



SINGLE-STAGE, VARIABLE-SPEED ECM ULTRA-LOW NO_x GAS FURNACE 80% AFUE

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

■ Contents

Nomenclature.....	2
Product Specifications.....	3
Dimensions	4
Airflow Data	5
Wiring Diagram.....	7
Accessories	8
Minimum Filter Sizes	8

R32

■ 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 NO_x 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
DR80SC-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 ($Q_{\text{leak}} \leq 2\%$)
- Foil-faced insulated heat exchanger



Intertek

* 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 Florida, California, or Québec. The duration of warranty coverage in Texas and Florida differs in some cases. Other limitations and exclusions apply; refer to complete warranty details for a full list of limitations and exclusions.

	D	R	80	S	C	60	3	A	U	*	*	
	1	2	3,4	5	6	7,8,9	10	11	12	13	14	
BRAND	D - Daikin Brand										MINOR REVISION	
											A - Initila Release	
CONFIGURATION	M - Upflow/Horizontal										MAJOR REVISION	
											A - Initial Release	
AFUE	80 - 80% AFUE 96 - 96% AFUE										NOX	
											U - Ultra-Low NOx(14ng/L)	
GAS VALVE	S - Single Stage										CABINET WIDTH	
											B - 17½"	
MOTOR	C - Variable Speed ECM / Communicating										MAXIMUM CFM	
											4 - 1600 CFM	
											MBTU/h	
											060 - 60,000 BTU/h	

	DR80SC 0604BU*	DR80SC 0805CU*
HEATING CAPACITY		
Input (BTU/h) ¹	60,000	80,000
Output (BTU/h) 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	¾	¾
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	12.2	12.2
Max. Overcurrent Device (amps) ⁵	20	20
SHIP WEIGHT (LBS)	112	127

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

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).

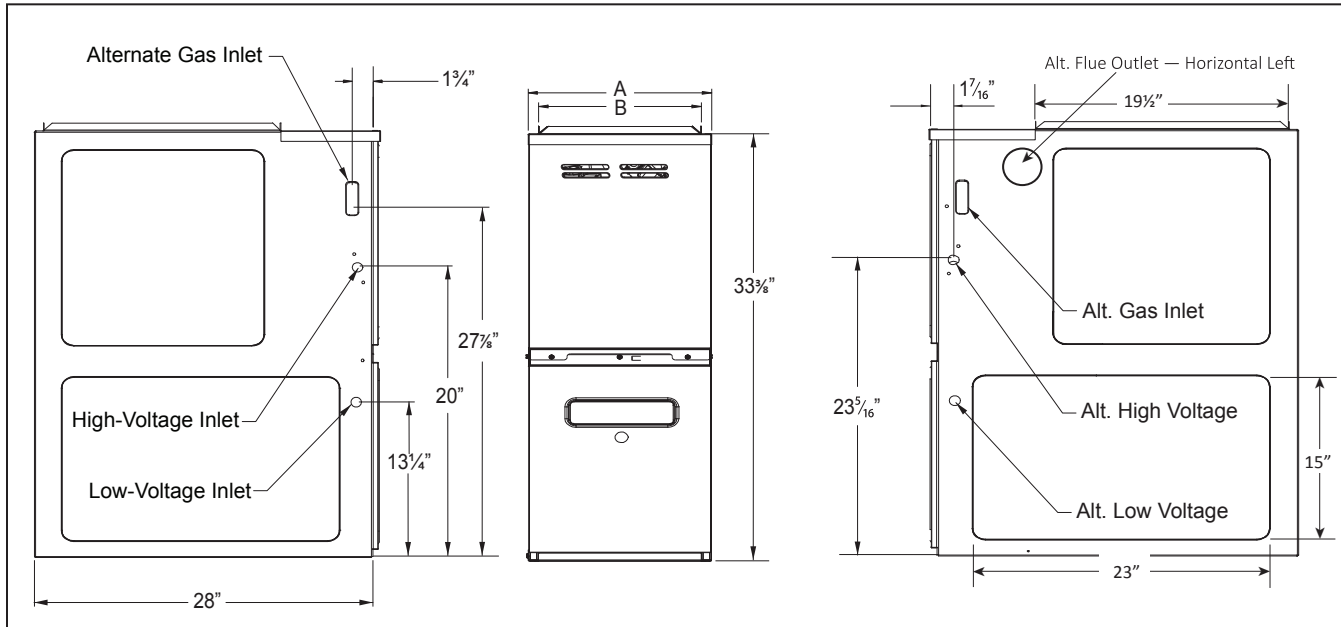
⁴ Minimum Circuit Ampacity = (1.25 x Circulator Blower Amps) + ID Blower amps. Wire size should be determined in accordance with National Electrical Codes. Extensive wire runs will require larger wire sizes.

⁵ 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.

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.

DIMENSIONS



MODEL	A	B
DR80SC0604BU*	17 1/2"	16"
DR80SC0805CU*	21"	19 1/2"

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

SIDES	REAR	FRONT ¹	BOTTOM	VENT ²		TOP
				SW	B	
1"	0"	3"	C	6"	1"	1"

Approved for line contact in the horizontal position.

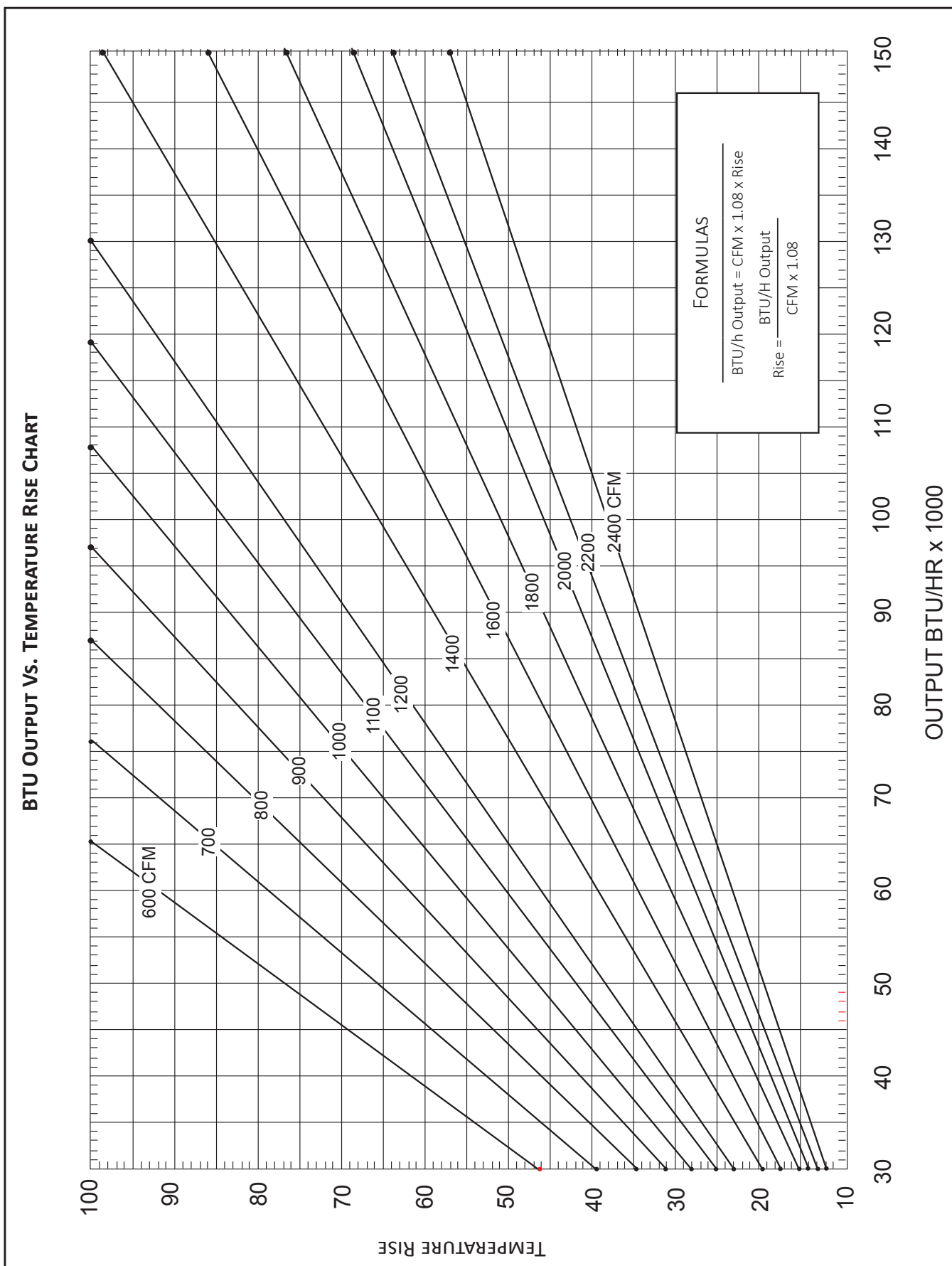
¹ 24" clearance for serviceability recommended.

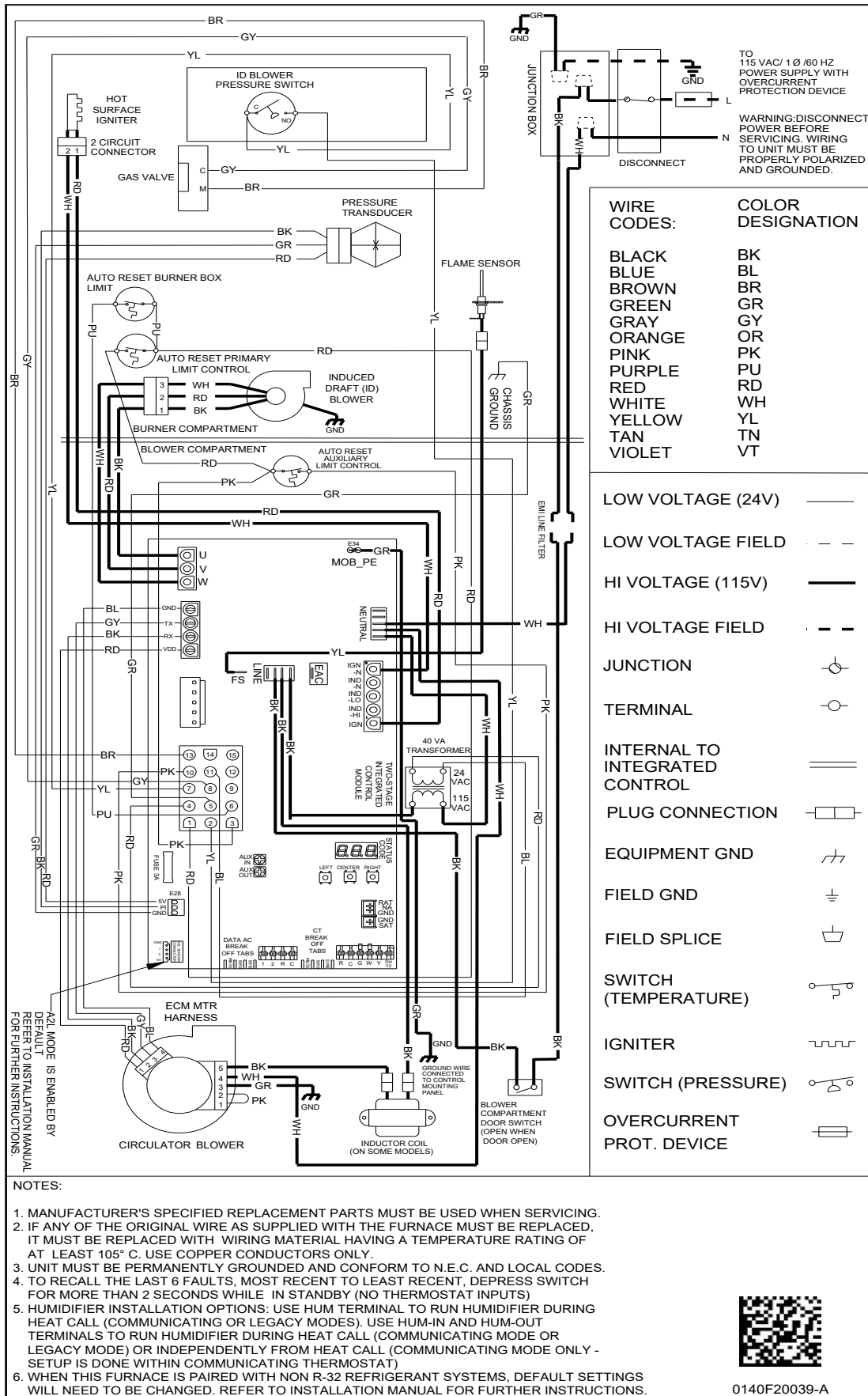
² Single Wall Vent (SW) to be used only as a connector. Refer to the venting tables outlined in the installation Manual for additional venting requirements.

MODEL / TEMP RISE RANGE (MID RISE)	DR80SC0604BU 20-50 (35)		DR80SC0805CU 35-65 (50)	
	CFM	RISE	CFM	RISE
Recommended CFM & Expected Temperature Rise	1270	35	1200	50
Minimum Recommended Heating CFM & Expected Temperature Rise	1140	40	1080	50

Note: To Set Heating Cfm Using Push Buttons:

- 1) Scroll using Left or Right push buttons until gTF appears on the 7 segment display.
- 2) Press & release center button & display will show current heating airflow trim 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.





High Voltage: Disconnect all power before servicing or installing this unit. Multiple power sources may be present. Failure to do so may cause property damage, personal injury, or death.

WARNING

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	Masonry Vent Kit

MINIMUM FILTER SIZES

MODEL	DR80SC 0604BU	DR80SC 0805CU
Filter Size (in)	(1) 16 x 25 (Side or Bottom)	(2) 16 x 25 (Side) or (1) 20 x 25 (Bottom) ¹

Note: Other size filters of equal or greater surface area may be used; filters may also be centrally located.