



HEATING & COOLING

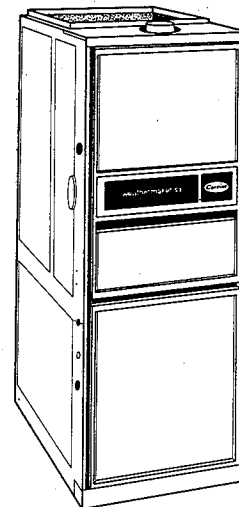
Deluxe High-Efficiency Gas-Fired Condensing Furnaces

58SX

Output 40,000–122,000 Btuh

AFUE* up to 97.3%

*Annual Fuel Utilization Efficiency.



A87197

Product Data

Features

- Capacities range from 40,000 through 122,000 Btuh heating output with up to 97.3% AFUE for economical fuel usage.
- All units have a California Seasonal Efficiency Rating of 86% and up.
- Electronic pilot ignition eliminates standing pilot to enhance fuel economy.
- Direct vent sealed combustion system—Model 58SX uses 100% outdoor air, which results in especially quiet operation. Direct venting also minimizes the possibility of chloride contamination which can result in heat exchanger corrosion. Also reduces air infiltration into the home.
- 20-year limited warranty on both primary and condensing heat exchangers; your Carrier dealer has the details.
- Printed-circuit board virtually eliminates wiring errors at installation, reducing time and cost.
- Monoport burners are finely tuned for smooth, quiet combustion plus economical gas usage.

- Exceeds California Energy Commission Seasonal Efficiency requirements of 71%.
- Lo NOx burners meet South Coast Air Quality District and Bay Area Air Quality District NOx requirements.

Accessories

- Vent terminal kit (required on all installations)
- Natural gas to propane conversion kit* (not for use with 110, 120 Series furnaces)
- Propane to natural gas conversion kit
- Twinning kit for some sizes (consult Carrier dealer)
- Side filter rack
- Cold air return plenum
- Analyzer
- Cooling coils
- Humidifier
- Electronic air cleaner
- Thermostats

*Not available for 58SX040-BC.

→ Performance data

MODEL 58SX	040-BC	040-CC	060-CC	080-BC	080-CC	100-CC	100-DC	120-CC
INPUT (Btuh)*	41,000	44,000	66,000	88,000	88,000	110,000	110,000	132,000
OUTPUT CAPACITY (Btuh)†	40,000	41,000	61,000	82,000	82,000‡	102,000	102,000‡	122,000
TEMP RISE RANGE (F)	15-45	20-50	30-60	45-75	35-65	45-75	50-80	50-80
AFUE%†	97.3				92.2			
California Seasonal Efficiencies (CSE)	89.8	86.0	87.2	88.3	87.8‡	88.1	87.9‡	89.1
EXT STATIC PRESSURE (in. wc)								
Heating	0.10	0.10	0.12	0.15			0.20	
Cooling	0.4				0.5			
AIRFLOW (Cfm)								
Heating	1265	1310	1290	1380	1625	1565	2040	2005
Cooling	1185	1160	1205	1235	1630	1670	1970	1945

*Ratings shown are for elevations up to 2000 feet. For elevations above 2000 ft, rating should be reduced at the rate of 4% for each 1000 ft above sea level.

†Determined by U.S. Government tests.

‡Tentative.

MEETS DOE RESIDENTIAL CONSERVATION SERVICES PROGRAM STANDARDS. Before purchasing this appliance, read important energy cost and efficiency information available from your retailer.



Directory Listed



→ AIR DELIVERY (Cfm)

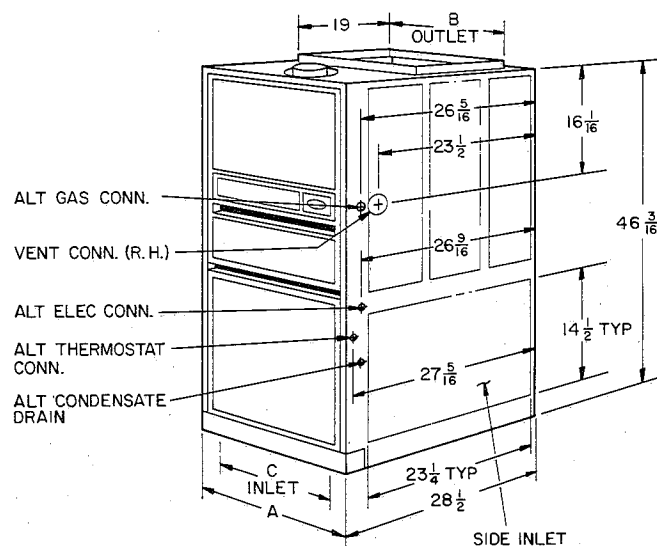
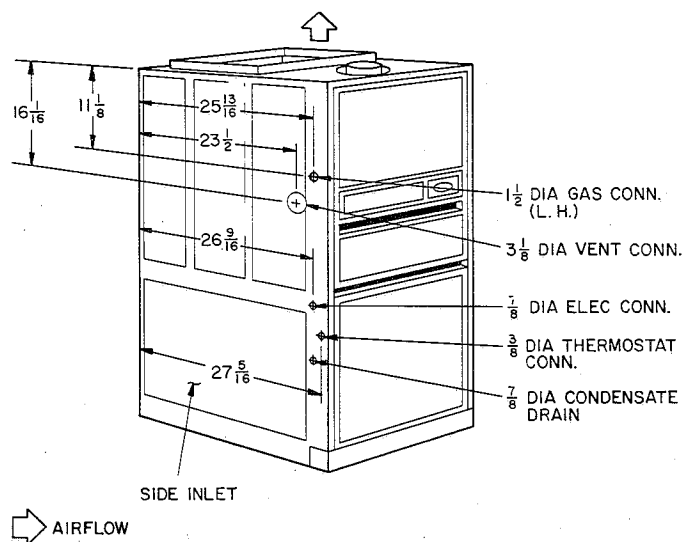
MODEL 58SX	SPEED	EXTERNAL STATIC PRESSURE (in. wc)						
		0.1	0.2	0.3	0.4	0.5	0.6	0.7
040-BC	High	1430	1370	1305	1240	1185	1130	1025
	Med-High	1265	1205	1155	1110	1070	975	885
	Med-Low	1040	1005	980	960	925	840	790
	Low	885	870	855	810	790	740	680
040-CC	High	1420	1390	1345	1270	1160	1050	920
	Med-High	1310	1285	1255	1210	1135	1030	890
	Med-Low	1270	1260	1175	1080	995	875	780
	Low	1145	1115	1040	960	880	810	695
060-CC	High	1430	1375	1335	1275	1205	1140	1060
	Med-High	1300	1260	1215	1175	1125	1065	980
	Med-Low	1095	1075	1055	1025	980	935	865
	Low	940	925	915	900	865	820	745
080-BC	High	1525	1460	1395	1320	1240	1145	1020
	Med-High	1410	1355	1300	1240	1160	1065	940
	Med-Low	1230	1200	1160	1110	1050	965	855
	Low	1095	1075	1050	1015	955	890	760

MODEL 58SX	SPEED	EXTERNAL STATIC PRESSURE (in. wc)						
		0.1	0.2	0.3	0.4	0.5	0.6	0.7
080-CC	High	1915	1860	1790	1705	1630	1535	1415
	Med-High	1775	1660	1580	1535	1465	1385	1270
	Med-Low	1375	1370	1365	1345	1300	1220	1120
	Low	1115	1155	1170	1165	1130	1080	925
100-CC	High	1925	1855	1805	1735	1670	1575	1480
	Med-High	1600	1565	1535	1500	1460	1385	1305
	Med-Low	1285	1275	1275	1255	1230	1170	1105
	Low	1045	1060	1070	1070	1055	1020	955
100-DC	High	2285	2215	2140	2065	1970	1860	1745
	Med-High	2075	2040	1985	1920	1815	1725	1665
	Med-Low	1775	1750	1725	1690	1635	1565	1490
	Low	1525	1520	1490	1470	1435	1405	1310
120-CC	High	2205	2175	2110	2025	1945	1855	1715
	Med-High	2120	2005	1960	1875	1820	1730	1600
	Med-Low	1835	1825	1785	1750	1710	1610	1520
	Low	1700	1685	1670	1645	1605	1510	1415

→ Physical data

MODEL 58SX	040-BC	040-CC	060-CC	080-BC	080-CC	100-CC	100-DC	120-CC
SHIPPING WEIGHT (lb)	217	170	177	190	195	221	228	263
LIMIT CONTROL	Single Pole, Single Throw							
HEATING BLOWER CONTROL	Solid State, Time Operated							
BURNERS (Monoport)	2	2	3	4	4	5	5	6
GAS CONNECTION SIZE	1/2-in. NPT							
GAS VALVE (Redundant)								
Min Inlet Pressure (in. wc)	4.5							
Max Inlet Pressure (in. wc)	13.6							
PILOT SAFETY	740A							
BLOWER	Direct-Drive, 4-Speed, Permanent Split Capacitor							
Hp								
Wheel Diameter x Width (in.)	1/2 11 x 7		1/3 10 x 7		1/2 10 x 8		3/4 11 x 10	1/2 (2) 10 x 6
FILTER SIZE	Washable							
L x W x Depth (in.)	15-7/8 x 27-3/4 x 1				19-3/8 x 27-3/4 x 1			22-7/8 x 27-3/4 x 1

Dimensions (in.)



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MODEL 58SX	A	B x 19	C x 26	VENT CONNECTION
040-BC	17-1/2	15-7/8	15	2-1/2
040-CC				2-1/2
060				2-1/2
080				2-1/2
100	21	19-3/8	18-1/2	2-1/2
120	24-1/2	22-7/8	22	2-1/2

NOTE: The unit is shipped with a 2-1/2- x 2-1/2-in. rubber coupling. Optional couplings size 3 x 2-1/2 in. and 2-1/2 x 2 in., are available through the Replacement Parts department. See unit Parts Replacement Guide for the part number.

CLEARANCES (in.)

MODEL 58SX	ALL
PLENUM CLEARANCE TOP	1
Unit Clearance Back	0
Unit Clearance Side	0
Unit Clearance Front	3
Front Service Clearance	30
Vent Clearance	0

Electrical data

MODEL 58SX	040-BC	040-CC	060-CC	080-BC	080-CC	100-CC	100-DC	120-CC
VOLTS-PHASE-HZ	115-1-60							
TRANSFORMER (24 v)	40 va							
MIN WIRE SIZE	14 AWG							
MAX FUSE SIZE	15 Amps							
EXTERNAL CONTROL POWER AVAILABLE								
Heating	24 va							
Cooling	37 va							
AIR CONDITIONING BLOWER RELAY	Standard							
BLOWER MOTOR								
Full Load Amps	9.4		6.6		9.4		11.1	9.0
Rpm (Nominal)	1075							

Manufacturer reserves the right to discontinue, or change at any time, specifications or designs without notice and without incurring obligations.