

FEATURES

- Durable aluminized steel tubular heat exchanger
- Stainless-steel secondary heat exchanger
- Two-stage gas valve
- Hot surface ignition for dependable operation
- Quiet multi-speed ECM blower motor
- Control board with self-diagnostics and low-voltage terminal block
- Constant air volume control
- R-454B refrigerant leakage sensor adaptable
- Natural gas and propane (LP) convertible, LP kit included
- Designed for multi-position installation: Up flow and horizontal
- Industry-standard cabinet sizes for easy replacement, installation and add-on cooling
- Convenient left or right connection for gas and electric service
- Removable base for side or bottom return applications

California Only

This furnace does not meet the South Coast Air Quality Management District (SCAQMD) Rule 1111 and San Joaquin Valley Air Pollution Control District (SJVAPCD) Rule 4905 NO_x emission limit (14 ng/J) and cannot be installed within the SCAQMD or SJVAPCD and Bay Area.

SGF96T SERIES

TWO STAGE MULTI-POSITION GAS FURNACE

96% AFUE
Variable Speed



Warranty—5 years on parts and 10 years on compressor and heat exchanger.
(Limitations apply, see actual warranty for complete details.)
visit www.comfort-aire.com



MODEL NUMBER GUIDE

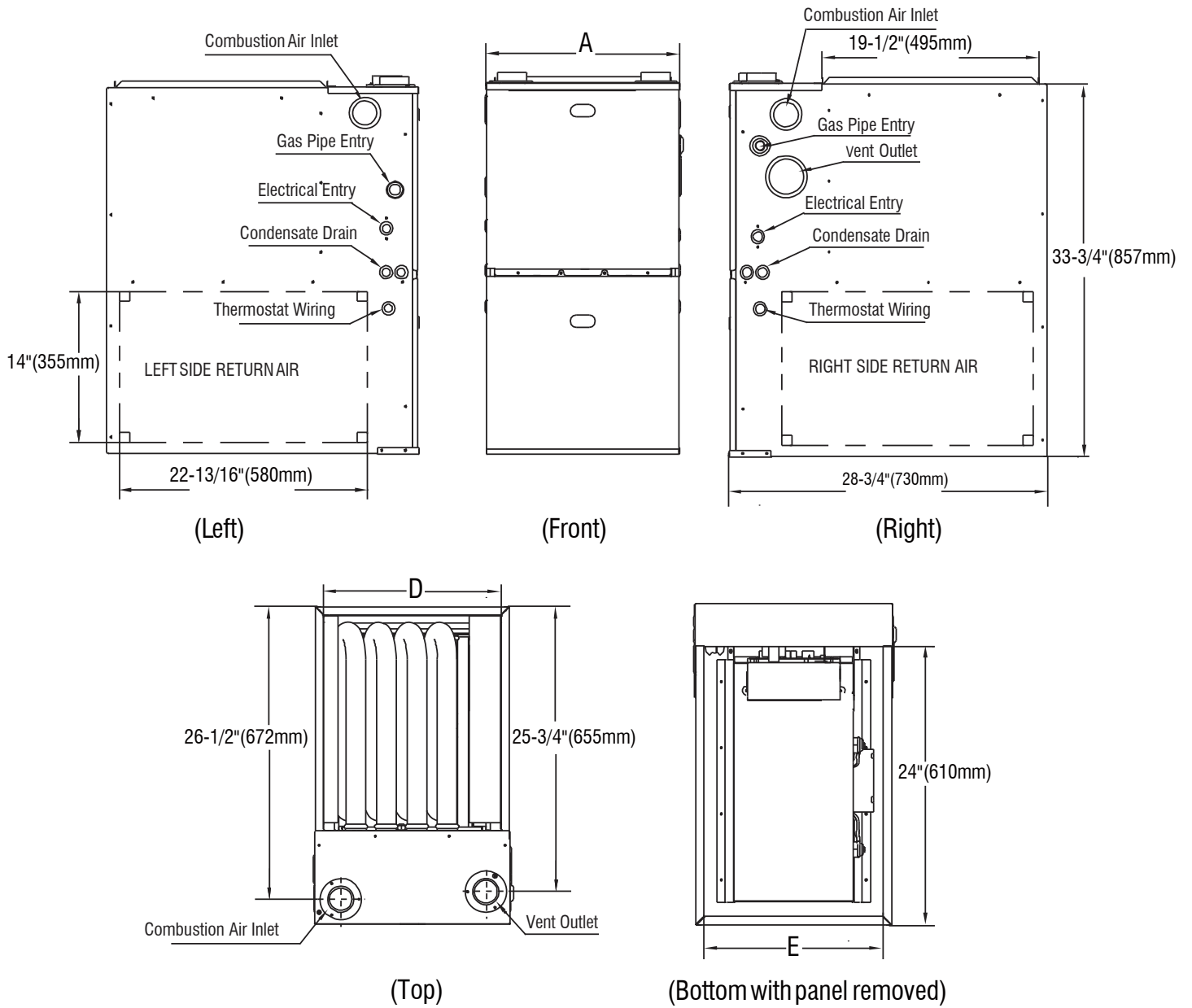
S	GF	96	T	060	B	3	S	1	A
SE Series	Gas Furnace	Efficiency %	Number of Stages: T=Two	Heating BTUH x 1000	Cabinet Width: B=17.5 in. C=21 in. D=24.5 in.	Cooling Tons	Standard Efficiency	Power 1=115-1-60	Revision Level

SPECIFICATIONS

	SGF96T060B3S1A	SGF96T080B3S1A	SGF96T080C4S1A	SGF96T100C5S1A	SGF96T100D5S1A	SGF96T120D5S1A
GAS HEATING PERFORMANCE						
High Fire Input (BTU/h)	60,000	80,000	80,000	100,000	100,000	120,000
High Fire Output (BTU/h)	57,000	76,000	76,000	95,000	95,000	115,000
Low Fire Input (BTU/h)	39,000	52,000	52,000	70,000	70,000	84,000
Low Fire Output (BTU/h)	37,000	49,000	49,000	67,000	67,000	80,500
ELECTRICAL DATA						
Voltage / Phase(60Hz)	115/1	115/1	115/1	115/1	115/1	115/1
Min. / Max. Voltage	104/127	104/127	104/127	104/127	104/127	104/127
Min. Circuit Amps	8	8	7.8	11.5	10.5	10.5
Max. Overcurrent Protection	15	15	15	20	20	20
BLOWER MOTOR						
Motor Type	ECM	ECM	ECM	ECM	ECM	ECM
Horsepower	3/4	3/4	3/4	1	1	1
Rated RPM	1050	1050	1050	1050	1050	1050
Full Load Amps (FLA)	8	8	7.8	11.5	10.5	10.5

Comfort-Cire®

DIMENSIONS



	060B3	080B3	080C4	0100C5	100D5	120D5
DIMENSIONS AND WEIGHTS						
A - Cabinet Width (in.)	17.5	17.5	21	21	24.5	24.5
D - Supply Air Width (in.)	16	16	19.5	19.5	23	23
E - Return Air Width (in.)	15-27/32	15-27/32	19-13/32	19-13/32	22-27/32	22-27/32
Net/Shipping Weight (lbs.)	130/147.5	139.5/152	151/165	153/170.5	160.5/181.5	166/187

AIRFLOW DATA CONT.

FURNACE SIZE	SPEED		External Static Pressure (in. w.c.)									
			0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9	1.0
100C	H	CFM	1752	1764	1768	1781	1774	1765	1762	1802	1792	1786
		Temp Rise-1st stage°F	--	--	--	--	--	--	--	--	--	--
		Temp Rise-2nd stage°F	47.5	47.3	47.3	47.0	47.3	47.0	47.7	46.8	47.2	47.4
	MH	CFM	1512	1506	1536	1523	1514	1509	1529	1551	1565	1532
		Temp Rise-1st stage°F	38.6	38.8	38.1	38.5	38.8	39.0	38.6	38.1	37.	38.8
		Temp Rise-2nd stage°F	54.8	55.1	54.1	54.6	55.1	55.3	54.7	54.0	53.6	54.8
	M	CFM	1354	1354	1362	1370	1357	1381	1389	1394	1416	1383
		Temp Rise-1st stage°F	42.9	43.0	42.8	42.6	43.1	42.4	42.3	42.2	41.7	42.7
		Temp Rise-2nd stage°F	61.1	61.1	60.8	60.6	61.2	60.3	60.0	59.9	59.0	60.5
	ML	CFM	1165	1165	1176	1164	1185	1190	1186	1205	1174	1199
		Temp Rise-1st stage°F	49.7	49.7	49.3	49.9	49.2	49.0	49.2	48.6	49.9	49.0
		Temp Rise-2nd stage°F	--	--	--	--	--	--	--	--	--	--
	L	CFM	994	1025	1018	1024	1032	1026	1035	988	1005	1041
		Temp Rise-1st stage°F	58.1	56.4	56.9	56.6	56.3	56.7	56.3	59.0	58.1	56.2
		Temp Rise-2nd stage°F	--	--	--	--	--	--	--	--	--	--
100D	H	CFM	1926	1926	1931	1943	1936	1941	1960	1974	2015	2043
		Temp Rise-1st stage°F	--	--	--	--	--	--	--	--	--	--
		Temp Rise-2nd stage°F	43.2	43.3	43.2	43.1	43.3	43.3	42.9	42.7	42.0	41.6
	MH	CFM	1746	1752	1749	1748	1749	1763	1771	1776	1794	1791
		Temp Rise-1st stage°F	--	--	--	--	--	--	--	--	--	--
		Temp Rise-2nd stage°F	47.5	47.4	47.6	47.7	47.7	47.4	47.3	47.2	46.9	47.0
	M	CFM	1488	1525	1525	1515	1528	1546	1501	1525	1546	1544
		Temp Rise-1st stage°F	39.0	38.2	38.2	38.6	38.3	37.9	39.1	38.6	38.2	38.3
		Temp Rise-2nd stage°F	55.6	54.3	54.4	54.8	54.4	53.9	55.5	54.7	54.1	54.2
	ML	CFM	1348	1374	1341	1383	1381	1385	1408	1404	1400	1401
		Temp Rise-1st stage°F	43.0	42.3	43.3	42.1	42.2	42.2	41.6	41.8	42.0	42.0
		Temp Rise-2nd stage°F	61.2	60.2	61.7	59.9	60.1	60.0	59.1	59.3	59.6	59.6
	L	CFM	1163	1186	1164	1167	1174	1178	1182	1129	1163	1172
		Temp Rise-1st stage°F	49.7	48.8	49.8	49.7	49.5	49.4	49.3	51.7	50.3	50.0
		Temp Rise-2nd stage°F	--	--	--	--	--	--	--	--	--	--
120D	H	CFM	1926	1933	1915	1923	1916	1929	1971	1941	2036	1998
		Temp Rise-1st stage°F	--	--	--	--	--	--	--	--	--	--
		Temp Rise-2nd stage°F	51.8	51.7	52.2	52.1	52.4	52.1	51.1	520	4938	50.7
	MH	CFM	1721	1747	1716	1749	1760	1768	1778	1783	1747	1788
		Temp Rise-1st stage°F	--	--	--	--	--	--	--	--	--	--
		Temp Rise-2nd stage°F	57.8	57.0	58.1	57.1	56.8	56.6	56.4	56.3	57.5	56.4
	M	CFM	1489	1497	1503	1504	15074	1488	1496	1518	1519	1568
		Temp Rise-1st stage°F	46.7	46.6	46.4	46.5	46.5	47.1	47.0	46.4	46.4	45.1
		Temp Rise-2nd stage°F	66.5	66.3	66.1	66.1	66.1	67.0	66.7	65.8	65.9	64.0
	ML	CFM	1384	1360	1365	1384	1382	1383	1379	1401	1421	1414
		Temp Rise-1st stage°F	50.2	51.1	51.0	50.4	50.6	50.6	50.8	50.1	49.5	49.9
		Temp Rise-2nd stage°F	--	--	--	--	--	--	--	--	--	--
	L	CFM	1165	1175	1162	1158	1158	1184	1186	1204	1201	1185
		Temp Rise-1st stage°F	59.5	59.0	59.8	60.0	60.1	58.9	58.9	58.1	58.4	59.2
		Temp Rise-2nd stage°F	--	--	--	--	--	--	--	--	--	--

A filter is required for each return-air inlet. Airflow performance included 3/4-in. (19 mm) washable filter media such as contained in factory-authorized accessory filter rack. To determine airflow performance with this filter, assume an additional 0.1 in.w.c available external static pressure.

COMBUSTION SYSTEM SPECIFICATIONS

Model			060A3	060B4	080B4	080C4	100C5	120D5
Max. Inlet Gas Press	Natural Gas	in.w.c	10.5	10.5	10.5	10.5	10.5	10.5
	Propane Gas (LP)	in.w.c	13	13	13	13	13	13
Min. Inlet Gas Press	Natural Gas	in.w.c	4.5	4.5	4.5	4.5	4.5	4.5
	Propane Gas (LP)	in.w.c	11	11	11	11	11	11
Natural Gas Manifold Pressure(High fire)		in.w.c	3.5	3.5	3.5	3.5	3.5	3.5
Natural Gas Manifold Pressure(Low fire)		in.w.c	1.6	1.6	1.6	1.6	1.6	1.6
Propane Gas Manifold Pressure(High fire)		in.w.c	10	10	10	10	10	10
Propane Gas Manifold Pressure(Low fire)		in.w.c	4	4	4	4	4	4
Natural Gas Factory Orifice (0-2000 feet)		#	45	45	45	45	45	45
Propane Gas (LP) Factory Orifice (0-2000 feet)		#	55	55	55	55	55	55
Gas Connection Size		in. NPT	1/2	1/2	1/2	1/2	1/2	1/2
Igniton Device			Hot surface					
Number of Burners		#	3	4	4	5	5	6
Flue Vent Diameter		Inch	2"/3"	2"/3"	2"/3"	2"/3"	2"/3"	3"
Safety Switch Settings								
Pressure Switch Factory Setting		High	in.w.c	1.1	1.1	1.1	1.1	1.1
Pressure Switch Factory Setting		Low	in.w.c	0.55	0.55	0.55	0.55	0.55
Rollout switch - resettable		Off/On	°F	300	300	300	300	300
Inlet High Temperature Limit switch - fixed		Off/On	°F	150/120	150/120	150/120	150/120	150/120

HIGH ALTITUDE DERATE ORIFICE SIZE CHART (NATURAL AND LP GAS*)U.S. INSTALLATION

Input Rate KBTU/H	Number of Burners	Elevation(Ft)									
		0-2000		2000-4000		4000-6000		6000-8000		8000-10000	
		Nat	LP	Nat	LP	Nat	LP	Nat	LP	Nat	LP
60	3	45	55	47	56	48	57	49	58	50	59
80	4	45	55	47	56	48	57	49	58	50	59
100	5	45	55	47	56	48	57	49	58	50	59
120	6	45	55	47	56	48	57	49	58	50	59

NOTE: *LP orifice based on 10in.w.c manifold pressure
The input to the furnace must be checked AFTER reorificing

HIGH ALTITUDE DERATE ORIFICE SIZE CHART (NATURAL AND LP GAS*)CANADA INSTALLATION

Input Rate KBTU/H	Number of Burners	Elevation(Ft)									
		0-2000		2000-4000		4000-6000		6000-8000		8000-10000	
		Nat	LP	Nat	LP	Nat	LP	Nat	LP	Nat	LP
60	3	45	55	47	56	48	57	49	58	50	59
80	4	45	55	47	56	48	57	49	58	50	59
100	5	45	55	47	56	48	57	49	58	50	59
120	6	45	55	47	56	48	57	49	58	50	59

NOTE: *LP orifice based on 10in.w.c manifold pressure
The input to the furnace must be checked AFTER reorificing
For Canada application, based on regulation that requires
10% derating between 2000-4500ft. Orifice change is
NOT required up to 4500ft.



Comfort-Cire®

"This product complies with all California product labeling laws including, but not limited to, the Safe Drinking Water and Toxic Enforcement Act of 1986, more commonly known as Proposition 65."

Due to ongoing product improvements, specifications and dimensions are subject to change and correction without notice or incurring obligations. Determining the application and suitability for use of any product is the responsibility of the installer. Additionally, the installer is responsible for verifying dimensional data on the actual product prior to beginning any installation preparations. Third party incentive and rebate programs have precise requirements as to product performance and certification. All products meet applicable regulations in effect on date of manufacture; however, certifications are not necessarily granted for the life of a product. Therefore, it is the responsibility of the applicant to determine whether a specific model qualifies for these incentive/rebate programs.