



*SINGLE-STAGE, VARIABLE-SPEED
ECM ULTRA-LOW NOX GAS FURNACE
UP TO 96% AFUE*

HEATING INPUT: 60,000 – 80,000 BTU/H

■ **Contents**

Nomenclature.....	2
Product Specifications.....	3
Dimensions	4
Airflow Specifications.....	5
Wiring Diagram.....	7
Accessories	8

R32

■ **Standard Features**

- Heavy-duty stainless-steel tubular heat exchanger
- Super-ferritic Stainless-steel secondary heat exchanger
- Single-stage gas valve
- Durable Silicon Nitride igniter
- Multi-speed blower motor
- Quiet multi-speed induced draft blower
- Self-diagnostic control board with constant memory fault history output to a 3-digit 7 segment LED display and push buttons
- Energy-efficient multi-speed (variable-speed) ECM blower motor
- Multiple continuous fan speed options offer quiet air circulation
- Color-coded low-voltage terminals with provisions for electronic air cleaner and humidifier
- All models comply with CA Low NOx standards
- All Ultra-Low NOx DM96SE-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**

- Designed for multi-position installation: DR96SN: Upflow, horizontal left or right
- Certified for direct vent (2-pipe) or non-direct vent (1-pipe)
- Easy-to-install top venting with optional side venting
- Convenient left or right connection for gas and electrical service
- Cabinet air leakage ($Q_{Leak} \leq 1.4\%$)
- Heavy-gauge steel cabinet with durable finish
- Foil-faced insulated heat exchanger cabinet
- Airtight solid bottom or side return with easy-cut tabs for effortless removal in bottom air-inlet applications



* 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 6-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.

NOMENCLATURE

	D	D	96	S	C	060	3	B	U	A	A	
	1	2	3,4	5	6	7,8,9	10	11	12	13	14	
BRAND D - DAIKIN												MINOR REVISION A - INITIAL RELEASE B - 1ST REVISION
CONFIGURATION R- UPFLOW/ HORIZONTAL R32 D - DOWNFLOW/HORIZONTAL R32												MAJOR REVISION A - INITIAL RELEASE B - 1ST REVISION
AFUE 80 - 80% AFUE 92 - 92% AFUE 96 - 96% AFUE 97 - 97% AFUE												NOx N - NATURAL GAS ≥ 40 NG/J NOx N - Low NOx (90%+) ≤ 40 NG/J NOx X - Low NOx (80%) ≤ 40 NG/J NOx U - Ultra Low NOx ≤ 14 NG/J NOx
GAS VALVE M - Modulating S - Single Stage T - TWO STAGE												CABINET WIDTH A - 14" B - 17.5" C - 21" D - 24.5"
MOTOR C - VARIABLE-SPEED ECM / COMMUNICATING N - MULTI-SPEED ECM (9 TAPS) / NON-COMMUNICATING												
MBTU/H 030 - 30,000 BTU/H 080 - 80,000 BTU/H 040 - 40,000 BTU/H 100 - 100,000 BTU/H 060 - 60,000 BTU/H 120 - 120,000 BTU/H												MAXIMUM CFM 3 - 1200 CFM 4 - 1600 CFM 5 - 2000 CFM

	DD96SC 0603BUA*	DD96SC 0805CUA*
HEATING DATA		
Input (BTU/h) ¹	60,000	80,000
Output (BTU/h) ¹	57,600	76,880
AFUE ²	96	96
Temperature Rise Range (°F)	30 - 60	30 - 60
Vent Diameter ³	2" - 3"	2" - 3"
No. OF BURNER PORTS	1 Burner, 3 Tubes	1 Burner, 4 Tubes
CIRCULATOR BLOWER		
Available AC @ 0.5" ESP	1.5 - 3	2 - 5
Size (D x W)	11" x 8"	11" x 10"
Horsepower @ 1075 RPM	1/2	1
No. of Speeds	VS ECM	VS ECM
Filter Size (in²)	(2) 10 X 20 or (1) 16 x 25 (top return)	(1) 20 x 25 (top return)
ELECTRICAL DATA		
Min. Circuit Ampacity ⁴	8.1	14.4
Max. Overcurrent Device (amps) ⁵	15	25
SHIPPING WEIGHT (LBS)	119	145

¹ For use with natural gas only. For altitudes + 4,500 ft above sea level, see installation manual

² DOE AFUE based upon Isolated Combustion System (ICS)

³ Installer must supply one or two PVC pipes: one for combustion air (optional) and one for the flue outlet (required). Vent pipe must be either 2" or 3" in diameter, depending upon furnace input, number of elbows, length of run and installation (1 or 2 pipes). The optional Combustion Air Pipe is dependent on installation/code requirements and must be 2" or 3" diameter PVC.

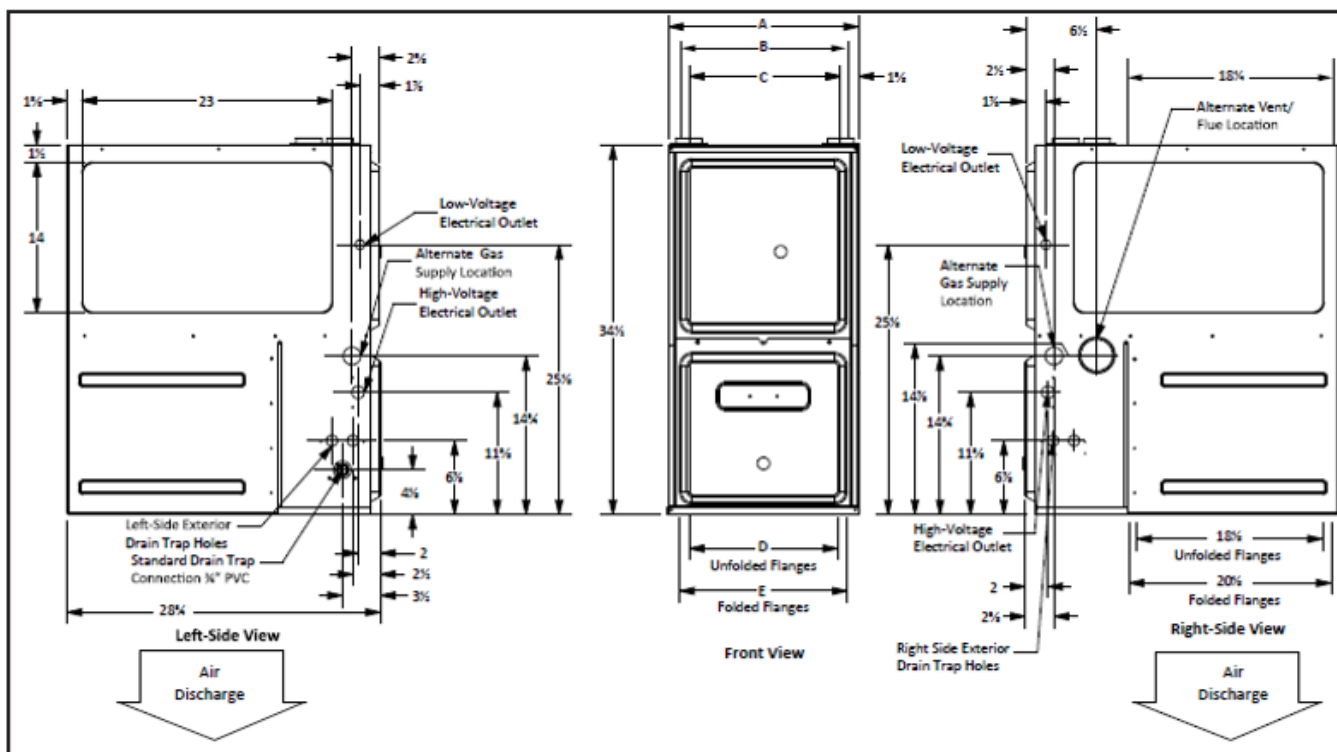
⁴ Minimum Circuit Ampacity = (1.25 x Circulator Blower Amps) + ID Blower amps. Wire size should be determined in accordance with National Electrical Codes. Extensive wire runs will require larger wire sizes.

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 120 VAC, 60 Hz, single-phase electrical supply.
- Gas Service Connection ½" FNPT
- Important: Size fuses and wires properly and make electrical connections in accordance with the National Electrical Code and/or all existing local codes.
- For bottom return: Failure to unfold flanges may reduce airflow by up to 18%. This could result in performance and noise issues.
- For servicing or cleaning, a 24" front clearance is required. 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.

DIMENSIONS



MODEL	AIR RETURN			AIR DISCHARGE	
	A	B	C	D	E
DD96SC0603BU*	17½"	14¾"	14"	14½"	16"
DD96SC0805CU*	21"	18¾"	17½"	18"	19½"

MINIMUM CLEARANCES TO COMBUSTIBLE MATERIALS

POSITION	SIDES	REAR	FRONT	BOTTOM	FLUE	TOP
DOWNFLOW	0"	0"	3"	NC	0"	1"
HORIZONTAL	6"	0"	3"	C	0"	6"

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

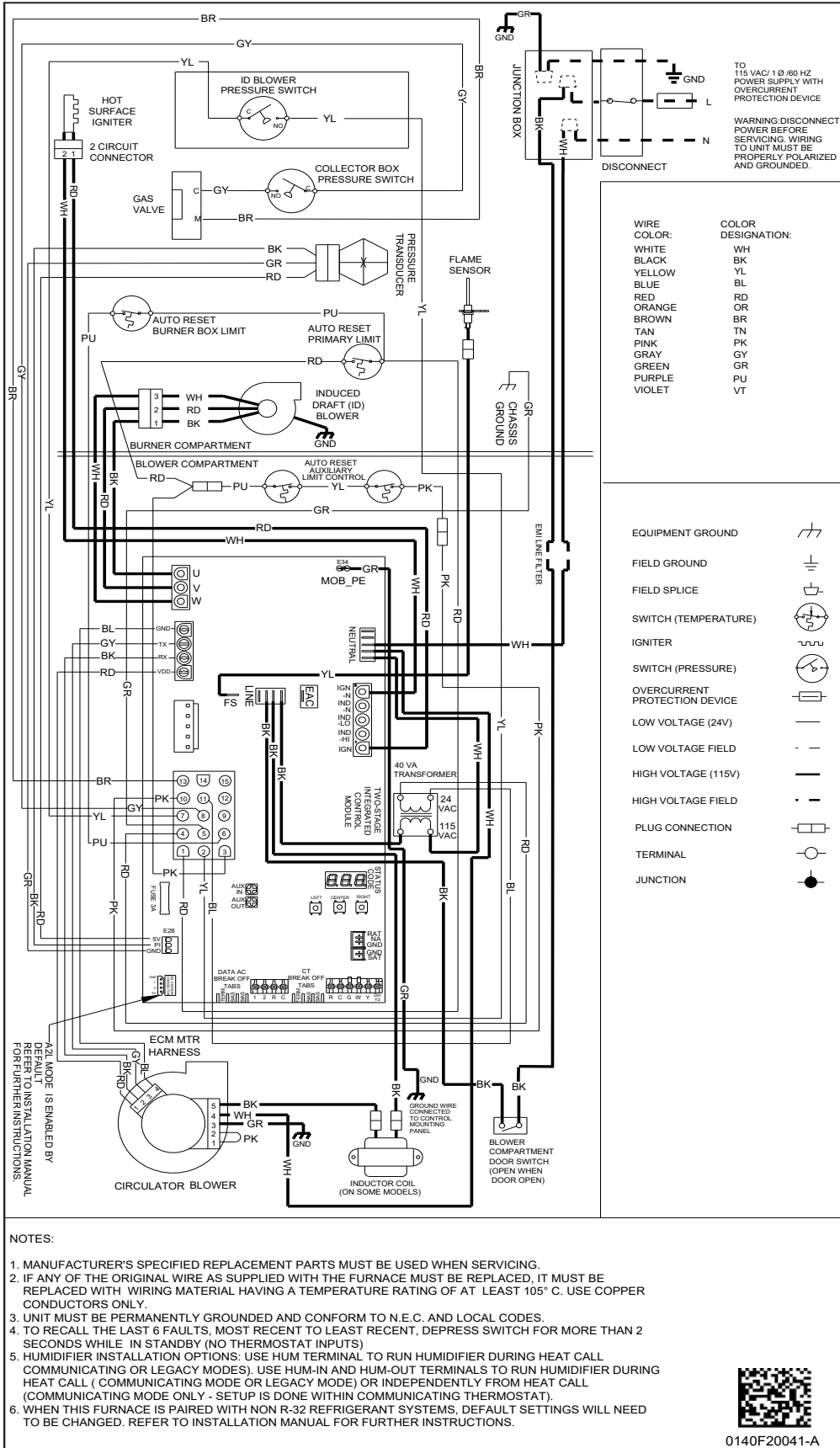
NC = For installation on non-combustibile floors only. A combustibile floor sub-base must be used for installations on combustibile flooring.

MODEL / TEMP RISE RANGE (MID RISE)	DD96SC0603BU 30-60 (45)		DD96SC0805CU 30-60 (45)	
	CFM	RISE	CFM	RISE
RECOMMENDED CFM & EXPECTED TEMPERATURE RISE	1100	45	1650	45
MINIMUM RECOMMENDED HEATING CFM & EXPECTED TEMPERATURE RISE	990	55	1480	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.

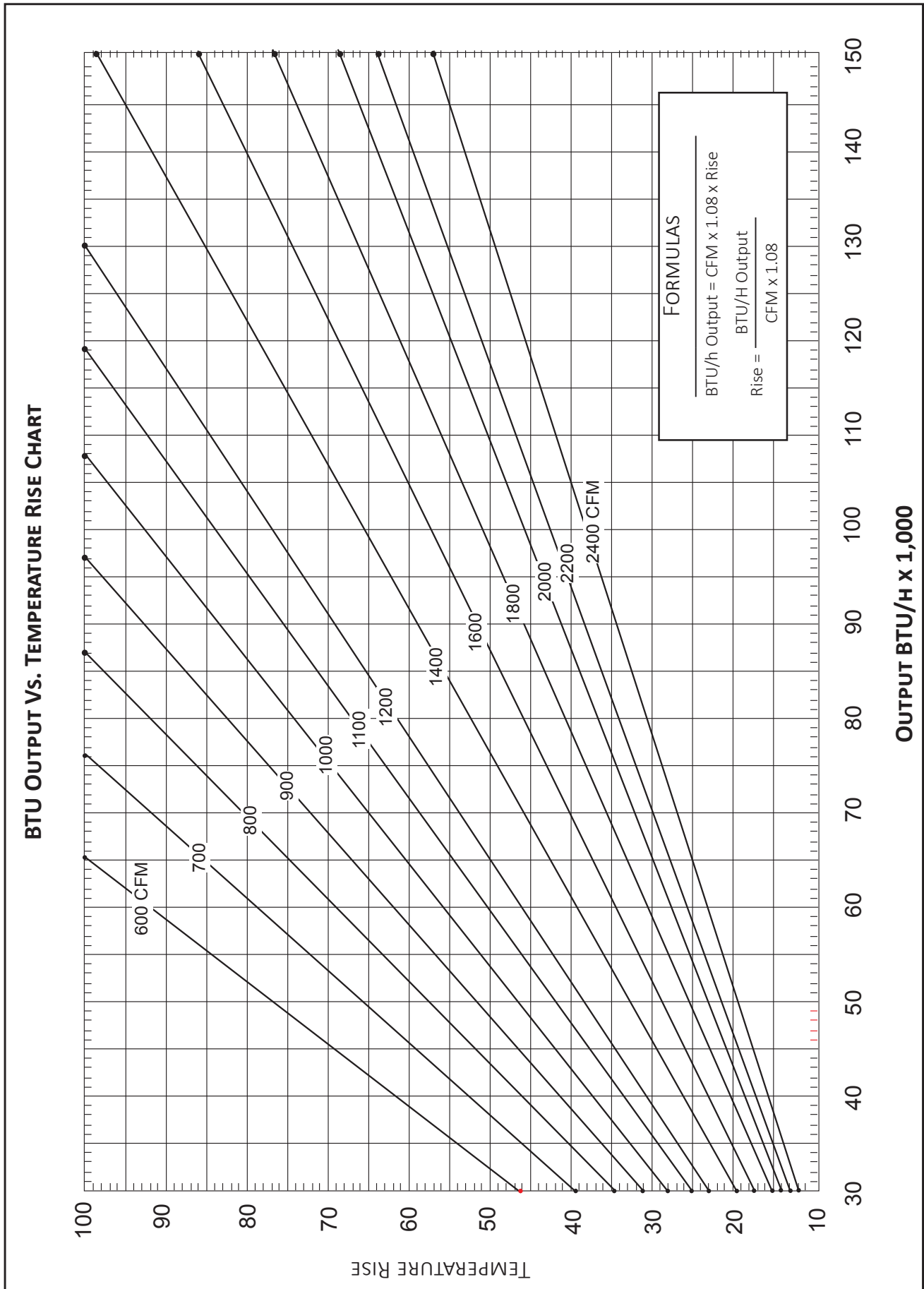
WIRING DIAGRAM



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	DD96SC 0603BU	DD96SC 0805CU
72950	Concentric Vent Kit (2")	√	√
72951	Concentric Vent Kit (3")	√	√
RF000142	Drain Kit Horizontal Left Vertical Flue	√	√
EFR02	External Filter Rack with 16"x25" Permanent Filter	√	—
0170K00000S	Flush Mount Vent Kit - 3" or 2"	√	√
0170K00001S	Flush Mount Vent Kit - 2"	√	√
0270F020670	Horizontal Drain Tubing Kit	√	√

MINIMUM FILTER SIZES

MODEL	DD96SC0603BU	DD96SC0805CU
Filter Size (in ²)	(2) 10 x 20 or (1) 16 x 25 (top return)	(1) 20 x 25 (top return)

Note: Other size filters of equal or greater dimensions may be used. Filters may also be centrally located.