

Combat® CTCU Unit Heater - Technical Data

COMBAT® CTCU UNIT HEATER

4.2 General Technical Data Table (All Models)

		CTCU-7	CTCU-11	CTCU-15	CTCU-22	CTCU-27 / 32
CTCUA, Axial Fans						
Total Electrical Load	W	260	274	336	384	345
Run Current	A	1.1	1.2	1.5	1.7	1.5
Start Current	A	1.7	1.8	2.5	2.9	2.6
Air Flow	m ³ /h	1120	1220	2710	2750	4474
Sound Pressure Level at 3 m	[NR] dB(A)	[31] 37	[35] 41	[39] 45	[42] 48	[42] 48
Flue and Air Intake						
Flue and Air Intake Size	mm Ø	80	80	80	80	100
*Maximum Straight Flue/Air Intake	m	2.5	4	5	5	5

Electrical load at 230 V 50 Hz measured by calculating from total run current of appliance.

* Do not exceed the maximum length of flue stated or heater may not operate properly.

Reduce the maximum length stated by 1 m for each 90° bend installed.

**If minimum air flow requirements are not met, then temperature limit devices will shut down the heater.

4.3 Technical Data Table (All Models)

Appliance Category II _{2H/L 3B/P}

		CTCU-7	CTCU-11	CTCU-15	CTCU-22	CTCU-27	CTCU-32
Heat Input Gross CV	kW (Btu/h) x (1000)	8.5 29	13.4 46	18.3 62	27.5 94	33 113	38.5 131
Heat Input Net CV	kW (Btu/h) x (1000)	7.7 26	12.1 41	16.5 56	24.8 85	29.7 101	34.7 118
Approximate Heat Output	kW (Btu/h) x (1000)	7.1 24	11.1 38	15.1 52	23 78	27.2 93	31.7 108
Natural Gas (G20) Data - Inlet Pressure 20 mbar (7.8 in WG) Min. 17 mbar (6.8 in WG) Max. 25 mbar (10 in WG)							
Burner Pressure	mbar	9.5	9.5	9.5	9.5	9.0	9.0
Gas Rate	m ³ /h ft ³ /h	0.8 29	1.3 45	1.7 62	2.6 93	3.1 110	3.6 127
Natural Gas (G25) Data - Inlet Pressure 25 mbar (10 in WG) Min. 20 mbar (7.8 in WG) Max. 30 mbar (12 in WG)							
Burner Pressure	mbar	9.0	9.0	9.5	9.2	9.2	9.3
Gas Rate	m ³ /h ft ³ /h	0.9 33	1.5 52	2.0 72	3 108	3.6 127	4.2 148
LPG / Propane (G31) Data - Inlet Pressure 37 mbar (14.6 WG) Min. 25 mbar (10 in WG) Max. 45 mbar (18 in WG) Alternative where permitted 50 mbar (20 in WG) Min. 42.5 bar (17 in WG) Max. 57.5 mbar (23 in WG)							
Burner Pressure	mbar	25.6	29.4	29.4	28.6	29.9	29.9
Gas Rate	m ³ /h kg ³ /h	0.3 0.16	0.5 0.25	0.7 0.34	1 0.51	1.2 .61	1.4 .71
LPG / Butane (G30) Data - Inlet Pressure 29 mbar (11.4 in WG) Min. 20 mbar (7.8 in WG) Max. 35 mbar (13.8 WG)							
Burner Pressure	mbar	19.2	21.9	22.9	21.4	21.4	22.4
Gas Rate	m ³ /h kg ³ /h	0.2 0.09	0.4 0.14	0.5 0.19	0.8 0.29	.9 .34	1.1 .42

Gas rates corrected to standard conditions 1013.25 mbar 15° C.