

Heating Input: 60,000–115,000 BTU/h

MODULATING
VARIABLE SPEED
GAS FURNACE
UP TO 96% AFUE

■ Standard Features

- ComfortNet™ Communicating Systems compatible
- Heavy-duty stainless-steel dual-diameter, tubular heat exchanger
- Stainless-steel secondary heat exchanger
- Self-calibrating modulating gas valve auto-configurers for each installation
- Durable Silicon Nitride igniter
- Quiet variable-speed induced draft blower
- Utilizes ComfortNet™ communicating, two-stage or single-stage thermostats
- Self-diagnostic control board with constant memory fault code history output to a dual 7-segment display
- Color-coded low-voltage terminals with provisions for electronic air cleaner and humidifier
- Efficient and quiet variable-speed airflow system gently ramps up or down according to heating or cooling demand
- Multiple continuous fan speed options offer quiet air circulation
- Auto-Comfort and enhanced dehumidification modes available
- All models comply with California Low NOx emissions standards

■ Cabinet Features

- Multi-position installation: 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
- Designed for multi-position installation —
DM96MC: upflow, horizontal left or right
DC96MC: downflow, horizontal left or right
- Convenient left or right connection for gas and electrical service
- Cabinet air leakage (Q_{Leak}) $\leq 2\%$
- Heavy-gauge steel cabinet with durable baked-enamel finish
- Fully insulated heat exchanger and blower section
- Airtight solid bottom or side-return with easy-cut tabs for effortless removal in bottom air-inlet applications

■ Contents

Nomenclature.....	2
Product Specifications.....	3
Dimensions	4
Airflow Data.....	6
Wiring Diagram.....	11
Accessories	12
Thermostats	12



* 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 Quebec.



NOMENCLATURE

	D	M	96	M	C	060	3	B	X	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	M - Upflow/Horizontal C - Downflow/Horizontal K - Dedicated Upflow D - Dedicated Downflow										Major Revision
											A - Initial Release B - 1st Revision
AFUE											NOx
97 - 97% AFUE 80 - 80% AFUE											N - Natural Gas X - Low NOx
Gas Valve	M - Modulating V - 2 Stage H - Convertible 2 Stage S - Single Stage										Cabinet Width
											A - 14" B - 17½" C - 21" D - 24½"
Motor											Maximum CFM
C - Variable Speed/ComfortNet E - High Efficiency S - Single Speed											3 - 1200 CFM 4 - 1600 CFM 5 - 2000 CFM
MBTU/h											
040 - 40,000 BTU/h											
060 - 60,000 BTU/h											
140 - 140,000 BTU/h											



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 or the unit for the most up-to-date wiring.

SPECIFICATIONS

	DM96MC 0603BXAA	DM96MC 0805CXAA	DM96MC 1005DXAA	DM96MC 1155DXAA	DC96MC 0604CXAA	DC96MC 0805DXAA	DC96MC 1005DXAA
Heating Capacity							
High Fire Input (BTU/h) ¹	60,000	80,000	100,000	115,000	60,000	80,000	100,000
High Fire Output (BTU/h) ¹	57,600	76,800	96,000	109,250	57,600	76,800	95,000
Low-Fire Steady-State Input ¹	30,000	40,000	50,000	57,500	30,000	40,000	50,000
Low-Fire Steady-State Output ¹	28,800	38,400	48,000	54,625	28,800	38,400	47,500
AFUE ²	96.1	96.1	96.1	96.1	96.1	96.1	96.1
Available AC @ 0.5" ESP	1.5-3.0	2.0-5.0	2.0-5.0	2.0-5.0	1.5-4.0	2.0-5.0	2.0-5.0
Temperature Rise Range (° F)	20-50	35-65	35-65	35-65	20-50	20-50	25-55
Circulator Blower							
Size (D x W)	10" X 8"	11" X 10"	11" X 10"	11" X 10"	10" X 10"	11" X 10"	11" X 10"
Horsepower @ 1050 RPM	3/4	1	1	1	3/4	1	1
Speed	Variable	Variable	Variable	Variable	Variable	Variable	Variable
Vent Diameter ³	2"	3"	3"	3"	2"	3"	3"
No. of Burners	3	4	5	5	3	4	4
Disposable Filter (in ²)*	576	960	960	972	641	854	1,056
Electrical Data							
Min. Circuit Ampacity ⁴	10.6	14.4	14.4	14.4	10.6	14.4	14.4
Max. Overcurrent Device (amps) ⁵	15.0	15.0	15.0	15.0	15.0	15.0	15.0
Ship Weight (lbs)	132	150	165	165	139	160	165

¹ Natural Gas BTU/h

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.

* Permanent air filter size is based on 600 FPM velocity. Check with filter manufacturer for specific details.

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.



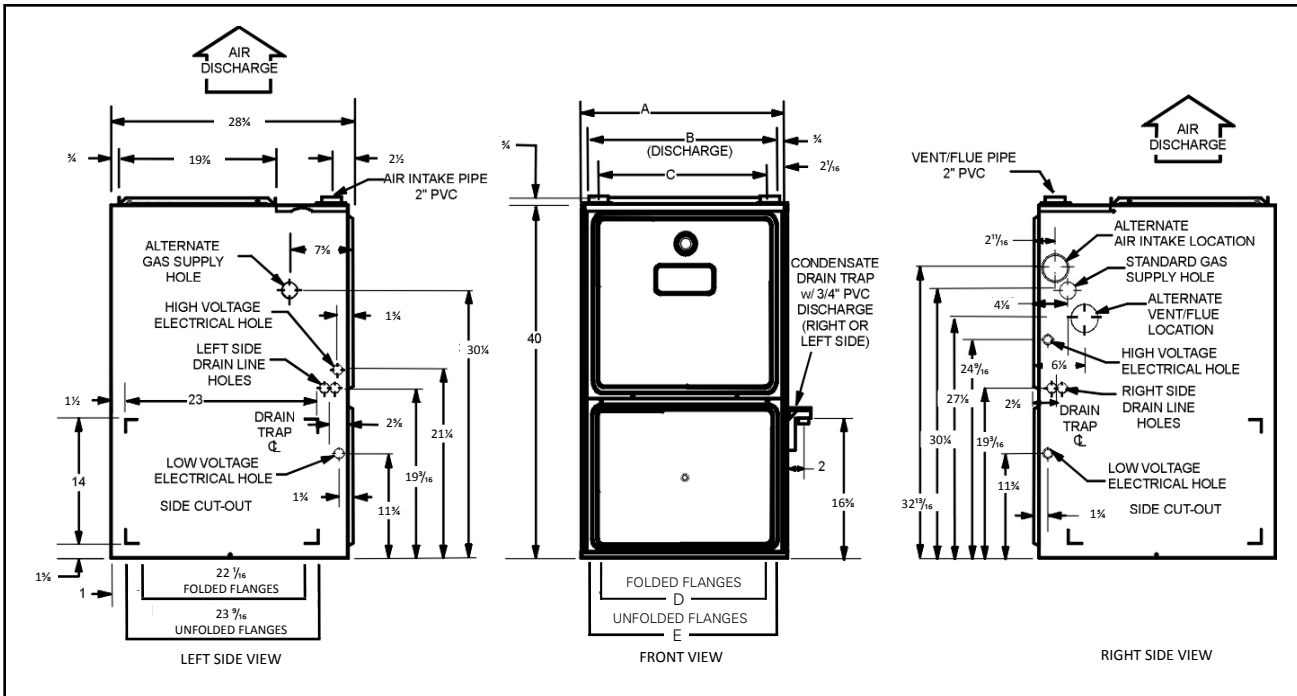
High Voltage: Disconnect all power before servicing or installing this unit. Multiple power sources may be present. Failure to do so may cause property damage, personal injury, or death.

WARNING



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

DM96MC DIMENSIONS



MODEL	W	D	H
DM96MC0603BXAA	17 1/2"	28 3/4"	40 3/4"
DM96MC0805CXAA	21"	28 3/4"	40 3/4"
DM96MC1005DXAA	24 1/2"	28 3/4"	40 3/4"
DM96MC1155DXAA	24 1/2"	28 3/4"	40 3/4"

A	B	C	D	E
17 1/2"	16"	13 1/8"	12 1/8"	13 3/8"
21"	19 1/2"	16 1/8"	16"	17 1/2"
24 1/2"	23"	20 5/8"	19 3/8"	20 7/8"
24 1/2"	23"	20 5/8"	19 3/8"	20 7/8"

NOTES:

- 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.
- Line voltage wiring can enter through the right or left side of the furnace. Low-voltage wiring can enter through the right or left side of furnace.
- Installer must supply following gas line fittings, according to which entrance is used:
Left—One 90° street elbow; one 2" pipe nipple; one 90° elbow; straight pipe
Right—Straight pipe to reach gas valve
- For bottom return: Failure to unfold flanges may reduce airflow by up to 18%. This could result in performance and noise issues.

MINIMUM CLEARANCES TO COMBUSTIBLE MATERIALS

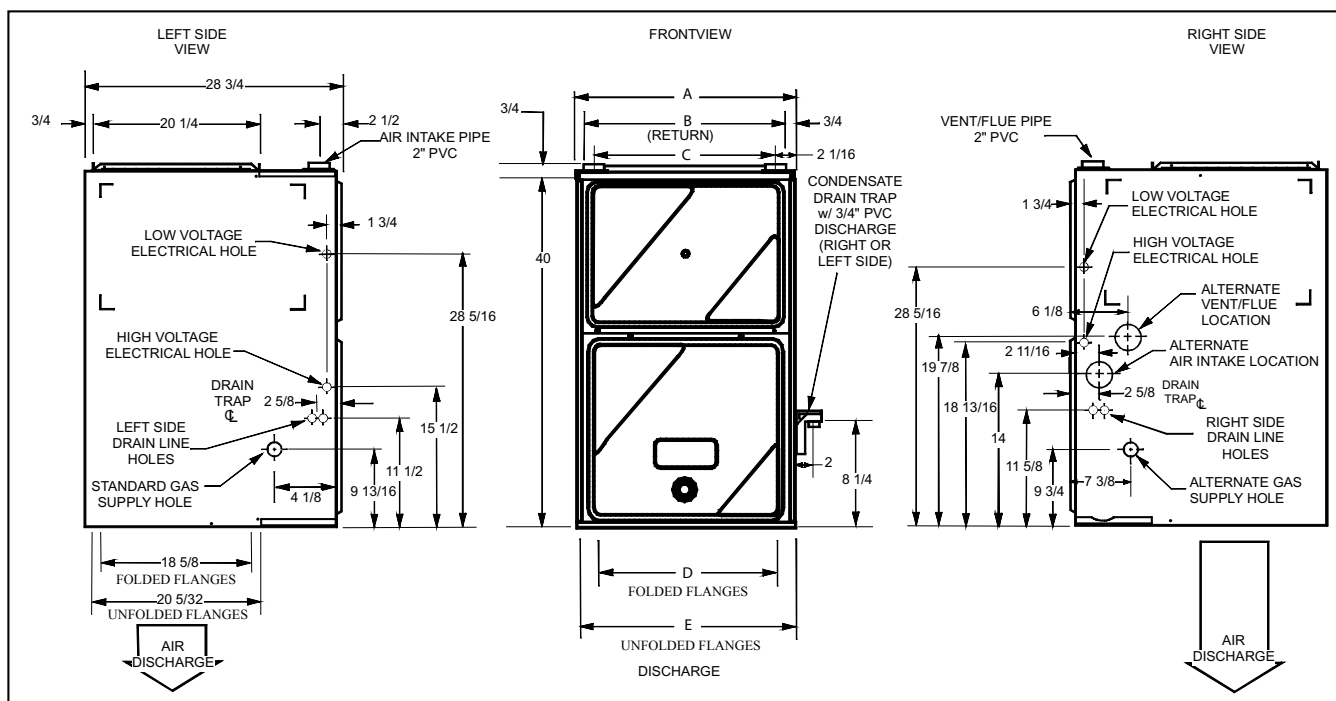
POSITION	SIDES	REAR	FRONT	BOTTOM	FLUE	TOP
Upflow	0"	0"	3"	C	0"	1"
Horizontal	6"	0"	3"	C	0"	6"

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

NOTES:

- 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.

DC96MC DIMENSIONS



Model	W	D	H
DC96MC0604CXAA	21"	28 3/4"	40 3/4"
DC96MC0805DXAA	24 1/2"	28 3/4"	40 3/4"
DC96MC1005DXAA	24 1/2"	28 3/4"	40 3/4"

A	B	C	D	E
21"	19 1/2"	16 1/8"	18"	19 1/2"
24 1/2"	23"	20 3/8"	21 1/2"	23"
24 1/2"	23"	20 3/8"	21 1/2"	23"

NOTES:

- 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.
- Line voltage wiring can enter through the right or left side of the furnace. Low-voltage wiring can enter through the right or left side of furnace.
- Installer must supply following gas line fittings, according to which entrance is used:
Right—One 90° street elbow; one 2" pipe nipple; one 90° elbow; straight pipe
Left—Straight pipe to reach gas valve
- For bottom return: Failure to unfold flanges may reduce airflow by up to 18%. This could result in performance and noise issues.

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 combustible floor, the floor MUST be wood ONLY.

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

NOTES

- 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.

DM96MC AIRFLOW DATA

DM96MC0603BXAA
COOLING SPEED
(@ .1" - .8" w.c. ESP)

TAP	ADJUST	HIGH-STAGE CFM	LOW-STAGE CFM
A	Minus 10%	567	351
	Normal	630	390
	Plus 10%	693	429
B	Minus 10%	720	495
	Normal	800	550
	Plus 10%	880	605
C	Minus 10%	900	612
	Normal	1000	680
	Plus 10%	1100	748
D	Minus 10%	1089	720
	Normal	1210	800
	Plus 10%	1331	880

DM96MC0603BXAA
HEATING SPEED
(@ .1" - .5" w.c. ESP; RISE RANGE: 20 - 50°F)

TAP	ADJUST	HIGH-STAGE CFM	RISE (°F)
A	Minus 10%	855	62
	Normal	950	56
	Plus 10%	1,045	51
C	Minus 10%	945	56
	Normal	1,050	51
	Plus 10%	1,155	46
D	Minus 10%	1,053	50
	Normal	1,170	45
	Plus 10%	1,287	41
D	Minus 10%	1,143	46
	Normal	1,270	42
	Plus 10%	1,397	38

DM96MC0805CXAA
COOLING SPEED
(@ .1" - .8" w.c. ESP)

TAP	ADJUST	HIGH-STAGE CFM	LOW-STAGE CFM
A	Minus 10%	747	486
	Normal	830	540
	Plus 10%	913	594
B	Minus 10%	981	675
	Normal	1090	750
	Plus 10%	1199	825
C	Minus 10%	1314	882
	Normal	1460	980
	Plus 10%	1606	1078
D	Minus 10%	1620	1089
	Normal	1800	1210
	Plus 10%	1980	1331

DM96MC0805CXAA
HEATING SPEED
(@ .1" - .5" w.c. ESP; RISE RANGE: 35 - 65°F)

TAP	ADJUST	HIGH-STAGE CFM	RISE (°F)
A	Minus 10%	1,440	49
	Normal	1,600	44
	Plus 10%	1,760	40
B	Minus 10%	1,521	47
	Normal	1,690	42
	Plus 10%	1,859	38
C	Minus 10%	1,620	44
	Normal	1,800	39
	Plus 10%	1,980	36
D	Minus 10%	1,701	42
	Normal	1,890	37
	Plus 10%	2,079	34

NOTES

- All furnaces ship as high speed for cooling. Installer must adjust blower speed as needed.
- For most jobs, about 400 CFM per ton when cooling is desirable.
- Operation is recommended below .5" w.c. ESP in heating mode. Operating CFM between .5" and .8" w.c. is tabulated for cooling purposes only.
- 100% CFM shown. CFM will vary proportionally with the gas valve BTU/H input.

DM96MC AIRFLOW DATA (CONT.)

DM96MC1005DXAA
COOLING SPEED
(@ .1" - .8" w.c. ESP)

TAP	ADJUST	HIGH-STAGE CFM	LOW-STAGE CFM
A	Minus 10%	711	459
	Normal	790	510
	Plus 10%	869	561
B	Minus 10%	990	639
	Normal	1100	710
	Plus 10%	1210	781
C	Minus 10%	1269	819
	Normal	1410	910
	Plus 10%	1551	1001
D	Minus 10%	1647	1044
	Normal	1830	1160
	Plus 10%	2013	1276

DM96MC1005DXAA
HEATING SPEED
(@ .1" - .5" w.c. ESP; RISE RANGE: 35 - 65°F)

TAP	ADJUST	HIGH-STAGE CFM	RISE (°F)
A	Minus 10%	1,629	54
	Normal	1,810	49
	Plus 10%	1,991	44
B	Minus 10%	1,665	53
	Normal	1,850	48
	Plus 10%	2,035	43
C	Minus 10%	1,701	52
	Normal	1,890	47
	Plus 10%	2,079	43
D	Minus 10%	1,746	51
	Normal	1,940	46
	Plus 10%	2,134	41

DM96MC1155DXAA
COOLING SPEED
(@ .1" - .8" w.c. ESP)

TAP	ADJUST	HIGH-STAGE CFM	LOW-STAGE CFM
A	Minus 10%	711	459
	Normal	790	510
	Plus 10%	869	561
B	Minus 10%	990	639
	Normal	1100	710
	Plus 10%	1210	781
C	Minus 10%	1269	819
	Normal	1410	910
	Plus 10%	1551	1001
D	Minus 10%	1647	1044
	Normal	1830	1160
	Plus 10%	2013	1276

DM96MC1155DXAA
HEATING SPEED
(@ .1" - .5" w.c. ESP; RISE RANGE: 35 - 65°F)

TAP	ADJUST	HIGH-STAGE CFM	RISE (°F)
A	Minus 10%	1,629	62
	Normal	1,810	56
	Plus 10%	1,991	51
B	Minus 10%	1,665	60
	Normal	1,850	54
	Plus 10%	2,035	49
C	Minus 10%	1,701	59
	Normal	1,890	53
	Plus 10%	2,079	48
D	Minus 10%	1,746	58
	Normal	1,940	52
	Plus 10%	2,134	47

NOTES

- All furnaces ship as high speed for cooling. Installer must adjust blower speed as needed.
- For most jobs, about 400 CFM per ton when cooling is desirable.
- Operation is recommended below .5" w.c. ESP in heating mode. Operating CFM between .5" and .8" w.c. is tabulated for cooling purposes only.
- 100% CFM shown. CFM will vary proportionally with the gas valve BTU/H input.

DC96MC AIRFLOW DATA

DC96MC0604CXAA
COOLING SPEED
(@ .1" - .8" w.c. ESP)

TAP	ADJUST	HIGH-STAGE CFM	LOW-STAGE CFM
A	Minus 10%	594	333
	Normal	660	370
	Plus 10%	726	407
B	Minus 10%	774	486
	Normal	860	540
	Plus 10%	946	594
C	Minus 10%	1035	711
	Normal	1150	790
	Plus 10%	1265	869
D	Minus 10%	1323	882
	Normal	1470	980
	Plus 10%	1617	1078

DC96MC0604CXAA
HEATING SPEED
(@ .1" - .5" w.c. ESP; RISE RANGE: 20 - 50°F)

TAP	ADJUST	HIGH-STAGE CFM	RISE (°F)
A	Minus 10%	1,098	48
	Normal	1,220	44
	Plus 10%	1,342	40
C	Minus 10%	1,206	44
	Normal	1,340	40
	Plus 10%	1,474	36
D	Minus 10%	1,314	40
	Normal	1,460	36
	Plus 10%	1,606	33
D	Minus 10%	1,431	37
	Normal	1,590	33
	Plus 10%	1,749	30

DC96MC0805DXAA
COOLING SPEED
(@ .1" - .8" w.c. ESP)

TAP	ADJUST	HIGH-STAGE CFM	LOW-STAGE CFM
A	Minus 10%	810	477
	Normal	900	530
	Plus 10%	990	583
B	Minus 10%	990	657
	Normal	1100	730
	Plus 10%	1210	803
C	Minus 10%	1287	837
	Normal	1430	930
	Plus 10%	1573	1023
D	Minus 10%	1692	1098
	Normal	1880	1220
	Plus 10%	2068	1342

DC96MC0805DXAA
HEATING SPEED
(@ .1" - .5" w.c. ESP; RISE RANGE: 20 - 50°F)

TAP	ADJUST	HIGH-STAGE CFM	RISE (°F)
A	Minus 10%	1,440	49
	Normal	1,600	44
	Plus 10%	1,760	40
B	Minus 10%	1,539	46
	Normal	1,710	41
	Plus 10%	1,881	38
C	Minus 10%	1,620	44
	Normal	1,800	39
	Plus 10%	1,980	36
D	Minus 10%	1,719	41
	Normal	1,910	37
	Plus 10%	2,101	34

NOTES

- All furnaces ship as high speed for cooling. Installer must adjust blower speed as needed.
- For most jobs, about 400 CFM per ton when cooling is desirable.
- Operation is recommended below .5" w.c. ESP in heating mode. Operating CFM between .5" and .8" w.c. is tabulated for cooling purposes only.
- 100% CFM shown. CFM will vary proportionally with the gas valve BTU/H input.

DC96MC AIRFLOW DATA (CONT.)

DC96MC1005DXAA
COOLING SPEED
(@ .1" - .8" w.c. ESP)

TAP	ADJUST	HIGH-STAGE CFM	LOW-STAGE CFM
A	Minus 10%	702	450
	Normal	780	500
	Plus 10%	858	550
B	Minus 10%	963	666
	Normal	1070	740
	Plus 10%	1177	814
C	Minus 10%	1242	828
	Normal	1380	920
	Plus 10%	1518	1012
D	Minus 10%	1602	1044
	Normal	1780	1160
	Plus 10%	1958	1276

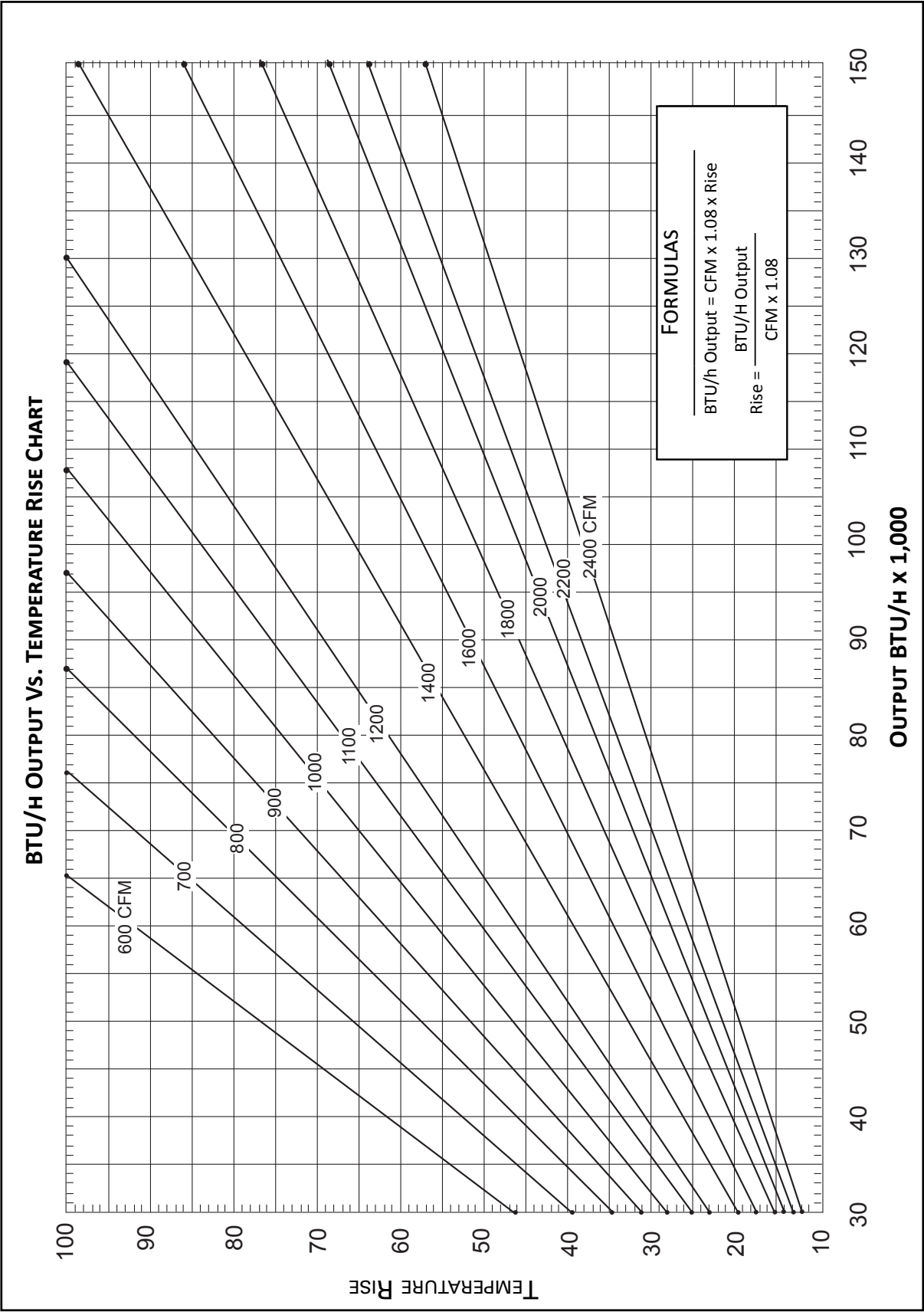
DC96MC1005DXAA
HEATING SPEED
(@ .1" - .5" w.c. ESP; RISE RANGE: 25 - 55°F)

TAP	ADJUST	HIGH-STAGE CFM	RISE (°F)
A	Minus 10%	1,557	56
	Normal	1,730	51
	Plus 10%	1,903	46
B	Minus 10%	1,593	55
	Normal	1,770	49
	Plus 10%	1,947	45
C	Minus 10%	1,656	53
	Normal	1,840	48
	Plus 10%	2,024	43
D	Minus 10%	1,683	52
	Normal	1,870	47
	Plus 10%	2,057	43

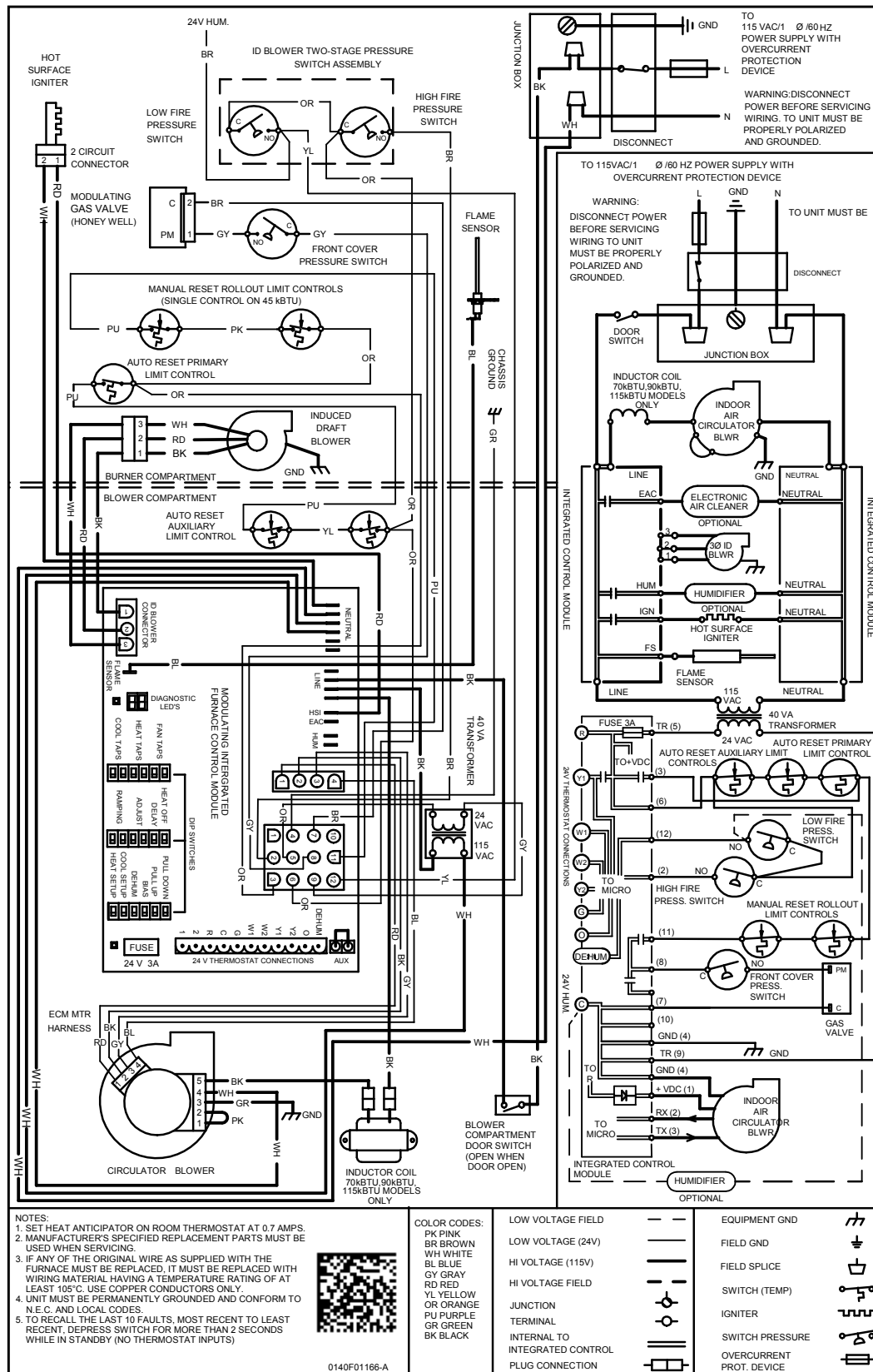
NOTES

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- For most jobs, about 400 CFM per ton when cooling is desirable.
- Operation is recommended below .5" w.c. ESP in heating mode. Operating CFM between .5" and .8" w.c. is tabulated for cooling purposes only.
- 100% CFM shown. CFM will vary proportionally with the gas valve BTU/H input.

TEMPERATURE RISE RANGE CHART



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 or the unit for the most up-to-date wiring.

ACCESSORIES

MODEL	DESCRIPTION	DM96MC 0603BXAA	DM96MC 0805CXAA	DM96MC 1005DXAA	DM96MC 1155DXAA	DC96MC 0604CXAA	DC96MC 0805DXAA	DC96MC 1005DXAA
LPKMOD060UF	LP Conversion Kits	✓	---	---	---	---	---	---
LPKMOD080UF		---	✓	---	---	---	---	---
LPKMOD100UF		---	---	✓	---	---	---	---
LPKMOD115UF		---	---	---	✓	---	---	---
LPKMOD060CF		---	---	---	---	✓	---	---
LPKMOD080CF		---	---	---	---	---	✓	---
LPKMOD100CF		---	---	---	---	---	---	✓
DCVK-20	Horizontal/Vertical Concentric Vent Kit (2")	✓	✓	✓	---	✓	---	---
DCVK-30	Horizontal/Vertical Concentric Vent Kit (3")	✓	✓	✓	✓	✓	✓	✓
CFB21	Downflow Floor Base	---	---	---	---	✓	---	---
CFB24	Downflow Floor Base	---	---	---	---	---	✓	✓
0170K00000S	Flush-mount vent kit	✓	✓	✓	✓	✓	✓	✓

NOTES

✓ Indicates available for this model

- For installation in Canada, gas furnaces are certified only to 4,500'.

THERMOSTATS



CTK03 ComfortNet-compatible Control
(See ComfortNet website (www.comfortnet1.com)
for details.)



CTK02 ComfortNet-compatible Control
(See ComfortNet website (www.comfortnet1.com)
for details.)



CTK01 ComfortNet-compatible Control
(See ComfortNet website (www.comfortnet1.com)
for details.)