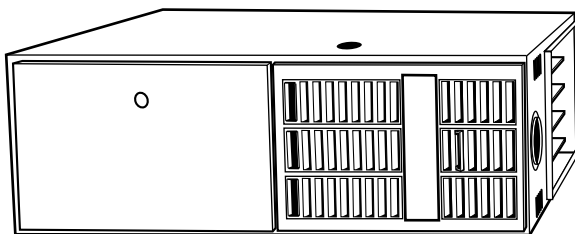
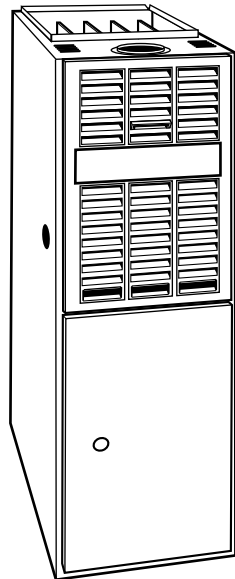




Product Data

58UXT WeatherMaker® 8000 Two-Speed High-Efficiency Upflow/Horizontal Furnace

Input Capacities:
60,000 thru 120,000 Btuh



Two-Speed Heating for High-Efficiency Gas Furnaces

Carrier leads the industry with our new WeatherMaker® 8000 Two-Speed Upflow/Horizontal Induced-Combustion Gas Furnace. This furnace can operate at 2 different speed settings which provide outstanding home comfort. The WeatherMaker 8000 Two-Speed is built with the most advanced manufacturing equipment, processes, and technology available in order to ensure top quality. Packed into the cabinet are the industry's foremost dealer and homeowner features. The WeatherMaker 8000 Two-Speed is the latest addition to Carrier's list of product leadership in the gas furnace industry.

These 2-speed induced-combustion, gas-fired furnaces offer not only low installation costs, but fuel economy as well—delivering an Annual Fuel Utilization Efficiency (AFUE) rating of 80.0%. The WeatherMaker 8000 Two-Speed utilizes a hot surface, silicon carbide ignition system to save energy and increase reliability.

Our design uses the patented S-shaped 4-pass heat exchanger, a soft mount 2-speed inducer assembly, and a 2-stage slow-opening gas valve to minimize sound level. The Super-S heat exchanger provides better heat transfer while enabling us to make a compact furnace. This provides more room in closet, utility room, and short basement installations. The heat exchanger is constructed of aluminized steel and is backed by a 20-year Limited Warranty.

The WeatherMaker 8000 Two-Speed will meet your home heating requirements. This furnace family provides a wide range of heating capacities. All models are GAMA efficiency rating certified and certified for use in California Air Quality Management Districts.

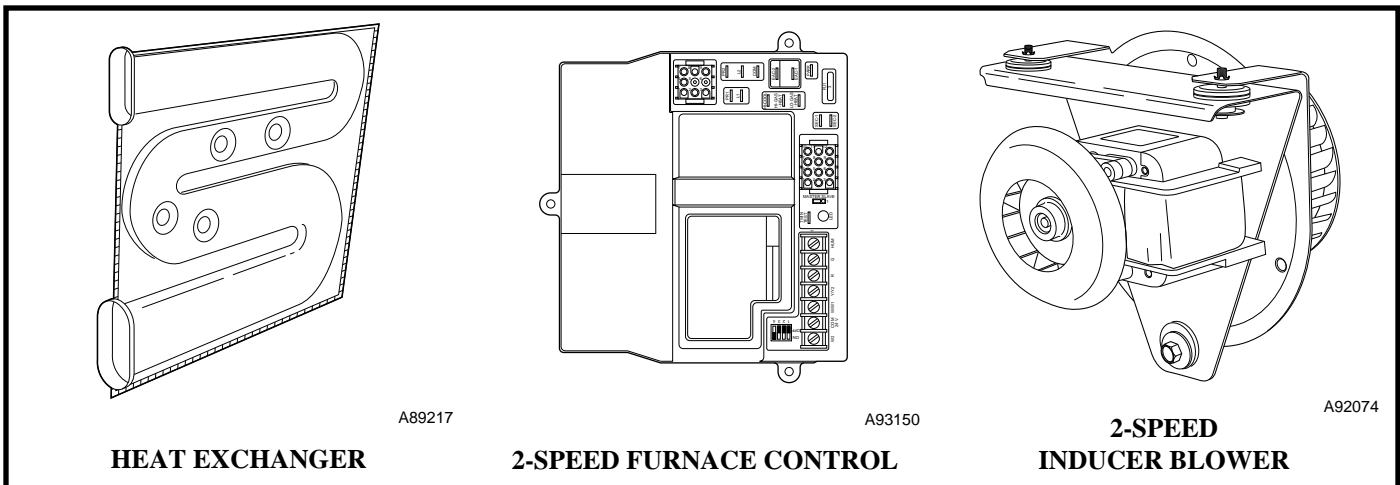
The superior attention to cabinet detail is obvious. The WeatherMaker 8000 Two-Speed features 1-piece, seamless, wrap-around construction. There are no spot welds on the exterior surfaces of the WeatherMaker 8000 Two-Speed. There is also double protection for the cabinet. First, a galvanized steel substrate provides resistance to rusting. Then the cabinet is constructed of prepainted steel—the same high-quality

finish found on refrigerators and dishwashers.

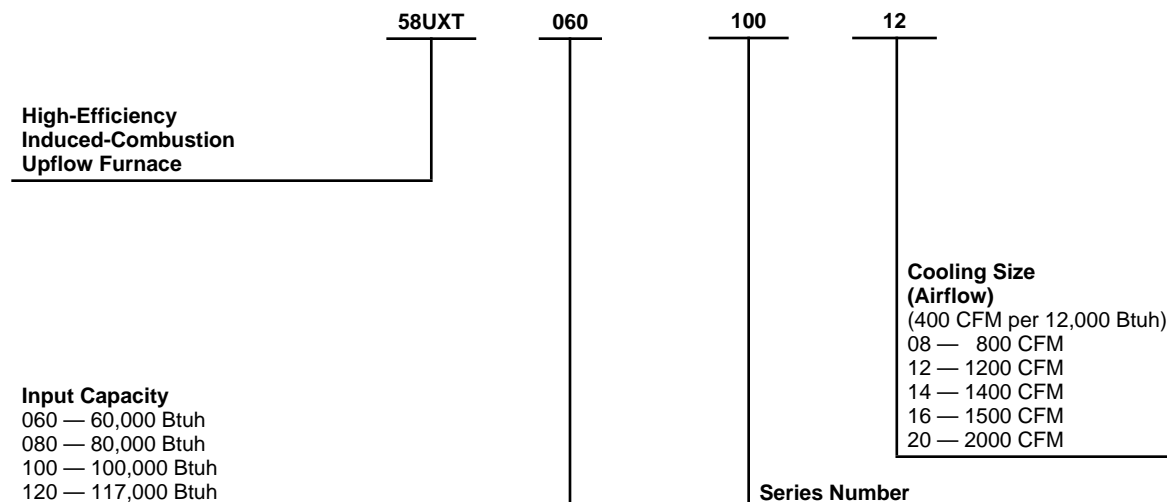
Perhaps the most advanced feature of the WeatherMaker 8000 Two-Speed is the state-of-the-art microprocessor control center which shows true leadership in furnace technology. The simplified electronics in this control provide high reliability while performing many of the functions of older, electro-mechanical devices in other furnaces. Advanced features of the control show Carrier's true leadership in furnace technology. The control provides blower delay at start-up and shutdown, while monitoring furnace operations and functions. In the unlikely event of a service call, in less than a minute, the technician can use the self-test feature to

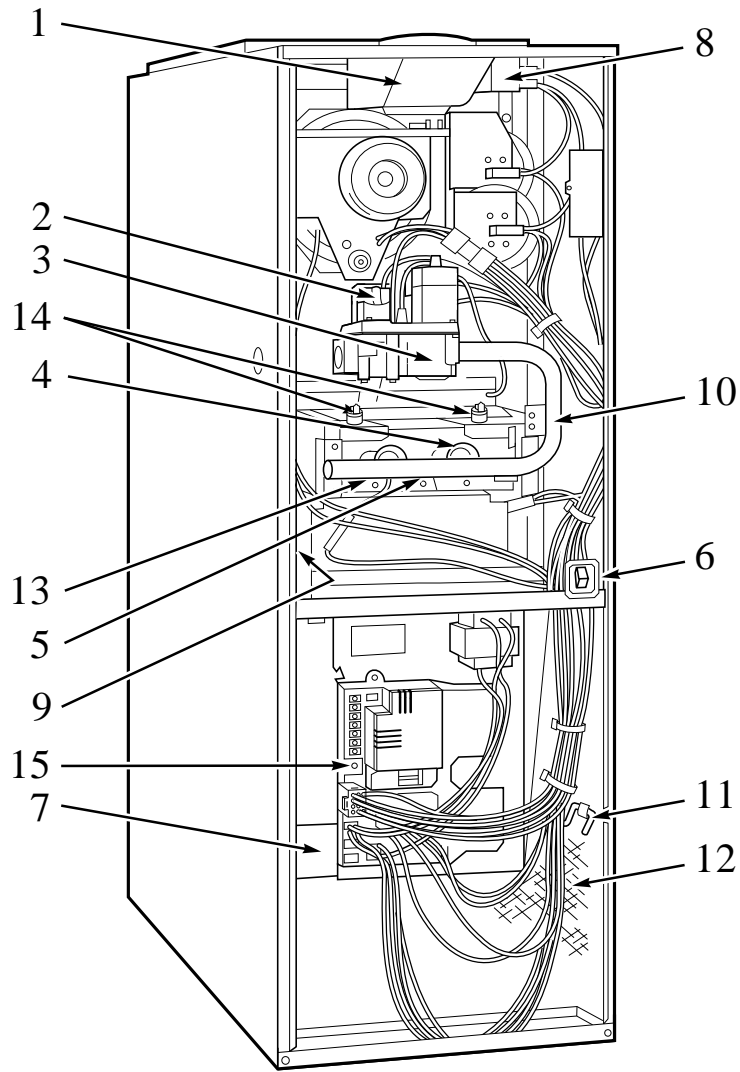
determine if a major component has failed. The control will check itself, then the low and high inducer speeds, silicon carbide ignition, and low-, medium-, and high-speed blower. The control also features a 3-amp fuse that protects the transformer and control.

Best of all, the WeatherMaker 8000 Two-Speed is easily installed. Many features make this furnace the easy choice for replacement or new construction markets. Left and right connections are provided for gas and electrical supplies. An easy-to-remove bottom, heating and cooling blower speed selection, low-voltage humidifier, and electronic air cleaner terminal connections are among other features.



Model number nomenclature



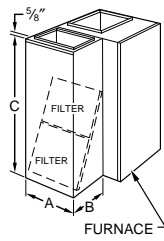


A95225

NOTE: The 58UXT Furnaces are for use with natural gas, but can be field-converted for propane gas with a factory-authorized and listed accessory conversion kit.

NOTE: Control location and actual control may be different than shown above.

- | | | | |
|---|---------------------------------|---|---|
| 1 | Relief Box | 9 | Rating Plate |
| 2 | Gas Valve Control Knob (On/Off) | J | Gas Manifold |
| 3 | 2-Stage Gas Valve | K | Filter Retainer |
| 4 | Gas Burner | L | Air Filter |
| 5 | Hot Surface Ignitor | M | Flame Sensor |
| 6 | Blower Door Safety Switch | N | Manual Reset Flame Rollout Switches (2) |
| 7 | Blower and Blower Motor | O | Status LED Light |
| 8 | Draft Safeguard Tube and Switch | | |

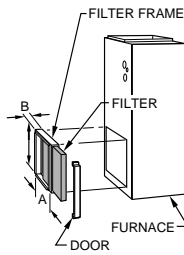


A93067

RETURN-AIR PLENUM

Custom-made return-air plenum can be mounted on either side of the furnace. Includes washable filters .

A	25 in.
B	16 in.
C	39-7/8 in.

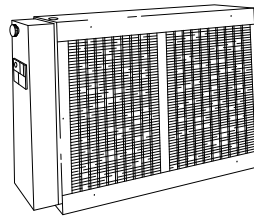


A93068

SIDE FILTER RACK

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

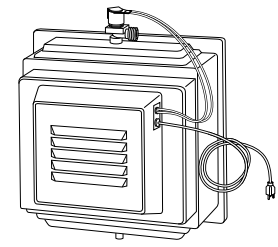
A	23-1/8 in.
B	2-3/8 in.
C	14-1/2 in.



A91465

MODEL 31KAX ELECTRONIC AIR CLEANER

Cleans the air of smoke, dirt, and many pollens commonly found. Saves on decorating and cleaning expenses.



A91365

MODEL 49FH 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.

UNIT SIZE	060-12	080-16	100-16	120-20
ELECTRONIC AIR CLEANER	Model 31KAX			
HUMIDIFIER	Model 49FH			
THERMOSTAT	See Thermostat Master Price Pages			
RETURN-AIR PLENUM (With Washable Filters)	KGARP0201ALL			
SIDE FILTER RACK (Accepts (one) 16 x 25 x 1 Filter)	KGAFR0201ALL			
TWINNING KIT†	KGATW0301HSI			
HIGH-ALTITUDE PRESSURE SWITCH KIT‡	KGAHA5501PSW			
GAS CONVERSION KIT*— NATURAL-TO-PROPANE	KGANP24012SP			
PROPANE-TO-NATURAL	KGAPN20012SP			

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

† 16 and 20 models only.

‡ 5500 ft and higher above sea level.

Physical data

UNIT SIZE		060-12	080-16	100-16	100-20	120-20
OUTPUT CAPACITY (BTUH)†	High Stage	48,000	64,000	81,000	81,000	94,000
	Nonweatherized ICS	31,000	42,000	52,000	52,000	63,000
GAS INPUT (BTUH)*	High Stage	60,000	80,000	100,000	100,000	117,000
	Low Stage	39,000	52,000	65,000	65,000	78,000
SHIPPING WEIGHT (LB)		134	154	166	184	194
CERTIFIED TEMP RISE RANGE (°F)	High Stage	25-55	30-60	40-70	25-55	40-70
	Low Stage	15-45	15-45	20-50	15-45	25-55
CERTIFIED EXT STATIC PRESSURE (In. wc)	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	1175/1025	1445/1260	1410/1265	1720/1515	1730/1525
	Cooling	1300	1740	1575	2210	1980
LIMIT CONTROL		SPST (Auto-Reset)				
HEATING BLOWER CONTROL		Solid-State Time Operation				
INDUCER		2-Speed				
BURNERS (Monoport)		3	4	5	5	6
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. In Canada, derate the unit 10% for elevations 2000 ft to 4500 ft above sea level.

† Tentative capacity and AFUE in accordance with U.S. Government DOE test procedures.

‡ Air delivery above 1800 CFM requires that both sides, or a combination of 1 side and bottom, or bottom only of the furnace be used for return air. A filter is required for each return-air supply.

ICS — Isolated Combustion System

Dimensions

CLEARANCES (In.)

UNIT SIZE		060	080-120
UPFLOW			
Furnace Sides	Single-Wall Vent	1	0
	Type B-1 Double-Wall Vent	0	0
Furnace Back		0	0
Plenum Top		1	1
Furnace Front (See Notes)	Single-Wall Vent	6	6
	Type B-1 Double-Wall Vent	3	3
Vent	Single-Wall Vent	6	6
	Type B-1 Double-Wall Vent	1	1

* Clearance shown is for the outlet end. The inlet end must maintain 6 in. clearance from flue to combustible materials when using single-wall vent.

† 18 in. front clearance required for alcove.

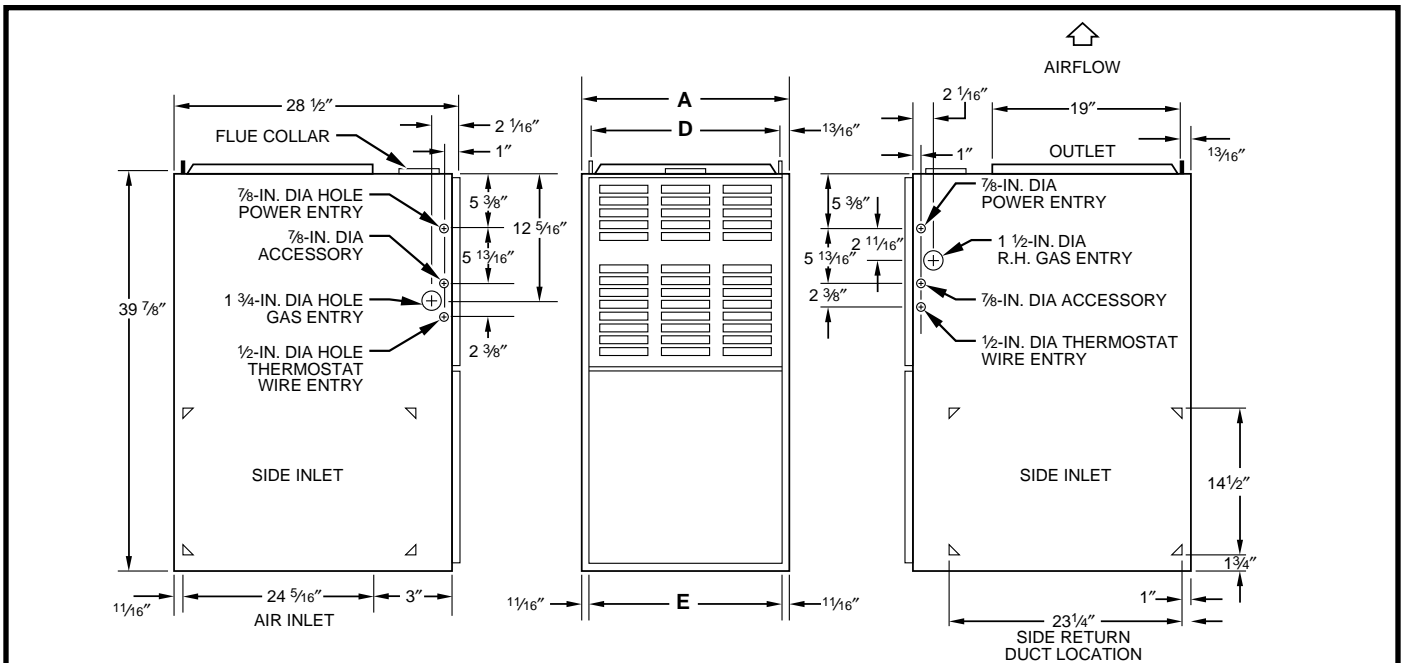
‡ Indicates supply or return sides when furnace is in the horizontal position.

NOTES:

1. Provide 30-in. front clearance for servicing. An open door in front of the furnace can meet this requirement.
2. A minimum clearance of 3 in. must be provided in front of the furnace for combustion air and proper operation.

HORIZONTAL POSITION (IN ALCOVE, ATTIC, AND CRAWLSPACE)			
Sides*‡		1	1
Back		0	0
Top	Single-Wall Vent	1	1
	Type B-1 Double-Wall Vent	1	1
Furnace Front† (See Notes)	Single-Wall Vent	6	6
	Type B-1 Double-Wall Vent	3	3
Vent	Single-Wall Vent	6	6
	Type B-1 Double-Wall Vent	1	1

HORIZONTAL POSITION (IN CLOSET)			
Sides*‡		1	1
Back		3	3
Top	Single-Wall Vent	2	2
	Type B-1 Double-Wall Vent	2	2
Furnace Front (See Notes)	Single-Wall Vent	6	6
	Type B-1 Double-Wall Vent	3	3
Vent	Single-Wall Vent	6	6
	Type B-1 Double-Wall Vent	1	1



NOTE: 2 additional 7/8 In. Dia knockouts are located in the top plate.

NOTES:

- Minimum return-air opening at furnace:
1. For 800 CFM—16-in. round or 14 1/2 x 12-in. rectangle.
 2. For 1200 CFM—20-in. round or 14 1/2 x 19 1/2-in. rectangle.
 3. For 1600 CFM—22-in. round or 14 1/2 x 23 1/4-in. rectangle.
 4. For airflow requirements above 1800 CFM, use both side inlets, a combination of 1 side inlet and the bottom, or the bottom only.

A88367

NOTES:

1. A factory-supplied panel covers the back side of the accessory return-air plenum that extends above the furnace.
2. Refer to the furnace Installation Instructions for proper venting procedures.

DIMENSIONS (In.)

UNIT SIZE	A	D	E	VENT CONNECTION
060-12	14-3/16	12-9/16	12-11/16	4
080-16	21	19-3/8	19-1/2	4
100-16	21	19-3/8	19-1/2	4
100-20	24-1/2	22-7/8	23	4
120-20	24-1/2	22-7/8	23	5

Performance data

UNIT SIZE	060-12	080-16	100-16	100-20	120-20
DIRECT-DRIVE MOTOR Hp (PSC)	1/3	1/2	1/2	3/4	3/4
MOTOR FULL LOAD AMPS	5.8	7.9	7.9	11.1	11.1
RPM (Nominal) — SPEEDS	1075-4	1075-4	1075-4	1075-4	1075-4
BLOWER WHEEL DIAMETER X WIDTHS (In.)	10 x 6	10 x 8	10 x 8	11 x 10	11 x 10
WASHABLE 16 x 25 x 1-in. FILTER — QTY	1	—	—	2	2
WASHABLE 20 x 25 x 1-in. FILTER — QTY	—	1	1	—	—

PSC — Permanent Split Capacitor

EFFICIENCY

UNIT SIZE		060-12	080-16	100-16	100-20	120-20
CAPACITY BTUH*	High Stage	48,000	64,000	81,000	81,000	94,000
	Low Stage	31,000	42,000	52,000	52,000	63,000
AFUE %* Nonweatherized ICS		80.0	80.0	80.0	80.0	80.0

*Tentative capacity and AFUE in accordance with U.S. Government DOE test procedures.

ICS — Isolated Combustion System

AIR DELIVERY — CFM* (With Filter)

UNIT SIZE	SPEED	EXTERNAL STATIC PRESSURE (In. wc)							
		0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8
060-12	High	—	1485	1430	1365	1300	1220	1140	1045
	Med-High	—	1355	1305	1260	1200	1135	1055	960
	Med-Low	1175	1170	1140	1110	1055	1005	950	860
	Low	1025	1015	995	965	930	885	825	745
080-16	High	2010	1950	1875	1810	1740	1660	1550	1455
	Med-High	1675	1660	1625	1600	1545	1490	1395	1295
	Med-Low	1445	1430	1415	1400	1370	1325	1265	1170
	Low	1260	1260	1260	1250	1210	1180	1115	1030
100-16	High	1880	1815	1745	1690	1575	1500	1400	1265
	Med-High	1660	1615	1570	1505	1435	1355	1260	1170
	Med-Low	1455	1410	1375	1350	1290	1235	1145	985
	Low	1265	1265	1240	1210	1180	1110	995	855
100-20	High	2475	2405	2330	2265	2210	2130	2040	1945
	Med-High	2055	2025	2000	1965	1930	1865	1795	1720
	Med-Low	1725	1720	1705	1685	1665	1630	1585	1525
	Low	1500	1515	1510	1500	1480	1460	1415	1370
120-20	High	—	2210	2130	2055	1980	1895	1795	1680
	Med-High	2015	1975	1925	1880	1805	1735	1655	1555
	Med-Low	1730	1710	1670	1635	1590	1535	1470	1385
	Low	1525	1520	1495	1450	1410	1375	1315	1245

*Air delivery above 1800 CFM requires that both sides, or a combination of 1 side and bottom, or bottom only of the furnace be used for return air. A filter is required for each return-air supply opening.

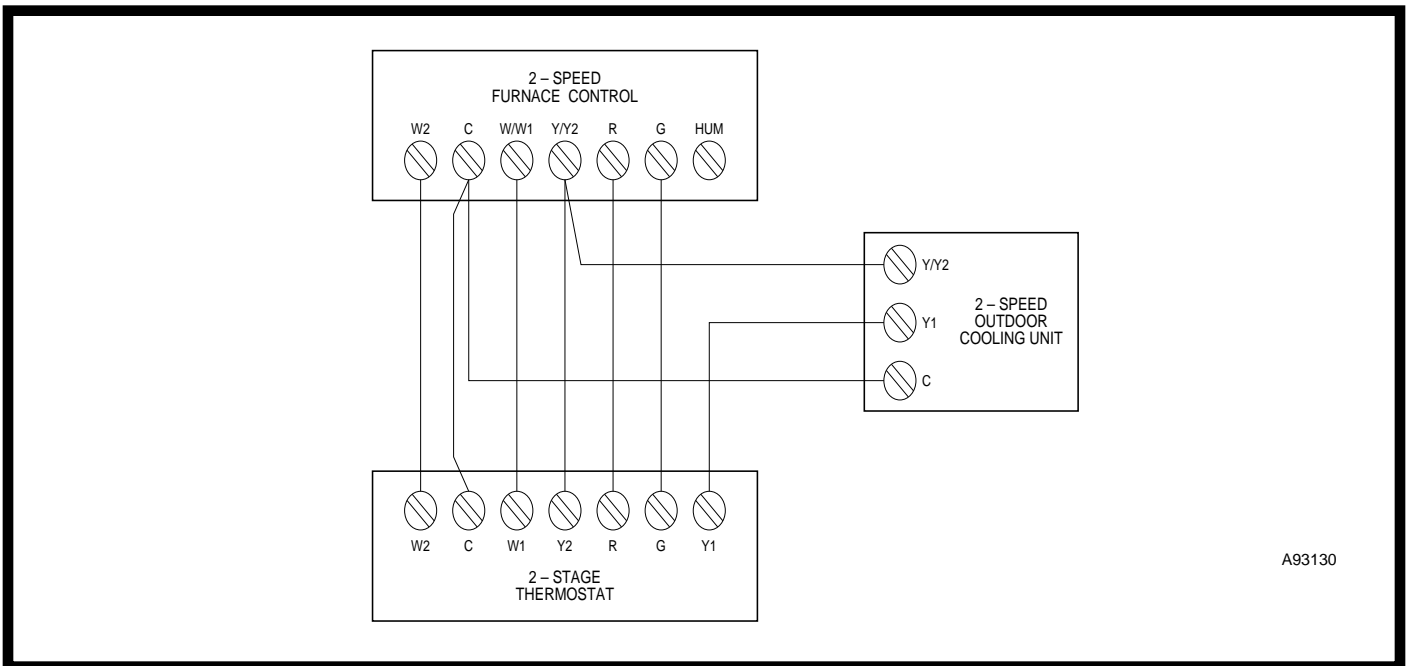
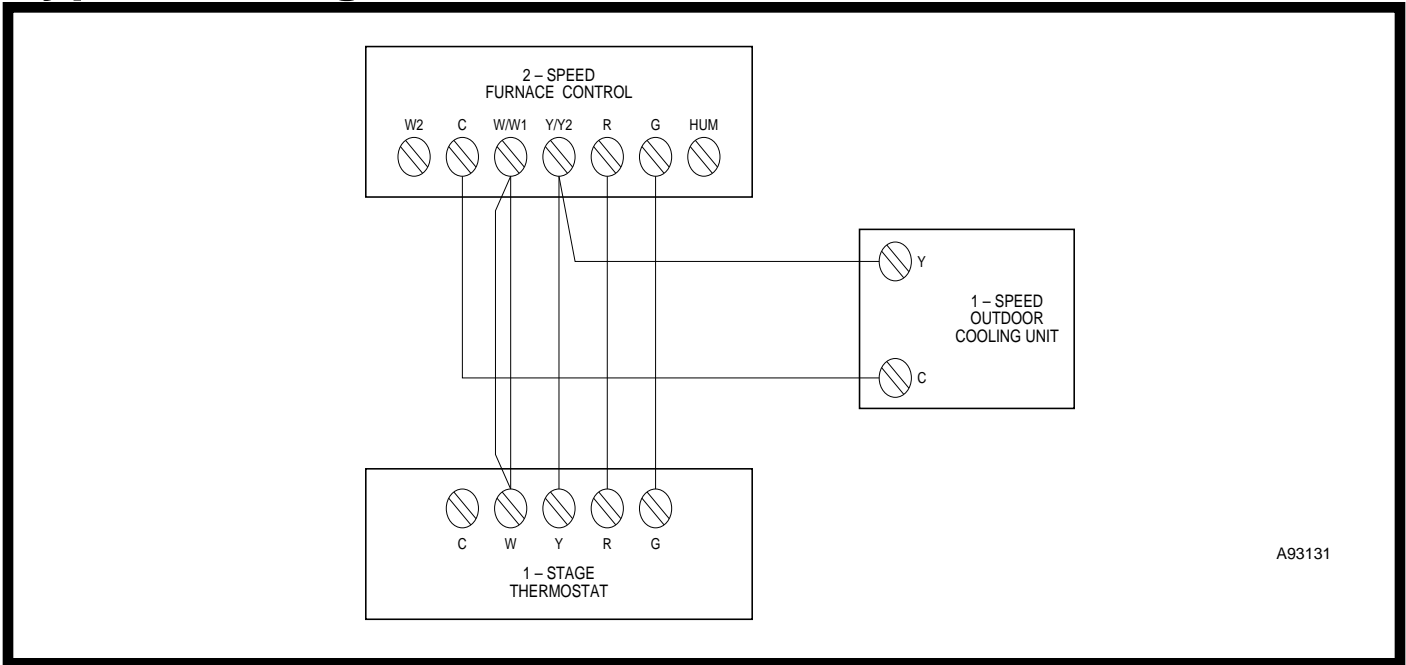
—Indicates unstable operating conditions.

MEETS DOE RESIDENTIAL CONSERVATION SERVICES PROGRAM STANDARDS.

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



Typical wiring schematic



Electrical data

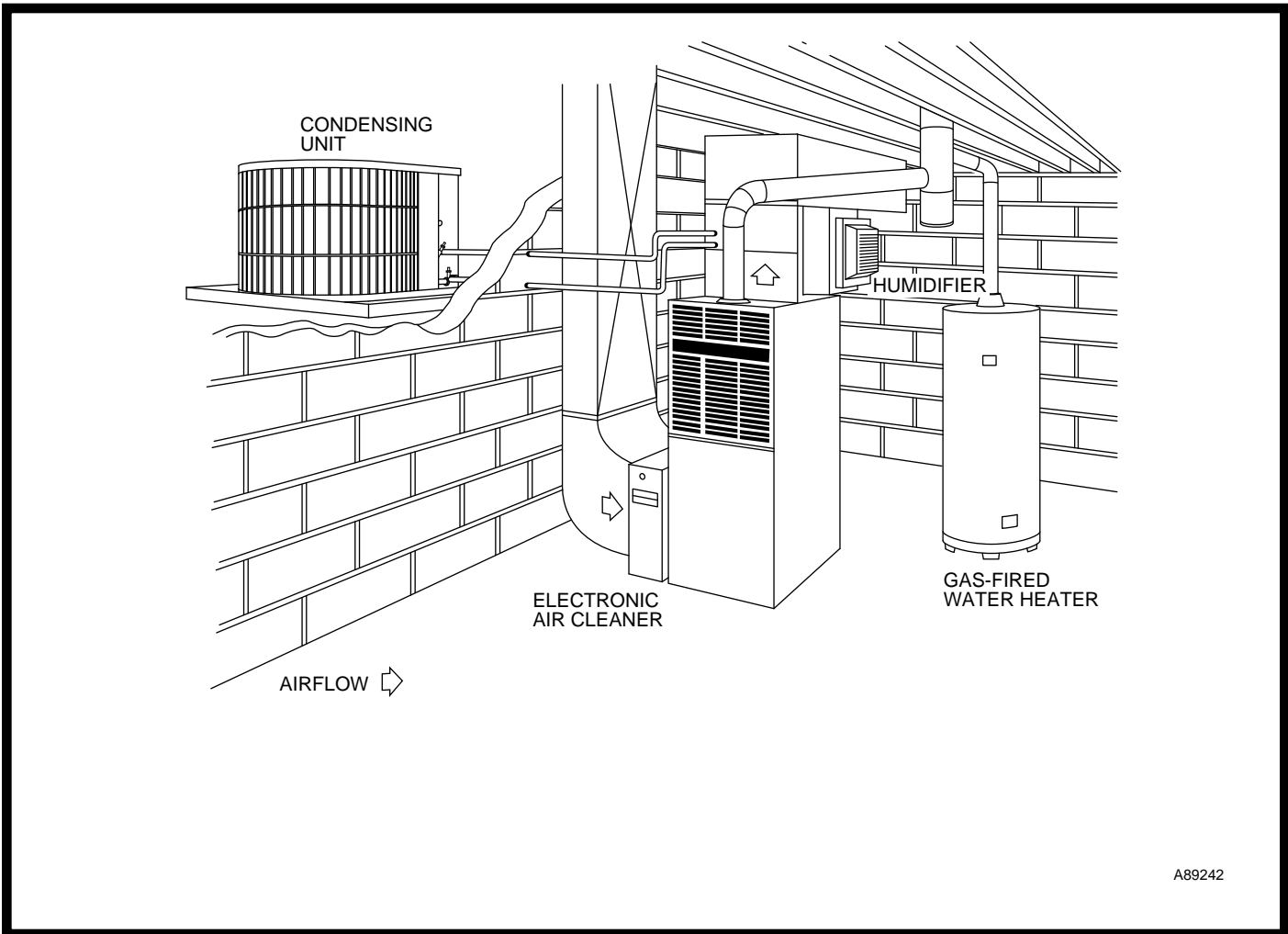
UNIT SIZE	060-12	080-16	100-16	100-20	120-20
UNIT VOLTS—HERTZ—PHASE	115—60—1				
MINIMUM WIRE SIZE	14	14	14	12	12
MAXIMUM WIRE LENGTH (Ft)*	32	27	28	30	31
MAXIMUM UNIT AMPS	11.4	13.5	13.2	19.0	18.2
OPERATING VOLTAGE RANGE (Min—Max)†	104—127				
MAX FUSE SIZE OR HACR-TYPE CKT BKR (Amps)‡	15	15	15	20	20
TRANSFORMER (24v)	40va				
EXTERNAL CONTROL POWER AVAILABLE	Heating				
	Cooling				
AIR CONDITIONING BLOWER RELAY	Standard				

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

† Permissible limits of the voltage range at which the unit will operate satisfactorily.

‡ Time-delay fuse is recommended.

Typical installations



A89242

SERVICE TRAINING

Packaged Service Training programs are an excellent way to increase your knowledge of the equipment discussed in this manual, including:

- Unit Familiarization
- Maintenance
- Installation Overview
- Operating Sequence

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