

# DURACURVE SERIES

# LENNOX

## FORCED AIR GAS HEATERS

54,000 to 132,000 Btu/hr Output Upflow

# G8

SfB	(56)
UDC	697.245.5
Leaflet No. LE.SS.G8. 5	
Issued January 1970	

### MAJOR FEATURES

Fully automatic upflow warm air heating units, ranging from 54,000 to 132,000 BTUs/hr, quiet in operation and suitable for full central heating in residential, commercial and industrial buildings.

Each unit supplied fully assembled and pre-wired, including transformer, 24v. room thermostat with mercury switch and anticipator, automatic gas valve/pressure regulator, safety pilot, fan control and limit switch.

Quiet-running double-inlet centrifugal fan, belt driven from adjustable motor pulley, designed to operate against high duct resistance for full perimeter heating. Fan and motor assembly mounted on frame, which is vibration insulated.

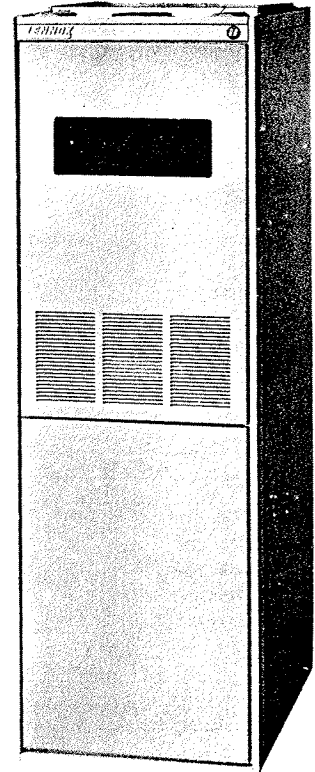
Fitted with the revolutionary Lennox "Duracurve" (reg'd trade mark) heat exchanger, constructed of aluminised steel with continuous edge welds. Insulating liners keep temperature of outer surfaces of heater low.

"Hammock" type wrap-round filter, having large filtration area for greater efficiency, fitted into blower compartment. Filter frame mounted on channels for ease of withdrawal.

Units available for any form of Towns, Natural or Liquid Petroleum Gas, and designed to operate from 220-240v. 50cy 1 ph. a.c. power supply.

Please note that the suffix 'B' signifies that these units have been approved by the Gas Council for easy conversion to natural gas. After conversion the specified outputs will remain unchanged.

De Luxe cabinet attractively finished in two-tone beige enamel.



Model G8-54/65

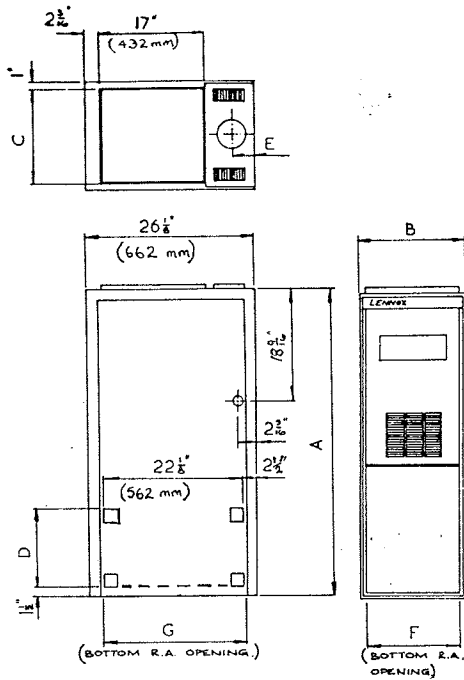
### SPECIFICATIONS AND RATINGS

Model No.	G8-54 B	G8-65 B	G8-76 B	G8-88 B	G8-109 B	G8-132 B
BTUs/hr Output	54,000	65,000	76,000	88,000	109,000	132,000
BTUs/hr Input (500 c.v.)	67,500	82,000	95,000	110,000	137,000	165,000
BTUs/hr Input (Methane)	70,100	84,500	98,000	114,000	141,500	172,000
Consumption of 500c. v. gas (cu.ft./hr)	135(68)*	164 (82)*	190(95)*	220(110)*	274(137)*	330(167)*
Overall height	49"	49"	49"	49"	53"	53"
Overall width	16"	16"	21"	21"	26"	31"
Overall depth	26 $\frac{1}{8}$ "	26 $\frac{1}{8}$ "	26 $\frac{1}{8}$ "	26 $\frac{1}{8}$ "	26 $\frac{1}{8}$ "	26 $\frac{1}{8}$ "
Warm Air Plenum size (36" or 18" high)	14 $\frac{1}{2}$ "x17"	14 $\frac{1}{2}$ "x17"	19 $\frac{3}{4}$ "x17"	19 $\frac{3}{4}$ "x17"	24"x17"	29"x17"
Return Air connection	11"x22 $\frac{1}{8}$ "	11"x22 $\frac{1}{8}$ "	15"x22 $\frac{1}{8}$ "	15"x22 $\frac{1}{8}$ "	18"x22 $\frac{1}{8}$ "	18"x22 $\frac{1}{8}$ "
Fan Motor h.p. (1,425 rpm)	1/6	1/6	$\frac{1}{4}$	$\frac{1}{4}$	$\frac{1}{4}$	$\frac{1}{2}$
Motor Pulley (dia x bore)	3 $\frac{1}{4}$ "x $\frac{1}{2}$ "	3 $\frac{1}{4}$ "x $\frac{1}{2}$ "	3 $\frac{1}{4}$ "x $\frac{1}{2}$ "	3 $\frac{1}{4}$ "x $\frac{1}{2}$ "	3 $\frac{1}{4}$ "x $\frac{1}{2}$ "	3 $\frac{1}{4}$ "x $\frac{1}{2}$ "
Blower Pulley (dia x bore)	6"x $\frac{3}{4}$ "	6"x $\frac{3}{4}$ "	5"x $\frac{3}{4}$ "	5"x $\frac{3}{4}$ "	7"x $\frac{3}{4}$ "	6"x $\frac{3}{4}$ "
Belt length (i.d.) x width	36"x $\frac{1}{2}$ "	36"x $\frac{1}{2}$ "	35"x $\frac{1}{2}$ "	35"x $\frac{1}{2}$ "	38"x $\frac{1}{2}$ "	38"x $\frac{1}{2}$ "
Rpm range with standard drives	470-715	470-715	558-835	558-835	410-625	470-715
Hammock Filter size	34"x28"	34"x28"	42"x28"	42"x28"	52"x28"	56"x28"
Flue size (dia)	4"	4"	5"	5"	5"	6"
Weight (lbs)/Kg.	198/90	198/90	219/100	219/100	306/139	324/147
Gas connection (BSP)	$\frac{3}{4}$ "	$\frac{3}{4}$ "	$\frac{3}{4}$ "	$\frac{3}{4}$ "	$\frac{3}{4}$ "	$\frac{3}{4}$ "
Group 3						
Injector size (Morse)	27	20	25	20	20	20
Setting Pressure (in.w.g.)	1.7	1.7	1.7	1.7	1.7	1.7
Group 4						
Injector size (Morse)	23	18	21	18	18	18
Setting Pressure (in.w.g.)	1.5	1.5	1.5	1.5	1.5	1.5
Group 5						
Injector size (Morse)	23	18	21	18	18	18
Setting Pressure (in.w.g.)	1.8	1.8	1.8	1.8	1.8	1.8
Group 6						
Injector size (Morse)	23	18	21	18	18	18
Setting Pressure (in.w.g.)	2.0	2.0	2.0	2.0	2.0	2.0
Propane						
Injector size (Morse)	55	54	55	54	55	55
Setting Pressure (in.w.g.)	14.0	14.0	14.0	14.0	14.0	14.0
Butane						
Injector size (Morse)	55	54	55	54	55	55
Setting Pressure (in.w.g.)	11.0	11.0	11.0	11.0	11.0	11.0
Methane						
Injector size (Morse)	43	43	43	43	43	43
Setting Pressure (in.w.g.)	4.0	5.4	4.2	5.4	5.4	5.4

\* Methane

APPROVED BY THE GAS COUNCIL





**DIMENSIONS (inches)**

	G8-54	G8-65	G8-76	G8-88	G8-109	G8-132
A	49	49	49	49	53	53
B	16	16	21	21	26	31
C	14	14	19	19	24	29
D	11	11	15	15	18	18
E	3 1/8	3 1/8	3 3/8	3 3/8	3 3/8	3 3/8
F	11	11	15	15	18	18
G	22 1/8	22 1/8	22 1/8	22 1/8	22 1/8	22 1/8

**METRIC DIMENSIONS (mm)**

	A	B	C	D	E	F	G
A	1245	1245	1245	1245	1346	1346	
B	406	406	533	533	660	787	
C	356	356	482	482	609	736	
D	279	279	381	381	457	457	
E	80	80	79	79	81	81	
F	279	279	381	381	457	457	
G	561	561	561	561	561	561	

**BLOWER PERFORMANCE CHARTS** NOTE: All cfm is measured external to unit with filter in place

Air Volume (cfm)	G8-54/65 STATIC PRESSURE EXTERNAL TO UNIT—Inches Water Gauge										
	G8-54/65										
	0	.10	.20	.30	.40	.50	.60	.70	.80	.90	1.00
	RPM BHP	RPM BHP	RPM BHP	RPM BHP	RPM BHP	RPM BHP	RPM BHP	RPM BHP	RPM BHP	RPM BHP	RPM BHP
500	370 .07	460 .08	560 .10	660 .11	725 .14	800 .15	870 .16	935 .19	1000 .20	1050 .23	1100 .25
600	423 .08	525 .10	610 .13	685 .14	765 .15	825 .17	883 .19	945 .21	1010 .24	1060 .26	1110 .29
700	495 .10	580 .13	685 .15	730 .17	795 .18	855 .20	910 .22	970 .25	1025 .27	1080 .30	1135 .34
800	568 .13	640 .16	715 .18	775 .20	840 .22	900 .24	955 .27	1005 .29	1055 .32	1105 .36	1155 .39
900	640 .17	705 .20	770 .22	830 .24	890 .27	940 .30	990 .32	1040 .36	1090 .38	1137 .41	1185 .45
1000	710 .22	770 .24	830 .27	890 .29	935 .32	985 .34	1030 .37	1078 .41	1125 .45	1175 .48	1215 .52
1200	850 .34	905 .37	955 .40	1000 .43	1045 .47	1095 .51	1135 .54	1180 .58	1225 .62	1265 .66	1305 .71
1400	990 .50	1040 .54	1085 .59	1135 .63	1173 .66	1215 .70	1250 .75	1385 .79	1325 .84	1360 .89	1400 .94

Air Volume (cfm)	G8-76/88 STATIC PRESSURE EXTERNAL TO UNIT—Inches Water Gauge										
	G8-76/88										
	0	.10	.20	.30	.40	.50	.60	.70	.80	.90	1.0
	RPM BHP	RPM BHP	RPM BHP	RPM BHP	RPM BHP	RPM BHP	RPM BHP	RPM BHP	RPM BHP	RPM BHP	RPM BHP
700	405 .08	505 .09	595 .12	675 .15	753 .18	820 .20	880 .23	940 .26	995 .29	1050 .33	1105 .37
800	470 .10	553 .12	630 .15	710 .18	775 .21	835 .23	900 .27	958 .30	1010 .33	1060 .38	1115 .43
900	528 .13	604 .15	675 .17	745 .21	810 .24	870 .27	925 .31	980 .35	1030 .38	1080 .43	1130 .47
1000	585 .16	655 .19	720 .22	790 .25	845 .29	905 .32	955 .36	1010 .40	1060 .44	1107 .49	1150 .53
1200	705 .26	760 .29	815 .32	880 .36	925 .39	975 .44	1025 .48	1075 .53	1120 .58	1160 .65	1205 .69
1400	820 .38	870 .42	920 .46	973 .51	1018 .55	1060 .60	1107 .66	1146 .70	1190 .76	1233 .82	1283 .89
1600	940 .55	980 .59	1023 .64	1070 .70	1110 .76	1150 .81	1192 .87	1233 .93			

Air Volume (cfm)	G8-109 STATIC PRESSURE EXTERNAL TO UNIT—Inches Water Gauge										
	G8-109										
	0	.10	.20	.30	.40	.50	.60	.70	.80	.90	1.0
	RPM BHP	RPM BHP	RPM BHP	RPM BHP	RPM BHP	RPM BHP	RPM BHP	RPM BHP	RPM BHP	RPM BHP	RPM BHP
900	280 .12	385 .16	480 .20	535 .24	620 .28	675 .31	730 .35	780 .39	825 .44	870 .51	915 .58
1000	315 .13	415 .17	505 .22	573 .26	640 .31	692 .34	740 .37	795 .42	840 .48	885 .55	922 .62
1200	385 .16	483 .23	545 .27	615 .32	670 .36	727 .41	772 .45	819 .52	870 .60	910 .65	950 .73
1400	450 .24	520 .28	590 .33	650 .38	710 .43	760 .48	812 .54	855 .62	903 .71	940 .78	980 .86
1600	505 .31	572 .37	638 .42	697 .47	752 .53	805 .59	850 .68	895 .75	930 .83	972 .90	1010 1.00
1800	568 .40	622 .45	690 .52	745 .57	800 .64	855 .74	890 .82	930 .91	978 1.10		
2000	625 .52	680 .57	740 .63	795 .70	840 .80	880 .88	930 .98	970 1.08			
2200	690 .63	740 .70	795 .77	845 .86	888 .96	930 1.06					
2400	762 .82	805 .87	850 .96								
2600	830 1.00	860 1.07									

Air Volume (cfm)	G8-132 STATIC PRESSURE EXTERNAL TO UNIT—Inches Water Gauge										
	G8-132										
	0	.10	.20	.30	.40	.50	.60	.70	.80	.90	1.00
	RPM BHP	RPM BHP	RPM BHP	RPM BHP	RPM BHP	RPM BHP	RPM BHP	RPM BHP	RPM BHP	RPM BHP	RPM BHP
1100	340 .10	440 .15	520 .20	595 .24	650 .28	710 .33	765 .39	815 .44	860 .50	900 .55	945 .61
1200	375 .13	465 .17	540 .22	610 .27	670 .32	725 .38	775 .42	830 .49	875 .54	915 .60	955 .67
1400	440 .19	510 .23	585 .29	650 .34	710 .40	760 .46	810 .52	860 .59	900 .65	940 .72	980 .78
1600	500 .26	560 .31	630 .37	695 .44	750 .50	800 .56	845 .63	890 .70	935 .77	975 .85	1015 .93
1800	560 .35	620 .41	680 .47	735 .54	790 .61	835 .68	885 .77	925 .84	970 .93	1010 1.01	1050 1.09
2000	615 .45	675 .51	730 .60	785 .67	830 .75	880 .83	925 .91	970 1.01	1010 1.10		
2200	685 .58	730 .65	790 .75	835 .83	885 .91	925 1.00	970 1.09				
2400	755 .75	800 .84	840 .91	890 1.00	930 1.08						
2600	825 .96	760 1.03	895 1.10								