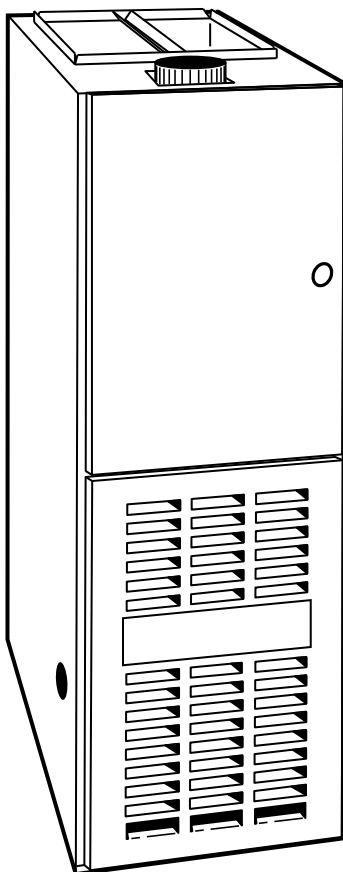




Product Data

58DXT WeatherMaker® 8000TS Energy-Efficient Downflow Comfort Heat Technology™ Gas Furnace

Series 120
California Approved
Input Capacities:
60,000 thru 100,000 Btuh



ComfortHeat
TECHNOLOGY

Comfort Heating for Energy Efficient Gas Furnaces

Carrier continues to lead the industry with our new WeatherMaker® 8000TS Downflow Induced-Combustion Gas Furnace. Our furnace operates at 2 different heating stages which provide outstanding home comfort. This furnace 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.

These Comfort Heat Technology™ 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 percent. The WeatherMaker 8000TS utilizes a hot surface, silicon carbide ignition system to save energy and increase reliability.

Our engineers have incorporated 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, providing 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 8000TS 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.

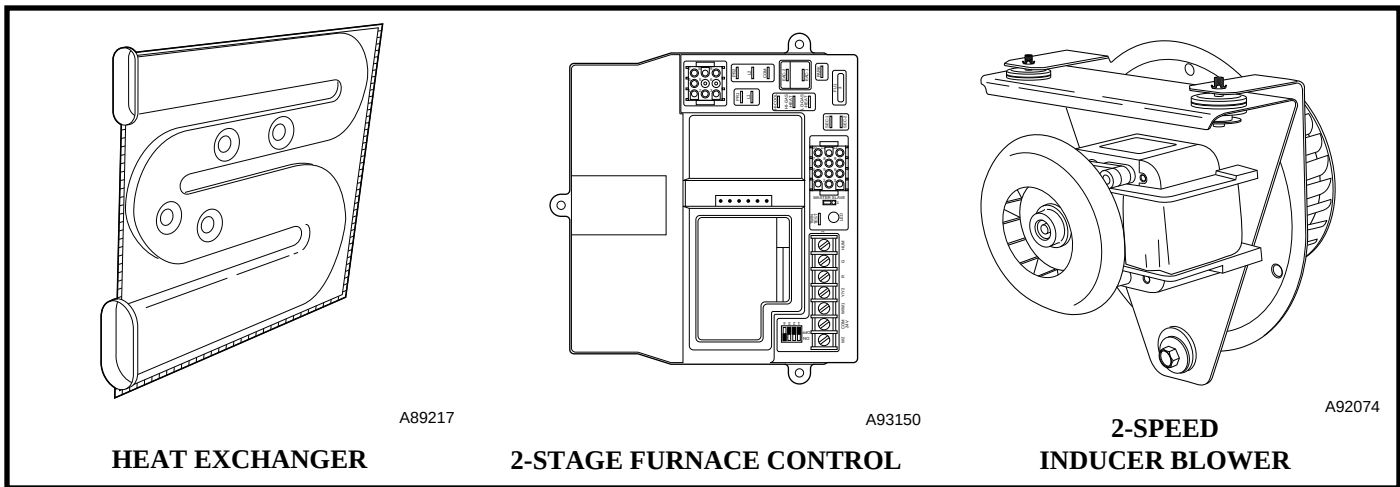
The superior attention to cabinet detail is obvious. The WeatherMaker 8000TS features 1-piece, seamless, wrap-around construction. There are no spot welds on the exterior surfaces of the furnace. There is also double protection for the cabinet. First, a galvanized steel substrate provides resistance 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 8000TS is the state-of-the-art micro-processor 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. 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 component-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; low-, medium-, and high-speed blower. Another benefit of the control is the 3-amp fuse that protects the transformer and control. Our control is backed by a 3-year Limited Warranty.

Best of all, the WeatherMaker 8000TS 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, blower speed selection, low-voltage, humidifier, and electronic air cleaner terminal connections are among other features. This furnace is designed for downflow only applications.





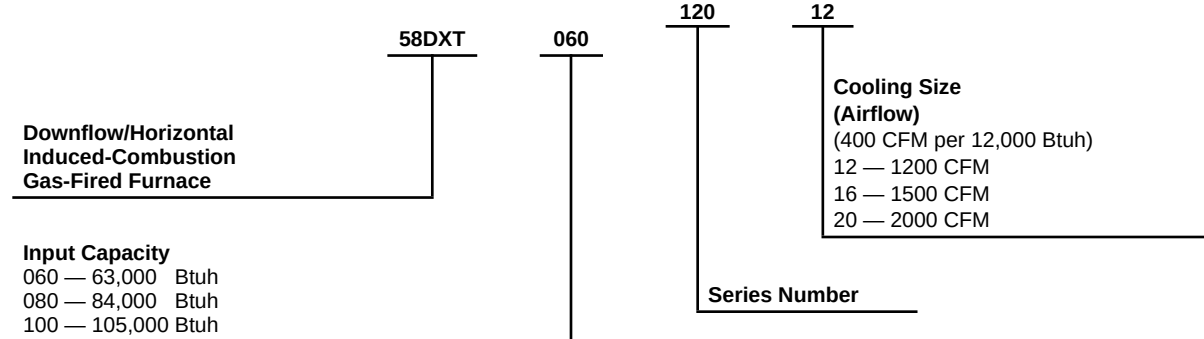


MEETS DOE RESIDENTIAL CONSERVATION SERVICES PROGRAM STANDARDS.

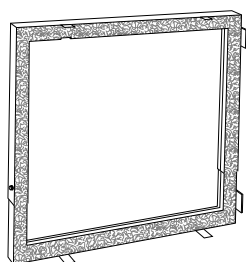
Before purchasing this appliance, read important energy cost and efficiency information available from your retailers.



Model number nomenclature



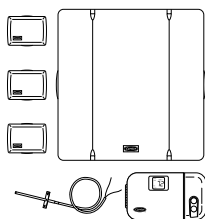
Carrier accessories*



A88202

DOWNFLOW SUBBASE

One base fits all furnace sizes. The base is designed to be installed between the furnace or coil box and a combustible floor. It is A.G.A. design certified for use with Carrier 58DXT furnaces.

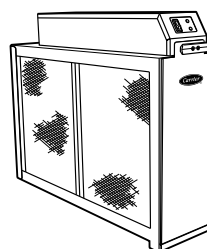


A97432

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.

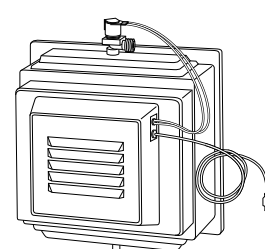


A97380

MECHANICAL OR ELECTRONIC AIR CLEANER

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

Electronic air cleaner is shown.



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	100-20
AIR CLEANER	Model AIRA or 31MF		
HUMIDIFIER	Model 49BF, 49BG, 49FH, 49FP, or 49WS		
THERMOSTAT — NON-PROGRAMMABLE	For Use with Air Conditioner — TSTATCCNAC01-B For Use with Heat Pump — TSTATCCNHP01-B		
THERMOSTAT — PROGRAMMABLE	For Use with Air Conditioner — TSTATCCPAC01-B For Use with Heat Pump — TSTATCCPHP01-B		
THERMIDISTAT™ WITH HUMIDITY CONTROL	TSTATCCPRH01-A		
DOWNFLOW SUBBASE†	KGASB0201ALL		
HIGH-ALTITUDE PRESSURE SWITCH KIT†	KGAHA5601PSW		
GAS CONVERSION KIT— NATURAL-TO-PROPANE	KGANP26012SP		
PROPANE-TO-NATURAL	KGAPN21012SP		

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

† 5500 ft and higher above sea level.

‡ Required for installation on combustible floors when no coil box is used, or when any coil box other than a Carrier cased coil is used.

Physical data

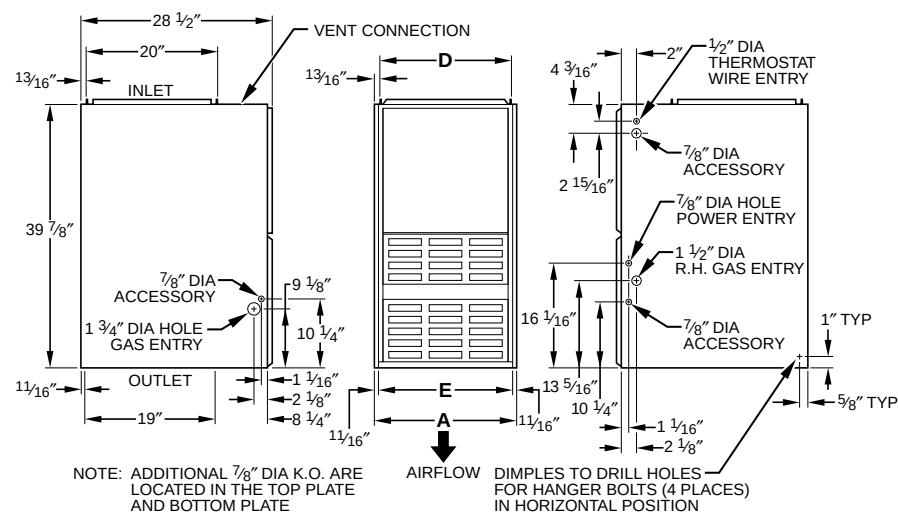
UNIT SIZE	060-12	080-16	100-20
OUTPUT CAPACITY (BTUH) High/Low† Nonweatherized ICS	51,000/33,000	69,000/44,000	86,000/55,000
INPUT BTUH* High/Low	63,000/40,500	84,000/54,000	105,000/67,500
SHIPPING WEIGHT (Lb)	145	154	181
CERTIFIED TEMP RISE RANGE (°F)	High Stage	30—60	25—55
	Low Stage	15—45	15—45
CERTIFIED EXT STATIC PRESSURE	Heating	0.10	0.15
	Cooling	0.50	0.50
AIRFLOW CFM	Heating High/Low	1195/1030	1355/1170
	Cooling	1195	1580
SECONDARY LIMIT CONTROL	Manual Reset		
LIMIT CONTROL	SPST (Auto-Reset)		
HEATING BLOWER CONTROL	Solid-State Time Operation		
INDUCER	2-Speed		
BURNERS (Monoport)	3	4	5
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)		
MAIN BURNER IGNITER	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 10-2. In Canada, derate the unit 10% for elevations 2000 ft to 4500 ft above sea level.

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

ICS—Isolated Combustion System

Dimensions



- NOTES:**
- Two additional 7/8-in. dia holes 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.
 - 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 1/2-in. rectangle.
 - For 1600 CFM—22-in. round or 14 1/2 x 23 1/4-in. rectangle.
 - For airflow requirements above 1800 CFM, must use entire return air opening.

A99109

DIMENSIONS (In.)

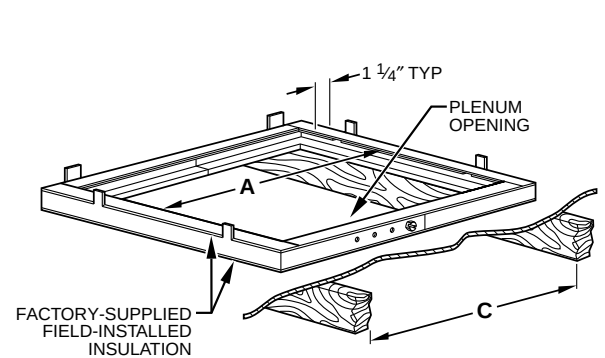
UNIT SIZE	A	D	E	VENT CONN	SHIP. WT (LB)
060-12	14-3/16	12-9/16	12-11/16	4	141
080-16	17-1/2	15-7/8	16	4	154
100-20	21	19-3/8	19-1/2	4	179

Accessory downflow subbase

DIMENSIONAL DATA (In.)

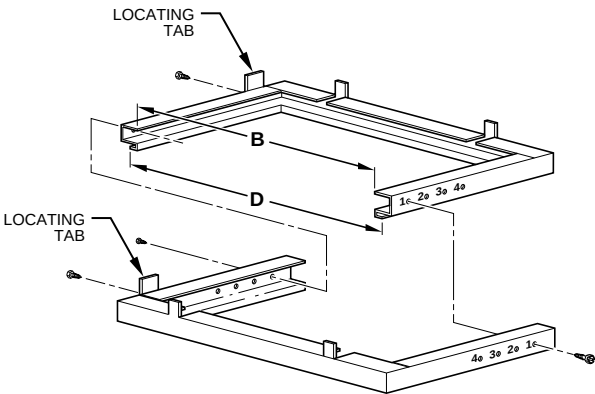
FURNACE WIDTH	PLENUM OPENING*		FRAMED FLOOR HOLE		HOLE NO. FOR WIDTH ADJUSTMENT
	A	B	C	D	
14-3/16	11-13/16	19	13-7/16	20-3/8	4
11-1/2	15-1/8	19	16-3/4	20-3/8	3
21	18-5/8	19	20-1/4	20-3/8	2

* The plenum should be constructed 1/4 in. smaller in width and depth than the plenum dimensions shown above.



A88206

Assembled



A88207

Disassembled

Dimensions

INSTALLATION	
This unit is certified for downflow installation only. See Installation Manual for important installation instructions.	
MINIMUM INCHES CLEARANCE TO COMBUSTIBLE CONSTRUCTION	
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 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.	This furnace is approved for DOWNFLOW installations only. Clearance in inches. Vent Clearance to combustibles: For Single Wall vents 6 inches (6 po). For Type B-1 vent type 1 inch (1 po). 322567-101 REV. E (LIT)
† For 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. # For furnaces wider than 14.25 inches (362mm) may be 0 inches. Ø 18 inches front clearance required for alcove. ## For single wall vent type 6 inches.	

A97620

Performance data

UNIT SIZE	060-12	080-16	100-20
DIRECT-DRIVE MOTOR HP (PSC)	1/3	1/2	3/4
MOTOR FULL LOAD AMPS	5.1	7.4	11.0
RPM (Nominal)—SPEEDS	1075—5	1075—5	1075—5
BLOWER WHEEL DIAMETER x WIDTH (In.)	10 x 6	10 x 8	11 x 10
FILTER SIZE (In.)—(WASHABLE, SUPPLIED)	(2) 14 x 20 x 1		(2) 16 x 20 x 1

PSC—Permanent Split Capacitor

EFFICIENCY

UNIT SIZE	060-12	080-16	100-20
CAPACITY BTUH*	High Stage	51,000	69,000
	Low Stage	33,000	44,000
AFUE %*	Nonweatherized ICS	80.0	80.0

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

ICS—Isolated Combustion System

AIR DELIVERY (CFM)

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	1435	1385	1320	1265	1195	1145	1080	1000
	Med-High	1195	1165	1145	1105	1070	1015	955	885
	Med	1030	1020	1010	985	955	915	860	790
	Med-Low	900	890	875	855	835	795	755	690
	Low	705	700	690	675	655	625	580	525
080-16	High	1855	1765	1710	1665	1580	1570	1410	1310
	Med-High	1595	1570	1530	1485	1410	1355	1280	1200
	Med	1355	1345	1305	1270	1220	1170	1110	1025
	Med-Low	1170	1170	1140	1110	1075	1025	965	890
	Low	880	865	855	830	805	755	720	655
100-20	High	2235	2185	2110	2030	1950	1835	1700	1540
	Med-High	1995	1970	1915	1845	1765	1680	1545	1415
	Med	1735	1735	1675	1625	1565	1480	1370	1265
	Med-Low	1510	1500	1485	1455	1400	1320	1230	1130
	Low	1145	1140	1125	1115	1100	1085	1045	990

Electrical data

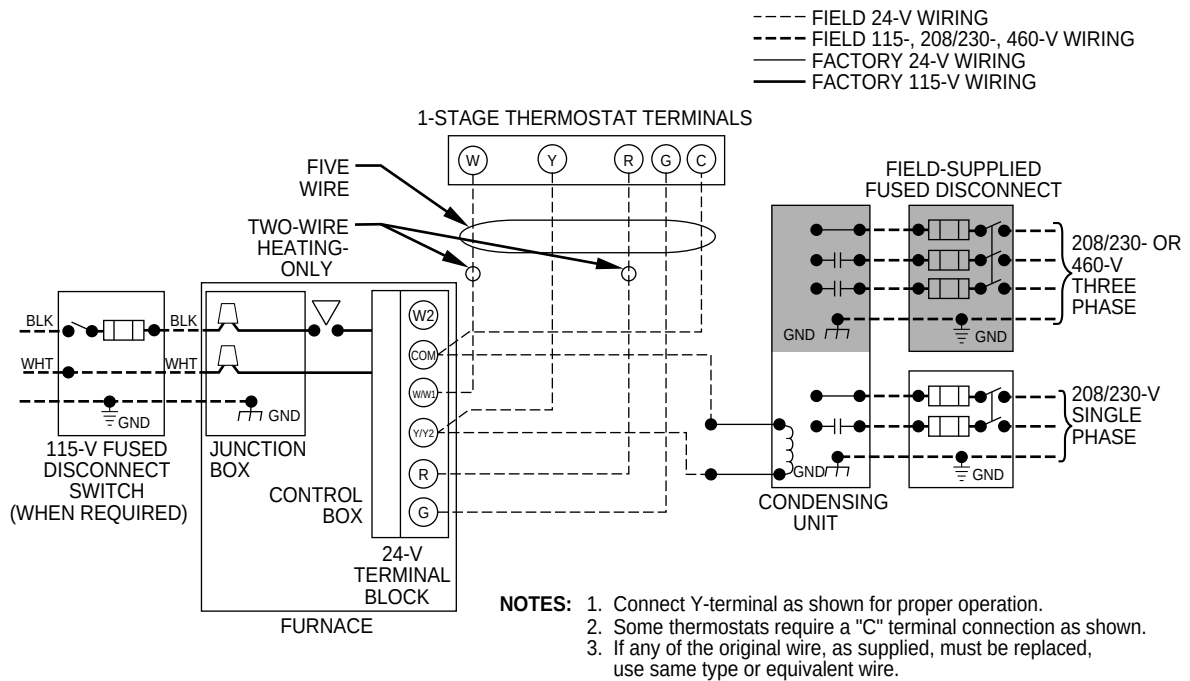
UNIT SIZE		060-12	080-16	100-20
UNIT VOLTS—HERTZ—PHASE		115—60—1		
MINIMUM WIRE SIZE		14	14	12
MAXIMUM WIRE LENGTH (Ft)*		35	26	32
MAXIMUM UNIT AMPS		10.5	14.2	17.9
OPERATING VOLTAGE RANGE (Min—Max)†		104—127		
MAXIMUM FUSE SIZE OR HACR-TYPE CKT BRK (Amps)‡		15	15	20
TRANSFORMER (24v)		40va		
EXTERNAL CONTROL POWER AVAILABLE	Heating	19va		
	Cooling	35va		
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.

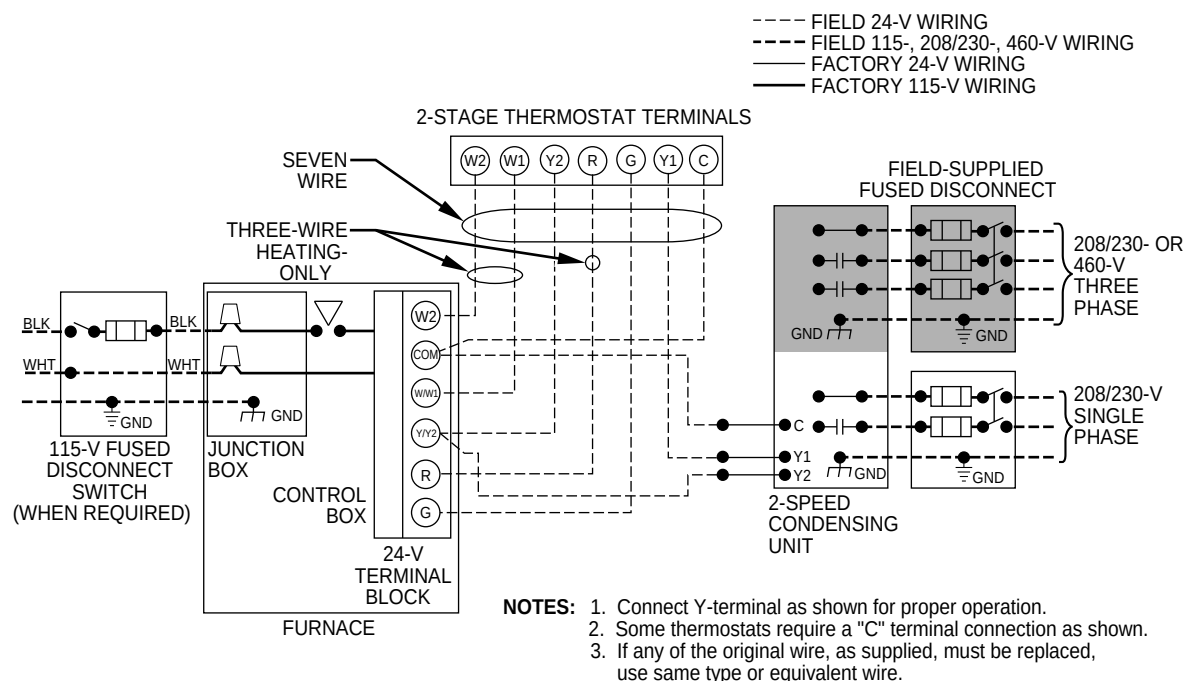
† Permissible limits of the voltage range at which the unit will operate satisfactorily.

‡ Time-delay fuse is recommended.

Typical wiring schematic



A99071



A99072

Typical installation

