

**ELITE 80™**  
**UP-FLOW GAS FURNACES**  
\*80.0% to 80.8% A.F.U.E.

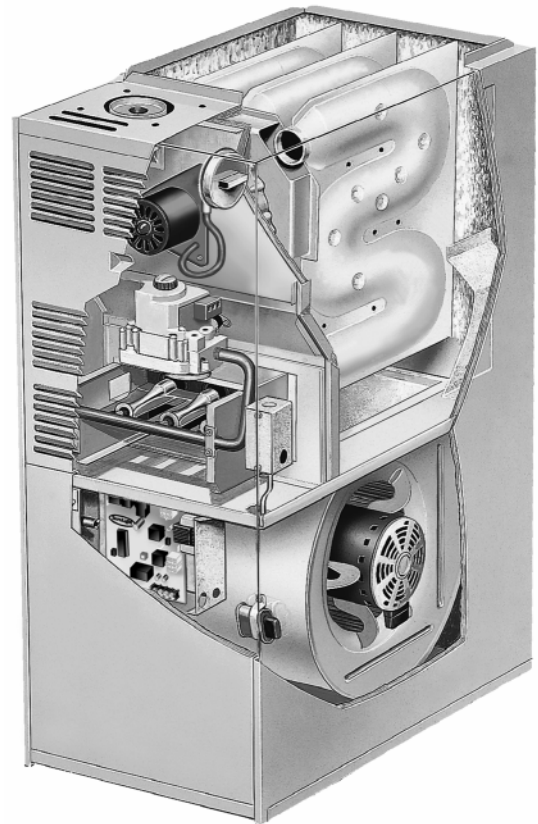
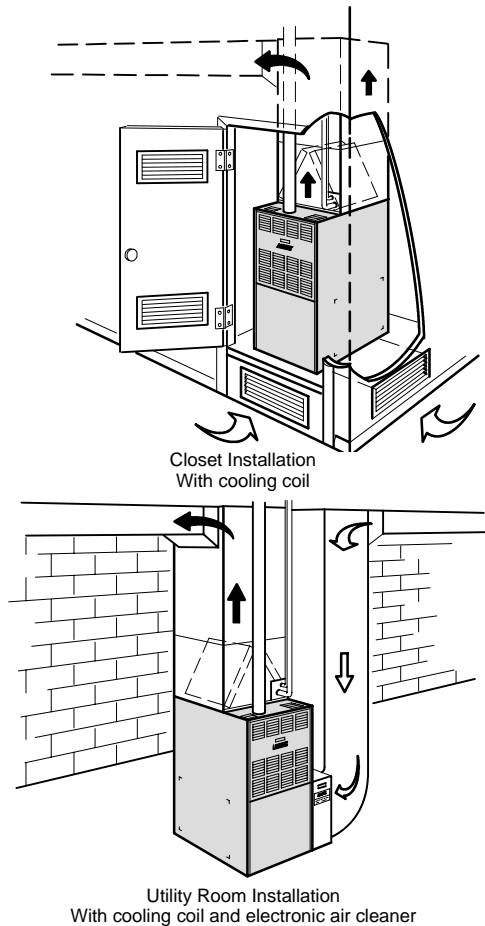
**G23**

Bulletin #210026  
September 1998  
Supersedes  
June 1995

**50,000 to 150,000 Btuh (14.7 to 44.0 kW) Gas Heating Input**  
**1 thru 6 Tons (3.5 thru 21.1 kW) Nominal Add-On Cooling**

\*Isolated Combustion System Rating For Non-Weatherized Furnaces

**Typical Applications**



**Applications**

- Ten models (natural gas or LPG/propane) with input capacities of 50,000, 75,000, 100,000, 125,000 and 150,000 Btuh (14.7, 22.0, 29.3, 36.6 and 44.0 kW).
- Energy efficiencies (AFUE) of up to 80.8%.
- Compact cabinet with either side or bottom return air entry.
- Add-on evaporator coils, electronic air cleaners and power humidifiers available.
- Shipped factory assembled with all controls installed and wired.
- Each unit is factory test operated to insure proper operation.

**Approvals**

- Certified by A.G.A. Laboratories
  - Ratings are certified by GAMA.
  - Tested and rated according to U.S. DOE test procedures and FTC labeling regulations.
  - All models approved by the California Energy Commission and meet California Seasonal Efficiency requirements.
  - "X" models meet California Nitrogen Oxides (NOx) Standards.
  - Blower data is from unit tests conducted in the Lennox Laboratory air test chamber.
  - Developed in accordance with ISO 9001 quality system.
  - Approved for vertical or horizontal (sidewall) venting.
- NOTE — Horizontal venting requires sidewall power venting kit, see Optional Accessories.

**Equipment Warranty**

- Heat exchanger - twenty year limited warranty.
- All other covered components - five year limited warranty in residential installations and one year in non-residential installations.
- Refer to the Lennox Equipment Limited Warranty certificate included with the equipment for specific details.

**Lennox DURALOK™ Aluminized Steel Heat Exchanger**

- 4-pass, clamshell type heat exchanger
- Constructed of heavy gauge aluminized steel
- Designed for normal expansion and contraction without metal fatigue.
- Crimped seams provide long service life, maximum efficiency and minimum airflow resistance.
- Compact size permits low overall design of furnace cabinet.
- Heat exchanger has been laboratory life cycle tested.

**Inshot Burners**

- Aluminized steel inshot burners provide efficient trouble free operation.
- Burner venturi mixes air and gas in correct proportion for proper combustion.
- Assembly is removeable from the unit as a single component for ease of service.

**Induced Draft Blower**

- Shaded pole heavy duty induced draft blower prepurges heat exchanger and safely vents flue products.
- Pressure switch prevents unit operation in case of blockage of flue outlet.
- Induced draft blower operates only during heating cycle.

## FEATURES

### SureLight™ Hot Surface Ignition

- Tough, reliable, long-life, trouble-free performance.
- Tungsten heater element sandwiched between two plates of silicon nitride.
- Cemented to steatite block for protection against current leakage.
- Ignitor leads constructed of nickel plated copper enclosed in high temperature insulation for dependable operation.
- Adaptive technology of ignition control board monitors and adjusts voltage and temperature for ignition at just the needed combustion point - extending ignitor life.
- No electrical noise.

### SureLight™ Integrated Control Board

- Solid-state board contains all necessary controls and relays to operate furnace.
- Induced draft blower is controlled by module. Prior to ignition, a pre-purge cycle for 15 seconds is initiated. After the main burners are turned off, a post-purge cycle for 5 seconds is run.
- Continuously monitors and adjusts the ignitor voltage to operate at minimum ignitor temperature required for ignition, prolonging ignitor life.
- Electronic flame sensor control assures safe and reliable operation.
- Should loss of flame occur, flame sensor controls will initiate 4 attempts at re-ignition before locking out unit operation for 60 minutes.
- Watchguard type circuit automatically resets ignition controls after one hour of continuous thermostat demand after unit lock-out, eliminating nuisance calls for service.
- Fan control consists of adjustable blower timed-off delay (60 to 180 seconds) and fixed blower timed-on delay (45 seconds).
- Continuous low speed blower operation available on board.
- For air-conditioning applications, blower is automatically energized on thermostat demand for cooling.
- Provisions for additional power supply requirements for 120 volt (less than 4 amps) power humidifiers and electronic air cleaners.
- Ignition control has two LED's to indicate status and as an aid in troubleshooting.

### Gas Control Valve

- 24 volt redundant combination gas control valve combines a manual main shutoff valve, pressure regulation and automatic electric valve (dual) into one compact combination control.

### Flame Rollout Switch

- Manual reset switch is furnished as standard and is factory installed on bracket above burner assembly.
- Prevents unit operation in the event combustion products passage through the flueway is reduced or blocked.

## OPTIONAL ACCESSORIES - MUST BE ORDERED EXTRA

### Thermostat (Optional)

- Heating thermostat is not furnished and must be ordered extra.
- See Thermostats bulletin in Thermostats and Controls section and Lennox Price Book.
- For all-season applications, heating and cooling thermostat is available with the condensing unit.

### Filter and Rack Kit (Optional)

- Washable or vacuum cleanable polyurethane frame type air filter and external rack available for field installation.
- Available in single and ten pack kits.
- See Specifications table for order no.
- For bottom return air applications, filter installs in furnace cabinet bottom.
- Secured by one fixed rear filter clip and two field installed side filter clips.
- For side return air applications, external filter rack field installs on either side of unit cabinet.
- Rack has filter door for easy filter servicing.
- Flanges on rack allow easy duct connection.
- See dimension drawing.

### Limit Controls

- Factory installed and accurately located.
- Provides protection from abnormal operating conditions.

### Cabinet

- Constructed of heavy gauge pre-painted cold rolled steel.
- Five station metal wash process resulting in a perfect paint bonding surface of baked-on enamel.
- Insulated with foil faced fiberglass insulation on vestibule panel, side and back panels of heat section.
- Blower compartment sides and rear are insulated with mat faced fiberglass insulation.
- Complete service access is accomplished by removing heat section and blower compartment access doors.
- Blower assembly may be completely removed from unit for service.
- Safety interlock switch located on blower access door automatically shuts off power to the unit when door is removed.
- Flue opening furnished on top of furnace.
- Gas piping inlets and electrical knockouts are provided in both sides of cabinet.
- Return air entry is possible on either side or bottom of cabinet.
- For bottom return air, cabinet has a perforated knockout pattern for easy removal.

### Blower

- Units are equipped with quiet multi-speed direct drive blower.
- Each blower assembly is statically and dynamically balanced.
- Multiple-speed motor is resiliently mounted.
- Choice of blower motor speeds is available on each blower. See blower performance tables.

### Transformer

- 24 volt control transformer furnished as standard equipment and is factory installed in control box.
- Circuit breaker wired in series for added protection.

### Field Wiring Make-up Box

- Make-up box furnished for line voltage wiring.
- May be installed on either side of furnace, internally or externally to unit.
- Contains plug-in connection for power supply wiring, wire for 120 volt accessory connection and all necessary hardware for installation.

### Control Box

- Thermostat connections are made at the control box which is located in the blower compartment.
- Box contains SureLight hot surface ignition board, SureLight intergrated control board, control transformer and circuit breaker.

### High Altitude Pressure Switch (Optional)

- G23-100/125 and G23-150 units require a High Altitude Pressure Switch for units installed above 5000 feet (1524 m).
- See specifications table for order number.
- See High Altitude Information table for gas regulator adjustment data.

### LPG/Propane Conversion Kit (Optional)

- For LPG/propane models a conversion kit is required for field changeover from natural gas.
- See specifications table for order number.

### Furnace Twinning Kit (Optional)

- Field installed kit (15L38) is required to operate two furnaces simultaneously.
- Kit consists of twinning control and two fan sensors.

### Sidewall Power Venting Kit (Optional)

- Required for horizontal venting.
- Kit (79J15) includes E.T.L. listed power venter and control kit.
- Control kit includes junction box with pressure switch, aluminum tubing, tubing, conduit connectors and barometric draft control.
- Flue piping must be field provided.

## SPECIFICATIONS

Model No.		G23Q2(X)-50	G23Q3(X)-50	G23Q2/3(X)-75	G23Q4/5(X)-75	G23Q3(X)-100
Input Btuh (kW)		50,000 (14.7)		75,000 (22.0)		100,000 (29.3)
Output Btuh (kW)		40,000 (11.7)		61,000 (17.8)		80,000 (23.4)
☆A.F.U.E.		80.7%	80.8%	80.4%		80.1%
California Seasonal Efficiency		75.5%	75.6%	76.9%	74.2%	76.6%
Flue size connection diameter— in. (mm) round		3 (76)		4 (102)		
Temperature rise range — °F (°C)		30-60 (17-33)		35-65 (19-36)	20-50 (11-28)	45-75 (25-42)
High static certified by A.G.A. — in wg. (Pa)		.50 (125)				
Gas Piping Size I.P.S. - Natural or LPG/propane - in. (mm)		1/2 (12.7)				
Blower wheel nominal diameter x width	in.	10 x 7	10 x 8		11-1/2 x 9	10 x 8
	mm	254 x 178	254 x 203		292 x 229	254 x 203
Blower motor output — hp (W)		1/5 (149)	1/3 (249)		3/4 (560)	1/3 (249)
Nominal cooling that can be added	Tons	1 to 2	1 to 3		3-1/2 to 5	1 to 3
	kW	3.5 to 7.0	3.5 to 10.6		12.3 to 17.6	3.5 to 10.6
Shipping weight — lbs. (kg) 1 package		135 (61)	140 (64)	146 (66)	186 (84)	159 (72)
Electrical characteristics		120 volts — 60 hertz — 1 phase (all models) (less than 12 amps)				
▼ <b>Optional Accessories (Must Be Ordered Extra)</b> ▼						
LPG/Propane kit	Standard models	<b>71K82</b>				
	"X" models	<b>13L94</b>	<b>13L95</b>		<b>13L96</b>	
Filter and Filter Rack Kits ‡No. & size of filters - in. (mm)		Single ( <b>44J20</b> ) Ten Pack ( <b>66K61</b> ) (1) 14 x 25 x 1 (356 x 635 x 25)			Single ( <b>44J21</b> ) Ten Pack ( <b>66K62</b> ) (1) 20 x 25 x 1 (508 x 635 x 25)	Single ( <b>44J22</b> ) Ten Pack ( <b>66K63</b> ) (1) 16 x 25 x 1 (406 x 635 x 25)
Horizontal Power Venter Kit		<b>79J15</b> (all models)				
Twinning Kit		<b>15L38</b> (all models)				
Ⓜ High Altitude Pressure Switch Kit		- - - -				<b>97J50</b>

☆Annual Fuel Utilization Efficiency based on U.S. DOE test procedures and FTC labeling regulations. Isolated combustion system rating for non-weatherized furnaces.

‡Cleanable polyurethane frame type filter.

Ⓜ Required for proper operation at altitudes over 5,000 ft. (1525 m).

## SPECIFICATIONS

Model No.		G23Q3/4(X)-100	G23Q4/5(X)-100	G23Q3/4(X)-125	G23Q5/6(X)-125	G23Q5/6(X)-150
Input Btuh (kW)		100,000 (29.3)		125,000 (36.6)		150,000 (44.0)
Output Btuh (kW)		80,000 (23.4)	81,000 (23.7)	100,000 (29.3)		120,000 (35.2)
☆A.F.U.E.		80.7%	80.1%	80.0%	80.4%	80.0%
California Seasonal Efficiency		77.3%	75.9%	76.3%	76.8%	76.8%
Flue size connection diameter— in. (mm) round		4 (102)		5 (127)		
Temperature rise range — °F (°C)		40-70 (22-39)	30-60 (17-33)	45-75 (25-42)	35-65 (19-36)	40-70 (22-39)
High static certified by A.G.A. — in wg. (Pa)		.50 (125)				
Gas Piping Size I.P.S. - Natural or LPG/propane - in. (mm)		1/2 (12.7)				
Blower wheel nominal diameter x width	in.	10 x 8	11-1/2 x 9	10 x 10	12 x 12	
	mm	254 x 203	292 x 229	254 x 254	305 x 305	
Blower motor output — hp (W)		1/2 (373)	3/4 (560)	1/2 (373)	3/4 (560)	
Nominal cooling that can be added	Tons	2 to 4	3-1/2 to 5	2 to 4	5 and 6	
	kW	7.0 to 14.1	12.3 to 17.6	7.0 to 14.1	17.6 and 21.1	
Shipping weight — lbs. (kg) 1 package		143 (65)	167 (76)	195 (88)	218 (99)	223 (101)
Electrical characteristics		120 volts — 60 hertz — 1 phase (all models) (less than 12 amps)				
▼ <b>Optional Accessories (Must Be Ordered Extra)</b> ▼						
LPG/Propane kit	Standard models	<b>71K82</b>				
	"X" models	<b>13L96</b>		<b>13L97</b>		<b>13L98</b>
Filter and Filter Rack Kits ‡No. & size of filters - in. (mm)		Single ( <b>44J21</b> ) Ten Pack ( <b>66K62</b> ) (1) 20 x 25 x 1 (508 x 635 x 25)				
Horizontal Power Venter Kit		<b>79J15</b> (all models)				
Twinning Kit		<b>15L38</b> (all models)				
☐ High Altitude Pressure Switch Kit		<b>97J50</b>				<b>18J35</b>

☆Annual Fuel Utilization Efficiency based on U.S. DOE test procedures and FTC labeling regulations. Isolated combustion system rating for non-weatherized furnaces.

‡Cleanable polyurethane frame type filter.

☐ Required for proper operation at altitudes over 5,000 ft. (1525 m).

## HIGH ALTITUDE INFORMATION

Pressure regulator adjustment may be required depending on altitude. See below for proper pressure regulator setting

Manifold Pressure (Outlet) in. w.g. (kPa)				
FUEL	ALTITUDE ft. (m)			
	0-4500 (0-1372)	4501-5500 (1373-1676)	5501-6500 (1677-1981)	6501-7500 (1982-2286)
Natural Gas	3.5 (.87)	3.3 (.82)	3.1 (.77)	3.0 (.75)
LPG/Propane	10.0 (2.49)			

Pressure switch is factory set. No adjustment necessary. G23-50/75 units use the factory pressure switch from 0-7500 feet (0-2286 m). G23-100/125 and G23-150 units require a High Altitude Pressure Switch for units installed above 5000 feet (1524 m). Order (**97J50**) for G23-100/125 and (**18J35**) for G23-150.

## INSTALLATION CLEARANCES - INCHES (MM)

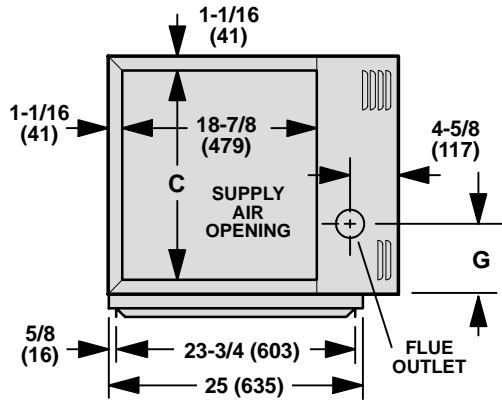
Sides		0 inches (0 mm)
Rear		0 inches (0 mm)
Top		1 inches (25 mm)
☐ Front	Type B1 Vent	☐ 3 inches (76 mm)
	Single Wall Vent	☐ 4 inches (102 mm)
Floor		Combustible
Flue Pipe	Vertical	6 inches (152 mm)
	Horizontal	5 inches (127 mm)
	Type "B" pipe	1 inches (25 mm)
Service Clearance (Front)		24 inches (610 mm)

NOTE—Air for supply air ventilation must conform to the methods outlined in American National Standard (ANSI-Z223.1) National Fuel Gas Code or National Standard of Canada CAN/CGA-149.1, & CAN/CGA-149.2 "Installation Code for Gas Burning Appliances".

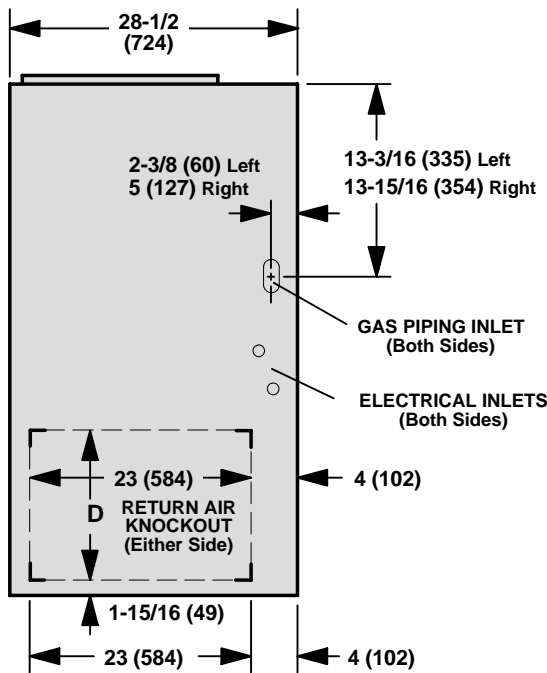
NOTE—In the U.S. flue sizing must conform to the methods outlined in current GAMA/A.G.A. venting tables, American National Standard (ANSI-Z223.1) National Fuel Gas Code or applicable provisions of local building codes. In Canada flue sizing must conform to the methods outlined in National Standard of Canada CAN/CGA-149.1 and .2.

☐ Front clearance for alcove installations is 18 inches (457 mm).

**DIMENSIONS - INCHES (MM)**

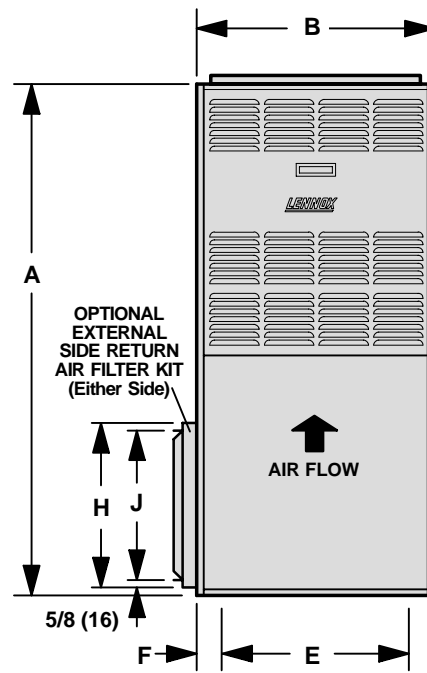


**TOP VIEW**



**Return Air Knockout (Bottom)**

**SIDE VIEW**



**Bottom Return Air Knockout**

**FRONT VIEW**

Model No.		A	B	C	D	E	F	G	H	J
G23Q2(X)-50 G23Q3(X)-50 G23Q2/3(X)-75	in.	40	16-1/4	14-1/8	12	12	2-1/8	5	14	12-3/4
	mm	1016	413	359	305	305	54	127	356	324
G23Q3(X)-100	in.	40	21-1/4	19-1/8	14	14	3-5/8	7-1/2	16	14-3/4
	mm	1016	540	486	356	356	92	191	406	375
G23Q3/4(X)-100 G23Q3/4(X)-125 G23Q4/5(X)-75 G23Q4/5(X)-100	in.	46	21-1/4	19-1/8	18	18	1-5/8	7-1/2	20	18-3/4
	mm	1168	540	486	457	457	41	191	508	476
G23Q5/6(X)-125 G23Q5/6(X)-150	in.	46	26-1/4	24-1/8	18	18	4-1/8	10	20	18-3/4
	mm	1168	667	613	457	457	105	254	508	476

## BLOWER/WATTS DATA

### G23Q2(X)-50 Blower Performance

External Static Pressure		Air Volume and Motor Watts at Specific Blower Taps								
		High			Medium			Low		
in. w.g.	Pa	cfm	L/s	Watts	cfm	L/s	Watts	cfm	L/s	Watts
0	0	1225	580	530	950	450	375	785	370	295
.10	25	1215	575	520	945	445	375	770	365	290
.20	50	1190	560	505	925	435	360	745	350	280
.30	75	1150	545	485	895	420	350	720	340	275
.40	100	1090	515	460	865	410	335	690	325	265
.50	125	1030	485	440	820	385	320	645	305	250
.60	150	960	455	415	760	360	300	595	280	235
.70	175	865	410	390	690	325	285	535	250	225
.80	200	760	360	365	600	285	260	445	210	200
.90	225	630	295	340	520	245	240	---	---	---

NOTE — All air data is measured external to unit with 1 in. (25 mm) cleanable foam filter (not furnished) in place. Also see Filter Air Resistance table.

### G23Q3(X)-50 Blower Performance

External Static Pressure		Air Volume and Motor Watts at Specific Blower Taps											
		High			Medium-High			Medium-Low			Low		
in. w.g.	Pa	cfm	L/s	Watts	cfm	L/s	Watts	cfm	L/s	Watts	cfm	L/s	Watts
0	0	1620	765	630	1380	650	510	1110	525	405	875	415	310
.10	25	1575	745	605	1350	635	490	1090	515	390	870	410	305
.20	50	1520	715	580	1315	620	465	1080	510	375	860	405	295
.30	75	1455	685	550	1275	600	445	1050	495	355	840	395	285
.40	100	1390	655	525	1230	580	425	1015	480	340	815	385	275
.50	125	1320	625	505	1165	550	400	975	460	325	775	365	265
.60	150	1240	585	480	1100	520	375	920	435	310	715	335	245
.70	175	1160	545	460	1030	485	360	830	390	280	620	295	220
.80	200	1075	505	440	900	425	320	700	330	250	535	250	205
.90	225	900	425	395	720	340	285	600	285	230	---	---	---

NOTE — All air data is measured external to unit with 1 in. (25 mm) cleanable foam filter (not furnished) in place. Also see Filter Air Resistance table.

### G23Q2/3(X)-75 Blower Performance

External Static Pressure		Air Volume and Motor Watts at Specific Blower Taps											
		High			Medium-High			Medium-Low			Low		
in. w.g.	Pa	cfm	L/s	Watts	cfm	L/s	Watts	cfm	L/s	Watts	cfm	L/s	Watts
0	0	1600	755	620	1355	640	510	1080	510	395	865	410	310
.10	25	1545	730	595	1320	625	485	1060	500	385	855	405	305
.20	50	1490	705	570	1275	600	465	1035	490	370	830	390	295
.30	75	1425	670	550	1240	585	445	1010	475	360	810	380	285
.40	100	1370	645	530	1185	560	425	975	460	345	780	370	275
.50	125	1300	615	500	1135	535	405	940	445	330	735	345	260
.60	150	1240	585	485	1075	505	380	890	420	310	700	330	250
.70	175	1155	545	465	1000	470	360	830	390	290	625	295	230
.80	200	1045	495	430	905	425	330	720	340	265	555	260	215
.90	225	930	440	405	810	380	305	640	300	245	---	---	---

NOTE — All air data is measured external to unit with 1 in. (25 mm) cleanable foam filter (not furnished) in place. Also see Filter Air Resistance table.

### G23Q4/5(X)-75 Blower Performance

External Static Pressure		Air Volume and Motor Watts at Specific Blower Taps														
		High			Medium-High			Medium			Medium-Low			Low		
in. w.g.	Pa	cfm	L/s	Watts	cfm	L/s	Watts	cfm	L/s	Watts	cfm	L/s	Watts	cfm	L/s	Watts
0	0	2365	1115	1360	2130	1005	1180	1850	875	995	1600	755	840	1360	640	710
.10	25	2360	1115	1355	2105	995	1175	1830	865	995	1575	745	835	1350	635	710
.20	50	2290	1080	1325	2055	970	1155	1800	850	985	1560	735	830	1325	625	705
.30	75	2235	1055	1310	2010	950	1135	1780	840	970	1530	720	820	1310	620	700
.40	100	2175	1025	1275	1970	930	1115	1735	820	945	1500	710	910	1290	610	690
.50	125	2110	995	1250	1910	900	1085	1700	800	930	1480	700	800	1265	610	685
.60	150	2030	960	1215	1855	875	1060	1650	780	910	1450	685	790	1250	590	675
.70	175	1955	925	1185	1765	835	1030	1610	760	895	1410	665	775	1220	575	670
.80	200	1890	890	1165	1695	800	1005	1550	730	875	1370	645	760	1190	560	655
.90	225	1800	850	1145	1600	755	980	1490	705	850	1340	630	730	1160	545	625

NOTE — All air data is measured external to unit with 1 in. (25 mm) cleanable foam filter (not furnished) in place. Also see Filter Air Resistance table.

## BLOWER/WATTS DATA

### G23Q3(X)-100 Blower Performance

External Static Pressure		Air Volume and Motor Watts at Specific Blower Taps								
		High			Medium			Low		
in. w.g.	Pa	cfm	L/s	Watts	cfm	L/s	Watts	cfm	L/s	Watts
0	0	1615	760	630	1300	615	500	1030	485	400
.10	25	1585	750	615	1290	610	490	1015	480	395
.20	50	1530	720	595	1255	590	475	1000	470	380
.30	75	1470	695	570	1220	575	455	975	460	365
.40	100	1400	660	545	1175	555	435	950	450	350
.50	125	1330	630	510	1125	530	415	910	430	340
.60	150	1250	590	485	1065	505	390	870	410	320
.70	175	1155	545	455	995	470	365	810	380	300
.80	200	1055	500	425	915	430	345	735	345	275
.90	225	950	450	400	820	385	320	650	305	250

NOTE — All air data is measured external to unit with 1 in. (25 mm) cleanable foam filter (not furnished) in place. Also see Filter Air Resistance table.

### G23Q3/4(X)-100 Blower Performance

External Static Pressure		Air Volume and Motor Watts at Specific Blower Taps											
		High			Medium-High			Medium-Low			Low		
in. w.g.	Pa	cfm	L/s	Watts	cfm	L/s	Watts	cfm	L/s	Watts	cfm	L/s	Watts
0	0	1970	930	925	1675	790	750	1500	710	655	1180	555	505
.10	25	1895	895	880	1635	770	710	1480	700	635	1175	555	495
.20	50	1850	875	855	1600	755	680	1450	685	605	1170	550	485
.30	75	1790	845	825	1560	735	655	1420	670	580	1155	545	465
.40	100	1710	805	790	1515	715	630	1370	645	550	1130	535	450
.50	125	1635	770	760	1460	690	600	1315	620	520	1100	520	425
.60	150	1555	735	725	1390	655	565	1270	600	495	1060	500	410
.70	175	1470	695	690	1300	615	525	1195	565	470	1015	480	385
.80	200	1370	645	660	1225	580	500	1110	525	435	970	460	370
.90	225	1265	595	625	1115	525	455	1025	485	400	895	420	340

NOTE — All air data is measured external to unit with 1 in. (25 mm) cleanable foam filter (not furnished) in place. Also see Filter Air Resistance table.

### G23Q4/5(X)-100 Blower Performance

External Static Pressure		Air Volume and Motor Watts at Specific Blower Taps														
		High			Medium-High			Medium			Medium-Low			Low		
in. w.g.	Pa	cfm	L/s	Watts	cfm	L/s	Watts	cfm	L/s	Watts	cfm	L/s	Watts	cfm	L/s	Watts
0	0	2465	1165	1305	2230	1050	1115	1985	935	940	1735	820	770	1530	720	650
.10	25	2425	1145	1295	2170	1025	1085	1950	920	930	1700	800	765	1500	710	645
.20	50	2375	1120	1265	2130	1005	1065	1920	905	915	1670	790	750	1470	695	635
.30	75	2315	1090	1235	2090	985	1050	1880	885	895	1645	775	745	1440	680	630
.40	100	2255	1065	1210	2045	965	1040	1840	870	890	1610	760	735	1420	670	625
.50	125	2195	1035	1185	1995	940	1010	1815	855	880	1575	745	725	1390	655	615
.60	150	2135	1010	1155	1950	920	1000	1770	835	870	1530	720	715	1350	635	600
.70	175	2075	980	1145	1890	890	985	1710	805	850	1490	705	700	1295	610	595
.80	200	1985	935	1105	1825	860	960	1650	780	830	1435	675	690	1245	590	585
.90	225	1895	895	1080	1745	825	925	1585	750	810	1365	645	675	1170	550	570

NOTE — All air data is measured external to unit with 1 in. (25 mm) cleanable foam filter (not furnished) in place. Also see Filter Air Resistance table.

### G23Q3/4(X)-125 Blower Performance

External Static Pressure		Air Volume and Motor Watts at Specific Blower Taps											
		High			Medium-High			Medium-Low			Low		
in. w.g.	Pa	cfm	L/s	Watts	cfm	L/s	Watts	cfm	L/s	Watts	cfm	L/s	Watts
0	0	1980	935	800	1690	800	700	1470	695	610	1165	550	465
.10	25	1905	900	770	1670	790	680	1465	690	595	1160	545	455
.20	50	1850	875	740	1630	770	650	1430	675	570	1125	530	445
.30	75	1780	840	705	1580	745	620	1410	665	545	1120	530	430
.40	100	1695	800	670	1530	720	590	1375	650	520	1095	515	410
.50	125	1605	755	640	1455	685	550	1310	620	485	1065	505	390
.60	150	1525	720	605	1380	650	520	1245	590	455	1015	480	370
.70	175	1405	665	565	1280	605	485	1165	550	425	950	450	345
.80	200	1275	600	525	1160	545	440	1030	485	385	860	405	315
.90	225	1120	530	480	1000	470	390	915	430	355	780	370	295

NOTE — All air data is measured external to unit with 1 in. (25 mm) cleanable foam filter (not furnished) in place. Also see Filter Air Resistance table.

## BLOWER/WATTS DATA

### G23Q5/6(X)-125 Blower Performance

External Static Pressure		Air Volume and Motor Watts at Specific Blower Taps														
		High			Medium-High			Medium			Medium-Low			Low		
in. w.g.	Pa	cfm	L/s	Watts	cfm	L/s	Watts	cfm	L/s	Watts	cfm	L/s	Watts	cfm	L/s	Watts
0	0	2460	1160	1295	2220	1050	1050	2000	945	900	1775	840	755	1595	755	645
.10	25	2455	1160	1285	2210	1045	1050	1990	940	900	1755	830	760	1570	740	645
.20	50	2450	1155	1280	2180	1030	1040	1965	925	895	1720	810	755	1535	725	645
.30	75	2445	1155	1270	2155	1015	1035	1930	910	885	1690	800	745	1500	710	645
.40	100	2440	1150	1265	2125	1005	1025	1890	890	875	1660	785	750	1470	695	640
.50	125	2430	1145	1255	2090	985	1020	1860	880	870	1620	765	745	1435	675	635
.60	150	2350	1110	1235	2040	965	1000	1810	855	855	1585	750	735	1395	660	635
.70	175	2300	1085	1210	1990	940	990	1770	835	845	1540	725	725	1345	635	620
.80	200	2220	1050	1185	1925	910	970	1715	810	830	1490	705	715	1270	600	605
.90	225	2120	1000	1140	1850	875	950	1640	775	800	1420	670	690	1200	565	590

NOTE — All air data is measured external to unit with 1 in. (25 mm) cleanable foam filter (not furnished) in place. Also see Filter Air Resistance table.

### G23Q5/6(X)-150 Blower Performance

External Static Pressure		Air Volume and Motor Watts at Specific Blower Taps														
		High			Medium-High			Medium			Medium-Low			Low		
in. w.g.	Pa	cfm	L/s	Watts	cfm	L/s	Watts	cfm	L/s	Watts	cfm	L/s	Watts	cfm	L/s	Watts
0	0	2565	1210	1430	2300	1085	1160	2055	970	970	1840	870	825	1620	765	680
.10	25	2560	1210	1420	2265	1070	1155	2020	955	960	1810	855	825	1590	750	680
.20	50	2555	1205	1410	2225	1050	1140	1980	935	955	1770	835	810	1555	735	680
.30	75	2550	1205	1400	2185	1030	1130	1935	915	945	1740	820	805	1515	715	675
.40	100	2500	1180	1380	2150	1015	1115	1900	440	935	1700	800	800	1470	695	670
.50	125	2440	1150	1365	2100	990	1105	1860	435	925	1645	775	790	1430	675	665
.60	150	2370	1120	1335	2045	965	1085	1790	430	910	1585	750	780	1380	650	660
.70	175	2300	1085	1310	1960	925	1055	1730	815	895	1530	720	770	1315	620	645
.80	200	2210	1045	1270	1920	905	1035	1640	415	875	1470	695	755	1210	570	635
.90	225	2110	995	1240	1855	875	1030	1550	730	855	1345	635	725	1100	520	625

NOTE — All air data is measured external to unit with 1 in. (25 mm) cleanable foam filter (not furnished) in place. Also see Filter Air Resistance table.

FILTER AIR RESISTANCE	
cfm (L/s)	in. w.g. (Pa)
0 (0)	0.00 (0)
200 (95)	0.01 (0)
400 (190)	0.03 (5)
600 (285)	0.04 (10)
800 (380)	0.06 (15)
1000 (470)	0.09 (20)
1200 (565)	0.12 (30)
1400 (660)	0.15 (35)
1600 (755)	0.19 (45)
1800 (850)	0.23 (55)
2000 (945)	0.27 (65)
2200 (1040)	0.33 (80)
2400 (1130)	0.38 (95)
2600 (1225)	0.44 (110)