





SINGLE-STAGE, VARIABLE-SPEED ECM ULTRA-LOW NOX GAS FURNACE 80% AFUF

HEATING INPUT: 60,000 - 80,000 BTU/H

■ Contents	
Nomenclature	2
Product Specifications	3
Dimensions	4
Airflow Data	5
Wiring Diagram	7
Accessories	8

Standard Features

- Compatible with Daikin *One*+ Smart Thermostat and other Daikin communicating equipment
- Heavy-duty stainless-steel dual-diameter, tubular heat exchanger
- Single-Stage gas valve
- Durable Silicon Nitride igniter
- Quiet, modulating draft inducer
- Self-diagnostic control board with constant memory fault code history output to three 7-segment display with push buttons
- Variable speed ECM blower motor (gently ramps up or down according to heating or cooling demand, offering quiet airflow circulation)
- Color-coded low-voltage input terminal for dehumidification control, and line voltage terminal provided for electronic air cleaner connection
- Auto-Comfort and enhanced dehumidification modes available.
- All Ultra-Low NOx DM80SC-U models comply with the 14 ng/J emission limit specified in the South Coast Air Quality Management District (SCAQMD) Rule 1111 and San Joaquin Valley Air Pollution Control District (SJVAPCD) Rule 4905. Learn more at www.aqmd.gov. and www.valleyair.org
- AHRI Certified; ETL Listed

Cabinet Features

- Multi-position installation
 DM80SC-U: Upflow, horizontal left or right
- Convenient left or right connection for gas and electrical service
- Heavy-gauge steel cabinet with durable baked-enamel finish
- Cabinet air leakage (Q_{leak}) ≤ 2%
- Foil-faced insulated heat exchanger







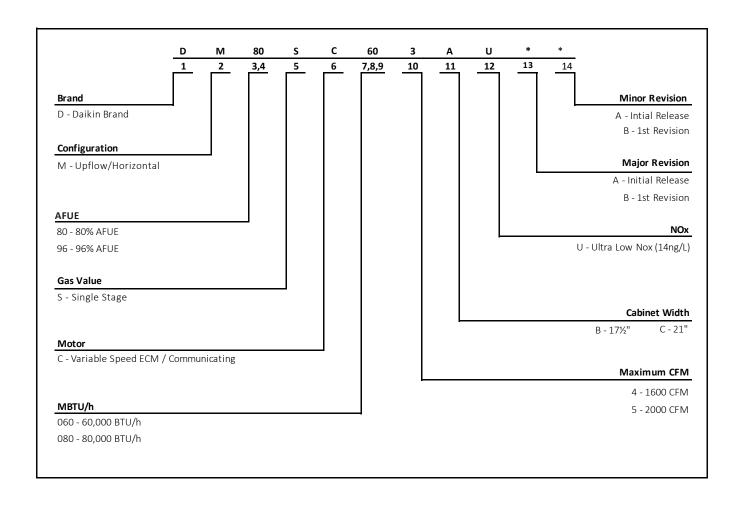








* Complete warranty details available from your local dealer or at www.daikincomfort.com. To receive the Lifetime Heat Exchanger Limited Warranty (good for as long as you own your home), the 12-Year Unit Replacement Limited Warranty and the 12-Year Parts Limited Warranty, online registration must be completed within 60 days of installation. Additional requirements for annual maintenance are required for the Unit Replacement Limited Warranty. Online registration and some of the additional requirements are not required in California or Québec.



2

	DM80SC 0604BU*	DM80SC 0805CU*	
HEATING CAPACITY			
Input ¹	60,000	80,000	
Natural Gas Output ¹	48,000	64,000	
AFUE ²	80	80	
Available AC @ 0.5" ESP	1.5 - 4	2 - 5	
Temperature Rise Range (°F)	20 - 50	35 - 65	
CIRCULATOR BLOWER			
Size (D x W)	10" x 8"	10" x 10"	
Horsepower	3/4	3/4	
No. of Speeds	Variable	Variable	
Vent Diameter ³	4"	4"	
No. of Burners	1 Burner, 3 Tubes	1 Burner, 4 Tubes	
ELECTRICAL DATA			
Min. Circuit Ampacity ⁴	11.6	11.6	
Max. Overcurrent Device (amps) 5	15	15	
SHIP WEIGHT (LBS)	112	127	

¹ Natural Gas BTU/h; for altitudes 0-4500' Only

Notes

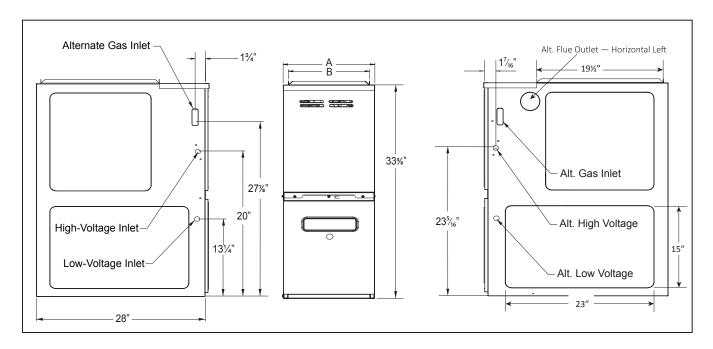
- All furnaces are manufactured for use on 115 VAC, 60 Hz, single-phase electrical supply.
- Gas Service Connection ½" FPT
- Important: Size fuses and wires properly and make electrical connections in accordance with the National Electrical Code and/or all existing local codes.

² DOE AFUE based upon Isolated Combustion System (ICS)

³ Vent and combustion air diameters may vary depending upon vent length. Refer to the latest editions of the National Fuel Gas Code NFPA 54/ANSI Z223.1 (in the USA) and the Canada National Standard of Canada, CAN/CSA B149.1 and CAN/CSA B142.2 (in Canada).

⁴ Minimum Circuit Ampacity = (1.25 x Circulator Blower Amps) + ID Blower amps. Wire size should be determined in accordance with National Electrical Codes. Extensive wire runs will require larger wire sizes.

Maximum Overcurrent Protection Device refers to maximum recommended fuse or circuit breaker size. May use fuses or HACR-type circuit breakers of the same size as noted.



MODEL	Α	В
DM80SC0604BU*	17½"	16"
DM80SC0805CU*	21"	19½"

NOTES

- Line voltage wiring can enter through the right or left side of furnace.
 Low-voltage wiring can enter through the right or left side of furnace.
- Installer must supply the following gas line fittings, according to which entrance is used: Left: One 2" pipe nipple; one 90° elbow; straight pipe; one ground joint union Right: Five 90° elbow; one ground joint union; various pipe nipples

MINIMUM CLEARANCES TO COMBUSTIBLE MATERIALS

C	REAR FRONT BOTTOM	FRONT	Borrow	VE	NT	Top
SIDES		sw	В	ТОР		
1"	0"	3"	С	6"	1"	1"

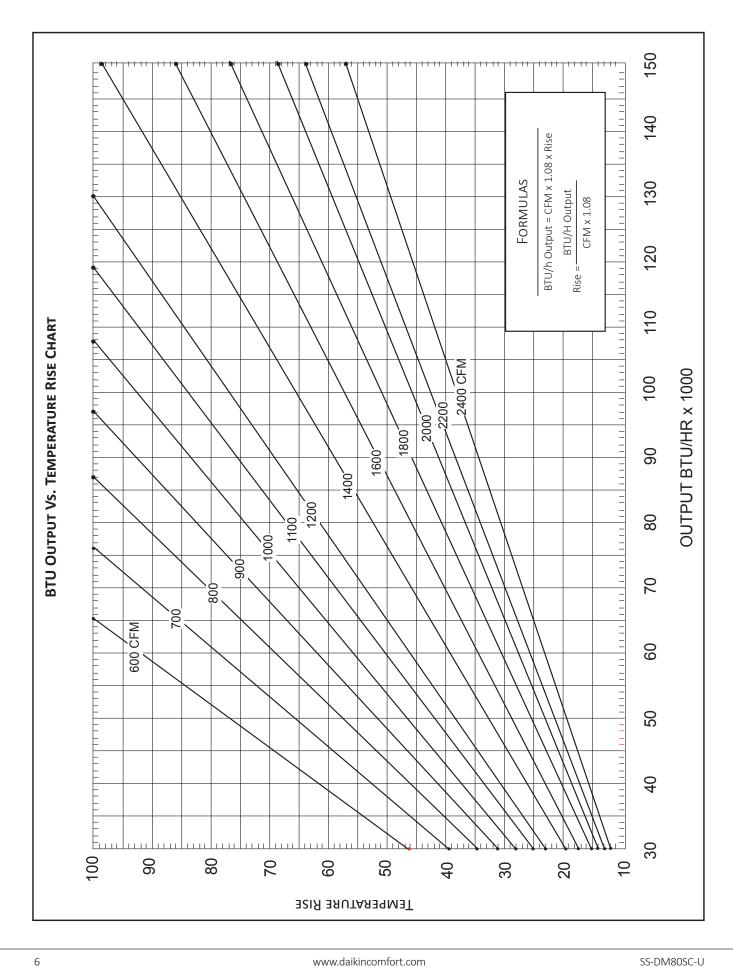
C = If placed on combustible floor, the floor MUST be wood ONLY.

NOTES

- For servicing or cleaning, a 24" front clearance is recommended.
- Unit connections (electrical, flue, and drain) may necessitate greater clearances than the minimum clearances listed above.
- In all cases, accessibility clearance must take precedence over clearances from the enclosure where accessibility clearances are greater.
- Refer to the appropriate USA and Canadian codes:
 - $-\$ In the USA: the National Fuel Gas Code NFPA 54 / ANSI Z223.1
 - In Canada: the Canada National Standard of Canada, CAN/CSA B149.1 and CAN/CSA B142.2

	DM80SC0604BU 20-50 (35)		DM80SC0805CU35-65-(50)	
MODEL / TEMP RISE RANGE (MID RISE)	CFM	RISE	CFM	RISE
Recommended CFM & Expected Temperature Rise	1270	35	1185	50
Minimum Recommended Heating CFM & Expected Temperature Rise	889	50	912	65
Maximum Recommended Heating Cfm & Expected Temperature Rise	1760 (Max Capable Cfm)	25	1693	35

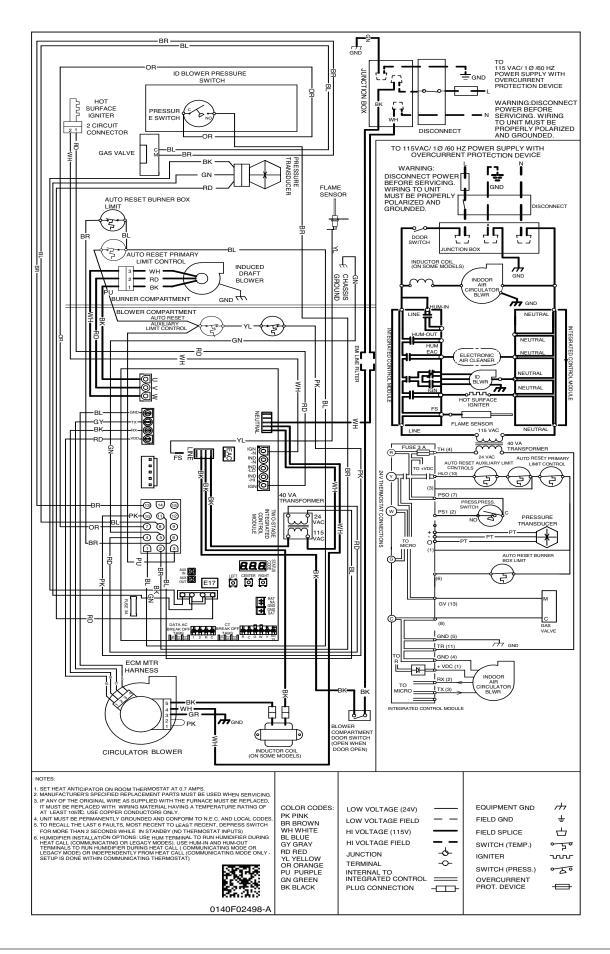
Note: To Set Heating Cfm Using Push Buttons; 1) Scroll using Left or Right push buttons until gAF appears on the 7 segment display. 2) Press & release center button & display will show current heating airflow expressed as a percentage of max CFM. 3) Press & release Left or Right button until desired percentage appears. 4) Press & release center button once more to select the displayed percentage. 5) CFM may be trimmed further by using the gTF menu.







Wiring is subject to change. Always refer to the wiring diagram on the unit for the most up-to-date wiring.



Model	DESCRIPTION
AFE18-60A	Fossil Fuel Kit
MVK-01 ¹	Masonry Vent Kit

¹ Upflow applications only