

Dayton® Tubular Gas Fired Direct Spark Propeller Unit Heaters

Specifications

Table 1 – Tubular Propeller Unit Heater (Refer to Figure 2)

Unit Size	150	175	200	250	300	350	400
Model Numbers	L.P. 4LX55	4LX57	4LX59	4LX61	4LX63	4LX65	4LX67
Type of Gas	Nat. 4LX56	4LX58	4LX60	4LX62	4LX64	4LX66	4LX68
PERFORMANCE DATA†							
Input – BTU/Hr.	150,000	175,000	200,000	250,000	300,000	350,000	400,000
(kW)	(43.9)	(51.2)	(58.6)	(73.2)	(87.8)	(102.5)	(117.1)
Output – BTU/Hr.	124,500	145,250	166,000	207,500	249,000	290,500	322,000
(kW)	(36.4)	(42.5)	(48.6)	(60.7)	(72.9)	(85.1)	(97.2)
Thermal Efficiency (%)	83	83	83	83	83	83	83
Free Air Delivery – CFM	2,400	2,850	3,200	3,450	5,000	5,600	5,800
(cu. m/s)	(1.133)	(1.346)	(1.511)	(1.629)	(2.361)	(2.644)	(2.738)
Air Temperature Rise – Deg. F	47	46	47	54	45	47	51
(Deg. C)	(26)	(26)	(26)	(30)	(24)	(26)	(28)
Full Load Amps at 120V	5.8	8.0	8.0	8.0	11.3	13.5	13.5
MOTOR DATA:							
Motor HP (Qty.)	1/4	1/3	1/3	1/3	1/4 (2)	1/3 (2)	1/3 (2)
Motor kW	(0.19)	(0.25)	(0.25)	(0.25)	(0.19)	(0.25)	(0.25)
Motor Type	PSC	PSC	PSC	PSC	PSC	PSC	PSC
R.P.M.	1,140	1,140	1,140	1,140	1,140	1,140	1,140
Amps @ 115V	4.7	5.8	5.8	5.8	9.4	11.6	11.6
DIMENSIONAL DATA – inches (mm)							
"A" Overall Height to Top of Flue	33¾ (857)	33¾ (857)	33¾ (857)	33¾ (857)	34 (864)	34 (864)	34 (864)
"B" Jacket Width of Unit 20¾	32¾ (527)	32¾ (831)	32¾ (831)	50¾ (831)	50¾ (1289)	50¾ (1289)	50¾ (1289)
"C" Width to CL Flue	13¾ (340)	19¾ (492)	19¾ (492)	19¾ (492)	28¾ (721)	28¾ (721)	28¾ (721)
"D" Depth to Rear of Housing	11 (279)	11 (279)	11 (279)	11 (279)	12½ (311)	12½ (311)	12½ (311)
"E" Hanging Distance Width	18¾ (473)	30¾ (778)	30¾ (778)	30¾ (778)	48¾ (1235)	48¾ (1235)	48¾ (1235)
"F" Discharge Opening Width	18¾ (476)	30¾ (781)	30¾ (781)	30¾ (781)	48¾ (1238)	48¾ (1238)	48¾ (1238)
"G" Depth to CL Flue	4¾ (121)	4¾ (121)	4¾ (121)	4¾ (121)	5½ (130)	5½ (130)	5½ (130)
"H" Discharge Opening Height	24½ (622)	24½ (622)	24½ (622)	24½ (622)	24½ (622)	24½ (622)	24½ (622)
"L" Overall Unit Width	25¼ (641)	37¼ (946)	37¼ (946)	37¼ (946)	55¼ (1403)	55¼ (1403)	55¼ (1403)
*Flue Size Diameter – in.	5	5	5	5	6	6	6
(Dia.–mm)	(127)	(127)	(127)	(127)	(152)	(152)	(152)
Fan Diameter – in. (Qty.)	16	18	18	18	16 (2)	18 (2)	18 (2)
Gas Inlet – Natural Gas (in.)	1/2	1/2	1/2	3/4	3/4	3/4	3/4
Gas Inlet – LP Gas (in.)	1/2	1/2	1/2	1/2 or 3/4	1/2 or 3/4	1/2 or 3/4	1/2 or 3/4
Approximate Unit Weight – lbs.	155	191	201	211	307	321	335
(kg)	(70)	(87)	(91)	(96)	(139)	(145)	(152)
Approximate Ship Weight – lbs.	195	241	251	261	367	381	395
(kg)	(88)	(109)	(114)	(118)	(166)	(173)	(179)

NOTE: All metric units of measure are shown in parentheses.

(*) For all installations, the flue collar is included with the unit and should be field installed per the instructions included – see Figure 3A.

(†) Ratings shown are for unit installations at elevations between 0 and 2,000 ft (0 to 610 m). For unit installations in U.S.A. above 2,000 ft. (610 m), the unit input must be derated 4% for each 1,000 ft. (305 m) above sea level; refer to local codes, or in absence of local codes, refer to the latest edition of the National Fuel Gas Code, ANSI Standard Z223.1 (N.F.P.A. No. 54).

For installations in Canada, any reference to deration at altitudes in excess of 2,000 ft. (610 m) are to be ignored. At altitudes of 2,000 ft. to 4,500 ft. (610 to 1372 m), the unit must be derated to 90% of the normal altitude rating, and be so marked in accordance with the ETL certification.