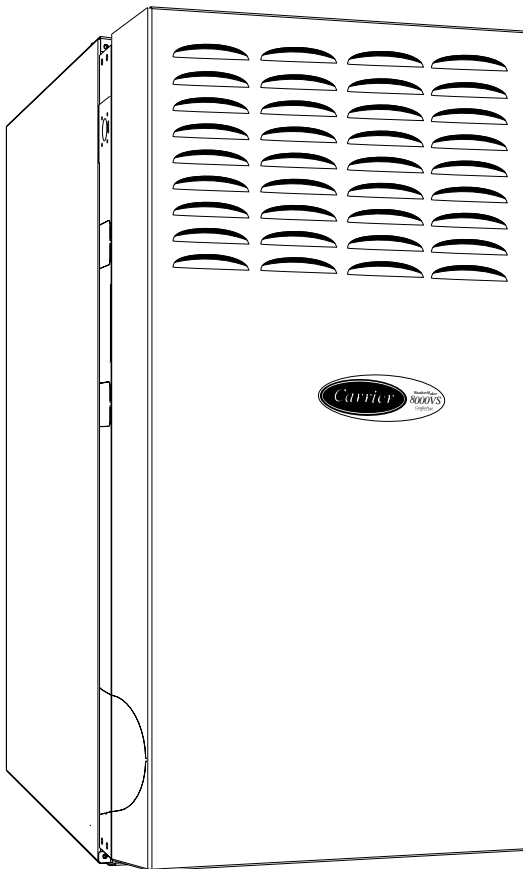




Product Data

58CVA/CVX Variable Speed 4-Way Multipoise Furnace



A01479

THE WEATHERMAKER® 8000VS GAS FURNACE

The 58CVA/CVX Variable-Speed, 4-way Multipoise Gas Furnaces offer unmatched comfort with ComfortHeat™ Technology and IdealHumidity™ in an 80% AFUE gas furnace. You get all the benefits of a ComfortHeat Technology furnace: reduced drafts, reduced sound levels, longer cycles, less temperature swings between cycles, and less temperature differences between rooms. With the variable speed blower motor, homeowners can now economically run constant fan to help eliminate temperature differences throughout the house and to get better indoor air quality. This IdealHumidity furnace also increases comfort in the summer by wringing out extra humidity when needed. The WeatherMaker 8000VS furnaces are approved for use with natural or propane gas, and the 58CVX is also approved for use in Low NOx Air Quality Management Districts.

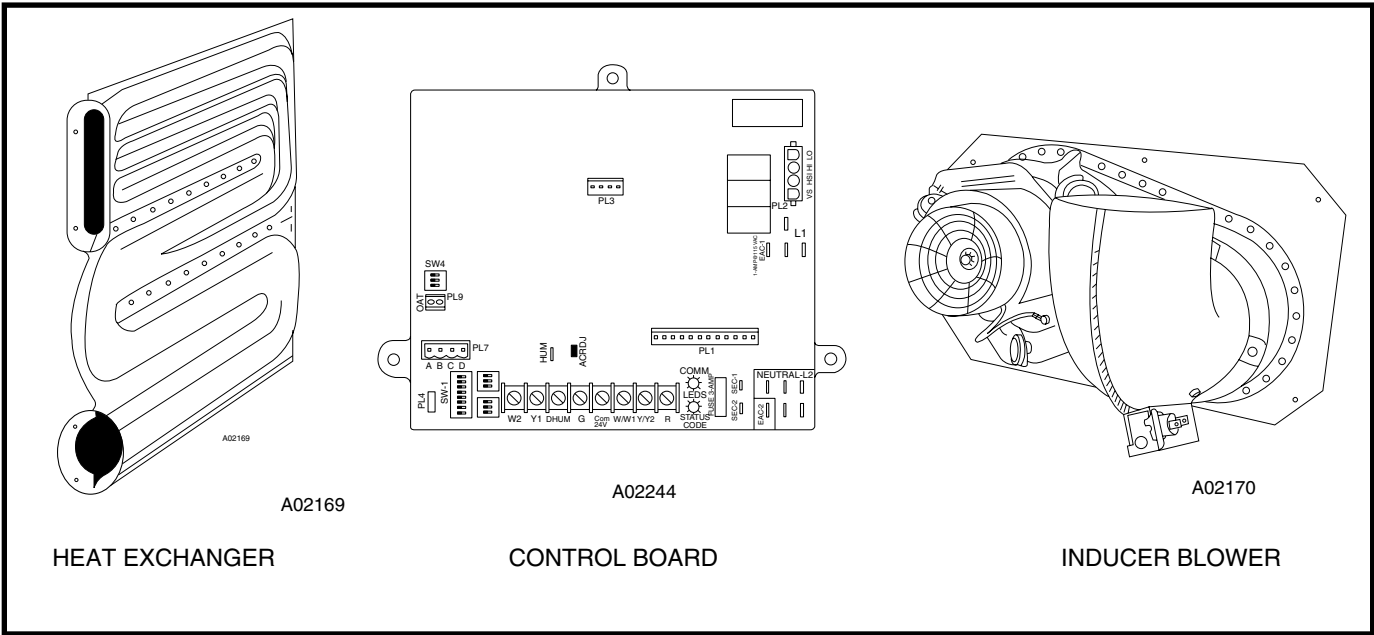
STANDARD FEATURES

- **ComfortHeat™ Technology**
Intelligent microprocessor control
Two-stage heating with single-stage thermostat
Very low operating sound through low-stage operation and **QuietTech™** noise reduction system
- **Integral part of the IdealHumidity™ System**
Maximum dehumidification selection for summer time cooling
Full IdealHumidity benefits including “Super Dehumidify”
Variable-speed blower motor
Super-low electrical use, up to 80 percent less than standard models
Increased SEER ratings for AC and HP systems
Perfectly matches CFM to cooling system at all static points
- **Media Filter Cabinet Included**
- **Microprocessor based “smart” control center**
Automatically adjusts heating stage times to meet demand
Capable of controlling 2-speed outdoor unit staging
Adjustable heating air temperature rise
- **Comfort Fan™**—Constant fan speed selectable from thermostat
Up to 12 cooling airflow selections with a wide range of capability
LED diagnostics and self test feature
Stores fault codes during power outages
Optional laptop and handheld PDA diagnostic software
- **4-way Multipoise furnace, 13 vent applications**
- **Shorter in height — only 33-1/3” tall**
- **Hot surface ignition (HSI)**
- **Draft safeguard switch to ensure proper furnace venting**
- **Insulated blower compartment**
- **Heat pump compatible**
- **All models are Chimney Friendly when used with accessory vent kit**
- **Residential installations eligible for consumer financing through the Retail Credit Program**

LIMITED WARRANTY

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



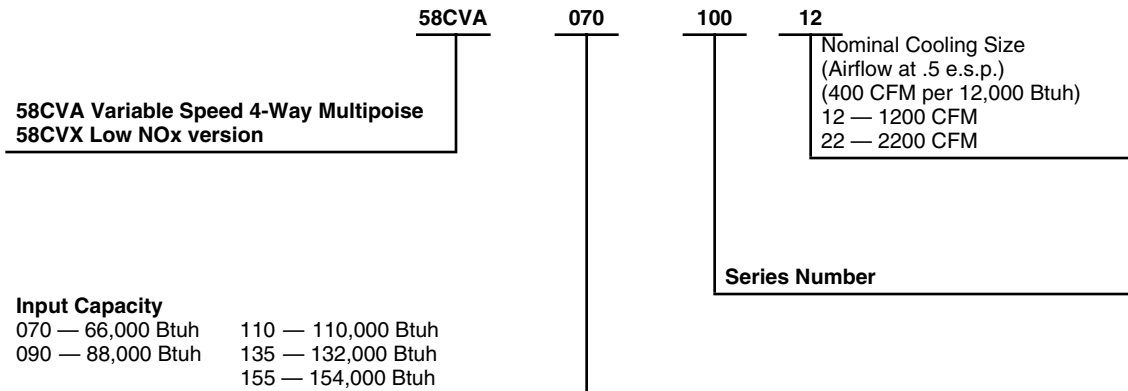


HEAT EXCHANGER

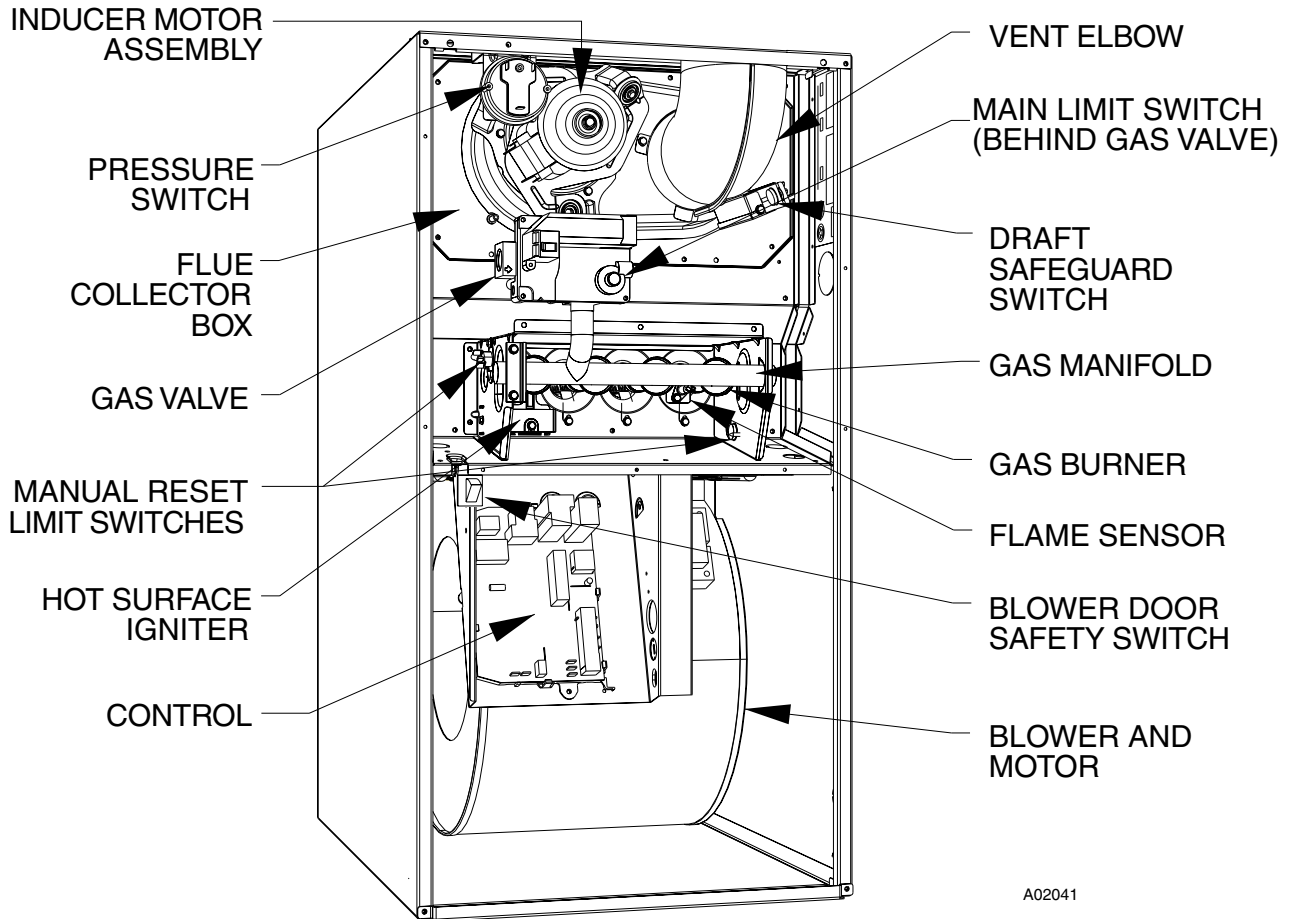
CONTROL BOARD

INDUCER BLOWER

Model number nomenclature



FURNACE COMPONENTS



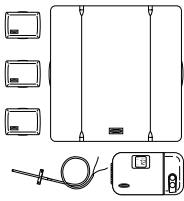
A02041

RATING PLATE
NOT SHOWN
(LOCATED ON
BLOWER DOOR)

*Elbow may be turned to a different position, depending on type of installation

NOTE: The 58CVA/CVX Furnaces are 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*

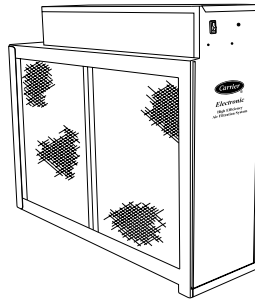


A97432

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.

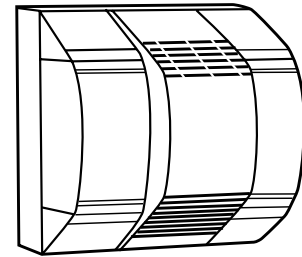


C02019

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 EACA
MECHANICAL AIR CLEANER	Models EZXCAB, FILCAB
HUMIDIFIER	Model HUM
HEAT RECOVERY VENTILATOR	Model HRV
ENERGY RECOVERY VENTILATOR	Model ERV
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
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-B, ZONE KIT2ZCAR
ZONING - 4 ZONE	ZONECC4KIT01-B
ZONING - 8 ZONE	ZONECC8KIT01-B

Carrier Accessories*

DESCRIPTION	PART NO.	070-12	090-16	110-22	135-22	155-22
EZ Flex Media Filter with end caps – 16 in. (9 pack)	EXPXXUNV0016	X				
EZ Flex Media Filter with end caps – 20 in. (9 pack)	EXPXXUNV0020		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				
Replacement EZ Flex Filter – 20 in. (10 pack)	EXPXXFIL0020		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
Unframed filter, one inch – 16x25	KGAWF1301UFR KGAWF1306UFR (6-pack)	X	S	S	S	S
Unframed filter, one inch – 20x25	KGAWF1401UFR KGAWF1406UFR (6 pack)		X	X		
Unframed filter, one inch – 24x25	KGAWF1501UFR KGAWF1506UFR (6 pack)				X	X
Combustible Floor Base (not required when evaporator coil case is used)	KGASB0201ALL	X	X	X	X	X
Downflow Vent Guard (not required when vent is routed through cabinet)	KGAVG0101DFG	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
Chimney Adapter Kit - 4 inch vent	KGACA02014FC	X	X	X		
Chimney Adapter Kit - 5 inch vent	KGACA02015FC				X	X
Natural-to-Propane Gas Conversion Kit (Single Kit)*	KGANP2901ALL	X	X	X	X	X
Propane-to-Natural Gas Conversion Kit (Single Kit)	KGAPN2301ALL	X	X	X	X	X
ECM Motor Simulator (replaces the ECM motor to aid trouble shooting)	KGASD0201FMS	X	X	X	X	X
Advanced Product Monitor (software and hardware to link PC laptop to control board)	KGAFP0201APM	X	X	X	X	X
ECM Control Replacement Module - 1/2 HP	HK44EA120	X	X			
ECM Control Replacement Module-1 HP	HK52EA120			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	KGAHA1850N48					
Gas Orifice Kit (Qty 50) Size 54	KGAHA0850P54					
Gas Orifice Kit (Qty 50) Size 55	KGAHA0750P55					
Gas Orifice Kit (Qty 50) Size 56	KGAHA0850P56					
Gas Orifice Kit (Qty 50)1.25 mm	KGAHA5750125					
Gas Orifice Kit (Qty 50)1.30mw	KGAHA5750130					

* Factory-authorized and field installed. Gas conversion kits are A.G.A./C.G.A. recognized.
S 16 x 25 filters suitable for side return on all furnace sizes.

Physical data

UNIT SIZE		070-12	090-16	110-22	135-22	155-22	
OUTPUT CAPACITY BTUH* (Nonweatherized ICS) †	all 58CVA; 58CVX Upflow	High	54,000	71,000	90,000	107,000	125,000
		Low	35,000	47,000	59,000	70,000	82,000
	58CVX Downflow/ Horizontal	High	51,000	68,000	86,000	102,000	119,000
		Low	35,000	47,000	59,000	70,000	82,000
INPUT BTUH*	all 58CVA; 58CVX Upflow	High	66,000	88,000	110,000	132,000	154,000
		Low	43,500	58,000	72,500	87,000	101,500
	58CVX Downflow/ Horizontal	High	63,000	84,000	105,000	126,000	147,000
		Low	43,500	58,000	72,500	87,000	101,500
SHIPPING WEIGHT (lb)		126	151	161	177	183	
CERTIFIED TEMP RISE RANGE (°F)		High	30-60	40-70	30-60	40-70	45-75
		Low	30-60	30-60	25-55	25-55	30-60
CERTIFIED EXT STATIC PRESSURE	Heating	0.12	0.15	0.20	0.20	0.20	
	Cooling	0.5	0.5	0.5	0.5	0.5	
AIRFLOW CFM‡	Heating-High/Low	1160/735	960/1195	1440/2005	1700/1905	1715/1965	
	Cooling	1225	1400	2100	2100	2095	
AFUE%*	Nonweatherized ICS	80.0	80.0	80.0	80.0	80.0	
LIMIT CONTROL		SPST					
HEATING BLOWER CONTROL		Solid-State Time Operation					
BURNERS (Monoport)		3	4	5	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 percent 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 percent 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.

ICS — Isolated Combustion System

Blower performance data

UNIT SIZE	070-12	090-16	110-22	135-22	155-22
DIRECT-DRIVE MOTOR Hp (ECM)	1/2	1/2	1	1	1
MOTOR FULL LOAD AMPS	7.7	7.7	12.8	12.8	12.8
RPM (Nominal)	300-1300	300-1300	300-1300	300-1300	300-1300
BLOWER WHEEL DIAMETER × WIDTHS (In.)	10 x 6	10 x 8	11 x 11	11 x 11	11 x 11

ECM Electronically Commutated Motor, Variable Speed

AIR DELIVERY—CFM (Bottom Return With Filter)*

Unit Size	Operating Mode	CFM Airflow Setting	External Static Pressure Range*	External Static Pressure (ESP)										
				0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9	1.0	
070-12				AIRFLOW (CFM)										
††	Low Heat	735†	0-0.50	735	735	735	735	725						
	High Heat	1180	0-1.0	1160	1165	1175	1180	1180	1180	1180	1180	1180	1175	
††	1-1/2-Ton A/C Cooling	525	0-0.50‡	525	525	525	525	510						
	2-Ton A/C Cooling	700	0-0.50‡	700	700	700	695	685						
††	2-1/2-Ton A/C Cooling	875	0-1.0‡	875	875	875	875	875	875	865	855	845	840	
	3-Ton A/C Cooling	1050	0-1.0‡	1050	1050	1050	1050	1050	1050	1050	1050	1045	1035	
††	3-1/2-Ton A/C Cooling	1225	0-1.0	1205	1215	1225	1225	1225	1225	1225	1225	1225	1210	
	Maximum	1400	0-1.0	1395	1400	1400	1400	1400	1400	1400	1385	1360	1310	
090-16														
††	Low Heat	985†	0-1.0	950	970	985	985	985	985	985	985	985	980	
	High Heat	1210	0-1.0	1190	1205	1210	1210	1210	1210	1210	1210	1210	1200	
††	1-1/2-Ton A/C Cooling	525	0-0.50‡	525	525	525	525	500						
	2-Ton A/C Cooling	700	0-0.50‡	690	695	700	700	690						
††	2-1/2-Ton A/C Cooling	875	0-1.0‡	830	855	875	875	875	875	870	865	850	820	
	3-Ton A/C Cooling	1050	0-1.0‡	1005	1025	1040	1050	1050	1050	1050	1050	1050	1050	
††	3-1/2-Ton A/C Cooling	1225	0-1.0‡	1205	1220	1215	1225	1225	1225	1225	1225	1225	1220	
	4-Ton A/C Cooling	1400	0-1.0	1370	1385	1395	1400	1400	1400	1400	1400	1400	1380	
††	Maximum	1600	0-1.0	1565	1580	1585	1595	1600	1600	1560	1520	1480	1430	
	110-22***													
††	Low Heat	1440†	0-1.0	1440	1440	1440	1440	1440	1440	1440	1440	1430	1420	1410
	High Heat	2005	0-1.0	2005	2005	2005	2005	2005	2005	1995	1985	1965	1940	
††	2-Ton A/C Cooling	700	0-0.50‡	700	700	685	670	645						
	2-1/2-Ton A/C Cooling	875	0-0.50‡	875	875	865	835	820						
††	3-Ton A/C Cooling	1050	0-0.50‡	1050	1050	1045	1050	1040						
	3-1/2-Ton A/C Cooling	1225	0-1.0‡	1220	1225	1225	1225	1225	1220	1205	1200	1190	1185	
††	4-Ton A/C Cooling	1400	0-1.0‡	1390	1400	1395	1400	1400	1400	1400	1400	1400	1395	
	5-Ton A/C Cooling	1750	0-1.0‡	1750	1750	1750	1750	1750	1750	1750	1740	1740	1715	
††	6-Ton A/C Cooling	2100	0-1.0	2100	2100	2100	2100	2100	2100	2090	2080	2060	2030	
	Maximum	2200	0-1.0	2200	2200	2200	2200	2200	2190	2180	2160	2135	2105	
135-22														
††	Low Heat	1700†	0-1.0	1700	1700	1700	1700	1700	1695	1700	1695	1685	1670	
	High Heat	1915	0-1.0	1900	1905	1915	1915	1915	1915	1915	1915	1915	1915	
††	2-Ton A/C Cooling	700	0-0.50‡	700	700	700	700	665						
	2-1/2-Ton A/C Cooling	875	0-0.50‡	870	870	865	865	865						
††	3-Ton A/C Cooling	1050	0-0.50‡	1010	1030	1050	1050	1050						
	3-1/2-Ton A/C Cooling	1225	0-1.0‡	1155	1180	1200	1210	1220	1225	1225	1225	1225	1225	
††	4-Ton A/C Cooling	1400	0-1.0‡	1395	1400	1400	1400	1400	1400	1400	1390	1375	1355	
	5-Ton A/C Cooling	1750	0-1.0‡	1740	1750	1750	1750	1735	1740	1735	1730	1715	1700	
††	6-Ton A/C Cooling	2100	0-1.0	2075	2085	2090	2100	2100	2100	2090	2080	2055	2025	
	Maximum	2200	0-1.0	2180	2195	2200	2200	2200	2200	2185	2165	2140	2095	
155-22														
††	Low Heat	1715†	0-1.0	1715	1715	1715	1715	1715	1705	1710	1705	1705	1695	
	High Heat	1970	0-1.0	1955	1965	1965	1970	1970	1970	1970	1970	1970	1960	
††	2-Ton A/C Cooling	700	0-0.50‡	700	700	700	700	680						
	2-1/2-Ton A/C Cooling	875	0-0.50‡	865	875	875	865	865						
††	3-Ton A/C Cooling	1050	0-0.50‡	1015	1020	1035	1045	1050						
	3-1/2-Ton A/C Cooling	1225	0-1.0‡	1160	1185	1215	1225	1225	1225	1225	1225	1225	1225	
††	4-Ton A/C Cooling	1400	0-1.0‡	1385	1400	1400	1400	1400	1400	1395	1395	1380	1360	
	5-Ton A/C Cooling	1750	0-1.0‡	1745	1750	1750	1750	1745	1740	1745	1745	1740	1735	
††	6-Ton A/C Cooling	2100	0-1.0	2055	2070	2080	2085	2095	2100	2100	2100	2090	2065	
	Maximum	2200	0-1.0	2175	2190	2200	2200	2200	2200	2200	2200	2180	2160	

* Actual external static pressure (ESP) can be determined by using the fan laws (CFM² proportional to ESP); such as, a system with 1180 CFM at 0.5 ESP would operate at cooling airflow of 1050 CFM at 0.4 ESP and low-heating airflow of 735 CFM at 0.19 ESP.

† Low heat CFM when low-heat rise adjustment switch (SW1-3) and comfort/efficiency adjustment switch (SW1-4) on control center are OFF.

‡ Ductwork must be sized for high-heating CFM within the operational range of ESP.

†† Operation within the blank areas of the chart is not recommended because high-heat operation will be above 1.0 ESP.

*** All airflows on 110 size furnace are 5% less on side return only installations.

AIR DELIVERY—POWER DRAW (WATTS)***

Unit Size	Operating Mode	CFM Airflow Setting	External Static Pressure Range*	External Static Pressure (ESP)									
				0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9	1.0
036070				POWER DRAW(WATTS)**									
††	Low Heat	735†	0-0.50	84	100	119	133	148					
	High Heat	1180	0-1.0	277	256	287	318	347	381	407	435	462	485
††	1-1/2-Ton A/C Cooling	525	0-0.50‡	48	63	74	86	98					
	2-Ton A/C Cooling	700	0-0.50‡	75	90	108	121	135					
††	2-1/2-Ton A/C Cooling	875	0-1.0‡	123	145	163	183	202	221	238	257	275	297
	3-Ton A/C Cooling	1050	0-1.0‡	181	205	226	253	278	302	326	350	371	392
††	3-1/2-Ton A/C Cooling	1225	0-1.0	254	289	320	355	384	416	444	472	495	515
	Maximum	1400	0-1.0	381	413	462	490	527	556	586	607	616	608
048090													
††	Low Heat	985†	0-1.0	115	144	170	197	224	251	279	306	334	359
	High Heat	1210	0-1.0	187	216	245	280	314	343	375	407	435	463
††	1-1/2-Ton A/C Cooling	525	0-0.50‡	45	61	77	93	107					
	2-Ton A/C Cooling	700	0-0.50‡	61	78	96	118	138					
††	2-1/2-Ton A/C Cooling	875	0-1.0‡	87	110	136	159	183	207	229	254	283	304
	3-Ton A/C Cooling	1050	0-1.0‡	127	159	185	214	242	271	301	329	356	384
††	3-1/2-Ton A/C Cooling	1225	0-1.0‡	191	223	246	283	312	349	378	412	441	469
	4-Ton A/C Cooling	1400	0-1.0	267	304	342	382	424	463	495	531	558	587
††	Maximum	1600	0-1.0	390	434	483	526	568	608	617	623	630	625
	066110***												
††	Low Heat	1440†	0-1.0	209	250	287	334	371	411	440	485	528	566
	High Heat	2005	0-1.0	499	554	601	656	707	761	810	856	898	937
††	2-Ton A/C Cooling	700	0-0.50‡	63	81	102	120	140					
	2-1/2-Ton A/C Cooling	875	0-0.50‡	78	106	125	148	168					
††	3-Ton A/C Cooling	1050	0-0.50‡	107	136	163	195	226					
	3-1/2-Ton A/C Cooling	1225	0-1.0‡	143	181	215	253	287	318	347	384	408	451
††	4-Ton A/C Cooling	1400	0-1.0‡	191	230	264	318	354	399	429	474	521	557
	5-Ton A/C Cooling	1750	0-1.0‡	356	394	436	487	524	571	616	664	706	753
††	6-Ton A/C Cooling	2100	0-1.0	563	626	671	731	784	837	895	934	978	1010
	Maximum	2200	0-1.0	631	692	761	814	878	922	967	1023	1059	1091
066135													
††	Low Heat	1700†	0-1.0	321	371	430	469	509	562	608	666	706	757
	High Heat	1915	0-1.0	429	476	542	601	658	730	778	832	902	944
††	2-Ton A/C Cooling	700	0-0.50‡	61	83	107	128	149					
	2-1/2-Ton A/C Cooling	875	0-0.50‡	76	107	134	160	187					
††	3-Ton A/C Cooling	1050	0-0.50‡	103	135	174	208	240					
	3-1/2-Ton A/C Cooling	1225	0-1.0‡	131	174	210	253	289	336	374	423	459	511
††	4-Ton A/C Cooling	1400	0-1.0‡	201	250	283	330	376	410	453	491	533	565
	5-Ton A/C Cooling	1750	0-1.0‡	343	400	450	491	535	584	630	681	730	779
††	6-Ton A/C Cooling	2100	0-1.0	573	631	705	762	827	890	943	998	1044	1091
	Maximum	2200	0-1.0	656	725	803	863	928	984	1047	1087	1126	1142
066155													
††	Low Heat	1715†	0-1.0	310	366	402	443	486	525	580	621	668	719
	High Heat	1970	0-1.0	442	493	547	604	655	720	770	826	879	932
††	2-Ton A/C Cooling	700	0-0.50‡	60	79	105	126	147					
	2-1/2-Ton A/C Cooling	875	0-0.50‡	73	97	128	154	178					
††	3-Ton A/C Cooling	1050	0-0.50‡	96	122	153	196	226					
	3-1/2-Ton A/C Cooling	1225	0-1.0‡	121	166	201	244	277	314	358	400	441	491
††	4-Ton A/C Cooling	1400	0-1.0‡	188	225	266	299	345	389	423	462	498	540
	5-Ton A/C Cooling	1750	0-1.0‡	322	367	422	466	498	546	598	653	693	740
††	6-Ton A/C Cooling	2100	0-1.0	500	557	620	691	743	814	864	936	985	1027
	Maximum	2200	0-1.0	592	673	746	811	885	935	994	1026	1102	1129

* Actual external static pressure (ESP) can be determined by using the fan laws (CFM² proportional to ESP); such as, a system with 1180 CFM at 0.5 ESP would operate at cooling airflow of 1050 CFM at 0.4 ESP and low-heating airflow of 735 CFM at 0.19 ESP.

† Low heat CFM when low-heat rise adjustment switch (SW1-3) and comfort/efficiency adjustment switch (SW1-4) on control center are OFF.

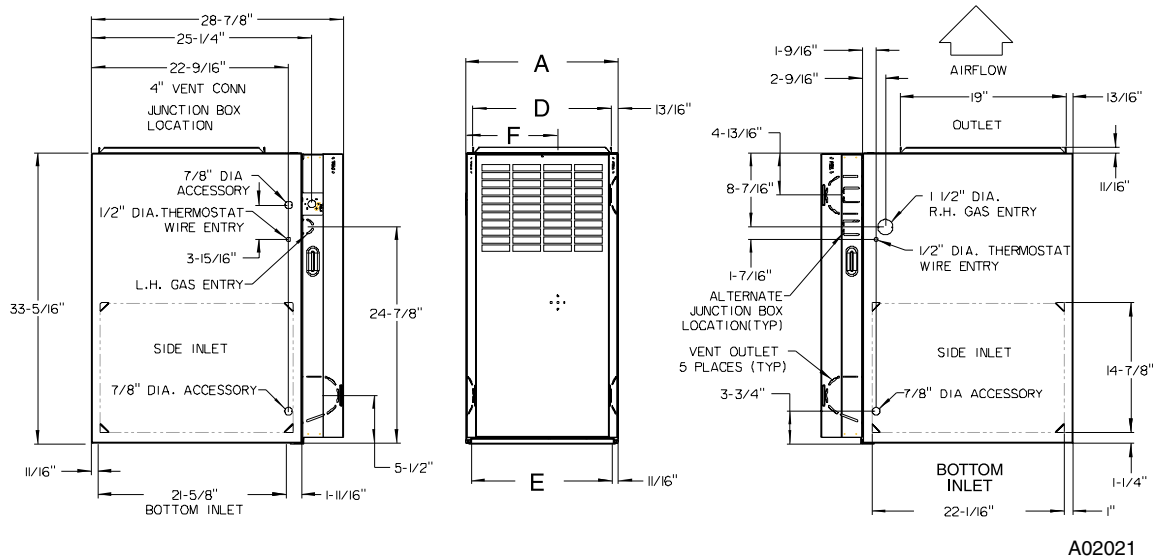
‡ Ductwork must be sized for high-heating CFM within the operational range of ESP.

** Wattage data provided is for the circulating blower with bottom return and does not include draft inducer, accessories, or gas controls.

†† Operation within the blank areas of the chart is not recommended because high-heat operation will be above 1.0 ESP.

*** All airflows on 110 size furnace are 5% less on side return only installations.

Dimensions

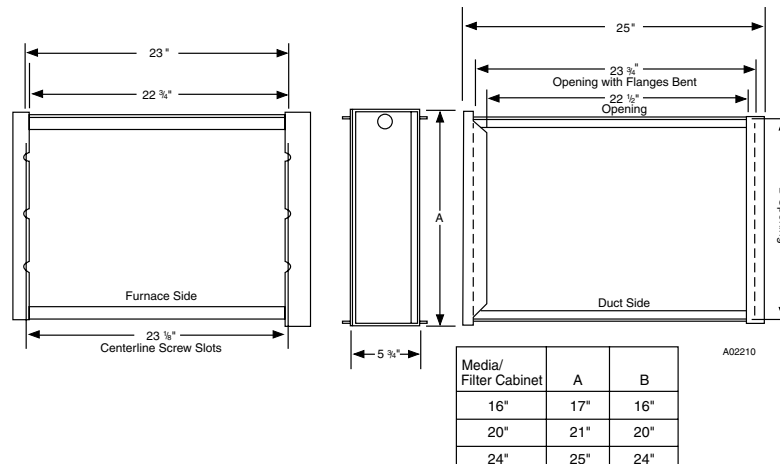


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- NOTES:
- Two additional 7/8-in. dia. knockouts are located in the top plate.
 - Minimum return-air openings at furnace, based on metal duct. If flex duct is used, see flex duct manufacturer's recommendations for equivalent diameters.
 - Minimum return-air opening at furnace.
 - For 800 CFM-16-in. round or 14-1/2 x 12-in. rectangle.
 - For 1200 CFM-20-in. round or 14-1/2 x 19-1/3 in. rectangle.
 - For 1600 CFM-22-in. round or 14-1/2 x 23-1/4-in. rectangle.
 - For airflow requirements above 1800 CFM, see Air Delivery table in Product Data literature for specific use of single side inlets. The use of both side inlets, a combination of 1 side and the bottom, or the bottom of single side inlets. The use of both side inlets, a combination of 1 side and the bottom, or the bottom only will ensure adequate return air openings for airflow requirements above 1800 CFM.

58CVA/CVX UNIT SIZE	A (CABINET WIDTH)	D (SUPPLY WIDTH)	E (BOTTOM RETURN WIDTH)	F (CL TOP VENT OUTLET)	VENT CONNECTION SIZE (see notes 1 & 2)	MEDIA CABINET SIZE
070-12	14-3/16	12-9/16	12-11/16	9-5/16	4	16"
090-16	17-1/2	15-7/8	16-1/8	11-9/16	4	16"
110-22	21	19-3/8	19-1/2	13-5/16	4	20"
135-22	24-1/2	22-7/8	23	15-1/16	4 (note 1)	24"
155-22	24-1/2	22-7/8	23	15-1/16	4 (note 1)	24"

- 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 POUCHES 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

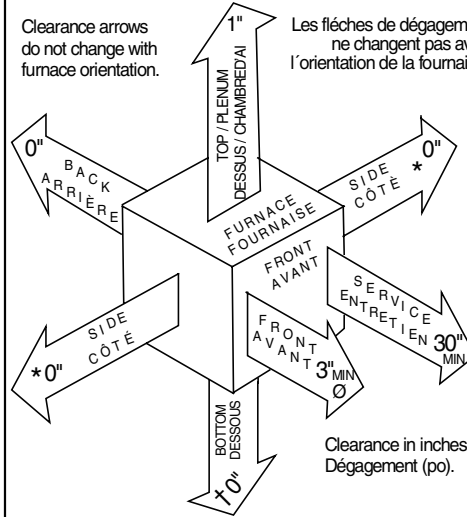
Cette fournaise peut être utilisée avec un conduit d'évacuation de Type B-1 ou connectée au conduit commun d'autres appareils à gaz.

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.

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 POUCHES 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.

- 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.

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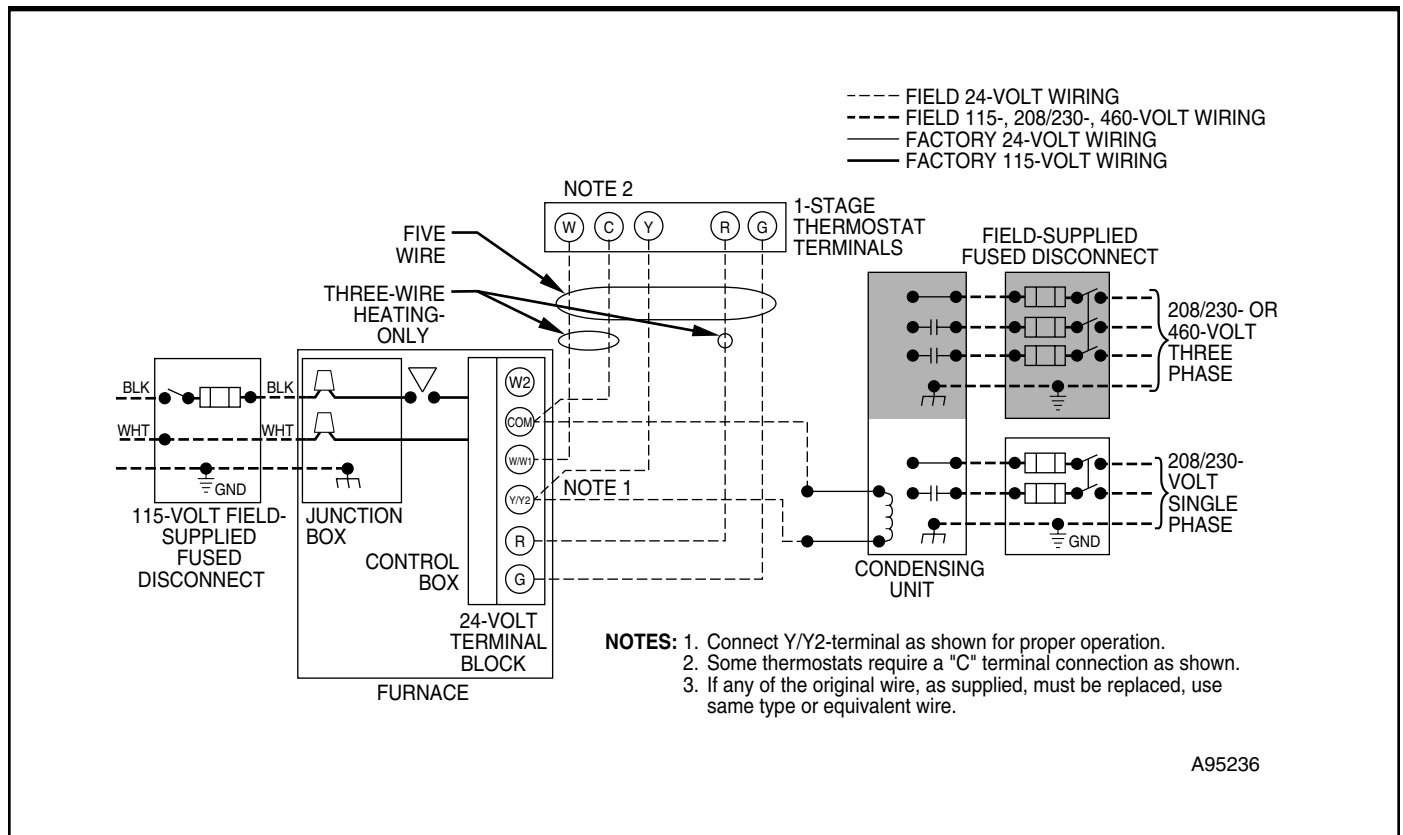
MEETS DOE RESIDENTIAL
CONSERVATION SERVICES
PROGRAM STANDARDS.

REGISTERED QUALITY SYSTEM



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

Typical wiring schematic



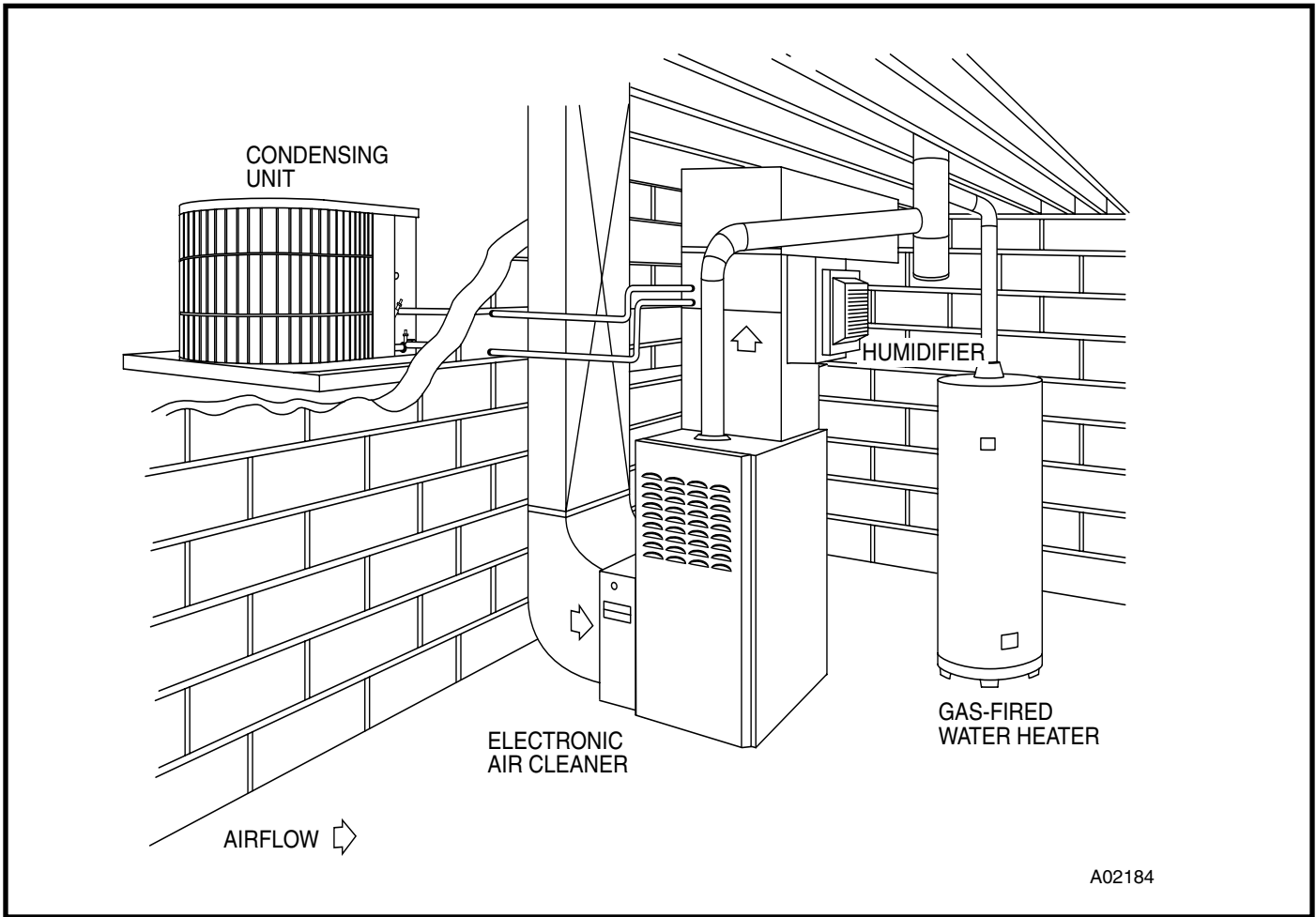
Electrical data

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*				
070-12	115-60-1	127	104	9.0	30	15	14
090-14	115-60-1	127	104	9.6	29	15	14
110-22	115-60-1	127	104	15.1	29	20	12
135-22	115-60-1	127	104	14.9	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.



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