

Number One
Air Conditioning
Maker

Carrier

Advance Product Data **58SC**

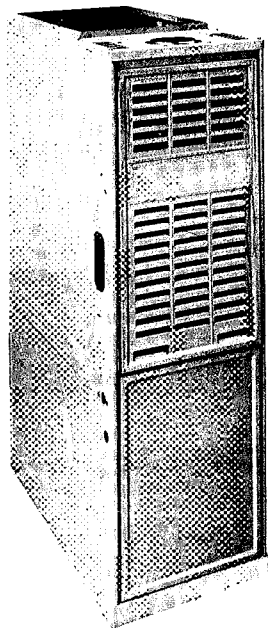
Division of
Carrier Corporation

Carrier Parkway • Syracuse, N.Y. 13221

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A. G. A. DESIGN CERTIFIED

- FEATURES -



CARRIER PRESENTS THE MODEL 58SC STANDARD LINE OF INDUCED DRAFT UP FLOW FURNACES. THEY INCORPORATE A NEW FOUR PASS HEAT EXCHANGER, INSHOT BURNERS AND MANY SAFETY FEATURES.

THE 58SC LINE ACHIEVES THE HIGHEST ANNUAL FUEL UTILIZATION EFFICIENCY (A. F. U. E.) RATING AVAILABLE TODAY IN A STANDARD LINE, NONCONDENSING, INDUCED DRAFT FURNACE. LOW INITIAL COST, EASY TO INSTALL AND SERVICE PROVIDES A SHORT PAYBACK TIME. A CLASS AHEAD OF THE COMPETITION DESIGNED FOR THE OVERALL PERFORMANCE AND RELIABILITY NEEDED IN TODAY'S NEW HOMES.

MEETS CALIFORNIA REQUIREMENTS - BOTH EFFICIENCY STANDARDS AND OXIDES OF NITROGEN (NO, NO_x) REQUIREMENTS CAN BE ACHIEVED WITH THE 58SC. JANUARY 1984 IS EFFECTIVE DATE OF NO_x REQUIREMENTS.

ELECTRONIC IGNITION - FUEL SAVINGS INTERMITTENT IGNITION WITH REDUNDANT GAS VALVE.

MONOPORT INSHOT BURNERS - PRODUCE BETTER GAS TO AIR MIXTURE WHICH BURNS CLEANER THAN HARD TO CONTROL MULTI-PORT BURNERS.

FOUR PASS "SUPER S" HEAT EXCHANGER - UNIQUE DESIGN PROVIDES ACCELERATED HEAT TRANSFER. LESS HEAT LOST UP THE FLUE. 10 YEAR LIMITED WARRANTY.

BUILT IN EXTRA SAFETY - IN ADDITION TO A BLOWER DOOR SAFETY, ALL 58SC'S INCLUDE (1) A DRAFT SAFE-GAUGE SWITCH THAT DETECTS FLUE BLOCKAGE AND DOWN DRAFTS. (2) A PRESSURE SWITCH TO PROVE COMBUSTION AIR FLOW BEFORE BURNER IGNITION.

PRINTED-CIRCUIT CONTROL CENTER - AND ALL INTERNAL WIRING AND ALL INTERNAL WIRING FACTORY INSTALLED. LOW VOLTAGE TERMINALS PERMIT QUICK-CONNECTIONS TO THERMOSTAT AND AIR CONDITIONER

WRAP-AROUND CASING - ONE PIECE WELDED CONSTRUCTION ELIMINATES CASING NOISE. FOIL FACED INSULATION IN HEAT LOSS. LOW PROFILE, ONLY 46-3/16 INCHES HIGH. POWDER COATED EXTERIOR PAINT FOR BEAUTY AND DURABILITY.

Book	1	4
Tab	6a	8a

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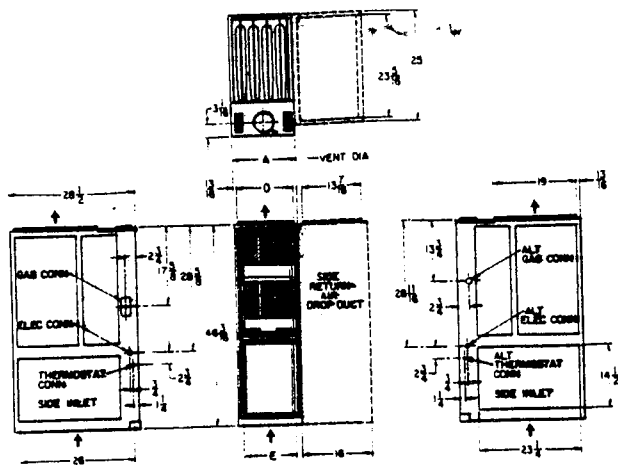
PC 101

Form 58SC-1APD New

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

Catalog No. 525-817

Printed in U.S.A.



DIMENSIONS (IN INCHES)

SIZE	A	D	E	VENT
58SC				
040 - BA	14 3/16	12 9/16	11 11/16	4
040 - CA	14 3/16	12 9/16	11 11/16	4
060 - BA	14 3/16	12 9/16	11 11/16	4
060 - CA	14 3/16	12 9/16	11 11/16	4
080 - BA	17 1/2	15 7/8	15	4
080 - CA	21	19 3/8	18 1/2	4
100 - CA	21	19 3/8	18 1/2	4
100 - DA	24 1/2	22 7/8	22	4
120 - CA	24 1/2	22 7/8	22	5

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CLEARANCES (In Inches)

Size	040 & 060	080 thru 120
Sides—Single-Wall Vent	1	0
Type-B1 Double-Wall Vent	0	0
Back	0	0
Top of Plenum	1	1
Vent Connector—Single-Wall	6	6
Type-B1 Double-Wall	1	1
Front—Single-Wall Vent	6	6
Type-B1 Double-Wall Vent	3	3
Service	30	30

SPECIFICATIONS

SIZE	040 - BA**	040 - CA	060 - BA**	060 - CA
RATINGS AND PERFORMANCE				
Input Btuh*	48,000	48,000	71,000	71,000
Output Capacity †	N/A	39,000	N/A	58,000
AFUE% ‡	N/A	81.0	N/A	81.0
Certified Temperature Rise Range °F	N/A	25-55	N/A	45-75
Certified External Static Pressure	0.5	0.5	0.5	0.5
Airflow Ft ³ /Min†	Heating N/A	1020	N/A	1010
	Cooling N/A	1160	N/A	1160

ELECTRICAL

Unit Volts-Hertz-Phase	120-60-1
Minimum Wire Size	14
Maximum Fuse Size	15
Transformer (24-V)	40VA
External Control	Heating 24VA
Power Available	Cooling 37VA
Air-Conditioning Blower Relay	Std.

CONTROLS

Limit Control	SPST
Heating Blower Control	Solid State Time Operation
Burners (Monoport)	2
Gas Connection Size	1/2-inch NPT

GAS CONTROLS

Gas Valve (Redundant)	Model 646A-X
Min Inlet Pressure	4.5 inches wc
Max Inlet Pressure	13.6 inches wc
Pilot Safety (Non-100% Shutoff)	Model 733B

BLOWER DATA

Direct-Drive Motor HP-Type	N/A	1/3-PSC	N/A	1/3-PSC
Motor Full Load Amps	N/A	8.0	N/A	8.0
RPM (Nominal)-Speeds	N/A	1050-4	N/A	1050-4
Blower Wheel Diameter x Width	N/A	10 x 6	N/A	10 x 6
Filter Size-Permanent Washable		15-7/8 x 27-3/4 x 1		

DEALER-INSTALLED OPTIONS

Side Filter Rack (Less Filter)	58SE-900-131	(Filter Size 16 x 25 x 11)
Return Filter Cabinet (Less Filters)	58GA-900-051	(Filter Size 2-20 x 25 x 1)
Bottom Closure	58SE-900-021	

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

† Capacity in accordance with U.S. government DOE test procedures (tentative ratings).

‡ Air delivery above 1800 Ft³/Min requires that both sides of furnace be used, or a combination of one side and bottom, or bottom only.

**Scheduled for December 1983 introduction.

AIR DELIVERY-FT³/MIN (WITH FILTER)*

FURNACE SIZE	BLOWER MOTOR HP	SPEED	EXTERNAL STATIC PRESSURE IN. WC						
			0.1	0.2	0.3	0.4	0.5	0.6	0.7
* 040-BA	1/3 PSC	HIGH	N/A	N/A	N/A	N/A	N/A	N/A	N/A
		MED-HIGH	N/A	N/A	N/A	N/A	N/A	N/A	N/A
		MED-LOW	N/A	N/A	N/A	N/A	N/A	N/A	N/A
		LOW	N/A	N/A	N/A	N/A	N/A	N/A	N/A
040-CA	1/3 PSC	HIGH	1370	1325	1275	1220	1160	1080	1000
		MED-HIGH	1195	1165	1125	1085	1030	965	895
		MED-LOW	1020	1000	975	945	910	860	795
		LOW	885	870	850	825	795	750	695
* 060-BA	1/3 PSC	HIGH	N/A	N/A	N/A	N/A	N/A	N/A	N/A
		MED-HIGH	N/A	N/A	N/A	N/A	N/A	N/A	N/A
		MED-LOW	N/A	N/A	N/A	N/A	N/A	N/A	N/A
		LOW	N/A	N/A	N/A	N/A	N/A	N/A	N/A
060-CA	1/3 PSC	HIGH	-	1280	1260	1210	1160	1100	1010
		MED-HIGH	-	1140	1120	1095	1055	995	930
		MED-LOW	1010	1000	985	960	925	-	-
		LOW	920	915	900	880	850	-	-
080-BA	1/3 PSC	HIGH	-	1290	1290	1280	1230	1170	1100
		MED-HIGH	-	1150	1150	1140	1100	1045	970
		MED-LOW	1030	1020	1020	1005	975	-	-
		LOW	910	905	890	875	850	-	-
080-CA	1/3 PSC	HIGH	1870	1800	1720	1635	1545	1440	1325
		MED-HIGH	1610	1580	1540	1480	1410	1335	1240
		MED-LOW	1340	1340	1320	1280	1240	1165	1075
		LOW	1105	1120	1120	1105	1075	1030	980
100-CA	1/2 PSC	HIGH	1835	1765	1685	1600	1515	1420	1320
		MED-HIGH	1610	1575	1535	1480	1410	1335	1240
		MED-LOW	1375	1365	1350	1325	1280	1220	1135
		LOW	1195	1210	1210	1195	1160	1115	1055
100-DA	1/2 PSC	HIGH	2335	2330	2315	2285	2230	2160	2050
		MED-HIGH	2115	2130	2120	2100	2060	1990	1890
		MED-LOW	1960	1990	1990	1980	1925	1865	-
		LOW	-	1710	1720	1700	1650	1555	-
120-CA	1/2 PSC	HIGH	2185	2195	2185	2150	2100	2030	1940
		MED-HIGH	2050	2040	2020	1985	1925	1850	-
		MED-LOW	1815	1825	1825	1810	1790	-	-
		LOW	1685	1690	1680	1660	1625	-	-

* Air delivery above 1800 Ft³/Min requires that both sides of furnace be used, or a combination of one side and bottom, or bottom only.

1 N/A - Data not available at time of printing. Models scheduled for December 1983 introduction.

SPECIFICATIONS

SIZE	080-BA	080-CA	100-CA	100-DA	120-CA
RATINGS & PERFORMANCE					
Input Btuh*	95,000	95,000	119,000	119,000	143,000
Output Capacity †	78,000	78,000	98,000	98,000	117,000
AFUE % ‡	81.0	81.0	81.0	81.0	81.0
Certified Temperature Rise Range °F	60-90	45-75	60-90	40-70	45-75
Certified External Static Pressure	0.5	0.5	0.5	0.5	0.5
Airflow ft³/Min †	Heating 1025 Cooling 1230	1340 1545	1365 1515	1990 2230	1825 2100
ELECTRICAL					
Unit Volts-Hertz-Phase			120-60-1		
Minimum Wire Size			14		
Maximum Fuse Size			15		
Transformer (24-V)			40VA		
External Control	Heating		24VA		
Power Available	Cooling		37VA		
Air-Conditioning Blower Relay			Std		
CONTROLS					
Limit Control			SPST		
Heating Blower Control			Solid-State Time Operation		
Burners (Monoport)	4		5	6	
Gas Connection Size			1/2-inch NPT		
GAS CONTROLS					
Gas Valve (Redundant)			Model 646A-X		
	Min Inlet Pressure		4.5 inches wc		
	Max Inlet Pressure		13.6 inches wc		
Pilot Safety (Non-100% Shutoff)			Model 733B		
BLOWER DATA					
Direct-Drive Motor HP-Type	1/3-PSC	1/2-PSC	1/2-PSC	1/2-PSC	1/2-PSC
Motor Full Load Amps	8.0	9.0	9.0	10.5	10.5
RPM (Nominal)-Speeds	1050-4	1050-4	1050-4	1050-4	1050-4
Blower Wheel Diameter x Width	10 x 7	10 x 8	10 x 8	(2) 10 x 6	(2) 10 x 6
Filter Size-Permanent Washable	15-7/8 x 27-3/4 x 1	19-1/2 x 27-3/4 x 1	22-7/8 x 27-3/4 x 1		
OPTIONAL INSTALLED OPTIONS					
Side Filter Rack (Less Filter)			58SE-900-131 (Filter Size 16 x 25 x 1)		
Return Filter Cabinet (Less Filters)			58GA-900-051 (Filter Size 2-20 x 25 x 1)		
Bottom Closure	58SE-900-031	58SE-900-041	58SE-900-051		

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

† Capacity in accordance with U.S. Government DOE test procedures (tentative rating).

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**MEETS DOE RESIDENTIAL
CONSERVATION SERVICES
PROGRAM STANDARDS.**

Before purchasing this appliance,
read important energy cost and
efficiency information available
from your retailer.

DIMENSIONAL DRAWINGS OF OPTIONAL RETURN-AIR FILTER CABINET AND SIDE FILTER RACK

