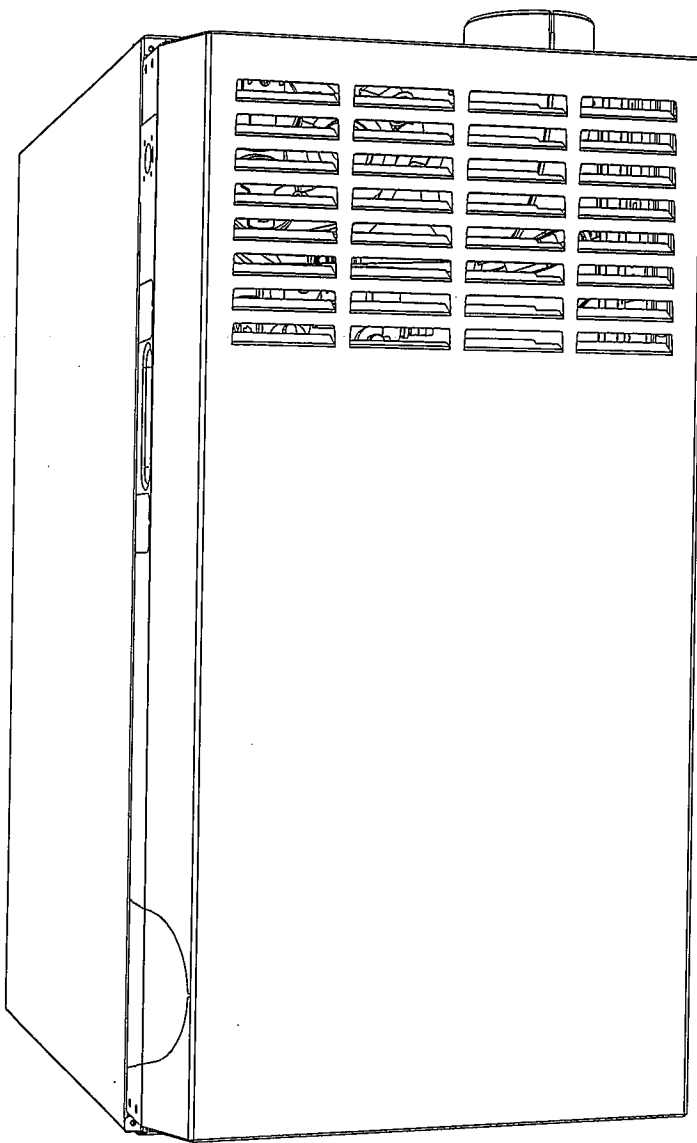




Product Data

58CTS Heatwave 80® 2-Speed Energy-Efficient Multipoise Furnace

Input Capacity:
88,000 Btuh



A00353

Controls—Thermostats and Zoning

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 in AC Mode/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/2-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	ZONECC2KIT01, ZONEKIT2ZBDP
ZONING — 4 ZONE	ZONECC4KIT01
ZONING — 8 ZONE	ZONECC8KIT01

*Do not use in zoning heat pump applications.

Physical data

UNIT SIZE		090-14
RATINGS AND PERFORMANCE		High/Low
Input BTUH*		88,000/58,000
Output Capacity (BTUH)†		71,000/47,000
AFUE‡	Nonweatherized ICS	80.0
Certified Temperature Range (°F)		40—70/25-55
Certified External Static Pressure		Heating/Cooling 0.15/0.50
Airflow CFM‡	Heating	1170
	Cooling	1360
ELECTRICAL		
Unit Volts—Hertz—Phase		115—60—1
Operating Voltage Range	Min.—Max	104—127
Maximum Unit Amps		9.0
Maximum Wire Length (Measured 1 Way in Ft)		31
Minimum Wire Size		14
Maximum Fuse or CKT BKR SIZE (Amps)**		15
Transformer (24V)		40va
External Control	Heating	12va
Power Available	Cooling	35va
Air Conditioning Blower Relay		Standard
CONTROLS		
Limit Control		SPST
Heating Blower Control		Solid-State Time Operation
Burners (Monoport)		4
Gas Connection Size		1/2-in. NPT
GAS CONTROLS		
Gas Valve (Redundant)		White Rodgers
	Min Inlet Pressure (In. wc)	4.5 (Natural Gas)
	Max Inlet Pressure (In. wc)	13.6 (Natural Gas)
Ignition Device		Hot Surface
BLOWER DATA		
Direct-Drive Motor HP (PSC)		1/3
Motor Full Load Amps		5.8
RPM (Nominal)—Speeds		1075—4
Blower Wheel Diameter X Width (in.)		10 x 8
Filter Size (IN.)—Permanent Washable (Supplied)		(1) 16 x 25 x 1
FACTORY AUTHORIZED DEALER-INSTALLED ACCESSORIES		
Gas Conversion Kit—Natural-To-Propane		KGANP26012SP
Gas Conversion Kit—Propane-To-Natural		KGAPN21012SP
Air Cleaner		Model AIRA or 902B
Humidifier		Model HUM
Ventilator		Model VA3B, VB5B, VC5B, or VL3A
Downflow Subbase***		KGASB0201ALL
Chimney Adapter Kit (4")		KGAC01014FC

* 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 ft to 4500 ft above sea level.

† Preliminary.

‡ 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. The 4-7/8" filter can reduce CFM by 7%.

**Time-delay type is recommended.

N/A—Not Applicable

ICS—Isolated Combustion System

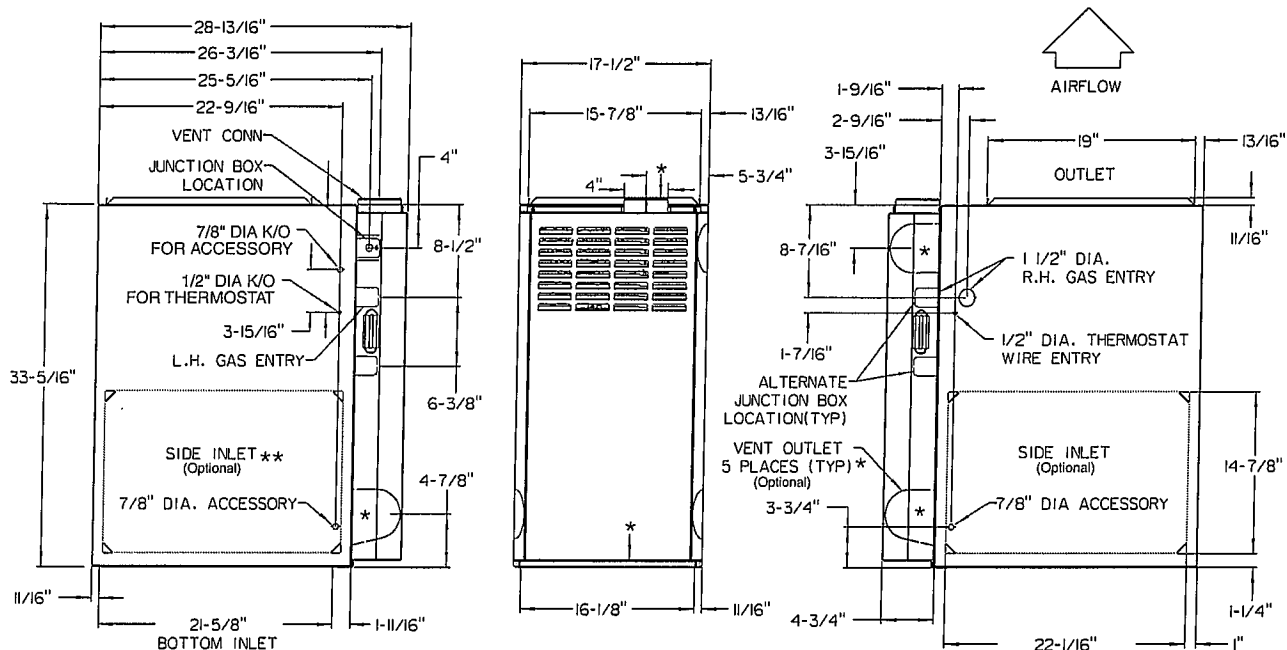
***Required for installation on combustible floors when no coil box is used, or when any coil box other than a Carrier cased coil is used.

AIR DELIVERY—CFM (With Filters)*

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
090-14	Bottom or 1 Side	High	1570	1535	1480	1415	1360	1280	1185	1070
		Med-High	1370	1355	1330	1290	1240	1170	1080	955
		Med-Low	1170	1165	1150	1115	1085	1035	970	880
		Low	1010	1005	990	965	950	905	845	745

* A filter is required for each return-air supply.

Dimensions



- NOTES: 1. Two additional 7/8-in. dia holes are located in the top plate.
 2. Minimum return-air openings at furnace, based on metal duct. If flex duct is used, see flex duct manufacturer's recommendations for equivalent diameters.
 3. Minimum return-air opening at furnace:
 a. For 800 CFM—16-in. round or 14½ x 12-in. rectangle.
 b. For 1200 CFM—20-in. round or 14½ x 19½-in. rectangle.

* Optional vent locations.

** Optional side inlet for upflow applications only.

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DIMENSIONS (In.)

UNIT SIZE	A	D	E	VENT CONN* (Dia)	SHIPPING WEIGHT (Lb)
042090	17-1/2	15-7/8	16	4	150

* Refer to the furnace Installation Instructions for proper venting procedures.

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.

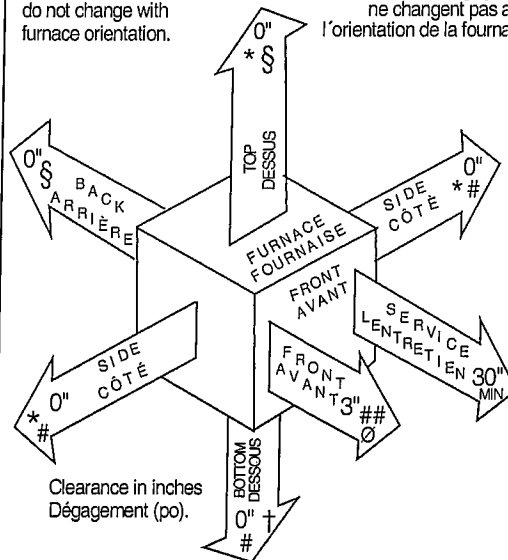
Cette fournaise peut être utilisée avec un conduit d'évacuation de Type B-1 ou connectée au conduit commun d'autres appareils à gaz.

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, VERS LE BAS.

Clearance arrows do not change with furnace orientation.

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



MINIMUM INCHES CLEARANCE TO COMBUSTIBLE CONSTRUCTION

ALL POSITIONS:

Vent Clearance to combustibles: For Single Wall vents 6 inches (6 po). For Type B-1 vent type 1 inch (1 po).

For single wall vent type 6 inches. For type B-1 vent type 3 inches.

Ø 18 inches front clearance required for alcove.

* 1 inch clearance required from combustibles to supply plenum.

DOWNFLOW POSITIONS:

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

HORIZONTAL POSITIONS:

§ Line contact is permissible only between lines formed by intersections of top and back of furnace jacket, and building joists, studs, or framing.

DÉGAGEMENT MINIMUM EN POUCES AVEC ÉLÉMENTS DE CONSTRUCTION COMBUSTIBLES

POUR TOUS LES POSITIONS:

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).

Pour conduit d'évacuation à paroi simple 6 po (6 inches). Pour conduit d'évacuation de Type B-1 3 po (3 inches).

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

* Un pouce d'espace libre nécessaire entre les matériaux combustibles et le plenum d'alimentation.

POUR LA POSITION COURANT DESCENDANT:

† Pour l'installation sur le 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.

POUR LA POSITION HORIZONTALE:

§ Le contact avec les conduites de gaz est seulement permis aux intersections des conduites formées par le dessus et l'arrière de l'enveloppe de la fournaise et les solives, les montants ou le cadrage de l'édifice.

326379-101 REV. A (lit-bottom)



REGISTERED
QUALITY SYSTEM

A00287

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Carrier

A United Technologies Company

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

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