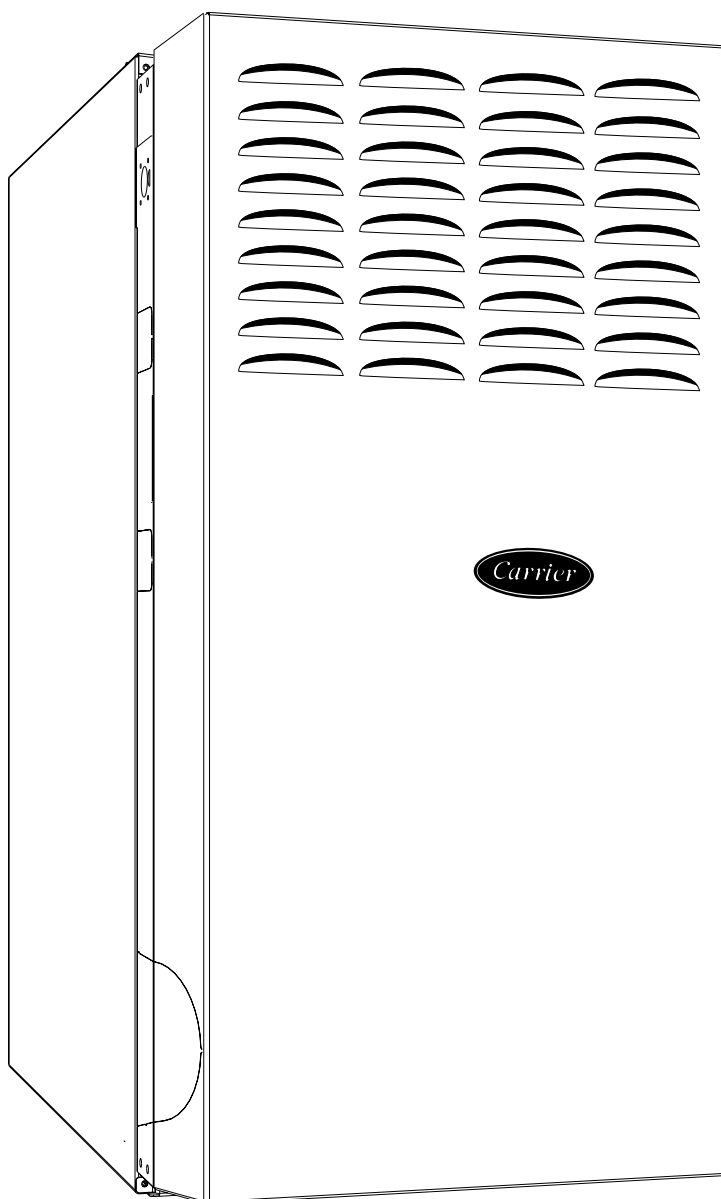




Product Data

58STA/STX 4-Way Multipoise Induced-Combustion Gas Furnace

Input Capacities:
45,000 thru 155,000 Btuh



A02177

THE CARRIER 58STA/STX GAS FURNACE

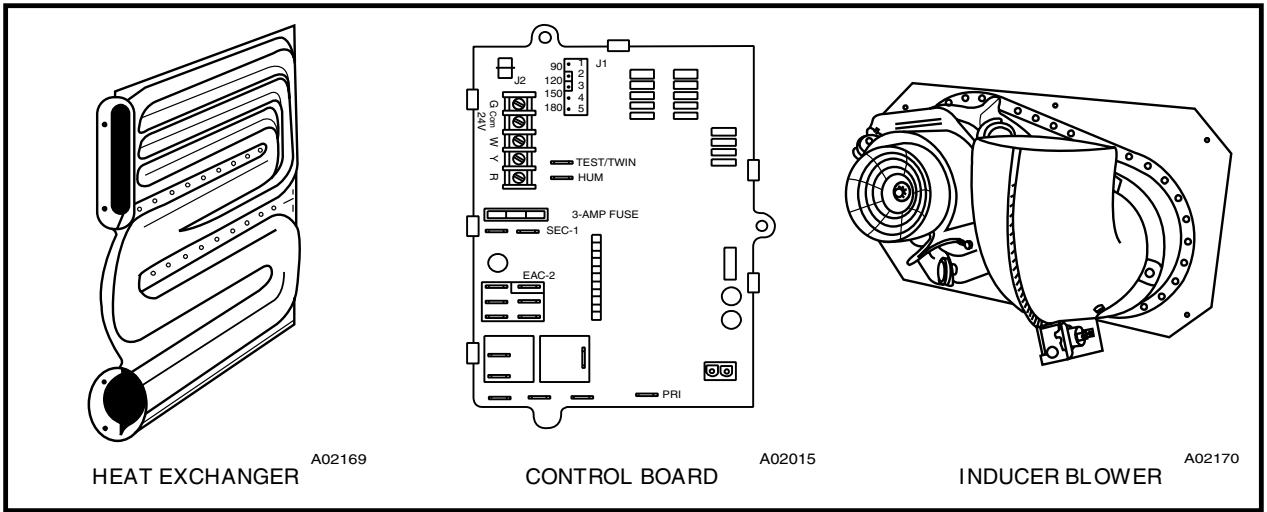
The 58STA/STX 4-way Multipoise Gas Furnaces feature Carrier's QuietTech™ noise reduction system for incredibly quiet induced draft operation. Applications are easy with 4-way multipoise design, through-the-furnace downflow venting, 13 different venting options, and a door designed for easy service access. An inner blower door is provided for tighter sealing in sensitive applications. The 58STA/STX furnaces are approved for use with natural or propane gas, and the 58STX is approved for use in Low NOx Air Management Districts.

STANDARD FEATURES

- QuietTech noise reduction system
- Microprocessor based control center
 - Adjustable heating air temperature rise
 - Adjustable cooling airflow
 - LED diagnostics and self test feature
- 4-way Multipoise furnace, 13 vent applications
- Only 33-1/3" tall
- Inner blower door
- Hot surface ignition (HSI)
- Draft safeguard switch to ensure proper furnace venting
- Heat pump compatible
- Residential installations eligible for consumer financing through the Retail Credit Program

LIMITED WARRANTY

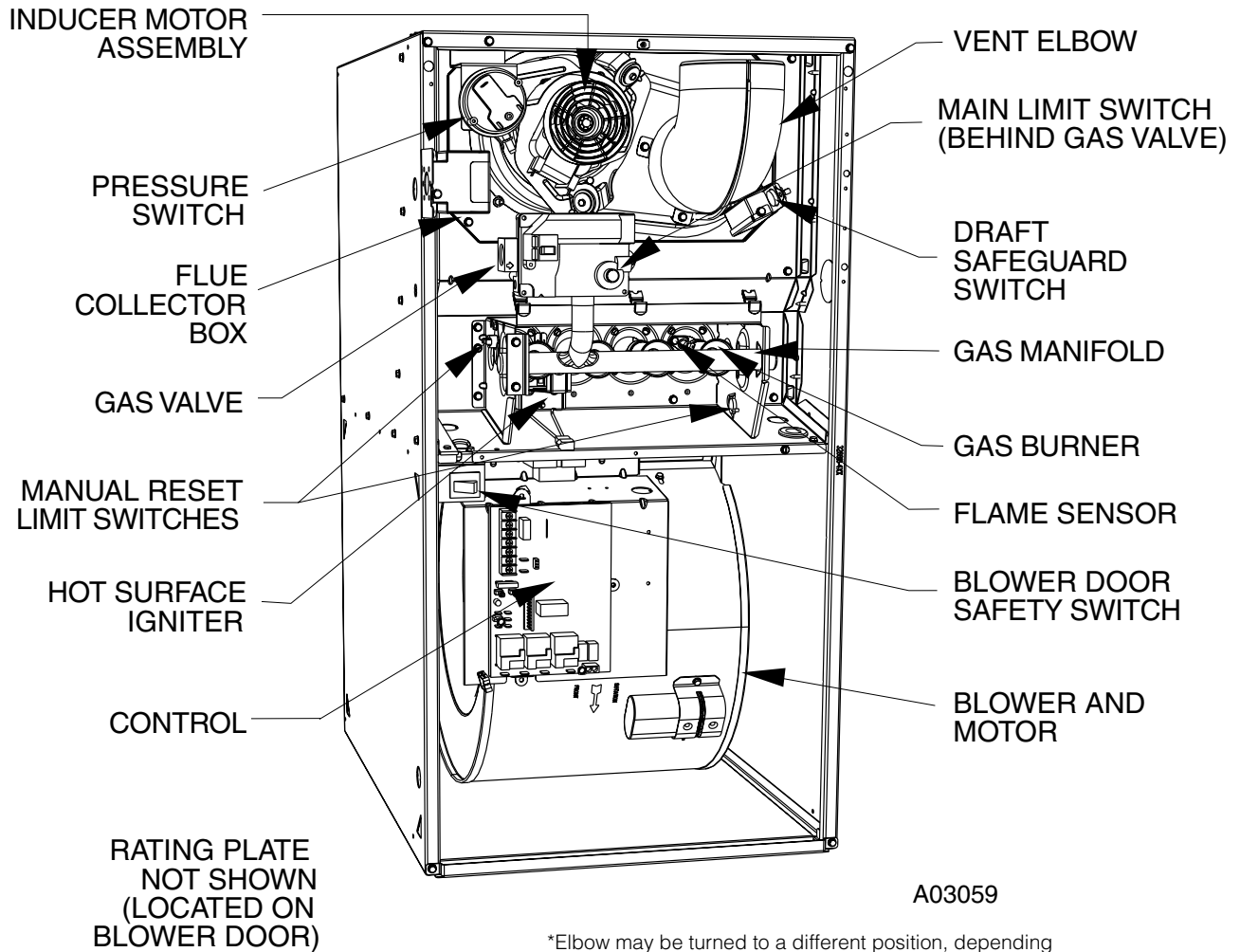
- 20-year warranty on "Super ST™" heat exchanger
- 5-year parts warranty on all other components



Model number nomenclature

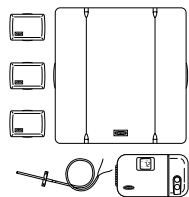
58STA 4-Way Multipoise 58STX Low NOx version	045	100	08 Nominal Cooling Size (Airflow at .5 e.s.p.) (400 CFM per 12,000 Btuh) 08 — 800 CFM 12 — 1200 CFM 14 — 1400 CFM 16 — 1600 CFM 20 — 2000 CFM 22 — 2200 CFM
Input Capacity 045 — 44,000 Btuh 110 — 110,000 Btuh 070 — 66,000 Btuh 135 — 132,000 Btuh 090 — 88,000 Btuh 155 — 154,000 Btuh			Series Number

FURNACE COMPONENTS



NOTE: The 58STA/STX Furnaces are factory shipped for use with natural gas. These furnaces can be field-converted for propane gas with a factory-authorized and listed accessory conversion kit.

Carrier accessories*

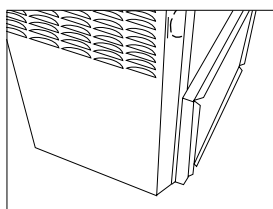


A97432

CONTROLS: THERMOSTATS AND ZONING

Available in programmable and non-programmable models, Carrier thermostats maintain a constant, comfortable temperature level in the home.

For the ultimate in home comfort, Carrier's 2, 4, and 8-zone systems allow temperature control of individual "zones" of the home. This is accomplished through a series of electronic dampers and remote room sensors. The 4-zone system is shown.

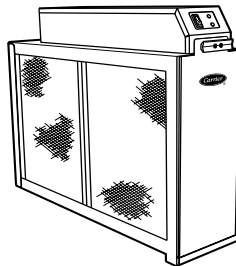


A02121

EXTERNAL FILTER RACK (SIDE OR BOTTOM)

Custom-made filter rack for easy connection when a return plenum already exists. Provides easy access for cleaning filter.

Accepts one 16 x 25 x 1 in. filter.

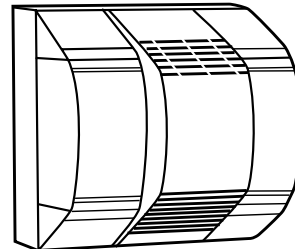


A97380

MECHANICAL OR ELECTRONIC AIR CLEANER

Cleans the air of smoke, dirt, and many pollens commonly found. Saves decorating and cleaning expenses by keeping carpets, furniture, and drapes cleaner.

Electronic air cleaner is shown.



A01484

MODEL HUMCCLFP HUMIDIFIER

By adding moisture to winter-dry air, a Carrier humidifier can often improve comfort and keep furniture, rugs, and draperies in better condition. Moisturizing household air also helps to retain normal body heat and provides comfort at lower temperatures.

Accessories	
ELECTRONIC AIR CLEANER (EAC)	Model AIRA
MECHANICAL AIR CLEANER	Model 31MF
HUMIDIFIER	Model HUM
HEAT RECOVERY VENTILATOR	Models VA3B, VB5B, or VC5B
ENERGY RECOVERY VENTILATOR	Model VL3A
THERMOSTAT - NON-PROGRAMMABLE	Auto Changeover, °F/°C, 1 -Stage Heat/1 -Stage Cool - TSTATCCNAC01-B
	Auto Changeover, °F/°C, 2-Stage Heat/1 -Stage Cool - TSTATCCNHP01-B
	Auto Changeover, °F/°C, 2-Stage Heat/2-Stage Cool - TSTATCCN2S01-B
	in AC Mode, 3-Stage Heat/2-Stage Cool in HP Mode
	Air Conditioner, 1-Stage Heat/1-Stage Cool, Manual Changeover, °F/°C - TSTATCCBAC01
	Heat Pump, 2-Stage Heat/1-Stage Cool, Manual Changeover, °F/°C - TSTATCCBHP01
THERMOSTAT - PROGRAMMABLE	Auto Changeover, 7-Day Programmable, °F/°C, 1-Stage Heat/1-Stage Cool-TSTATCCPAC01-B
	Auto Changeover, 7-Day Programmable, °F/°C, 2-Stage Heat/1-Stage Cool - TSTATCCPHP01-B
	Auto Changeover, 7-Day Programmable, °F/°C, 2-Stage Heat/1-Stage Cool - TSTATCCP2S01-B
	in AC Mode, 3-Stage Heat/2-Stage Cool in HP Mode
	Dual Fuel Thermostat Includes Outdoor Air Temperature Sensor -TSTATCCPDF01-B
	Thermidistat Control - Non-Programmable/Programmable Thermostat -TSTATCCPRH01 -B
	with Humidity Control (For use in Dual Fuel, AC, HP, and 2S applications, includes Outdoor Air Temperature Sensor)
ZONING - 2 ZONE	ZONE CC2KIT01, ZONE KIT2ZCAR
ZONING - 4 ZONE	ZONECC4KIT01
ZONING - 8 ZONE	ZONECC8KIT01

Carrier Accessories*

DESCRIPTION	PART NO.	045-08	045-12	070-08	070-12	070-16	090-14	090-16	090-20	110-12	110-16	110-22	135-16	135-22	155-20
Media Filter Cabinet – 16 in.	FILCABCS0016-A–	X	X	X	X	X	X			X					
Media Filter Cabinet – 20 in.	FILCABCS0020-A–							X	X		X	X	X		
Media Filter Cabinet – 24 in.	FILCABCS0024-A–													X	X
EZ Flex Media Filter with end caps – 16 in. (9 pack)	EXPXXUNV0016	X	X	X	X	X	X			X					
EZ Flex Media Filter with end caps – 20 in. (9 pack)	EXPXXUNV0020							X	X		X	X	X		
EZ Flex Media Filter with end caps – 24 in. (6 pack)	EXPXXUNV0024													X	X
Replacement EZ Flex Filter – 16 in. (10 pack)	EXPXXFIL0016	X	X	X	X	X	X			X					
Replacement EZ Flex Filter – 20 in. (10 pack)	EXPXXFIL0020							X	X		X	X	X		
Replacement EZ Flex Filter – 24 in. (10 pack)	EXPXXFIL0024													X	X
Exterior Filter Rack—universal, one inch (adjustable from 14" to 24") with filter	KGAFR0301ALL KGAFR0306ALL (6-pack)	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Unframed filter, one inch – 16x25	KGAWF1301UFR KGAWF1306UFR (6-pack)	X	X	X	X	X	X			X					
Unframed filter, one inch – 20x25	KGAWF1401UFR KGAWF1406UFR (6 pack)							X	X		X	X	X		
Unframed filter, one inch – 24x25	KGAWF1501UFR KGAWF1506UFR (6 pack)													X	X
Twining Kit	KGATW0601HSI	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Combustible Floor Base (not required when evaporator coil case is used)	KGASB0201ALL	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Downflow Vent Guard (not required when vent is routed through cabinet)	KGAVG0101DFG	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Vent Extension Kit (may be used when vent is routed through cabinet in downflow)	KGAVE0101DNH	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Chimney Adapter Kit - 4 inch vent	KGACA02014FC	X	X	X	X	X	X	X	X	X	X	X			
Chimney Adapter Kit - 5 inch vent	KGACA02015FC												X	X	X
Natural-to-Propane Gas Conversion Kit (Single Kit)*	KGANP2901ALL	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Propane-to-Natural Gas Conversion Kit (Single Kit)	KGAPN2301ALL	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Gas Orifice Kit (Qty 50) Size 42	KGAHA0150N42	See Installation Instructions for model, altitude, and heat value usages.													
Gas Orifice Kit (Qty 50) Size 43	KGAHA0250N43														
Gas Orifice Kit (Qty 50) Size 44	KGAHA0350N44														
Gas Orifice Kit (Qty 50) Size 45	KGAHA0450N45														
Gas Orifice Kit (Qty 50) Size 46	KGAHA0550N46														
Gas Orifice Kit (Qty 50) Size 47	KGAHA1550N47														
Gas Orifice Kit (Qty 50) Size 48	KGAHA1650N48														
Gas Orifice Kit (Qty 50) Size 54	KGAHA0650P54														
Gas Orifice Kit (Qty 50) Size 55	KGAHA0750P55														
Gas Orifice Kit (Qty 50) Size 56	KGAHA0650P56														
Gas Orifice Kit (Qty 50) 1.25 mm	KGAHA5750125														
Gas Orifice Kit (Qty 50) 1.30mm	KGAHA5750130														

* Factory-authorized and field installed. Gas conversion kits are A.G.A./C.G.A. recognized.

Physical data

UNIT SIZE		045		070			090	
		08	12	08	12	16	14	16
OUTPUT CAPACITY BTUH* (Nonweatherized ICS) †	58STX Upflow; all 58STA	35,000	36,000	53,000	54,000	53,000	71,000	71,000
	58STX Downflow/Horizontal	34,000	34,000	51,000	51,000	51,000	68,000	68,000
INPUT BTUH*	58STX Upflow; all 58STA	44,000	44,000	66,000	66,000	66,000	88,000	88,000
	58STX Downflow/Horizontal	42,000	42,000	63,000	63,000	63,000	84,000	84,000
AFUE%*	Nonweatherized ICS	80.0	80.0	80.0	80.0	80.0	80.0	80.0
CERTIFIED TEMP RISE RANGE (°F)		30–60	20–50	40–70	30–60	25–55	40–70	30–60
CERTIFIED EXT STATIC PRESSURE	Heating	0.10	0.10	0.12	0.12	0.12	0.15	0.15
	Cooling	0.50	0.50	0.50	0.50	0.50	0.50	0.50
AIRFLOW CFM‡	Heating	920	1250	720	1195	1450	1375	1505
	Cooling	845	1160	900	1200	1530	1385	1720
LIMIT CONTROL		SPST						
HEATING BLOWER CONTROL		Solid-State Time Operation						
BURNERS (Monoport)		2	2	3	3	3	4	4
GAS CONNECTION SIZE		1/2-in. NPT						
GAS VALVE (Redundant) Manufacturer		White-Rodgers						
Minimum Inlet Pressure (In. wc)		4.5 (Natural Gas)						
Maximum Inlet Pressure (In. wc)		13.6 (Natural Gas)						
IGNITION DEVICE		Hot Surface						

* Gas input ratings are certified for elevations to 2000 ft. For elevations above 2000 ft, reduce ratings 4% for each 1000 ft above sea level. Refer to National Fuel Gas code Table F4 or furnace Installation Instructions. In Canada, derate the unit 10% for elevations 2000 to 4500 ft above sea level.

† Capacity in accordance with U.S. Government DOE test procedures.

‡ Airflow shown is for bottom only return-air supply. For air delivery above 1800 CFM, see Air Delivery Table for other options. A filter is required for each return-air supply. An airflow reduction of up to 7% may occur when using a Carrier 4-5/16" high efficiency media filter.

ICS — Isolated Combustion System

N/A-Not Applicable

Blower performance data

UNIT SIZE		045		070			090	
		08	12	08	12	16	14	16
DIRECT-DRIVE MOTOR Hp (PSC)		1/5	1/3	1/5	1/3	1/2	1/3	1/2
MOTOR FULL LOAD AMPS		2.9	5.2	2.9	5.2	7.9	5.2	7.9
RPM (Nominal) – Speeds		1075-3	1075-3	1075-3	1075-3	1075-3	1075-3	1075-3
BLOWER WHEEL DIAMETER × WIDTHS (In.)		10 x 6	10 x 6	10 x 6	10 x 6	11 x 8	10 x 8	10 x 10

Physical data

UNIT SIZE		090	110			135		155
		20	12	16	22	16	22	20
OUTPUT CAPACITY BTUH* (Nonweatherized ICS) †	58STX Upflow; all 58STA	71,000	89,000	89,000	89,000	107,000	107,000	125,000
	58STX Downflow/Horizontal	68,000	85,000	85,000	85,000	102,000	102,000	119,000
INPUT BTUH*	58STX Upflow; all 58STA	88,000	110,000	110,000	110,000	132,000	132,000	154,000
	58STX Downflow/Horizontal	84,000	105,000	105,000	105,000	126,000	126,000	147,000
AFUE%*	Nonweatherized ICS	80.0	80.0	80.0	80.0	80.0	80.0	80.0
CERTIFIED TEMP RISE RANGE (°F)		25–55	50–80	40–70	30–60	50–80	40–70	45–75
CERTIFIED EXT STATIC PRESSURE	Heating	0.15	0.20	0.20	0.20	0.20	0.20	0.20
	Cooling	0.50	0.50	0.50	0.80	0.50	0.50	0.50
AIRFLOW CFM‡	Heating	1990	1335	1515	1900	1525	1850	1790
	Cooling	2025	1355	1680	2220	1710	2110	2230
LIMIT CONTROL		SPST						
HEATING BLOWER CONTROL		Solid-State Time Operation						
BURNERS (Monoport)		4	5	5	5	6	6	7
GAS CONNECTION SIZE		1/2-in. NPT						
GAS VALVE (Redundant) Manufacturer		White-Rodgers						
Minimum Inlet Pressure (In. wc)		4.5 (Natural Gas)						
Maximum Inlet Pressure (In. wc)		13.6 (Natural Gas)						
IGNITION DEVICE		Hot Surface						

* Gas input ratings are certified for elevations to 2000 ft. For elevations above 2000 ft, reduce ratings 4% for each 1000 ft above sea level. Refer to National Fuel Gas code Table F4 or furnace Installation Instructions. In Canada, derate the unit 10% for elevations 2000 to 4500 ft above sea level.

† Capacity in accordance with U.S. Government DOE test procedures.

‡ Airflow shown is for bottom only return-air supply. For air delivery above 1800 CFM, see Air Delivery Table for other options. A filter is required for each return-air supply. An airflow reduction of up to 7% may occur when using a Carrier 4-5/16" high efficiency media filter.

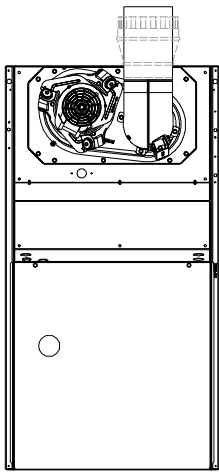
ICS — Isolated Combustion System

N/A-Not Applicable

Blower performance data

UNIT SIZE	090	110			135		155
	20	12	16	22	16	22	20
DIRECT-DRIVE MOTOR Hp (PSC)	3/4	1/3	1/2	3/4	1/2	3/4	3/4
MOTOR FULL LOAD AMPS	11.1	5.2	7.9	11.1	7.9	11.1	11.1
RPM (Nominal) – Speeds	1075-3	1075-3	1075-3	1075-3	1075-3	1075-3	1075-3
BLOWER WHEEL DIAMETER × WIDTHS (In.)	11 x 11	10 x 8	10 x 10	11 x 11	10 x 10	11 x 11	11 x 11

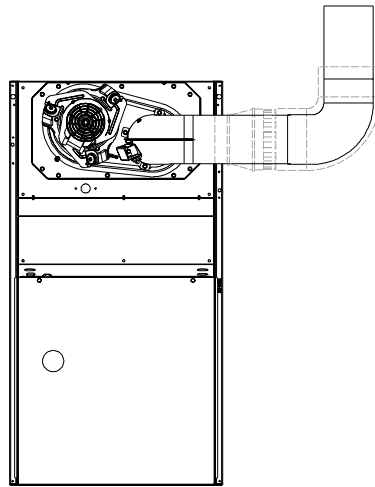
PSC-Permanent Split Capacitor



SEE NOTES: 1,2,4,7,8,9

UPFLOW

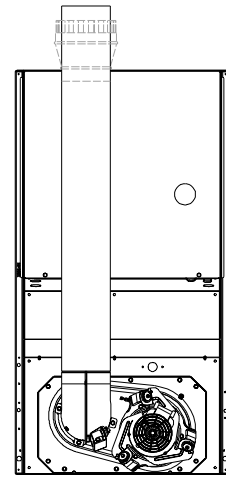
A02058



SEE NOTES: 1,2,3,4,7,8,9

UPFLOW

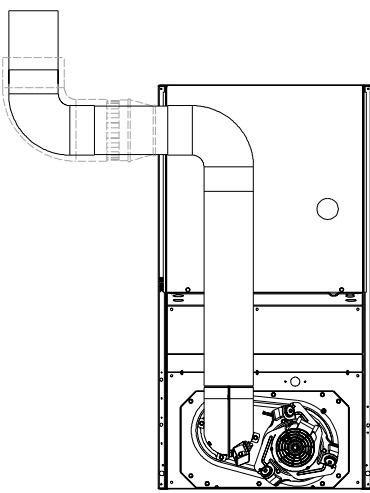
A02059



SEE NOTES: 1,2,4,5,7,8,9

DOWNFLOW

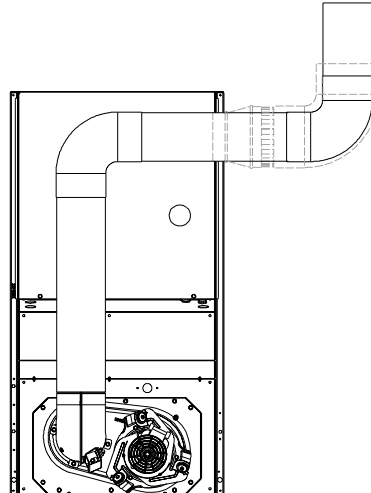
A02061



SEE NOTES: 1,2,3,4,5,7,8,9

DOWNFLOW

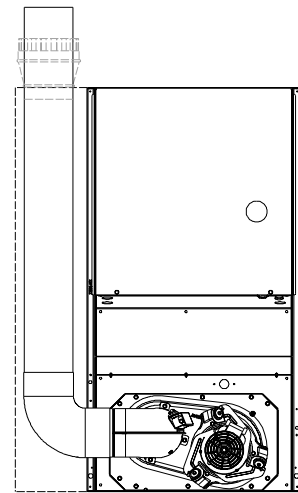
A02060



SEE NOTES: 1,2,3,4,5,7,8,9

DOWNFLOW

A02063



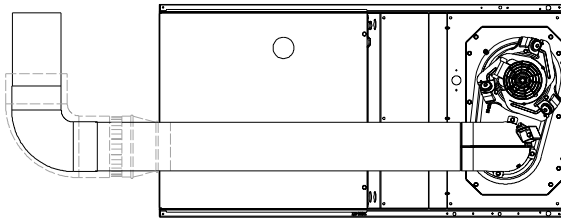
SEE NOTES: 1,2,4,5,6,7,8,9

DOWNFLOW

A02062

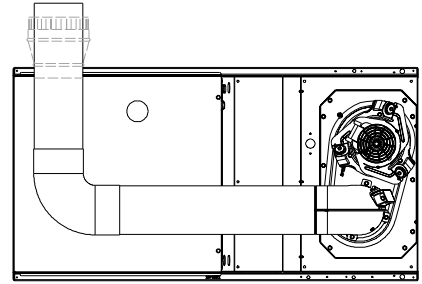
Venting Notes

1. For common vent, vent connector sizing and vent material: United States, latest edition of the National Fuel Gas Code (NFGC), ANSI Z223.1/NFPA 54. In Canada, latest edition of the National Standards of Canada, Natural Gas and Propane Installation Code (NSCNGPIC), CSA B149.1-00.
2. Immediately increase to 5-inch vent connector outside furnace casing when 5-inch vent connector required, refer to Note 1.
3. Side outlet vent for upflow and downflow installations must use Type B vent immediately after exiting the furnace, except when KGAVG0101DFG is used in downflow position.
4. Type B vent where required, refer to Note 1.
5. 4" single wall vent must be used inside furnace casing and the KGAVG0101DFG Downflow Vent Guard Kit.
6. Accessory Downflow Vent Guard Kit, KGAVG0101DFG required in downflow installations with bottom vent configuration.
7. Chimney Adapter Kit required for exterior masonry chimney applications. Refer to Chimney Adapter Kit, KGACA02014FC and KGACA02015FC for sizing and complete application details.
8. Secure vent connector to furnace elbow with (2) corrosion-resistant sheet metal screws, space approximately 180° apart.
9. Secure all other single wall vent connector joints with (3) corrosion-resistant screws spaced approximately 120° apart. Secure Type B vent connectors per vent connector manufacturer's recommendations.



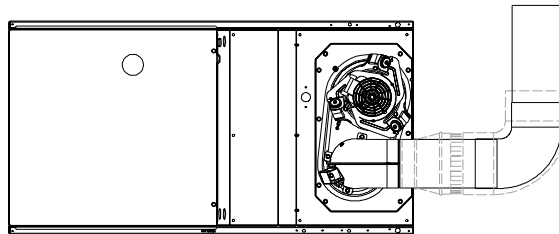
SEE NOTES: 1,2,4,5,7,8,9
HORIZONTAL RIGHT

A02068



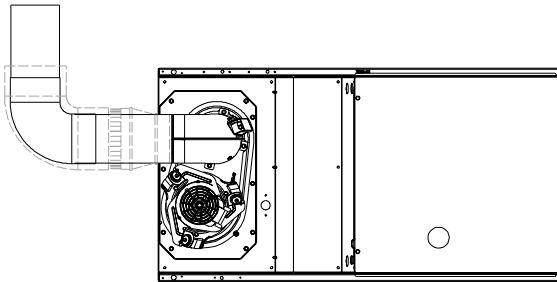
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HORIZONTAL RIGHT

A02070



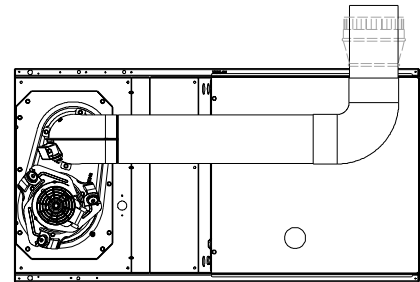
SEE NOTES: 1,2,4,7,8,9
HORIZONTAL RIGHT

A02069



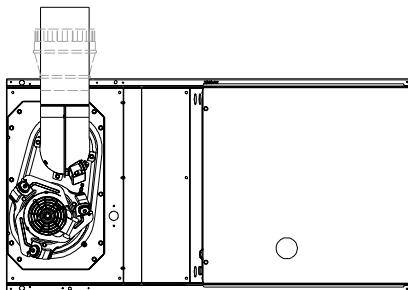
SEE NOTES: 1,2,4,7,8,9
HORIZONTAL LEFT

A02064



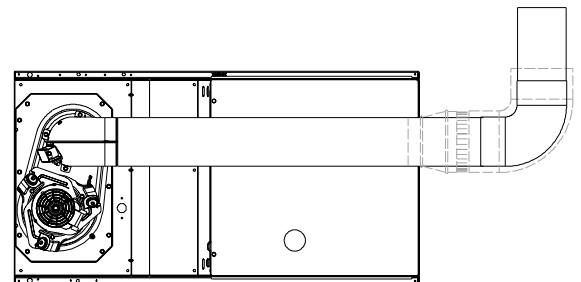
SEE NOTES: 1,2,4,5,7,8,9
HORIZONTAL LEFT

A02065



SEE NOTES: 1,2,4,5,7,8,9
HORIZONTAL LEFT

A02066



SEE NOTES: 1,2,4,5,7,8,9
HORIZONTAL LEFT

A02067

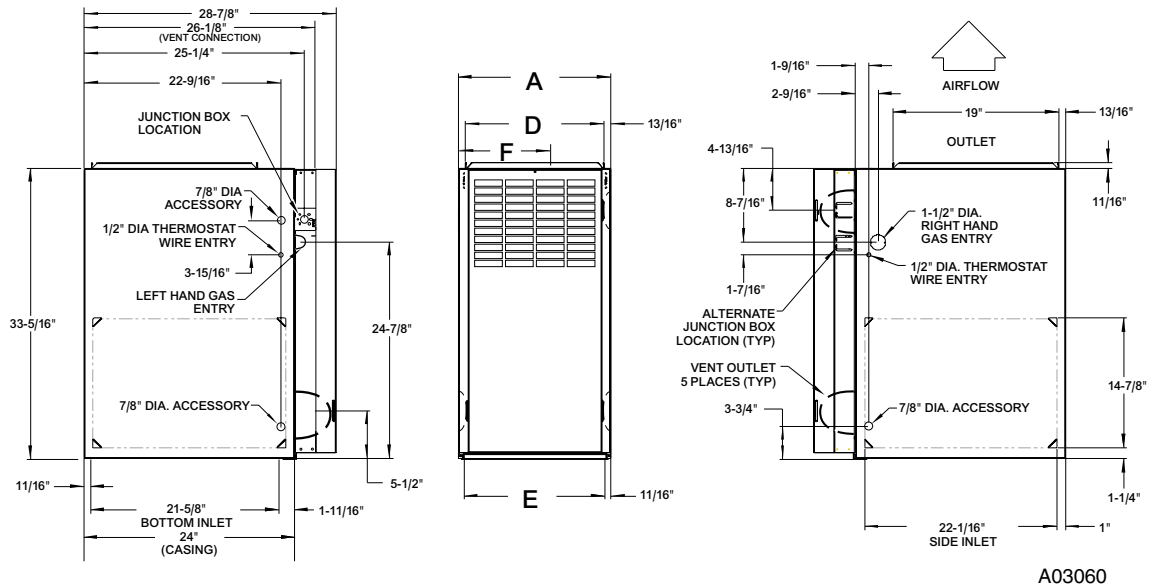
AIR DELIVERY—CFM (With Filter)*

UNIT SIZE	RETURN-AIR SUPPLY	SPEED	EXTERNAL STATIC PRESSURE (In. wc)									
			0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9	1.0
045-08	Bottom or Side(s)	High	1085	1035	975	915	845	770	675	565	390	195
		Med-High	920	875	830	770	710	640	555	440	250	—
		Med-Low	820	775	730	680	620	555	470	360	190	—
045-12	Bottom or Side(s)	High	1440	1375	1305	1240	1160	1070	975	870	730	560
		Med-High	1360	1300	1240	1175	1115	1040	950	850	725	575
		Med-Low	1250	1210	1160	1100	1040	965	885	790	670	520
070-08	Bottom or Side(s)	High	1030	1010	980	945	900	845	775	680	490	335
		Med-High	835	815	790	760	720	675	610	490	375	265
		Med-Low	725	700	675	645	600	555	475	390	300	—
070-12	Bottom or Side(s)	High	1425	1375	1320	1265	1200	1125	1035	940	830	655
		Med-High	1320	1280	1240	1205	1140	1075	995	905	790	620
		Med-Low	1200	1175	1145	1105	1050	990	920	840	725	555
070-16	Bottom or Side(s)	High	1805	1740	1670	1600	1530	1445	1360	1280	1180	1075
		Med-High	1630	1585	1530	1470	1405	1330	1255	1170	1080	990
		Med-Low	1460	1420	1385	1325	1280	1220	1155	1080	995	910
090-14	Bottom or Side(s)	High	1650	1600	1535	1465	1385	1285	1175	1055	895	645
		Med-High	1515	1485	1440	1380	1300	1220	1115	990	830	600
		Med-Low	1385	1360	1320	1260	1195	1120	1025	915	710	565
090-16	Bottom or Side(s)	High	2060	1985	1915	1820	1720	1610	1490	1340	1135	925
		Med-High	1790	1765	1715	1645	1560	1470	1345	1195	1010	820
		Med-Low	1505	1505	1480	1440	1375	1300	1190	1045	890	740
090-20	Bottom Only	High	2405	2310	2220	2130	2025	1920	1790	1660	1530	1350
		Med-High	2225	2155	2080	1995	1895	1785	1675	1565	1420	1260
		Med-Low	2020	1955	1880	1805	1730	1630	1535	1420	1275	1135
	Both Sides or 1 Side & Bottom	High	2530	2450	2365	2270	2165	2065	1940	1805	1670	1505
		Med-High	2285	2215	2150	2075	1985	1890	1780	1660	1525	1360
		Med-Low	1995	1945	1900	1840	1770	1685	1600	1480	1350	1180
110-12	Bottom or Side(s)	High	2475	2395	2300	2200	2090	1985	1865	1730	1585	1425
		Med-High	2260	2190	2110	2035	1940	1845	1735	1620	1475	1325
		Med-Low	1950	1910	1855	1795	1730	1650	1555	1445	1310	1150
110-16	Bottom or Side(s)	High	1625	1575	1515	1445	1355	1260	1165	990	785	—
		Med-High	1510	1470	1415	1355	1285	1185	1070	890	725	—
		Med-Low	1360	1335	1295	1250	1180	1100	985	810	—	—
110-22	Bottom Only	High	2035	1965	1880	1790	1680	1495	1365	1215	1075	875
		Med-High	1745	1710	1650	1560	1450	1340	1205	1090	955	750
		Med-Low	1530	1515	1470	1400	1310	1215	1095	990	830	670
135-16	Bottom Only	High	2530	2470	2400	2320	2220	2115	2000	1865	1730	1590
		Med-High	2230	2205	2165	2110	2035	1950	1855	1740	1615	1485
		Med-Low	1920	1900	1880	1845	1795	1730	1650	1555	1460	1340
	Both Sides or 1 Side & Bottom	High	—	—	2415	2350	2250	2145	2015	1875	1715	1560
		Med-High	2235	2200	2155	2100	2040	1955	1850	1740	1595	1470
		Med-Low	1920	1900	1880	1845	1795	1730	1650	1555	1460	1340
135-22	Bottom Only	High	2540	2495	2430	2355	2265	2175	2065	1935	1785	1650
		Med-High	2125	2120	2105	2060	2010	1940	1840	1730	1615	1485
		Med-Low	1790	1795	1790	1765	1720	1650	1585	1500	1390	1280
155-20	Bottom Only	High	2090	2010	1930	1835	1710	1590	1470	1335	1025	835
		Med-High	1790	1755	1705	1640	1550	1465	1360	1210	945	785
		Med-Low	1545	1525	1500	1450	1380	1315	1215	1005	855	670
155-22	Bottom Only	High	2485	2400	2310	2215	2110	2000	1880	1725	1535	1355
		Med-High	2195	2150	2090	2000	1920	1825	1720	1565	1405	1255
		Med-Low	1880	1850	1820	1780	1715	1635	1540	1415	1290	1160
	Both Sides or 1 Side & Bottom	High	—	—	2385	2305	2195	2085	1960	1825	1670	1465
		Med-High	2180	2145	2060	2010	1945	1865	1765	1660	1515	1325
		Med-Low	1880	1850	1820	1780	1715	1635	1540	1415	1290	1160
155-20	Bottom Only	High	2135	2085	2035	2155	2055	1940	1825	1695	1555	1385
		Med-High	1880	1850	1820	1780	1715	1635	1540	1415	1290	1160
		Med-Low	1880	1850	1820	1780	1715	1635	1540	1415	1290	1160
155-20	Bottom Only	High	2465	2430	2375	2305	2230	2110	2000	1865	1725	1545
		Med-High	2115	2105	2075	2030	1980	1910	1830	1725	1590	1425
		Med-Low	1800	1790	1770	1735	1695	1640	1570	1465	1345	1225
	Both Sides or 1 Side & Bottom	High	—	—	2375	2285	2200	2105	1995	1870	1730	1570
		Med-High	2155	2135	2095	2040	1975	1895	1790	1685	1550	1400
		Med-Low	1800	1790	1770	1735	1695	1640	1570	1465	1345	1225
155-20	Bottom Only	High	2140	2095	2260	2180	2085	1975	1865	1740	1605	1455
		Med-High	1800	1790	2040	1975	1890	1810	1705	1595	1480	1325
		Med-Low	1800	1790	1770	1735	1695	1640	1570	1465	1345	1225

*A filter is required for each return-air supply. Airflow performance includes 1" washable filter media such as contained in factory-authorized accessory filter rack. To determine airflow performance without this filter, assume an additional .1 available external static pressure.

-Indicates unstable operating conditions.

Dimensions



58STA/STX UNIT SIZE	A (CABINET WIDTH)	D (SUPPLY WIDTH)	E (BOTTOM RETURN WIDTH)	F (TOP VENT OUTLET)	VENT CONNECTION SIZE (see note 1 & 2)	APPROXIMATE SHIPPING WT (LB)
045-08	14-3/16	12-9/16	12-11/16	9-5/16	4	104
045-12	14-3/16	12-9/16	12-11/16	9-5/16	4	107
070-08	14-3/16	12-9/16	12-11/16	9-5/16	4	111
070-12	14-3/16	12-9/16	12-11/16	9-5/16	4	115
070-16	17-1/2	15-7/8	16-1/8	11-9/16	4	126
090-14	17-1/2	15-7/8	16-1/8	11-9/16	4	127
090-16	21	19-3/8	19-1/2	13-5/16	4	140
090-20	21	19-3/8	19-1/2	13-5/16	4	146
110-12	17-1/2	15-7/8	16-1/8	11-9/16	4	135
110-16	21	19-3/8	19-1/2	13-51/6	4	146
110-22	21	19-3/8	19-1/2	13-5/16	4	152
135-16	21	19-3/8	19-1/2	13-5/16	4 (note 1)	149
135-22	24-1/2	22-7/8	23	15-1/16	4 (note 1)	163
155-20	24-1/2	22-7/8	23	15-1/16	4 (note 1)	170

1) 135 and 155 size furnaces require five-inch vents. Use a 4-5 inch vent adapter between furnace and vent stack.

2) See Installation Instructions for complete installation requirements.

INSTALLATION

MINIMUM INCHES CLEARANCE TO COMBUSTIBLE CONSTRUCTION DISTANCE MINIMALE EN POUCES AUX CONSTRUCTIONS COMBUSTIBLES

This forced air furnace is equipped for use with natural gas at altitudes 0-10,000 ft (0-3,050m). An accessory kit, supplied by the manufacturer, shall be used to convert to propane gas use or may be required for some natural gas applications.

This furnace is for indoor installation in a building constructed on site.

This furnace may be installed on combustible flooring in alcove or closet at minimum clearance as indicated by the diagram from combustible material.

This furnace may be used with a Type B-1 Vent and may be vented in common with other gas-fired appliances.

Cette fournaise à air pulsé est équipée pour utilisation avec gaz naturel et altitudes comprises entre 0-3,050m (0-10,000 pi).

Utiliser une trousse de conversion, fournie par le fabricant, pour passer au gaz propane ou pour certaines installations au gaz naturel.

Cette fournaise est prévue pour être installée dans un bâtiment construit sur place.

Cette fournaise peut être installée sur un plancher combustible dans une alcôve ou dans un garde-robe en respectant le minimum d'espace libre des matériaux combustibles, tel qu'indiqué sur le diagramme.

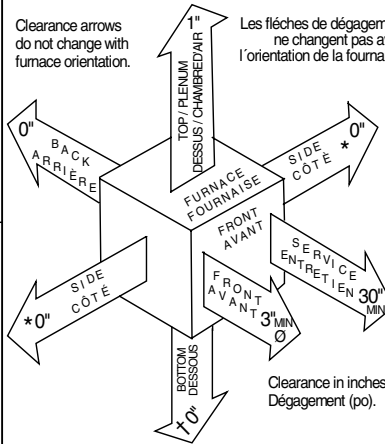
Cette fournaise peut être utilisée avec un conduit d'évacuation de Type B-1 ou connectée au conduit commun d'autres appareils à gaz.

This furnace is approved for UPFLOW, DOWNFLOW, and HORIZONTAL installations.

Cette fournaise est approuvée pour l'installation HORIZONTALE et la circulation d'air VERS LE HAUT et VERS LE BAS.

Clearance arrows do not change with furnace orientation.

Les flèches de dégagement ne changent pas avec l'orientation de la fournaise.



Clearance in inches
Dégagement (po).

Vent Clearance to combustibles:

For Single Wall vents 6 inches (6 po).

For Type B-1 vent type 1 inch (1 po).

Dégagement de l'évent avec combustibles:

Pour conduit d'évacuation à paroi simple 6 po (6 inches).

Pour conduit d'évacuation de Type B-1 1 po (1 inch).

MINIMUM INCHES CLEARANCE TO COMBUSTIBLE CONSTRUCTION

DOWNFLOW POSITIONS:

† Installation on non-combustible floors only.

For Installation on combustible flooring only when installed on special base, Part No. KGASB0201ALL, Coil Assembly, Part No. CD5 or CK5, or Coil Casing, Part No. KCAKC.

Ø 18 inches front clearance required for alcove.

* Indicates supply or return sides when furnace is in the horizontal position. Line contact only permissible between lines formed by intersections of the Top and two Sides of the furnace jacket, and building joists, studs or framing.

DÉGAGEMENT MINIMUM EN POUCES AVEC ÉLÉMENTS DE CONSTRUCTION COMBUSTIBLES

POUR LA POSITION COURANT DESCENDANT:

† Pour l'installation sur plancher non combustible seulement.

Pour l'installation sur un plancher combustible seulement quand on utilise la base spéciale, pièce n° KGASB0201ALL, l'ensemble serpentin, pièce n° CD5 ou CK5, ou le carter de serpentin, pièce n° KCAKC.

Ø Dans une alcôve, on doit maintenir un dégagement à l'avant de 18 po (450 mm).

* La position indiquée concerne le côté d'entrée ou de retour quand la fournaise est dans la position horizontale.

Le contact n'est permis qu'entre les lignes formées par les intersections du dessus et des deux côtés de la chemise de la fournaise et les solives, montant sous cadre de charpente.

327590-101 REV. B

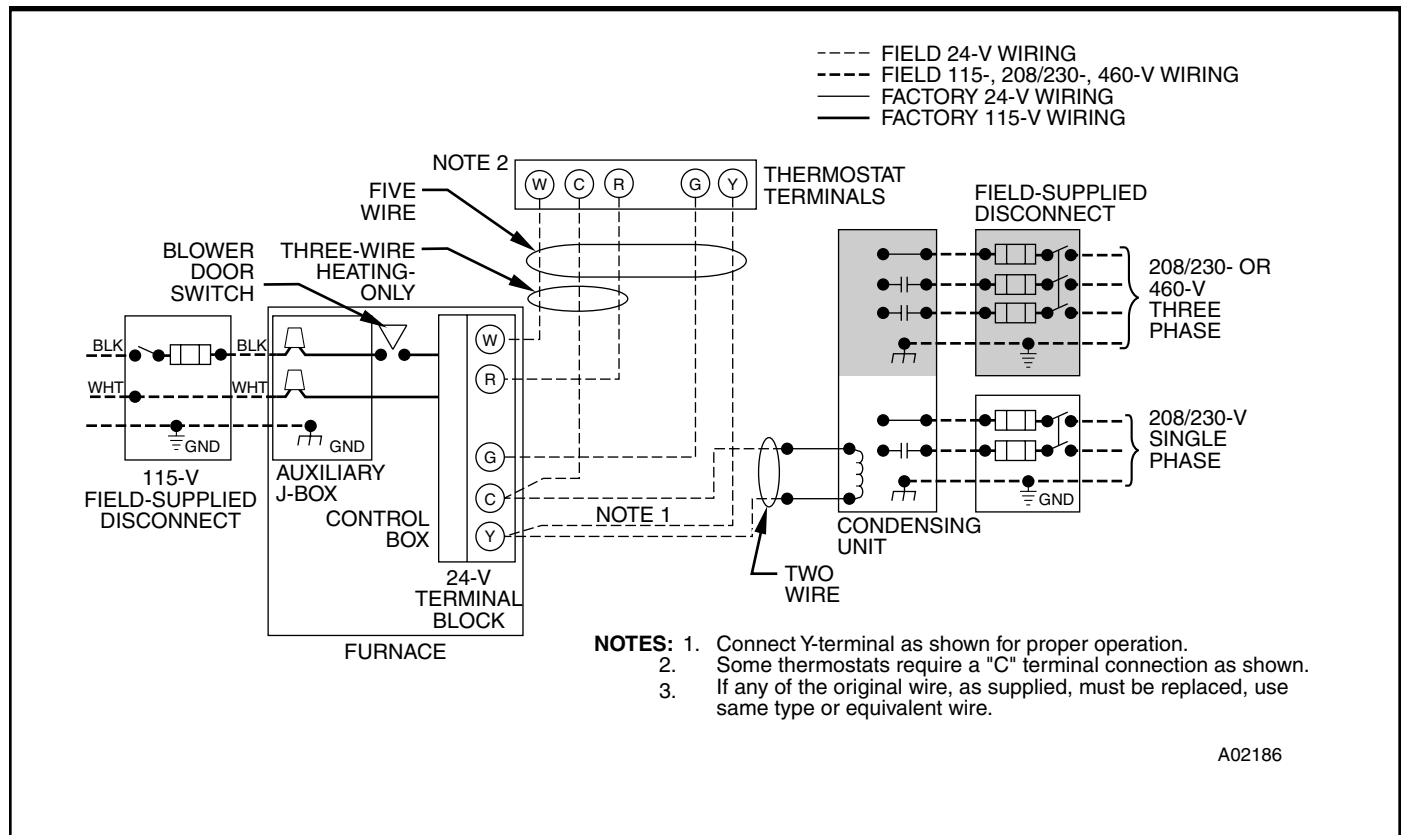


MEETS DOE RESIDENTIAL CONSERVATION SERVICES PROGRAM STANDARDS.

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

REGISTERED QUALITY SYSTEM

Typical wiring schematic



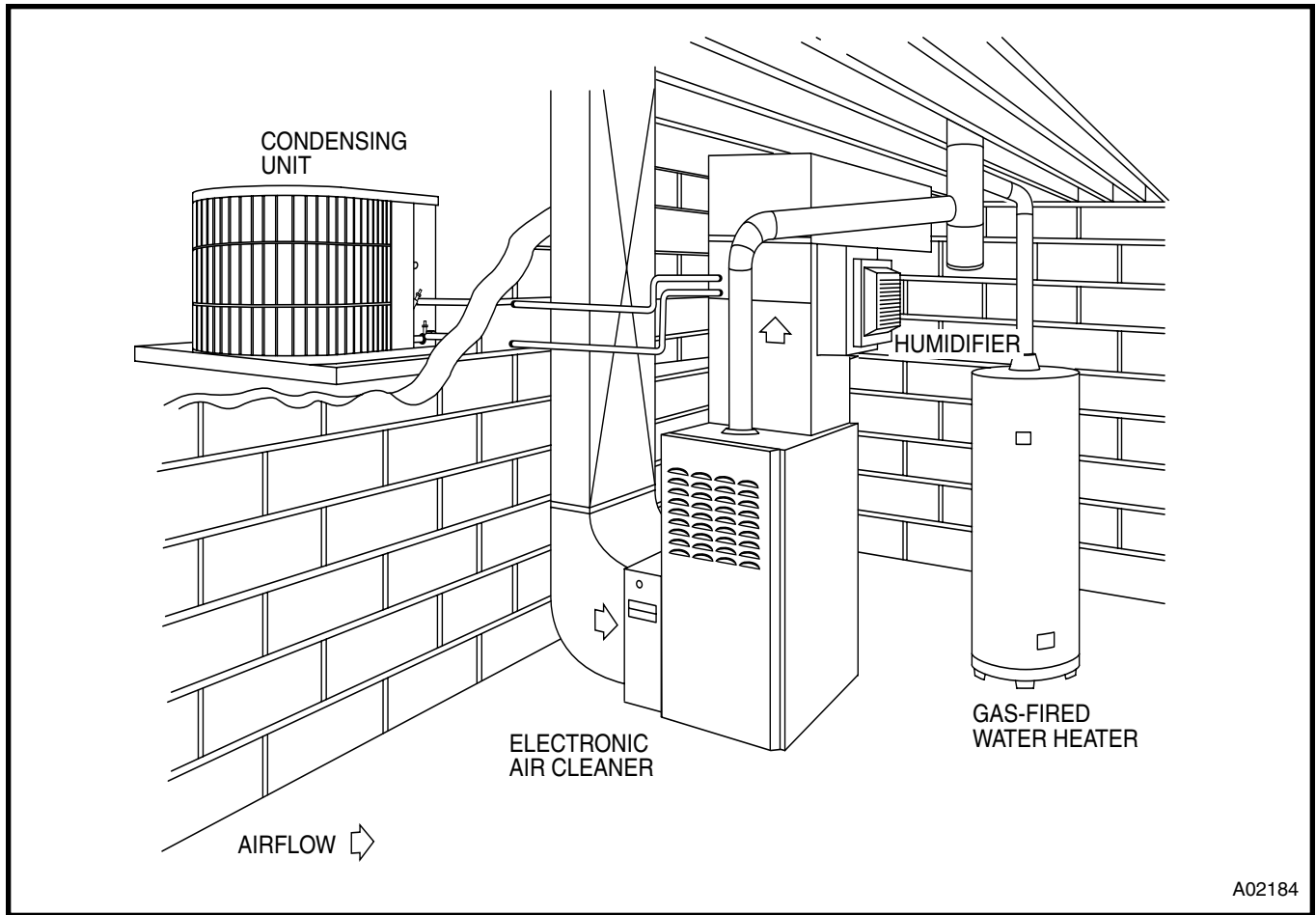
Electrical data

UNIT SIZE	VOLTS HERTZ-PHASE	OPERATING VOLTAGE RANGE		MAXIMUM UNIT AMPS	MAXIMUM WIRE LENGTH (FT)†	MAXIMUM FUSE OR CKT BKR AMPS†	MINIMUM WIRE GAGE
		Maximum*	Minimum*				
045-08	115-60-1	127	104	5.6	47	15	14
045-12	115-60-1	127	104	7.0	39	15	14
070-08	115-60-1	127	104	5.0	52	15	14
070-12	115-60-1	127	104	6.7	40	15	14
070-16	115-60-1	127	104	9.4	29	15	14
090-14	115-60-1	127	104	8.1	34	15	14
090-16	115-60-1	127	104	9.8	28	15	14
090-20	115-60-1	127	104	13.6	32	20	12
110-12	115-60-1	127	104	8.1	34	15	14
110-16	115-60-1	127	104	10.0	28	15	14
110-22	115-60-1	127	104	13.6	32	20	12
135-16	115-60-1	127	104	10.0	28	15	14
135-22	115-60-1	127	104	14.4	30	20	12
155-20	115-60-1	127	104	15.0	29	20	12

* Permissible limits of the voltage range at which unit operates satisfactorily.

Time-delay type is recommended.

† Length shown is as measured 1 way along wire path between unit and service panel for maximum 2 percent voltage drop.





Carrier

A United Technologies Company

Carrier Corporation • Indianapolis, IN 46231

3-03

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

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PC 101

Form 58ST-2PD
Replaces: 58ST-1PD