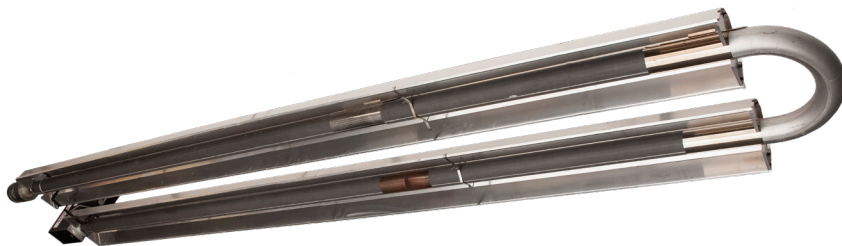




COMPLETE™

U-Tube and Linear

Low-Intensity Radiant Heaters



Complete™ Radiant Heaters can provide even heat distribution from a vacuum design with uniform tube temperatures. CE design certified, the Complete burner box design includes a protective enclosure allowing minimal heat exposure to valuable electrical controls. Available in natural gas or propane gas, the burner is equipped with a fully automatic, three-try, 100% shut-off, direct spark ignition module.

This negative pressure unitary heater offers adaptable designs with linear, Double Linear or U-Tube configurations.

The U-Tube radiant heater has reduced wiring costs due to the proximity of the fan to the burner.

With a wide range of burner inputs and tube lengths, **Complete™** low-Intensity, unitary radiant heaters can be ideal for vehicle service centres, auto body repair shops, manufacturing facilities and offer flexibility for spot heating applications where only small areas of a building require direct heat.

“NEW” – deep dish, wide parabolic design reflector with 12 surfaces that reflect 100% of the infrared energy that it receives from the heat exchanger tube directly to the floor, resulting in an outstanding radiant heat efficiency factor.

Benefits:

- Suitable for most applications due to a wide range of burner inputs and tube lengths
- Longer life provided by durable components such as heat treated aluminised tubing
- Easy installation with quick fix coupling

COMPLETE™ U-Tube and Linear

Complete™ U-Tube

Complete™ Linear

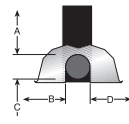
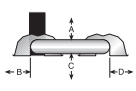
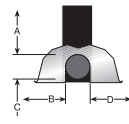
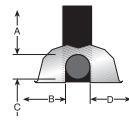
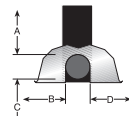
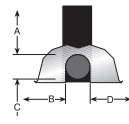
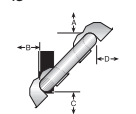
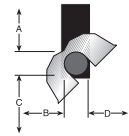
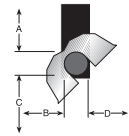
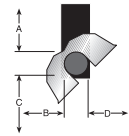
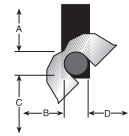
Model		CMP15UT	CMP20UT	CMP25UT	CMP30UT	CMP35UT	CMP40UT	CMP45UT	CMP50UT	CMP15ST	CMP20ST	CMP25ST	CMP30ST	CMP35ST	CMP40ST	CMP45ST	CMP50ST
		Input	kW	15	20	25	30	35	40	45	50	15	20	25	30	35	40
Overall Length	mm	3822	5346	5346	6870	6870	6870	8394	8394	6661	9709	9709	12757	12767	12767	15815	15850
Weight	kg	51	65	65	81	81	81	100	107	42	57	57	75	75	75	90	97
Gas Consumption	m ³ /h*																
Natural	G20	1.4	1.9	2.4	2.9	3.4	3.8	4.3	4.8	1.4	1.9	2.4	2.9	3.4	3.8	4.3	4.8
Natural	G25	1.7	2.2	2.8	3.3	3.9	4.4	5.0	5.7	1.7	2.2	2.8	3.3	3.9	4.4	5.0	5.7
LPG Butane	G30	0.4	0.6	0.7	0.9	1.0	1.1	1.3	1.4	0.4	0.6	0.7	0.9	1.0	1.1	1.3	1.4
LPG Propane	G31	0.6	0.8	0.9	1.1	1.3	1.5	1.7	1.9	0.6	0.8	0.9	1.1	1.3	1.5	1.7	1.9
Fuel	Natural Gas G20, G25; LPG Butane G30, LPG Propane G31.																
Inlet Pressure	mbar																
	NG min	G20 - 15 and G25 - 17.5															
	LPG min	Butane G30 and Propane G31 - 32.5															
	NG & LPG max	50															
Gas Connection	ISO-Rc	½"															
Electrical Supply	230 V, 50 Hz, 1 Ø, 1 A																
Heat Exchanger Tubing	3mtr sections, 100mm dia, 16 gauge. Heat treated aluminised steel tubing.																
Optional Exhaust Flue via an adaptor	OD mm	100															
Reflector and End Caps	NS3H14 Aluminium																
Ignition	Fully Automatic, three attempt, Direct Spark, 100% Shut Off Ignition Flame Rectification Module, Volatile Lock-Out																
Approved As	Flued or flueless. Must Comply With Appliance Regulations																
CE Standard	EN 416																
Accessories	Optional Lockout Indication Connector. Available As A Live Connection or Void Free Connection																

*Based on Gross Calorific Value



COMPLETE™ U-Tube and Linear

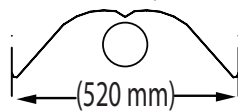
Clearances to combustibles (mm)

Model		CMP15UT	CMP20UT	CMP25UT	CMP30UT	CMP35UT	CMP40UT	CMP45UT	CMP50UT		CMP15ST	CMP20ST	CMP25ST	CMP30ST	CMP35ST	CMP40ST	CMP45ST	CMP50ST
Horizontal 	A	150	150	150	150	150	150	200	200		150	150	150	150	150	150	200	200
	B	890	970	970	1020	1170	1220	1270	1380		890	970	970	1020	1170	1220	1280	1330
	C	1580	1730	1730	1910	1980	2050	2110	2210		1570	1650	1650	1780	1930	1970	2010	2080
	D	760	940	940	1000	1090	1150	1200	1300		890	970	970	1020	1170	1220	1280	1330
45° 	A	200	200	200	200	200	200	200	200		200	200	200	250	250	275	300	300
	B	200	200	200	200	200	200	200	200		200	200	200	200	200	200	200	200
	C	1500	1650	1650	1860	1960	2040	2110	2160		1500	1660	1660	1860	1960	2030	2110	2160
	D	1070	1170	1170	1320	1550	1620	1680	1780		1370	1520	1520	1630	1750	1820	1880	2000

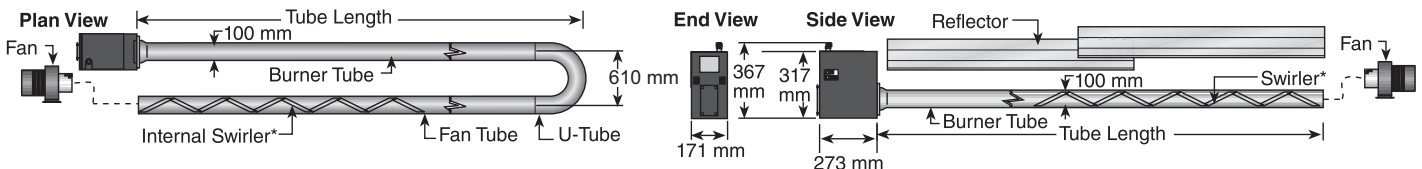
**Clearances B, C and D can be reduced by 50% for locations 7m or more downstream of the burner. For complete installation, operation and service criteria, please see the current issue of the installation, operation and service manual.

“NEW” – deep dish, wide parabolic design reflector

New reflector profile



*Swirler must always be located in Fan Tube



Installation Code and Annual Inspections: All installations and service of Combat Heating Solutions equipment must be performed by a contractor qualified in the installation and service of equipment sold and supplied by Combat Heating Solutions and conform to all requirements set forth in the Combat manuals and all applicable government authorities pertaining to the installation, service and operation of the equipment. To help facilitate optimum performance and safety, Combat Heating Solutions recommends that a qualified contractor annually inspects your Combat equipment and performs a service where necessary, using only replacement parts sold and supplied by Combat Heating Solutions Ltd.

Further information: Applications, engineering and detailed guidance on systems design, installation and equipment performance is available through Combat representatives. Please contact us for any further information you may require, including the installation, operation and service manual.

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