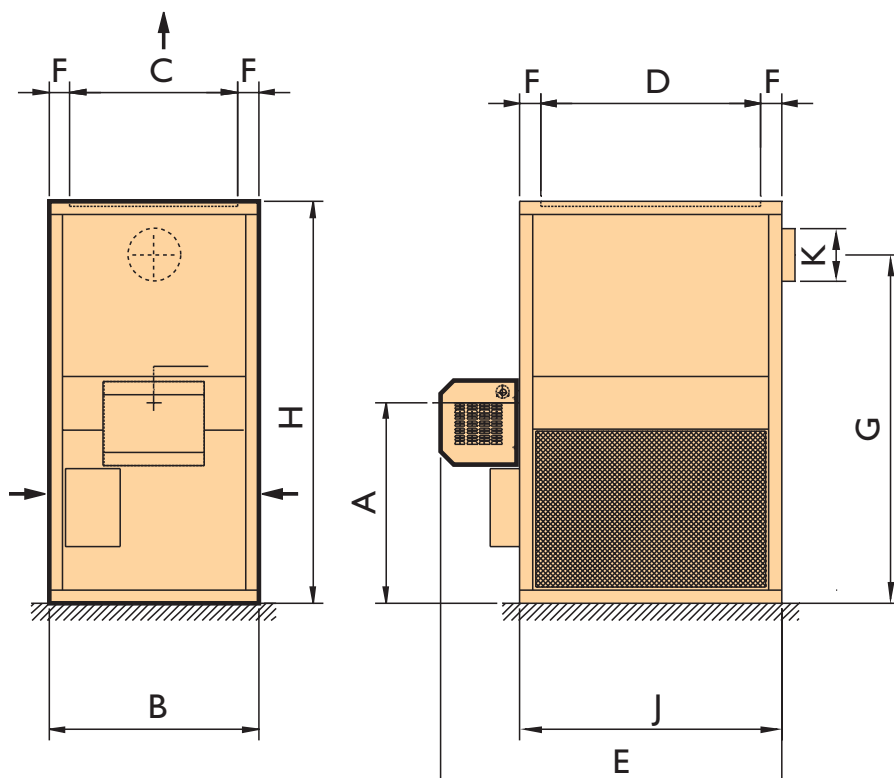
<p>Model</p> <p>Vertical or horizontal</p> <p>Type</p> <p>50, 75, 115, 160, 210, 270, 335, 400</p> <p>Burner</p> <p>Gas or oil</p> <p>Operation</p> <p>On/off High/low (fan motor and burner)</p> <p>Modulating 10:1 (gas)</p> <p>Motor</p> <p>1~230V 3~400V</p> <p>Efficiency</p> <p>90%</p>	<p>Fan</p> <p>Centrifugal double inlet with forward curved blades</p> <p>Drive</p> <p>V-belts</p> <p>Casing</p> <p>Aluzinc steel sheet casing Frame with an epoxy coating</p> <p>Standard equipment</p> <p>Heat exchanger steel-steel Control panel Threeway thermostat Motor protection CE approved PIN: 0063AS3296 ISO 9001</p> <p>Accessories</p> <p>Riello burner Room thermostat Remote control panel Gas leakage test Flue gas fan</p> <p>Additional sections</p> <p>Connection Mesh Empty section Filter section with pressure switch Damper section with manual control or actuator Weather grill Flexible connection Adjustable discharge hood</p>	<p>Gas burner</p> <p>Modulating 10:1 Control 0-10 Volt</p> <p>Fan</p> <p>Double inlet centrifugal with backward curved blades</p> <p>Combustion chamber</p> <p>Stainless steel AISI 321 Chrome steel (1.4512) for the sizes 335/400</p> <p>Heat exchanger</p> <p>Stainless steel AISI 304</p> <p>Parts</p> <p>If the entry to the plantroom is too small we can deliver the heater in parts and the unit can be re-assembled by Colt</p> <p>F-Module</p> <p>The TSG Heater can also be delivered as module without fan suitable for incorporating in an airhandling unit</p>
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TECHNICAL DATA

T	A kW	B kW	C m ³ /h	D m ³ /h	E m ³ /h	F m ³ /h	G m ³ /h	H m ³ /h	I	J kg	K V	L kg/h	M bar
50	51.5	57.0	6.68	5.9	4179	3656	3250	2925	1"	360	1~230	4.77	12
75	77.0	85.4	10.01	8.8	6268	5485	4875	4388	1"	360	1~230/3~400	7.15	12
115	119.0	130.9	15.35	13.5	9611	8410	7475	6728	1 1/4"	650	3~400	10.96	12
160	166.0	182.2	21.36	18.7	13372	11701	10401	9361	1 1/4"	780	3~400	15.25	12
210	218.0	239.2	28.04	24.6	17551	15357	13651	12286	1 1/2"	940	3~400	20.02	12
270	280.0	307.6	36.06	31.6	22566	19745	17551	15796	1 1/2"	1130	3~400	25.75	12
335	347.0	381.6	44.74	39.3	27998	24498	21776	19599	2"	1250	3~400	31.95	12
400	415.0	455.4	53.40	46.8	33431	29252	26001	23402	2"	1290	3~400	38.10	12

T Type	E Air displacement Δt 35K	J Weight
A Nominal input (net val.)	F Air displacement Δt 40K	K Electrical connection
B Nominal output	G Air displacement Δt 45K	L Oil consumption
C Gas consumption G25	H Air displacement Δt 50K	M Pump pressure
D Gas consumption G20	I Gas connection	

G25/G20 Natural gas



DIMENSIONS (int. mm)

Type		50	75	115	160	210	270	335	400
A	=	825	825	1150	1150	1150	1150	1330	1330
B	=	900	900	1200	1200	1200	1200	1612	1612
C	=	796	796	961	961	961	961	1352	1352
D	=	796	796	761	961	1261	1561	1840	1840
E	=	1150	1150	1370	1570	1870	2270	2570	2570
F	=	52	52	119.5	119.5	119.5	119.5	130	130
G	=	1460	1460	1993	1993	1993	1993	2271	2271
H	=	1650	1650	2300	2300	2300	2300	2790	2790
J	=	900	900	1000	1200	1500	1800	2100	2100
K	=	201	201	252	252	302	302	352	352

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Colt International Limited

New Lane Havant

Hampshire PO9 2LY

Tel +44(0)23 9245 1111

Fax +44(0)23 9245 4220

info@coltgroup.com

www.coltgroup.com