TRANE

Product Catalog

Variable Refrigerant Flow (VRF)
Mid-Static Concealed (Ducted) Indoor Units

Indoor Unit Model number: 4TVD****C*****

　　VRF-PRC026A-EN　　**IR** *Ingersoll Rand*

Introduction

Trane® variable refrigerant flow (VRF) systems are efficient, effective, reliable heating and cooling solutions that you can trust. VRF is well suited for historic buildings without existing ductwork, as well as for schools and mid-rise office buildings with multiple interior spaces and diverse occupancy rates. When VRF is the right solution for your application, Trane will help you ensure that it is the best solution.

Trane VRF systems are designed for exceptional energy efficiency, offering industry leading performance. Trane VRF systems utilize inverter compressors (some models feature dual compressors) with vapor injection for improved performance and comfort.

Systems are available for both heat pump and simultaneous heating and cooling operation. Both feature individual zone control to provide individual occupant comfort. The simultaneous heating and cooling models offer the ability to heat and cool adjacent zones, intelligently exchanging energy between them through strategically located mode control units.

Trane indoor VRF units support capacities from 7,000 – 96,000 BTUs and are available in cassette, concealed, high-wall, and convertible floor/ceiling designs to match a wide variety of room designs and airflow requirements. Crisp, modern styling is combined with precise engineering to deliver attractive, rugged, lightweight units that are easy to install and maintain. Quiet, powerful fans quickly direct airflow where it is needed to maintain optimal comfort.

Available performance and convenience features include internal condensate pumps with check valves, fresh air intakes, easy-to-clean filters, and wired and wireless remote controls.

Trane offers a complete line-up of controls to complete your VRF installation. These range from easy to use individual zone controls, to centralized systems for building monitoring and control, as well as optional BACnet® connectivity for centralized Trane Tracer® integration.

Best of all, your Trane VRF system is supported by the Trane nationwide network of sales and service offices.

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Features and Benefits

Standard

- 10-year parts warranty with certified start-up
- High static
- Low noise operation
- Internal condensate pump
- UL 1995 compliant for use in multiple rooms
- Washable return air filter
- BLDC supply fan

Optional

- Return air filter box with MERV 13 filter
- Wireless remote control
- Simple touch remote control
- Wired programmable control

Model Number Description

4	T	V	D	0	0	1	8	C	1	0	0	N	A
1	2	3	4	5	6	7	8	9	10	11	12	13	14

DIGIT 1 = Refrigerant

4 = R-410a

DIGIT 2 = Brand Name

T = Trane

DIGIT 3 = System type

V = Variable Refrigerant Flow

DIGIT 4 = Configuration type

D = Mid-Static Duct (MSP)

DIGIT 5 = Efficiency tier

0 = Not currently used

DIGIT 6, 7, 8 = Nominal Capacity (Btu/h x 1,000)

007 = 7,500 Btu/h
009 = 9,500 Btu/h
012 = 12,000 Btu/h
015 = 15,000 Btu/h
018 = 18,000 Btu/h
024 = 24,000 Btu/h
027 = 27,000 Btu/h
030 = 30,000 Btu/h
036 = 36,000 Btu/h
048 = 48,000 Btu/h

DIGIT 9 = Major development sequence

C = Third development sequence

DIGIT 10 = Electric power supply characteristics

1 = 208–230/60/1

DIGIT 11, 12 = Reserved for future use

0 = Not currently used

DIGIT 13 = Region of sale

N = North America (UL or ETL)

DIGIT 14 = Minor design sequence

A = First design sequence
B = Second design sequence

Mechanical Specifications

Concealed (duct type) air handlers are high-performance ceiling-concealed ducted fan coils with field-adjustable return (requires return air filter plenum) and a fixed horizontal discharge supply. These air handlers are UL 1995 certified to serve multiple rooms.

Indoor Unit

Each indoor unit is completely factory assembled including control circuit board and fan motor(s). A 2,000–step modulating expansion device is factory piped to an indoor coil of nonferrous construction with slit fins on copper tubing. Each indoor unit includes a condensate drain pan and built-in condensate drain pump capable of 47.25 in. (1.2 m) of lift. The indoor unit is factory and run tested.

Unit Cabinet

The indoor unit has flanges for ducted air supply connections and provisions for field-installed filtered return air and outside air intake.

Fan

The indoor fan is statically and dynamically balanced to run on a motor with permanently lubricated bearings. The indoor fan motor(s) have three speeds available: High, Mid, and Low.

Controls

Family	Description		Model Number
Zone Controllers	Wireless Remote Control • Mode: Heat/Cool/Auto/Off • Fan: Auto/High/Med/Low • Service Indicator **Note:** *Requires the use of a Duct Signal Receiver.*		TVCTRLTRDH00UT
	Simple Touch Control • Mode: Heat/Cool/Auto/Off • Fan: Auto/High/med/Low • Service indicator		TVCTRLTWR0002T
	Wired Remote Control • Mode: Heat/Cool/Auto/Off • Fan: Auto/High/Med/Low • Programmable • Service Indicator		TVCTRLTWRWD01T
	Duct Signal Receiver		TVCTRLTRKA10N0
Centralized Control Systems	VRF Central On/Off Control		TVCTRLTCMA202D
	VRF Touch Screen Control		TVCTRLTCMA300T
Integrated System Management	VRF System Controller		TVCTRLTIMD00A0
	VRF Enterprise Management Software		TVCTRLTSTP3P00
	VRF Power Meter Interface (PIM)		TVCTRLTIMB16A0
Building Management System Gateways	VRF System Controller+BACnet$^®$ **Note:** *This controller enables BACnet integration.*		TVCTRLTIMB17A0
Interface Modules	VRF External Contact Interface Module/Auxiliary Heat Module		TVCTRLTIMB14A0
Sensors	VRF External Room Temperature Sensor		TVCTRLTRWTA000
Commissioning Utility Kits	VRF Technician Utilities Tool (TUT)		TVCTRLTIMC0300

Accessories

Family	Description		Model Number
Ball Valves	1/2 in. Ball Valve Flare		BVALVE12FLARE1
	1/4 in. Ball Valve Flare		BVALVE14FLARE1
	3/8 in. Ball Valve Flare		BVALVE38FLARE1
	5/8 in. Ball Valve Flare		BVALVE58FLARE1
Filter Box	7, 9, 12. 15, and 18 MBH Indoor Unit		MSPDUCTFLTR01AA
	24, 27, 30, 36, and 48 MBH Indoor Unit		MSPDUCTFLTR02AA
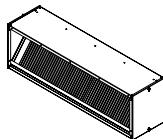
Product Specifications

Table 1. Product specifications for 7, 9, 12, and 15 MBH capacity units

MODEL NUMBER			4TVD0007C100NA	4TVD0009C100NA	4TVD0012C100NA	4TVD0015C100NA
POWER SUPPLY			208–230/60/1	208–230/60/1	208–230/60/1	208–230/60/1
Performance						
Capacity nominal	Cooling	Btu/h	7,500	9,500	12,000	15,000
	Heating	Btu/h	8,500	10,500	13,500	17,000
Dehumidifying volume		pt./h	1.5	1.9	2.6	3.3
Power						
Power input (nominal)	Cooling	W	30.00	30.00	32.00	44.00
	Heating		30.00	30.00	32.00	44.00
Current input (nominal)	Cooling	A	0.24	0.24	0.26	0.32
	Heating		0.24	0.24	0.26	0.32
MCA		A	1.1	1.1	1.1	1.1
MOP		A	15	15	15	15
Fan						
Motor type			BLDC	BLDC	BLDC	BLDC
Motor size			1/4 HP	1/4 HP	1/4 HP	1/4 HP
Output		W	183	183	183	183
FLA		A	0.85	0.85	0.85	0.85
Fan type			Sirocco	Sirocco	Sirocco	Sirocco
Air flow rate H/M/L (dry coil)		cfm	265/237/212	318/283/247	353/300/247	424/371/318
External static pressure (Min/Std/Max)		inH$_2$O	0.00/0.04/0.60	0.00/0.04/0.60	0.00/0.04/0.60	0.00/0.04/0.60
Coil						
Construction			Fin/Copper tube	Fin/Copper tube	Fin/Copper tube	Fin/Copper tube
Sound						
Sound pressure level (H/M/L)		dB(A)	36.0/30.0/26.0	38.0/32.0/26.0	39.0/34.0/30.0	41.0/36.0/32.0
Sound power level		dB(A)	55	56	60	63
Standard Component						
Filter			Washable mesh	Washable mesh	Washable mesh	Washable mesh
Condensate drain pump	Max. lifting height	in. (mm)	47.25 (1200)	47.25 (1200)	47.25 (1200)	47.25 (1200)
	Displacement	pt.(L)/h	50.7 (24)	50.7 (24)	50.7 (24)	50.7 (24)
Connections						
Type			Flare	Flare	Flare	Flare
Liquid pipe		dia, in.	1/4	1/4	1/4	1/4
Gas pipe		dia, in.	1/2	1/2	1/2	1/2

Table 1. Product specifications for 7, 9, 12, and 15 MBH capacity units (continued)

MODEL NUMBER		4TVD0007C100NA	4TVD0009C100NA	4TVD0012C100NA	4TVD0015C100NA
POWER SUPPLY		208–230/60/1	208–230/60/1	208–230/60/1	208–230/60/1
Condensate drain	dia, in.	VP25 (OD 1.26, ID 1)	VP25 (OD 1.26, ID 1)	VP25 (OD 1.26, ID 1)	VP25 (OD 1.26, ID 1)
Dimensions					
Net weight	lbs.	91.5	91.5	91.5	91.5
Shipping weight	lbs.	103.6	103.6	103.6	103.6
Net dimensions (WxHxD)	in.	45.275 x 12.6 x 18.9	45.275 x 12.6 x 18.9	45.275 x 12.6 x 18.9	45.275 x 12.6 x 18.9
Shipping dimensions (WxHxD)	in.	55.9 × 15.8 × 23.4	55.9 × 15.8 × 23.4	55.9 × 15.8 × 23.4	55.9 × 15.8 × 23.4

Notes:

1. Nominal capacity based on 25 ft (7.6 m) of equivalent refrigerant piping with 0 ft (0 m) level difference.
   - **Cooling**: Indoor temperature 80°F DB, 67°F WB; outdoor temperature 95°F DB, 75°F WB
   - **Heating**: Indoor temperature 70°F DB, 60°F WB; outdoor temperature 47°F DB, 43°F WB
2. Sound pressure was acquired in a dead room. Actual noise level may be different depending on installation requirements.

Table 2. Product specifications for 18, 24, and 27 MBH capacity units

MODEL NUMBER			4TVD0018C100NA	4TVD0024C100NA	4TVD0027C100NA
POWER SUPPLY			208–230/60/1	208–230/60/1	208–230/60/1
Performance					
Capacity Nominal	Cooling	Btu/h	18,000	24,000	27,000
	Heating	Btu/h	20,000	27,000	30,000
Dehumidifying volume		pt./h	3.8	5.2	5.7
Power					
Power input (nominal)	Cooling	W	52.00	82.00	91.00
	Heating		52.00	82.00	91.00
Current Iinput (nominal)	Cooling	A	0.40	0.93	0.95
	Heating		0.40	0.93	0.95
MCA		A	1.1	4.3	4.3
MOP		A	15	15.0	15.0
Fan					
Motor type			BLDC	BLDC x 2	BLDC x 2
Motor size			1/4 HP	1/4 HP ea.	1/4 HP ea.
Output		W	183	183 ea.	183 ea.
FLA		A	0.85	1.9 ea.	1.9 ea.
Fan type			Sirocco	Sirocco	Sirocco
Air flow rate H/M/L (dry coil)		cfm	512/459/406	653/600/547	742/689/636
External static pressure (Min/Std/Max)		inH$_2$O	0.00/0.04/0.60	0.12/0.20/0.80	0.12/0.20/0.80
Coil					
Construction			Fin/Copper tube	Fin/Copper tube	Fin/Copper tube
Sound					
Sound pressure level (H/M/L)		dB(A)	42.0/38.0/35.0	36.0/34.0/30.0	38.0/34.0/30.0
Sound power level		dB(A)	66	71	71
Standard Components					
Filter			Washable mesh	Washable mesh	Washable mesh
Condensate drain pump	Max. lifting height	in. (mm)	47.25 (1200)	47.25 (1200)	47.25 (1200)
	Displacement	pt.(L)/h	50.7 (24)	50.7 (24)	50.7 (24)
Connections					
Type			Flare	Flare	Flare
Liquid pipe		dia, in.	1/4	3/8	3/8
Gas pipe		dia, in.	1/2	5/8	5/8
Condensate drain		dia, in.	VP25 (OD 1.26,ID 1)	VP25 (OD 1.26,ID 1)	VP25 (OD 1.26,ID 1)

Table 2. Product specifications for 18, 24, and 27 MBH capacity units (continued)

MODEL NUMBER		4TVD0018C100NA	4TVD0024C100NA	4TVD0027C100NA
POWER SUPPLY		208–230/60/1	208–230/60/1	208–230/60/1
Dimensions				
Net weight	lbs.	94.8	127.9	127.9
Shipping weight	lbs.	106.9	144.4	144.4
Net dimensions (WxHxD)	in.	45.275 x 12.6 x 18.9	47.24 x 14.17 x 25.59	47.24 x 14.17 x 25.59
Shipping dimensions (WxHxD)	in.	55.9 × 15.8 × 23.4	57.48 x 17.91 x 30.71	57.48 x 17.91 x 30.71

Notes:

1. *Nominal capacity based on 25 ft (7.6 m) of equivalent refrigerant piping with 0 ft (0 m) level difference.*

   - ***Cooling****: Indoor temperature 80°F DB, 67°F WB; outdoor temperature 95°F DB, 75°F WB*

   - ***Heating****: Indoor temperature 70°F DB, 60°F WB; outdoor temperature 47°F DB, 43°F WB*

2. *Sound pressure was acquired in a dead room. Actual noise level may be different depending on installation requirements.*

Table 3. Product specifications for 30, 36, and 48 MBH capacity units

Model Number			4TVD0030C100NA	4TVD0036C100NA	4TVD0048C100NA
Power Supply			208−230/60/1	208−230/60/1	208−230/60/1
Performance					
Capacity nominal	Cooling	Btu/h	30,000	36,000	48,000
	Heating	Btu/h	34,000	40,000	54,000
Dehumidifying volume		pt./h	6.3	7.7	10.2
Power					
Power Input (Nominal)	Cooling	W	108.00	140.00	200.00
	Heating		108.00	140.00	200.00
Current input (nominal)	Cooling	A	1.11	1.29	1.76
	Heating		1.11	1.29	1.76
MCA		A	4.3	4.3	4.3
MOP		A	15.0	15.0	15.0
Fan					
Motor type			BLDC x 2	BLDC x 2	BLDC x 2
Motor size			1/4 HP ea.	1/4 HP ea.	1/4 HP ea.
Output		W	183 ea.	183 ea.	183 ea.
FLA		A	1.9 ea.	1.9 ea.	1.9 ea.
Fan type			Sirocco	Sirocco	Sirocco
Air flow rate H/M/L (dry coil)		cfm	883/795/706	954/883/812	1,236/1,148/1,059
External static pressure (Min/Std/Max)		inH$_2$O	0.12/0.20/0.80	0.12/0.20/0.80	0.12/0.20/0.80
Coil					
Construction			Fin/Copper tube	Fin/Copper tube	Fin/Copper tube
Sound					
Sound pressure level (H/M/L)		dB(A)	39.0/34.0/31.0	41.0/38.0/35.0	42.0/39.0/36.0
Sound power level		dB(A)	72	72	73
Standard Component					
Filter			Washable mesh	Washable mesh	Washable mesh
Condensate drain pump	Max. lifting height	in.	47.25 (1200 mm)	47.25 (1200 mm)	47.25 (1200 mm)
	Displacement	pt.(L)/h	50.7 (24)	50.7 (24)	50.7 (24)
Connections					
Type			Flare	Flare	Flare
Liquid pipe		dia, in.	3/8	3/8	3/8
Gas pipe		dia, in.	5/8	5/8	5/8
Condensate drain		dia, in.	VP25 (OD 1.26,ID)	VP25 (OD 1.26,ID 1)	VP25 (OD 1.26,ID 1)

Table 3. Product specifications for 30, 36, and 48 MBH capacity units (continued)

Model Number		4TVD0030C100NA	4TVD0036C100NA	4TVD0048C100NA
Power Supply		208−230/60/1	208−230/60/1	208−230/60/1
Dimensions				
Net weight	lbs.	127.9	132.8	132.8
Shipping weight	lbs.	144.4	148.8	148.8
Net dimensions (WxHxD)	in.	47.24 x 14.17 x 25.59	47.24 x 14.17 x 25.59	47.24 x 14.17 x 25.59
Shipping dimensions (WxHxD)	in.	57.48 x 17.91 x 30.71	57.48 x 17.91 x 30.71	57.48 x 17.91 x 30.71

Notes:

1. *Nominal capacity based on 25 ft (7.6 m) of equivalent refrigerant piping with 0 ft (0 m) level difference.*
   - ***Cooling****: Indoor temperature 80°F DB, 67°F WB; outdoor temperature 95° F DB, 75° F WB*
   - ***Heating****: Indoor temperature 70°F DB, 60°F WB; outdoor temperature 47°F DB, 43°F WB*
2. *Sound pressure was acquired in a dead room. Actual noise level may be different depending on installation requirements.*

Capacity Tables

4TVD0007C100NA Cooling Capacity Table

Outdoor temp °F (°C)	Indoor temperature: °F (°C) WB																	
	57.0 (13.9)		61.0 (16.1)		64.0 (17.8)		67.0 (19.4)		70.0 (21.1)		72.0 (22.2)		75.0 (23.9)	
	TC	SC	TC	SC	TC	SC	TC	SC	TC	SC	TC	SC	TC	SC
	BTU/h	BTU/h	BTU/h	BTU/h	BTU/h	BTU/h	BTU/h	BTU/h	BTU/h	BTU/h	BTU/h	BTU/h	BTU/h	BTU/h
50 (10.0)	5200	4400	6200	5100	7200	5800	7500	5800	7900	5800	8600	6200	8900	5500
54 (12.2)	5200	4400	6200	5100	7200	5800	7500	5800	7900	5800	8600	6200	8900	5500
58 (14.4)	5200	4400	6200	5100	7200	5800	7500	5800	7900	5800	8600	6200	8900	5500
60 (15.6)	5200	4400	6200	5100	7200	5800	7500	5800	7900	5800	8200	5800	8900	5500
64 (17.8)	5200	4400	6200	5100	7200	5800	7500	5800	7900	5800	8200	5800	8900	5500
67 (19.4)	5200	4400	6200	5100	7200	5800	7500	5800	7900	5800	8200	5800	8900	5500
70 (21.1)	5200	4400	6200	5100	7200	5800	7500	5800	7900	5800	8200	5800	8900	5500
73 (22.8)	5200	4400	6200	5100	7200	5800	7500	5800	7900	5800	8200	5800	8900	5500
77 (25.0)	5200	4400	6200	5100	7200	5800	7500	5800	7900	5800	8200	5800	8900	5500
80 (26.7)	5200	4400	6200	5100	7200	5800	7500	5800	7900	5800	8200	5800	8900	5500
84 (28.9)	5200	4400	6200	5100	7200	5800	7500	5800	7900	5800	8200	5800	8900	5500
88 (31.1)	5200	4400	6200	5100	7200	5800	7500	5800	7900	5800	8200	5800	8900	5500
92 (33.3)	5200	4400	6200	5100	7200	5800	7500	5800	7900	5800	8200	5800	8900	5500
95 (35.0)	5200	4400	6200	5100	7200	5800	7500	5800	7900	5800	8200	5800	8900	5500
99 (37.2)	5200	4400	6200	5100	7200	5800	7500	5800	7900	5800	8200	5800	8900	5500
103 (39.4)	5200	4400	6200	5100	7200	5800	7500	5800	7900	5800	8200	5800	8600	5100
107 (41.7)	5200	4800	6200	5500	7200	6200	7200	5800	7500	5800	7900	5800	8200	5100
111 (43.9)	5200	4800	6200	5500	6900	5800	7200	5800	7200	5500	7500	5500	7500	4800
115 (46.1)	5200	4800	6200	5500	6200	5100	6500	5100	6900	5100	7200	5100	7200	4400
118 (47.8)	5100	4700	6100	5400	6000	5000	6500	5100	6700	5000	6900	4900	6900	4200
120 (48.9)	4700	4300	5500	4800	5300	4400	5700	4500	5800	4400	6100	4300	6000	3700

Notes:

1. TC = total capacity
2. SC = sensible capacity

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4TVD0007C100NA Heating Capacity Table

Outdoor temp: °F (°C)		Indoor temperature: °F (°C) DB				
		61.0 (16.1)	65.0 (18.3)	70.0 (21.1)	72.0 (22.2)	75.0 (23.9)
DB	WB	TC	TC	TC	TC	TC
		BTU/h	BTU/h	BTU/h	BTU/h	BTU/h
-12.6 (−24.8)	-13 (-25.0)	4700	4700	4700	4700	4700
-7.1 (−21.7)	-7.6 (-22.0)	5000	5000	5000	5000	5000
-3.6 (-19.8)	-4 (-20.0)	5200	5200	5200	5200	5200
-1.8 (-18.8)	-2 (-18.9)	5300	5300	5300	5300	5300
2 (-16.7)	1 (-17.2)	5500	5500	5500	5500	5500
6 (−14.4)	5 (-15.0)	5900	5600	5600	5600	5500
10 (-12.2)	9 (-12.8)	6100	6000	6000	6000	5800
13 (-10.6)	12 (-11.1)	6700	6700	6400	6400	6300
17 (-8.3)	15 (-9.4)	7000	7000	6700	6600	6600
19 (-7.2)	18 (-7.8)	7400	7200	7000	6700	6700
23 (-5.0)	21 (-6.1)	7900	7500	7500	6800	6800
26 (-3.3)	24 (-4.4)	8200	7900	7900	7500	7500
30 (-1.1)	28 (-2.2)	8500	8500	8200	7900	7500
35 (1.7)	32 (0.0)	8900	8500	8500	7900	7500
39 (3.9)	36 (3.2)	9200	8900	8500	7900	7500
44 (6.7)	40 (4.4)	9600	9200	8500	7900	7500
47 (8.3)	43 (6.1)	9600	9200	8500	7900	7500
51 (10.6)	47 (8.3)	10200	9200	8500	7900	7500
54 (12.2)	50 (10.0)	10200	9200	8500	7900	7500
57 (13.9)	53 (11.7)	10200	9200	8500	7900	7500
60 (15.6)	56 (13.3)	10200	9200	8500	7900	7500

Note: TC =Total Capacity

4TVD0009C100NA Cooling Capacity Table

Outdoor temp °F (°C)	Indoor temperature: °F (°C) WB													
	57.0 (13.9)		61.0 (16.1)		64.0 (17.8)		67.0 (19.4)		70.0 (21.1)		72.0 (22.2)		75.0 (23.9)	
	TC	SC	TC	SC	TC	SC	TC	SC	TC	SC	TC	SC	TC	SC
	BTU/h	BTU/h	BTU/h	BTU/h	BTU/h	BTU/h	BTU/h	BTU/h	BTU/h	BTU/h	BTU/h	BTU/h	BTU/h	BTU/h
50 (10.0)	6500	6000	7900	6700	8900	7100	9500	7400	9900	7400	10600	7400	11600	7400
54 (12.2)	6500	6000	7900	6700	8900	7100	9500	7400	9900	7400	10600	7400	11200	7100
58 (14.4)	6500	6000	7900	6700	8900	7100	9500	7400	9900	7400	10600	7400	11200	7100
60 (15.6)	6500	6000	7900	6700	8900	7100	9500	7400	9900	7400	10600	7400	11200	7100
64 (17.8)	6500	6000	7900	6700	8900	7100	9500	7400	9900	7400	10600	7400	11200	7100
67 (19.4)	6500	6000	7900	6700	8900	7100	9500	7400	9900	7400	10600	7400	11200	7100
70 (21.1)	6500	6000	7900	6700	8900	7100	9500	7400	9900	7400	10600	7400	11200	7100
73 (22.8)	6500	6000	7900	6700	8900	7100	9500	7400	9900	7400	10600	7400	11200	7100
77 (25.0)	6500	6000	7900	6700	8900	7100	9500	7400	9900	7400	10600	7400	11200	7100
80 (26.7)	6500	6000	7900	6700	8900	7100	9500	7400	9900	7400	10600	7400	11200	7100
84 (28.9)	6500	6000	7900	6700	8900	7100	9500	7400	9900	7400	10600	7400	11200	7100
88 (31.1)	6500	6000	7900	6700	8900	7100	9500	7400	9900	7400	10600	7400	11200	7100
92 (33.3)	6500	6000	7900	6700	8900	7100	9500	7400	9900	7400	10600	7400	11200	7100
95 (35.0)	6500	6000	7900	6700	8900	7100	9500	7400	9900	7400	10600	7400	11200	7100
99 (37.2)	6500	6000	7900	6700	8900	7100	9500	7400	9900	7400	10600	7400	11200	7100
103 (39.4)	6500	6000	7900	6700	8900	7100	9500	7400	9900	7400	10200	7100	10900	6700
107 (41.7)	6500	6000	7900	6700	8800	7000	9400	7400	9800	7400	10100	7000	10600	6500
111 (43.9)	6500	6000	7900	6700	8600	6800	9100	7100	9500	7200	9700	6700	10300	6300
115 (46.1)	6500	6000	7800	6600	8400	6700	8800	6900	9200	6900	9300	6500	10000	6200
118 (47.8)	6400	5900	7700	6600	8300	6600	8600	6700	9000	6800	9100	6300	9600	5900
120 (48.9)	6300	5800	7600	6500	8100	6500	8500	6600	8800	6600	8700	6000	9300	5700

Notes:

1. TC = total capacity
2. SC = sensible capacity

4TVD0009C100NA Heating Capacity Table

Outdoor temp: °F (°C)		Indoor temperature: °F (°C) DB				
		61.0 (16.1)	65.0 (18.3)	70.0 (21.1)	72.0 (22.2)	75.0 (23.9)
DB	WB	TC	TC	TC	TC	TC
		BTU/h	BTU/h	BTU/h	BTU/h	BTU/h
-12.6 (−24.8)	-13 (-25.0)	5700	5700	5700	5700	5700
-7.1 (−21.7)	-7.6 (-22.0)	6100	6100	6100	6100	6100
-3.6 (-19.8)	-4 (-20.0)	6300	6300	6300	6300	6300
-1.8 (-18.8)	-2 (-18.9)	6400	6400	6400	6400	6300
2 (-16.7)	1 (-17.2)	6700	6700	6600	6600	6300
6 (−14.4)	5 (-15.0)	7000	7000	6700	6600	6300
10 (-12.2)	9 (-12.8)	7200	7200	7100	6900	6800
13 (-10.6)	12 (-11.1)	7500	7500	7500	7400	7200
17 (-8.3)	15 (-9.4)	7700	7700	7700	7700	7300
19 (-7.2)	18 (-7.8)	7900	7800	7800	7800	7400
23 (-5.0)	21 (-6.1)	8300	7900	7900	7900	7600
26 (-3.3)	24 (-4.4)	8600	8600	8300	8300	7900
30 (-1.1)	28 (-2.2)	9200	8900	8900	8600	8300
35 (1.7)	32 (0.0)	9600	9200	9200	8900	8600
39 (3.9)	36 (3.2)	9900	9900	9600	9200	8900
44 (6.7)	40 (4.4)	10500	10200	10200	9600	8900
47 (8.3)	43 (6.1)	10900	10500	10500	9900	8900
51 (10.6)	47 (8.3)	11200	10900	10500	9900	8900
54 (12.2)	50 (10.0)	11500	10900	10500	9900	8900
57 (13.9)	53 (11.7)	11900	11200	10500	9900	8900
60 (15.6)	56 (13.3)	12200	11200	10500	9900	8900

Note: TC =Total Capacity

4TVD0012C100NA Cooling Capacity Table

| Outdoor temp °F (°C) | Indoor temperature: °F (°C) WB | | | | | | | | | | | | | |
| | 57.0 (13.9) | | 61.0 (16.1) | | 64.0 (17.8) | | 67.0 (19.4) | | 70.0 (21.1) | | 72.0 (22.2) | | 75.0 (23.9) | |
	TC BTU/h	SC BTU/h	TC BTU/h	SC BTU/h	TC BTU/h	SC BTU/h	TC BTU/h	SC BTU/h	TC BTU/h	SC BTU/h	TC BTU/h	SC BTU/h	TC BTU/h	SC BTU/h
50 (10.0)	8400	7000	9700	8100	11400	8800	12000	9100	12400	9100	13400	9100	14400	8800
54 (12.2)	8400	7000	9700	8100	11400	8800	12000	9100	12400	9100	13400	9100	14400	8800
58 (14.4)	8400	7000	9700	8100	11400	8800	12000	9100	12400	9100	13400	9100	14400	8800
60 (15.6)	8400	7000	9700	8100	11400	8800	12000	9100	12400	9100	13400	9100	14400	8800
64 (17.8)	8400	7000	9700	8100	11400	8800	12000	9100	12400	9100	13400	9100	14000	8400
67 (19.4)	8400	7000	9700	8100	11400	8800	12000	9100	12400	9100	13400	9100	14000	8400
70 (21.1)	8400	7000	9700	8100	11400	8800	12000	9100	12400	9100	13400	9100	14000	8400
73 (22.8)	8400	7000	9700	8100	11400	8800	12000	9100	12400	9100	13400	9100	14000	8400
77 (25.0)	8400	7000	9700	8100	11400	8800	12000	9100	12400	9100	13400	9100	14000	8400
80 (26.7)	8400	7000	9700	8100	11400	8800	12000	9100	12400	9100	13400	9100	14000	8400
84 (28.9)	8400	7000	9700	8100	11400	8800	12000	9100	12400	9100	13400	9100	14000	8400
88 (31.1)	8400	7000	9700	8100	11400	8800	12000	9100	12400	9100	13400	9100	14000	8400
92 (33.3)	8400	7000	9700	8100	11400	8800	12000	9100	12400	9100	13400	9100	14000	8400
95 (35.0)	8400	7000	9700	8100	11400	8800	12000	9100	12400	9100	13400	9100	14000	8400
99 (37.2)	8400	7000	9700	8100	11400	8800	12000	9100	12400	9100	13000	8800	14000	8400
103 (39.4)	8400	7000	9700	8100	11400	8800	12000	9100	12400	9100	13000	8800	13700	8100
107 (41.7)	8400	7000	9700	8100	11300	8700	11900	9000	12200	9000	12800	8600	13400	7900
111 (43.9)	8400	7000	9700	8100	11000	8500	11500	8700	11900	8800	12300	8300	12900	7600
115 (46.1)	8400	7000	9600	8000	10800	8400	11100	8500	11500	8500	11900	8000	12600	7400
118 (47.8)	8300	7000	9500	7900	10600	8200	10800	8200	11300	8400	11600	7800	12100	7200
120 (48.9)	8200	6900	9400	7800	10400	8000	10700	8200	11000	8100	11100	7500	11700	6900

Notes:

1. TC = total capacity
2. SC = sensible capacity

4TVD0012C100NA Heating Capacity Table

Outdoor temp: °F (°C)		Indoor temperature: °F (°C) DB				
		61.0 (16.1)	65.0 (18.3)	70.0 (21.1)	72.0 (22.2)	75.0 (23.9)
DB	WB	TC	TC	TC	TC	TC
		BTU/h	BTU/h	BTU/h	BTU/h	BTU/h
-12.6 (−24.8)	-13 (-25.0)	7000	7000	7000	7000	7000
-7.1 (−21.7)	-7.6 (-22.0)	7800	7800	7800	7800	7800
-3.6 (-19.8)	-4 (-20.0)	8200	8200	7800	7800	7800
-1.8 (-18.8)	-2 (-18.9)	8400	8300	7900	7900	7800
2 (-16.7)	1 (-17.2)	8900	8500	8200	8200	7900
6 (−14.4)	5 (-15.0)	9200	8900	8600	8500	8200
10 (-12.2)	9 (-12.8)	9400	9100	9000	8800	8700
13 (-10.6)	12 (-11.1)	9800	9700	9700	9300	9300
17 (-8.3)	15 (-9.4)	9900	9900	9900	9600	9600
19 (-7.2)	18 (-7.8)	10200	10200	10000	9800	9700
23 (-5.0)	21 (-6.1)	10500	10500	10200	10200	9800
26 (-3.3)	24 (-4.4)	11200	10800	10800	10500	10200
30 (-1.1)	28 (-2.2)	11500	11500	11200	10800	10500
35 (1.7)	32 (0.0)	12200	12200	11900	11500	10800
39 (3.9)	36 (3.2)	12900	12500	12500	11900	11500
44 (6.7)	40 (4.4)	13200	13200	12900	12200	11500
47 (8.3)	43 (6.1)	13900	13900	13500	12500	11500
51 (10.6)	47 (8.3)	14200	13900	13500	12500	11500
54 (12.2)	50 (10.0)	14900	14200	13500	12500	11500
57 (13.9)	53 (11.7)	15200	14200	13500	12500	11500
60 (15.6)	56 (13.3)	15600	14600	13500	12500	11500

Note: *TC =Total Capacity*

4TVD0015C100NA Cooling Capacity Tables

Outdoor temp °F (°C)	Indoor temperature: °F (°C) WB													
	57.0 (13.9)		61.0 (16.1)		64.0 (17.8)		67.0 (19.4)		70.0 (21.1)		72.0 (22.2)		75.0 (23.9)	
	TC	SC	TC	SC	TC	SC	TC	SC	TC	SC	TC	SC	TC	SC
	BTU/h	BTU/h	BTU/h	BTU/h	BTU/h	BTU/h	BTU/h	BTU/h	BTU/h	BTU/h	BTU/h	BTU/h	BTU/h	BTU/h
50 (10.0)	10400	9300	12400	10700	14000	11100	15000	11400	15700	11400	16700	11400	18000	11800
54 (12.2)	10400	9300	12400	10700	14000	11100	15000	11400	15700	11400	16700	11400	18000	11800
58 (14.4)	10400	9300	12400	10700	14000	11100	15000	11400	15700	11400	16700	11400	18000	11800
60 (15.6)	10400	9300	12400	10700	14000	11100	15000	11400	15700	11400	16700	11400	17700	10700
64 (17.8)	10400	9300	12400	10700	14000	11100	15000	11400	15700	11400	16700	11400	17700	10700
67 (19.4)	10400	9300	12400	10700	14000	11100	15000	11400	15700	11400	16700	11400	17700	10700
70 (21.1)	10400	9300	12400	10700	14000	11100	15000	11400	15700	11400	16700	11400	17700	10700
73 (22.8)	10400	9300	12400	10700	14000	11100	15000	11400	15700	11400	16700	11400	17700	10700
77 (25.0)	10400	9300	12400	10700	14000	11100	15000	11400	15700	11400	16700	11400	17700	10700
80 (26.7)	10400	9300	12400	10700	14000	11100	15000	11400	15700	11400	16700	11400	17700	10700
84 (28.9)	10400	9300	12400	10700	14000	11100	15000	11400	15700	11400	16700	11400	17700	10700
88 (31.1)	10400	9300	12400	10700	14000	11100	15000	11400	15700	11400	16700	11400	17700	10700
92 (33.3)	10400	9300	12400	10700	14000	11100	15000	11400	15700	11400	16700	11400	17700	10700
95 (35.0)	10400	9300	12400	10700	14000	11100	15000	11400	15700	11400	16700	11400	17700	10700
99 (37.2)	10400	9300	12400	10700	14000	11100	15000	11400	15400	11100	16400	11100	17400	10700
103 (39.4)	10400	9300	12400	10700	14000	11100	15000	11400	15400	11100	16400	11100	17000	10400
107 (41.7)	10400	9300	12400	10700	13900	11000	14900	11300	15200	11000	16100	10900	16600	10100
111 (43.9)	10400	9300	12400	10700	13600	10700	14400	10900	14800	10700	15500	10500	16000	9800
115 (46.1)	10400	9300	12300	10600	13400	10500	13900	10600	14300	10300	15000	10100	15600	9500
118 (47.8)	10300	9200	12100	10500	13100	10400	13500	10300	14000	10100	14500	9800	15100	9200
120 (48.9)	10100	9100	12000	10400	12800	10100	13400	10200	13600	9800	14000	9500	14500	8800

Notes:

1. *TC = Total Capacity*
2. *SC = sensible capacity*

4TVD0015C100NA Heating Capacity Table

Outdoor temp: °F (°C)		Indoor temperature: °F (°C) DB				
		61.0 (16.1)	65.0 (18.3)	70.0 (21.1)	72.0 (22.2)	75.0 (23.9)
DB	WB	TC	TC	TC	TC	TC
		BTU/h	BTU/h	BTU/h	BTU/h	BTU/h
-12.6 (−24.8)	-13 (-25.0)	10000	10000	10000	10000	10000
-7.1 (−21.7)	-7.6 (-22.0)	10400	10400	10400	10400	10400
-3.6 (-19.8)	-4 (-20.0)	10600	10600	10000	9900	9900
-1.8 (-18.8)	-2 (-18.9)	10700	10700	10200	10000	10000
2 (-16.7)	1 (-17.2)	11000	11000	10600	10300	10200
6 (−14.4)	5 (-15.0)	11300	11300	11000	10700	10300
10 (-12.2)	9 (-12.8)	11800	11500	11500	11100	10800
13 (-10.6)	12 (-11.1)	12500	12100	12100	11800	11700
17 (-8.3)	15 (-9.4)	12700	12400	12400	12100	12000
19 (-7.2)	18 (-7.8)	13000	12600	12600	12300	12100
23 (-5.0)	21 (-6.1)	13300	13000	13000	12600	12300
26 (-3.3)	24 (-4.4)	14000	13600	13600	13300	12600
30 (-1.1)	28 (-2.2)	14700	14300	14300	13600	13300
35 (1.7)	32 (0.0)	15300	15000	15000	14300	13600
39 (3.9)	36 (3.2)	16000	16000	15700	15000	14300
44 (6.7)	40 (4.4)	16700	16700	16400	15300	14300
47 (8.3)	43 (6.1)	17400	17400	17000	15700	14300
51 (10.6)	47 (8.3)	18100	17700	17000	15700	14300
54 (12.2)	50 (10.0)	18700	17700	17000	15700	14300
57 (13.9)	53 (11.7)	19100	18100	17000	15700	14300
60 (15.6)	56 (13.3)	19800	18400	17000	15700	14300

Note: *TC =Total Capacity*

4TVD0018C100NA Cooling Capacity Table

Table 4. 4TVD0018C100NA Cooling Capacity Table: 57–67 capacity

Outdoor temp °F (°C)	Indoor temperature: °F (°C) WB													
	57.0 (13.9)		61.0 (16.1)		64.0 (17.8)		67.0 (19.4)		70.0 (21.1)		72.0 (22.2)		75.0 (23.9)	
	TC	SC	TC	SC	TC	SC	TC	SC	TC	SC	TC	SC	TC	SC
	BTU/h	BTU/h	BTU/h	BTU/h	BTU/h	BTU/h	BTU/h	BTU/h	BTU/h	BTU/h	BTU/h	BTU/h	BTU/h	BTU/h
50 (10.0)	12600	12600	10700	14800	12500	17100	13200	18000	13800	18700	13800	20300	14200	21600
54 (12.2)	10400	12600	10700	14800	12500	17100	13200	18000	13800	18700	13800	20300	14200	21600
58 (14.4)	10400	12600	10700	14800	12500	17100	13200	18000	13800	18700	13800	20000	13800	21600
60 (15.6)	10400	12600	10700	14800	12500	17100	13200	18000	13800	18700	13800	20000	13800	21300
64 (17.8)	10400	12600	10700	14800	12500	17100	13200	18000	13800	18700	13800	20000	13800	21300
67 (19.4)	10400	12600	10700	14800	12500	17100	13200	18000	13800	18700	13800	20000	13800	21300
70 (21.1)	10400	12600	10700	14800	12500	17100	13200	18000	13800	18700	13800	20000	13800	21300
73 (22.8)	10400	12600	10700	14800	12500	17100	13200	18000	13800	18700	13800	20000	13800	21300
77 (25.0)	10400	12600	10700	14800	12500	17100	13200	18000	13800	18700	13800	20000	13800	21300
80 (26.7)	10400	12600	10700	14800	12500	17100	13200	18000	13800	18700	13800	20000	13800	21300
84 (28.9)	10400	12600	10700	14800	12500	17100	13200	18000	13800	18700	13800	20000	13800	21300
88 (31.1)	10400	12600	10700	14800	12500	17100	13200	18000	13800	18700	13800	20000	13800	21300
92 (33.3)	10400	12600	10700	14800	12500	17100	13200	18000	13800	18700	13800	20000	13800	21300
95 (35.0)	10400	12600	10700	14800	12500	17100	13200	18000	13800	18700	13800	20000	13800	21300
99 (37.2)	10400	12600	10700	14800	12500	17100	13200	18000	13800	18700	13800	19700	13500	20900
103 (39.4)	10400	12600	10700	14800	12500	17100	13200	18000	13800	18700	13800	19700	13500	20600
107 (41.7)	10400	12600	10700	14800	12500	17000	13100	17800	13700	18500	13700	19300	13300	20100
111 (43.9)	10400	12600	10700	14800	12500	16500	12700	17200	13200	17900	13300	18600	12700	19400
115 (46.1)	10400	12600	10700	14700	12300	16200	12500	16700	12800	17400	12900	18000	12300	18900
118 (47.8)	10300	12400	10600	14500	12200	16000	12300	16200	12500	17100	12600	17400	12000	18200
120 (48.9)	10100	12200	10500	14300	12000	15600	12000	16100	12300	16500	12300	16800	11500	17500

Notes:

1. TC = Total Capacity
2. SC = sensible capacity

VRF-PRC026A-EN

4TVD0018C100NA Heating Capacity Table

Outdoor temp: °F (°C)		Indoor temperature: °F (°C) DB				
		61.0 (16.1)	65.0 (18.3)	70.0 (21.1)	72.0 (22.2)	75.0 (23.9)
DB	WB	TC	TC	TC	TC	TC
		BTU/h	BTU/h	BTU/h	BTU/h	BTU/h
-12.6 (−24.8)	-13 (-25.0)	11900	11900	11900	11900	11900
-7.1 (−21.7)	-7.6 (-22.0)	12300	12300	12300	12300	12300
-3.6 (-19.8)	-4 (-20.0)	12500	12200	12100	11800	11800
-1.8 (-18.8)	-2 (-18.9)	12600	12400	12200	11900	11900
2 (-16.7)	1 (-17.2)	12800	12800	12500	12200	12100
6 (−14.4)	5 (-15.0)	13400	13100	12800	12500	12200
10 (-12.2)	9 (-12.8)	13900	13600	13300	13200	12900
13 (-10.6)	12 (-11.1)	14500	14400	14100	13900	13800
17 (-8.3)	15 (-9.4)	14800	14800	14500	14200	14100
19 (-7.2)	18 (-7.8)	15100	15000	14800	14500	14200
23 (-5.0)	21 (-6.1)	15600	15300	15300	15000	14300
26 (-3.3)	24 (-4.4)	16600	16200	15900	15600	15000
30 (-1.1)	28 (-2.2)	17200	16900	16900	16200	15600
35 (1.7)	32 (0.0)	18100	17800	17500	16900	15900
39 (3.9)	36 (3.2)	18800	18800	18500	17800	16900
44 (6.7)	40 (4.4)	19700	19400	19100	18100	16900
47 (8.3)	43 (6.1)	20700	20400	20000	18500	16900
51 (10.6)	47 (8.3)	21300	20700	20000	18500	16900
54 (12.2)	50 (10.0)	22000	21000	20000	18500	16900
57 (13.9)	53 (11.7)	22600	21300	20000	18500	16900
60 (15.6)	56 (13.3)	23200	21600	20000	18500	16900

Note: *TC =Total Capacity*

4TVD0024C100NA Cooling Capacity Table

Outdoor temp °F (°C)	Indoor temperature (°F, WB)													
	57.0 (13.9)		61.0 (16.1)		64.0 (17.8)		67.0 (19.4)		70.0 (21.1)		72.0 (22.2)		75.0 (23.9)	
	TC BTU/h	SC BTU/h	TC BTU/h	SC BTU/h	TC BTU/h	SC BTU/h	TC BTU/h	SC BTU/h	TC BTU/h	SC BTU/h	TC BTU/h	SC BTU/h	TC BTU/h	SC BTU/h
50 (10.0)	16600	14600	19700	17000	22700	17700	24000	18300	25100	19000	27100	19400	28800	18300
54 (12.2)	16600	14600	19700	17000	22700	17700	24000	18300	25100	19000	26800	19000	28800	18300
58 (14.4)	16600	14600	19700	17000	22700	17700	24000	18300	25100	19000	26800	19000	28800	18300
60 (15.6)	16600	14600	19700	17000	22700	17700	24000	18300	25100	19000	26800	19000	28400	18000
64 (17.8)	16600	14600	19700	17000	22700	17700	24000	18300	25100	19000	26800	19000	28400	18000
67 (19.4)	16600	14600	19700	17000	22700	17700	24000	18300	25100	19000	26800	19000	28400	18000
70 (21.1)	16600	14600	19700	17000	22700	17700	24000	18300	25100	19000	26800	19000	28400	18000
73 (22.8)	16600	14600	19700	17000	22700	17700	24000	18300	25100	19000	26800	19000	28400	18000
77 (25.0)	16600	14600	19700	17000	22700	17700	24000	18300	25100	19000	26800	19000	28400	18000
80 (26.7)	16600	14600	19700	17000	22700	17700	24000	18300	25100	19000	26800	19000	28400	18000
84 (28.9)	16600	14600	19700	17000	22700	17700	24000	18300	25100	19000	26800	19000	28400	18000
88 (31.1)	16600	14600	19700	17000	22700	17700	24000	18300	25100	19000	26800	19000	28400	18000
92 (33.3)	16600	14600	19700	17000	22700	17700	24000	18300	25100	19000	26800	19000	28400	18000
95 (35.0)	16600	14600	19700	17000	22700	17700	24000	18300	25100	19000	26800	19000	28400	18000
99 (37.2)	16600	14600	19700	17000	22700	17700	24000	18300	24700	18700	26400	18700	27800	17700
103 (39.4)	16600	14600	19700	17000	22700	17700	24000	18300	24700	18700	26100	18300	27400	17300
107 (41.7)	16600	14600	19700	17000	22500	17500	23700	18100	24400	18500	25600	18000	26700	16900
111 (43.9)	16600	14600	19700	17000	21900	17100	23000	17500	23700	17900	24600	17300	25800	16300
115 (46.1)	16600	14600	19500	16800	21600	16800	22200	17000	23000	17400	23800	16800	25100	15900
118 (47.8)	16400	14400	19200	16600	21200	16500	21600	16500	22600	17100	23100	16300	24300	15300
120 (48.9)	16200	14200	19000	16400	20700	16100	21400	16300	21900	16500	22200	15600	23300	14700

Notes:

1. *TC = Total Capacity*
2. *SC = sensible capacity*

4TVD0024C100NA Heating Capacity Table

Outdoor temp: °F (°C)		Indoor temperature: °F (°C) DB				
		61.0 (16.1)	65.0 (18.3)	70.0 (21.1)	72.0 (22.2)	75.0 (23.9)
DB	WB	TC	TC	TC	TC	TC
		BTU/h	BTU/h	BTU/h	BTU/h	BTU/h
-12.6 (−24.8)	-13 (-25.0)	14800	14800	14800	14800	14800
-7.1 (−21.7)	-7.6 (-22.0)	16000	16000	16000	16000	16000
-3.6 (-19.8)	-4 (-20.0)	16600	16600	16300	15900	15900
-1.8 (-18.8)	-2 (-18.9)	16900	16700	16400	16000	16000
2 (-16.7)	1 (-17.2)	17400	17000	16700	16300	16200
6 (−14.4)	5 (-15.0)	18000	17700	17400	16700	16400
10 (-12.2)	9 (-12.8)	18700	18400	18100	17700	17300
13 (-10.6)	12 (-11.1)	19700	19400	19000	18700	18600
17 (-8.3)	15 (-9.4)	20100	19800	19500	19100	19100
19 (-7.2)	18 (-7.8)	20500	20100	19800	19500	19300
23 (-5.0)	21 (-6.1)	21000	20600	20300	20000	19600
26 (-3.3)	24 (-4.4)	22000	22000	21600	21000	20300
30 (-1.1)	28 (-2.2)	23300	23000	22700	21600	21000
35 (1.7)	32 (0.0)	24300	24000	23700	22700	21600
39 (3.9)	36 (3.2)	25700	25400	24700	24000	23000
44 (6.7)	40 (4.4)	26700	26400	26000	24300	23000
47 (8.3)	43 (6.1)	27700	27400	27000	25000	23000
51 (10.6)	47 (8.3)	28700	27700	27000	25000	23000
54 (12.2)	50 (10.0)	29400	28400	27000	25000	23000
57 (13.9)	53 (11.7)	30400	28700	27000	25000	23000
60 (15.6)	56 (13.3)	31100	29100	27000	25000	23000

Note: *TC =Total Capacity*

4TVD0027C100NA Cooling Capacity Table

Outdoor temp °F (°C)	Indoor temperature: °F (°C) WB													
	57.0 (13.9)		61.0 (16.1)		64.0 (17.8)		67.0 (19.4)		70.0 (21.1)		72.0 (22.2)		75.0 (23.9)	
	TC	SC	TC	SC	TC	SC	TC	SC	TC	SC	TC	SC	TC	SC
	BTU/h	BTU/h	BTU/h	BTU/h	BTU/h	BTU/h	BTU/h	BTU/h	BTU/h	BTU/h	BTU/h	BTU/h	BTU/h	BTU/h
50 (10.0)	18700	16500	22100	19200	25500	20000	27000	20700	28200	21500	30500	21900	32400	20700
54 (12.2)	18700	16500	22100	19200	25500	20000	27000	20700	28200	21500	30100	21500	32400	20700
58 (14.4)	18700	16500	22100	19200	25500	20000	27000	20700	28200	21500	30100	21500	32400	20700
60 (15.6)	18700	16500	22100	19200	25500	20000	27000	20700	28200	21500	30100	21500	32000	20400
64 (17.8)	18700	16500	22100	19200	25500	20000	27000	20700	28200	21500	30100	21500	32000	20400
67 (19.4)	18700	16500	22100	19200	25500	20000	27000	20700	28200	21500	30100	21500	32000	20400
70 (21.1)	18700	16500	22100	19200	25500	20000	27000	20700	28200	21500	30100	21500	32000	20400
73 (22.8)	18700	16500	22100	19200	25500	20000	27000	20700	28200	21500	30100	21500	32000	20400
77 (25.0)	18700	16500	22100	19200	25500	20000	27000	20700	28200	21500	30100	21500	32000	20400
80 (26.7)	18700	16500	22100	19200	25500	20000	27000	20700	28200	21500	30100	21500	32000	20400
84 (28.9)	18700	16500	22100	19200	25500	20000	27000	20700	28200	21500	30100	21500	32000	20400
88 (31.1)	18700	16500	22100	19200	25500	20000	27000	20700	28200	21500	30100	21500	32000	20400
92 (33.3)	18700	16500	21900	19000	24700	19300	25800	19800	26700	20300	27700	19600	29000	18400
95 (35.0)	18700	16500	22100	19200	25500	20000	27000	20700	28200	21500	30100	21500	32000	20400
99 (37.2)	18700	16500	22100	19200	25500	20000	27000	20700	27800	21100	29700	21100	31200	20000
103 (39.4)	18700	16500	22100	19200	25500	20000	27000	20700	27800	21100	29300	20700	30900	19600
107 (41.7)	18700	16500	22100	19200	25300	19800	26700	20500	27500	20900	28800	20400	30100	19100
111 (43.9)	18700	16500	22100	19200	24700	19300	25800	19800	26700	20300	27700	19600	29000	18400
115 (46.1)	18700	16500	21900	19000	24300	19000	25000	19200	25900	19700	26800	18900	28300	18000
118 (47.8)	18400	16300	21600	18800	23900	18700	24300	18700	25400	19300	26000	18400	27300	17300
120 (48.9)	18200	16100	21300	18600	23300	18200	24100	18500	24600	18700	25000	17700	26200	16700

Notes:

1. TC = Total Capacity
2. SC = sensible capacity

4TVD0027C100NA Heating Capacity Table

Outdoor temp: °F (°C)		Indoor temperature: °F (°C) DB				
		61.0 (16.1)	65.0 (18.3)	70.0 (21.1)	72.0 (22.2)	75.0 (23.9)
DB	WB	TC	TC	TC	TC	TC
		BTU/h	BTU/h	BTU/h	BTU/h	BTU/h
-12.6 (−24.8)	-13 (-25.0)	16300	16300	16300	16300	16300
-7.1 (−21.7)	-7.6 (-22.0)	17500	17500	17500	17500	17500
-3.6 (-19.8)	-4 (-20.0)	18100	18100	17800	17500	17500
-1.8 (-18.8)	-2 (-18.9)	18400	18400	18000	17700	17600
2 (-16.7)	1 (-17.2)	19100	19000	18400	18100	17800
6 (−14.4)	5 (-15.0)	20200	19700	19100	18500	18200
10 (-12.2)	9 (-12.8)	20900	20500	19900	19500	19200
13 (-10.6)	12 (-11.1)	21700	21400	21000	20700	20700
17 (-8.3)	15 (-9.4)	22200	21900	21600	21200	21100
19 (-7.2)	18 (-7.8)	22700	22400	22100	21600	21300
23 (-5.0)	21 (-6.1)	23400	23100	22800	22200	21600
26 (-3.3)	24 (-4.4)	24600	24300	24000	23100	22500
30 (-1.1)	28 (-2.2)	25800	25500	25200	24300	23100
35 (1.7)	32 (0.0)	27000	26700	26400	25200	24000
39 (3.9)	36 (3.2)	28200	27900	27600	26400	25200
44 (6.7)	40 (4.4)	29700	29100	28800	27000	25200
47 (8.3)	43 (6.1)	30900	30300	30000	27600	25200
51 (10.6)	47 (8.3)	31800	30900	30000	27600	25200
54 (12.2)	50 (10.0)	32700	31500	30000	27600	25200
57 (13.9)	53 (11.7)	33600	31800	30000	27600	25200
60 (15.6)	56 (13.3)	34800	32400	30000	27600	25200

Note: *TC =Total Capacity*

4TVD0030C100NA Cooling Capacity Table

Indoor temperature: °F (°C) WB

Outdoor temp °F (°C)	57.0 (13.9) TC BTU/h	57.0 (13.9) SC BTU/h	61.0 (16.1) TC BTU/h	61.0 (16.1) SC BTU/h	64.0 (17.8) TC BTU/h	64.0 (17.8) SC BTU/h	67.0 (19.4) TC BTU/h	67.0 (19.4) SC BTU/h	70.0 (21.1) TC BTU/h	70.0 (21.1) SC BTU/h	72.0 (22.2) TC BTU/h	72.0 (22.2) SC BTU/h	75.0 (23.9) TC BTU/h	75.0 (23.9) SC BTU/h
50 (10.0)	20700	18400	24400	21000	28000	22400	30000	23000	31400	23700	33700	23700	36000	23700
54 (12.2)	20700	18400	24400	21000	28000	22400	30000	23000	31400	23700	33700	23700	36000	23700
58 (14.4)	20700	18400	24400	21000	28000	22400	30000	23000	31000	23400	33400	23400	35700	23000
60 (15.6)	20700	18400	24400	21000	28000	22400	30000	23000	31000	23400	33400	23400	35700	23000
64 (17.8)	20700	18400	24400	21000	28000	22400	30000	23000	31000	23400	33400	23400	35400	22700
67 (19.4)	20700	18400	24400	21000	28000	22400	30000	23000	31000	23400	33400	23400	35400	22700
70 (21.1)	20700	18400	24400	21000	28000	22400	30000	23000	31000	23400	33400	23400	35400	22700
73 (22.8)	20700	18400	24400	21000	28000	22400	30000	23000	31000	23400	33400	23400	35400	22700
77 (25.0)	20700	18400	24400	21000	28000	22400	30000	23000	31000	23400	33400	23400	35400	22700
80 (26.7)	20700	18400	24400	21000	28000	22400	30000	23000	31000	23400	33400	23400	35400	22700
84 (28.9)	20700	18400	24400	21000	28000	22400	30000	23000	31000	23400	33400	23400	35400	22700
88 (31.1)	20700	18400	24400	21000	28000	22400	30000	23000	31000	23400	33400	23400	35400	22700
92 (33.3)	20700	18400	24400	21000	28000	22400	30000	23000	31000	23400	33400	23400	35400	22700
95 (35.0)	20700	18400	24400	21000	28000	22400	30000	23000	31000	23400	33400	23400	35400	22700
99 (37.2)	20700	18400	24400	21000	28000	22400	30000	23000	31000	23400	33000	23000	34700	22400
103 (39.4)	20700	18400	24400	21000	28000	22400	30000	23000	30700	23000	32400	22700	34000	22000
107 (41.7)	20700	18400	24400	21000	27800	22200	29700	22700	30400	22800	31800	22300	33200	21500
111 (43.9)	20700	18400	24400	21000	27100	21600	28700	22000	29500	22100	30600	21400	32000	20800
115 (46.1)	20700	18400	24100	20800	26700	21300	27800	21300	28600	21500	29600	20700	31200	20200
118 (47.8)	20500	18100	23800	20600	26200	20900	27000	20700	28000	21000	28700	20200	30100	19500
120 (48.9)	20100	17900	23500	20300	25600	20400	26800	20500	27200	20400	27600	19400	28900	18700

Notes:

1. *TC = Total Capacity*
2. *SC = sensible capacity*

4TVD0030C100NA Heating Capacity Table

Outdoor temp: °F (°C)		Indoor temperature: °F (°C) DB				
		61.0 (16.1)	65.0 (18.3)	70.0 (21.1)	72.0 (22.2)	75.0 (23.9)
DB	WB	TC	TC	TC	TC	TC
		BTU/h	BTU/h	BTU/h	BTU/h	BTU/h
-12.6 (−24.8)	-13 (-25.0)	18100	18100	18100	18100	18100
-7.1 (−21.7)	-7.6 (-22.0)	19700	19700	19700	19700	19700
-3.6 (-19.8)	-4 (-20.0)	20500	20500	20200	19800	19800
-1.8 (-18.8)	-2 (-18.9)	20900	20900	20400	20000	19900
2 (-16.7)	1 (-17.2)	21700	21600	20900	20500	20200
6 (−14.4)	5 (-15.0)	22900	22300	21600	21000	20600
10 (-12.2)	9 (-12.8)	23600	23200	22600	22100	21800
13 (-10.6)	12 (-11.1)	24600	24300	23800	23500	23400
17 (-8.3)	15 (-9.4)	25200	24800	24500	24100	24000
19 (-7.2)	18 (-7.8)	25700	25400	25000	24500	24200
23 (-5.0)	21 (-6.1)	26600	26200	25900	25200	24500
26 (-3.3)	24 (-4.4)	27900	27600	27200	26200	25500
30 (-1.1)	28 (-2.2)	29300	28900	28600	27600	26200
35 (1.7)	32 (0.0)	30600	30300	30000	28600	27200
39 (3.9)	36 (3.2)	32000	31700	31300	30000	28600
44 (6.7)	40 (4.4)	33700	33000	32700	30600	28600
47 (8.3)	43 (6.1)	35100	34400	34000	31300	28600
51 (10.6)	47 (8.3)	36100	35100	34000	31300	28600
54 (12.2)	50 (10.0)	37100	35700	34000	31300	28600
57 (13.9)	53 (11.7)	38100	36100	34000	31300	28600
60 (15.6)	56 (13.3)	39500	36800	34000	31300	28600

Note: *TC =Total Capacity*

4TVD0036C100NA Cooling Capacity Table

Outdoor temp °F (°C)	Indoor temperature: °F (°C) WB													
	57.0 (13.9)		61.0 (16.1)		64.0 (17.8)		67.0 (19.4)		70.0 (21.1)		72.0 (22.2)		75.0 (23.9)	
	TC	SC	TC	SC	TC	SC	TC	SC	TC	SC	TC	SC	TC	SC
	BTU/h	BTU/h	BTU/h	BTU/h	BTU/h	BTU/h	BTU/h	BTU/h	BTU/h	BTU/h	BTU/h	BTU/h	BTU/h	BTU/h
50 (10.0)	24800	21800	29300	24700	33800	26300	36000	27500	37300	28200	40200	28500	43100	27500
54 (12.2)	24800	21800	29300	24700	33800	26300	36000	27500	37300	28200	40200	28500	43100	27500
58 (14.4)	24800	21800	29300	24700	33800	26300	36000	27500	37300	28200	40200	28500	43100	27500
60 (15.6)	24800	21800	29300	24700	33800	26300	36000	27500	37300	28200	40200	28500	42800	27200
64 (17.8)	24800	21800	29300	24700	33800	26300	36000	27500	37300	28200	40200	28500	42800	27200
67 (19.4)	24800	21800	29300	24700	33800	26300	36000	27500	37300	28200	39900	28200	42500	27200
70 (21.1)	24800	21800	29300	24700	33800	26300	36000	27500	37300	28200	39900	28200	42500	27200
73 (22.8)	24800	21800	29300	24700	33800	26300	36000	27500	37300	28200	39900	28200	42500	27200
77 (25.0)	24800	21800	29300	24700	33800	26300	36000	27500	37300	28200	39900	28200	42500	27200
80 (26.7)	24800	21800	29300	24700	33800	26300	36000	27500	37300	28200	39900	28200	42500	27200
84 (28.9)	24800	21800	29300	24700	33800	26300	36000	27500	37300	28200	39900	28200	42500	27200
88 (31.1)	24800	21800	29300	24700	33800	26300	36000	27500	37300	28200	39900	28200	42500	27200
92 (33.3)	24800	21800	29300	24700	33800	26300	36000	27500	37300	28200	39900	28200	42500	27200
95 (35.0)	24800	21800	29300	24700	33800	26300	36000	27500	37300	28200	39900	27900	42500	27200
99 (37.2)	24800	21800	29300	24700	33800	26300	36000	27500	37300	28200	39900	28500	42500	27200
103 (39.4)	24800	21800	29300	24700	33800	26300	36000	27500	37300	28200	39600	28200	41800	26900
107 (41.7)	24800	21800	29300	24700	33600	26100	35600	27200	36900	27900	38900	27700	40800	26200
111 (43.9)	24800	21800	29300	24700	32700	25400	34400	26300	35800	27100	37400	26600	39400	25300
115 (46.1)	24800	21800	29000	24400	32100	25000	33300	25500	34800	26300	36100	25700	38300	24700
118 (47.8)	24500	21500	28600	24100	31600	24500	32400	24800	34100	25700	35100	25000	37000	23800
120 (48.9)	24100	21200	28300	23800	30900	24000	32100	24500	33000	24900	33700	24000	35600	22900

Notes:

1. *TC = Total Capacity*
2. *SC = sensible capacity*

4TVD0036C100NA Heating Capacity Table

Outdoor temp: °F (°C)		Indoor temperature: °F (°C) DB				
		61.0 (16.1)	65.0 (18.3)	70.0 (21.1)	72.0 (22.2)	75.0 (23.9)
DB	WB	TC	TC	TC	TC	TC
		BTU/h	BTU/h	BTU/h	BTU/h	BTU/h
-12.6 (−24.8)	-13 (-25.0)	20300	20300	20300	20300	20300
-7.1 (−21.7)	-7.6 (-22.0)	22700	22700	22700	22700	22700
-3.6 (-19.8)	-4 (-20.0)	23900	23800	23500	23500	23400
-1.8 (-18.8)	-2 (-18.9)	24500	24200	23800	23700	23500
2 (-16.7)	1 (-17.2)	25800	25200	24500	24100	23800
6 (−14.4)	5 (-15.0)	27100	26100	25500	24800	24200
10 (-12.2)	9 (-12.8)	28000	27200	26600	26000	25600
13 (-10.6)	12 (-11.1)	29200	28500	28100	27700	27400
17 (-8.3)	15 (-9.4)	29800	29200	28800	28400	28000
19 (-7.2)	18 (-7.8)	30300	29800	29300	28800	28400
23 (-5.0)	21 (-6.1)	31100	30800	30100	29500	28800
26 (-3.3)	24 (-4.4)	32700	32400	31700	30800	29800
30 (-1.1)	28 (-2.2)	34300	34000	33600	32400	31100
35 (1.7)	32 (0.0)	36200	35600	35600	33600	32000
39 (3.9)	36 (3.2)	37800	37200	36800	35200	34000
44 (6.7)	40 (4.4)	39400	39100	38400	36200	34000
47 (8.3)	43 (6.1)	41300	40700	40000	36800	34000
51 (10.6)	47 (8.3)	42600	41300	40000	36800	34000
54 (12.2)	50 (10.0)	43900	42000	40000	36800	34000
57 (13.9)	53 (11.7)	44800	42600	40000	36800	34000
60 (15.6)	56 (13.3)	46100	43200	40000	36800	34000

Note: *TC =Total Capacity*

4TVD0048C100NA Cooling Capacity Table

Outdoor temp °F (°C)	Indoor temperature: °F (°C) WB													
	57.0 (13.9)		61.0 (16.1)		64.0 (17.8)		67.0 (19.4)		70.0 (21.1)		72.0 (22.2)		75.0 (23.9)	
	TC BTU/h	SC BTU/h	TC BTU/h	SC BTU/h	TC BTU/h	SC BTU/h	TC BTU/h	SC BTU/h	TC BTU/h	SC BTU/h	TC BTU/h	SC BTU/h	TC BTU/h	SC BTU/h
50 (10.0)	33300	29200	39100	33000	45000	35700	48000	36700	50100	37100	53900	37400	57600	37100
54 (12.2)	33300	29200	39100	33000	45000	35700	48000	36700	49800	36700	53500	37100	57300	36700
58 (14.4)	33300	29200	39100	33000	45000	35700	48000	36700	49800	36700	53500	37100	57300	36700
60 (15.6)	33300	29200	39100	33000	45000	35700	48000	36700	49800	36700	53500	37100	57000	36400
64 (17.8)	33300	29200	39100	33000	45000	35700	48000	36700	49800	36700	53200	36700	57000	36400
67 (19.4)	33300	29200	39100	33000	45000	35700	48000	36700	49800	36700	53200	36700	56600	36100
70 (21.1)	33300	29200	39100	33000	45000	35700	48000	36700	49800	36700	53200	36700	56600	36100
73 (22.8)	33300	29200	39100	33000	45000	35700	48000	36700	49800	36700	53200	36700	56600	36100
77 (25.0)	33300	29200	39100	33000	45000	35700	48000	36700	49800	36700	53200	36700	56600	36100
80 (26.7)	33300	29200	39100	33000	45000	35700	48000	36700	49800	36700	53200	36700	56600	36100
84 (28.9)	33300	29200	39100	33000	45000	35700	48000	36700	49800	36700	53200	36700	56600	36100
88 (31.1)	33300	29200	39100	33000	45000	35700	48000	36700	49800	36700	53200	36700	56600	36100
92 (33.3)	33300	29200	39100	33000	45000	35700	48000	36700	49800	36700	53200	36700	56600	36100
95 (35.0)	33300	29200	39100	33000	45000	35700	48000	36700	49800	36700	53200	36700	56600	36100
99 (37.2)	33300	29200	39100	33000	45000	35700	48000	36700	49800	36700	52800	36400	55900	35700
103 (39.4)	33300	29200	39100	33000	45000	35700	48000	36700	49400	36400	51800	35700	54600	35000
107 (41.7)	33300	29200	39100	33000	44600	35500	47400	36000	48800	36000	50900	35100	53200	34200
111 (43.9)	33300	29200	39100	33000	43400	34500	45900	35100	47400	35000	48900	33700	51400	33000
115 (46.1)	33300	29200	38700	32700	42700	33900	44400	34000	46100	33900	47300	32600	50000	32100
118 (47.8)	32900	28800	38300	32200	42000	33400	43200	33100	45100	33200	46000	31700	48200	31000
120 (48.9)	32400	28400	37800	31800	41100	32600	42800	32700	43700	32200	44200	30400	46400	29800

Notes:

1. *TC = Total Capacity*
2. *SC = sensible capacity*

4TVD0048C100NA Heating Capacity Table

Outdoor temp: °F (°C)		Indoor temperature: °F (°C) DB				
		61.0 (16.1)	65.0 (18.3)	70.0 (21.1)	72.0 (22.2)	75.0 (23.9)
DB	WB	TC	TC	TC	TC	TC
		BTU/h	BTU/h	BTU/h	BTU/h	BTU/h
-12.6 (−24.8)	-13 (-25.0)	28000	28000	28000	28000	28000
-7.1 (−21.7)	-7.6 (-22.0)	28000	28000	28000	28000	28000
-3.6 (-19.8)	-4 (-20.0)	32200	32200	31800	31800	31500
-1.8 (-18.8)	-2 (-18.9)	32900	32700	32000	32000	31600
2 (-16.7)	1 (-17.2)	34400	33700	32700	32600	31800
6 (−14.4)	5 (-15.0)	36300	35400	34400	33400	32400
10 (-12.2)	9 (-12.8)	37500	36800	36000	35300	34300
13 (-10.6)	12 (-11.1)	39100	38700	38000	37600	36800
17 (-8.3)	15 (-9.4)	39900	39500	38900	38500	37700
19 (-7.2)	18 (-7.8)	40700	40200	39700	39000	38200
23 (-5.0)	21 (-6.1)	41900	41200	40900	39900	38900
26 (-3.3)	24 (-4.4)	44300	43600	42900	41600	40500
30 (-1.1)	28 (-2.2)	46600	45900	45300	43600	41900
35 (1.7)	32 (0.0)	48600	48000	47300	45300	43200
39 (3.9)	36 (3.2)	51000	50300	49700	47600	45600
44 (6.7)	40 (4.4)	53400	52700	51700	48600	45600
47 (8.3)	43 (6.1)	55700	54700	54000	50000	45600
51 (10.6)	47 (8.3)	57400	55700	54000	50000	45600
54 (12.2)	50 (10.0)	59100	56400	54000	50000	45600
57 (13.9)	53 (11.7)	60800	57400	54000	50000	45600
60 (15.6)	56 (13.3)	62500	58100	54000	50000	45600

Note: *TC =Total Capacity*

Electrical Wiring Diagram

4TVD0007C100NA, 4TVD0009C100NA, 4TVD0012C100NA, 4TVD0015C100NA, and 4TVD0018C100NA
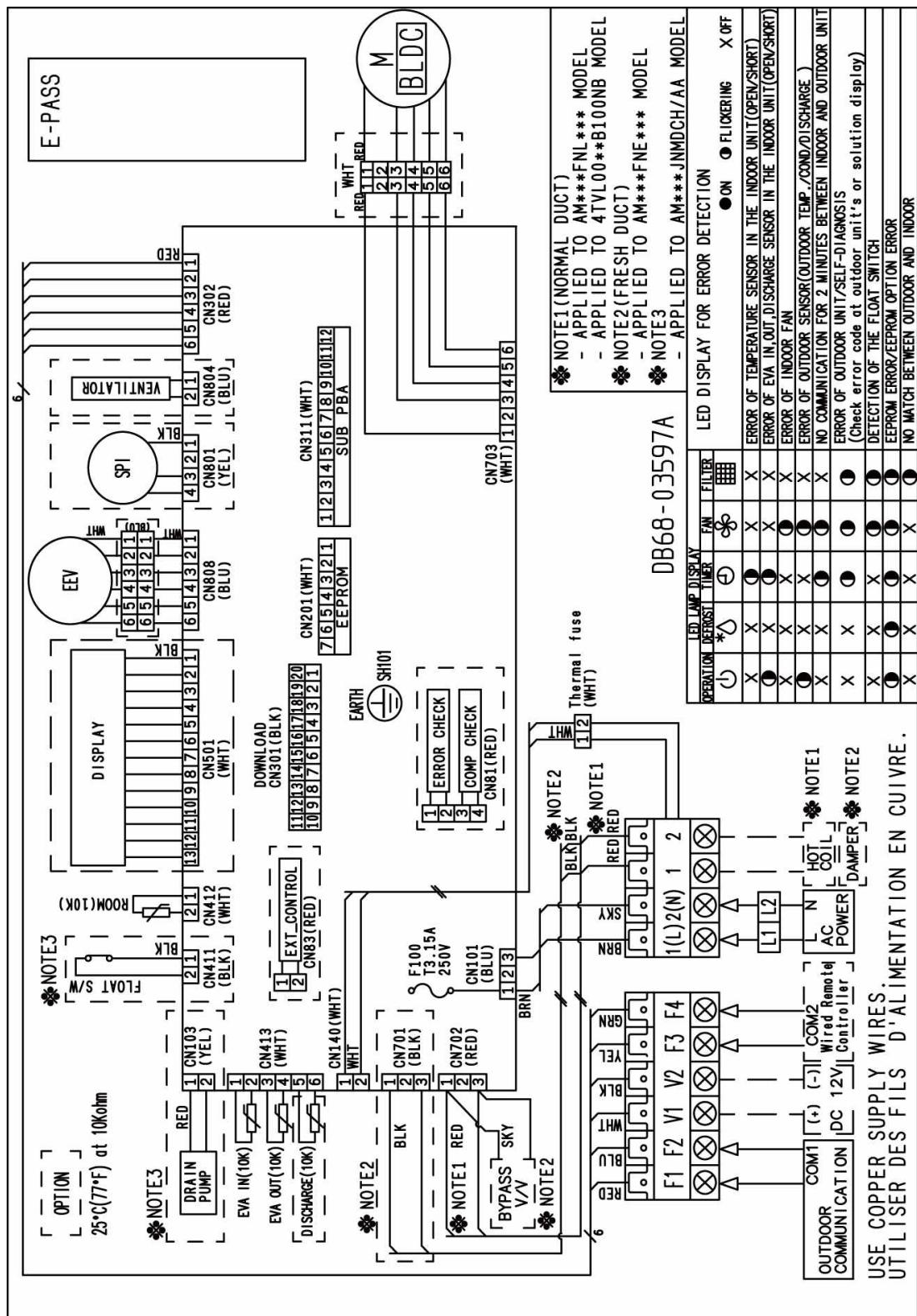
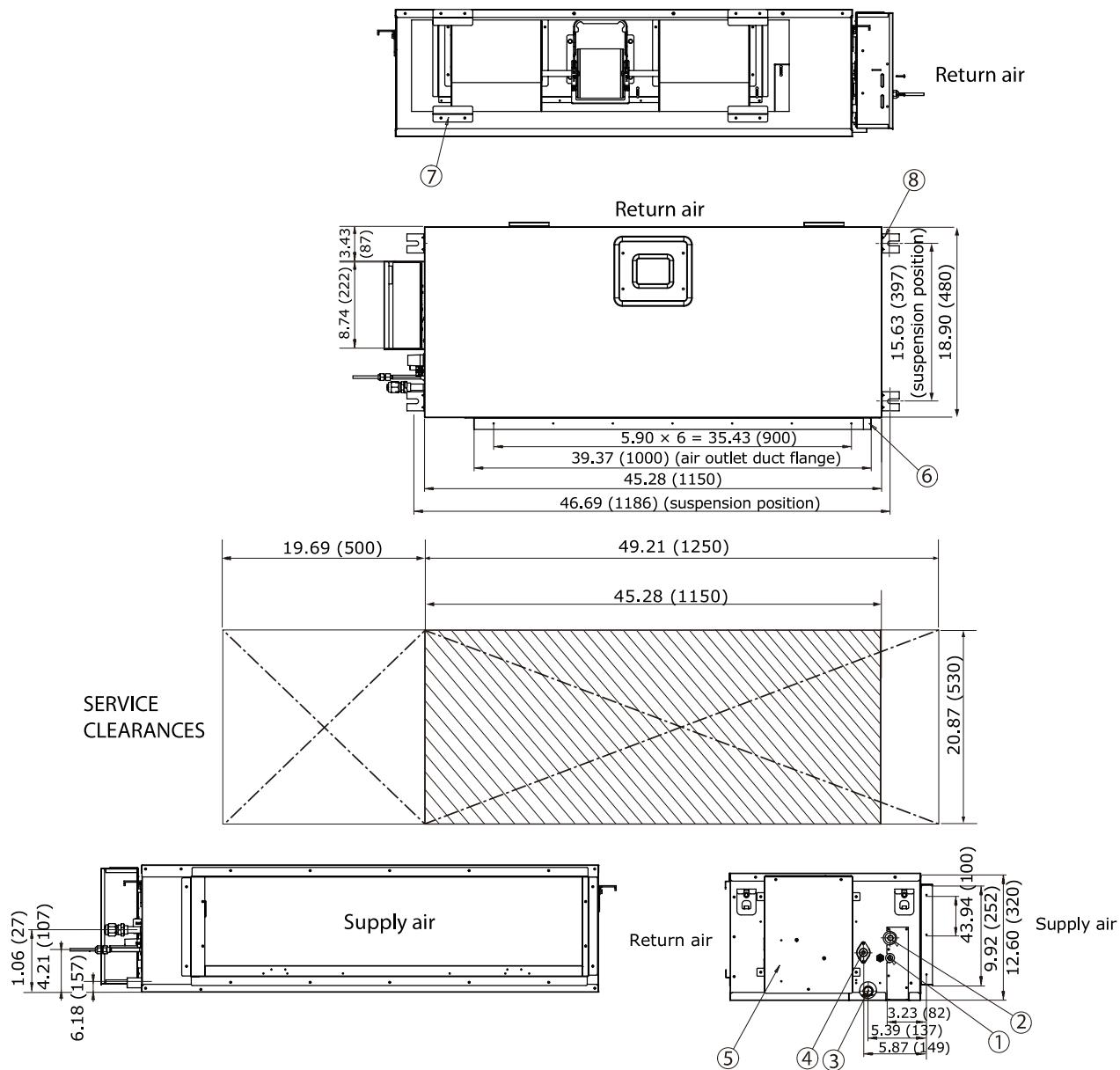## 4TVD0024C100NA, 4TVD0027C100NA, 4TVD0030C100NA, 4TVD0036C100NA, and 4TVD0048C100NA
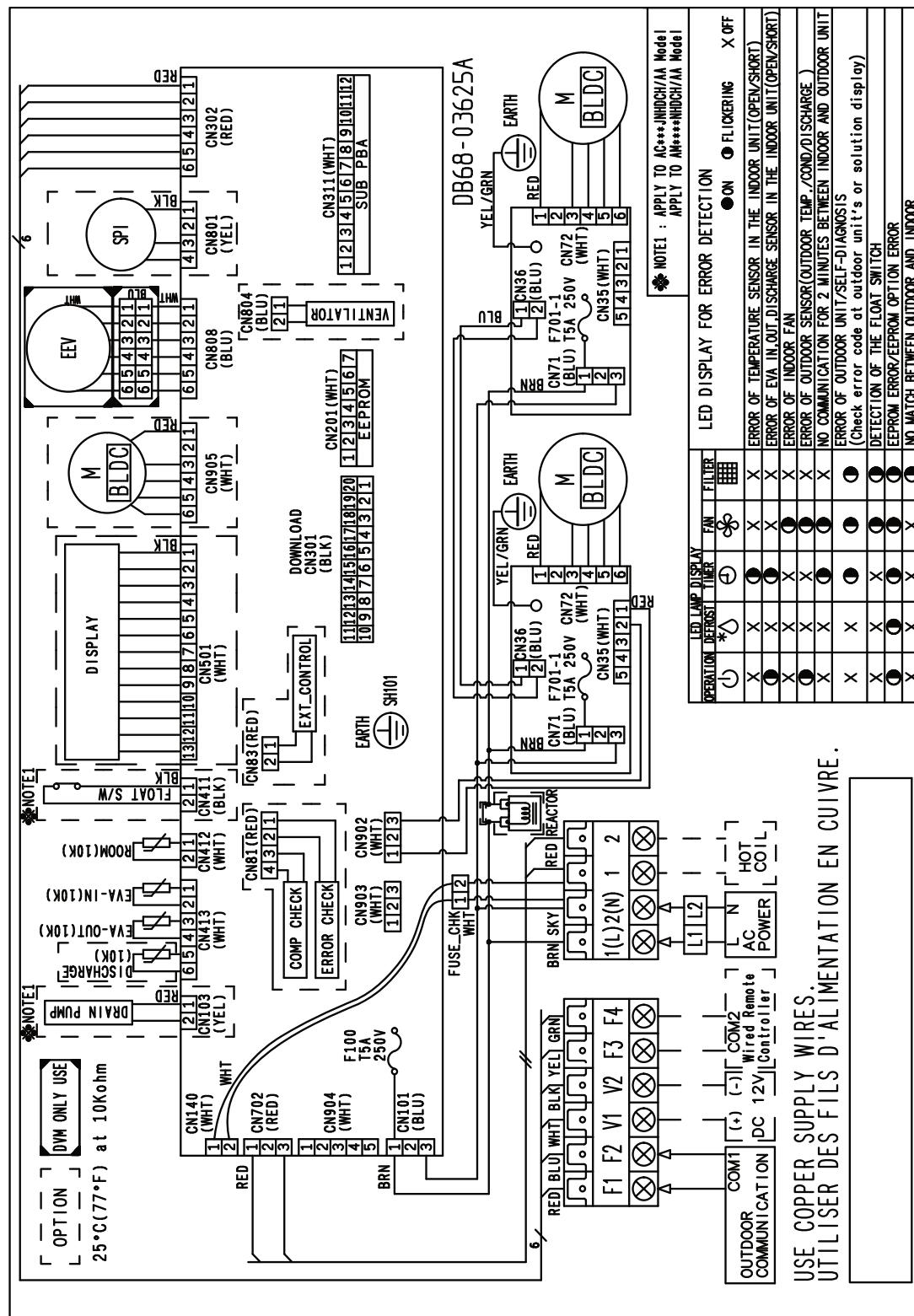
Sound Pressure Level
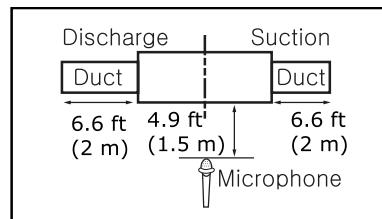
Model	High	Low
	dBA	
4TVD0007C100NA	36.0	26.0
4TVD0009C100NA	38.0	26.0
4TVD0012C100NA	39.0	30.0
4TVD0015C100NA	41.0	32.0
4TVD0018C100NA	42.0	35.0
4TVD0024C100NA	36.0	30.0
4TVD0027C100NA	38.0	30.0
4TVD0030C100NA	39.0	31.0
4TVD0036C100NA	41.0	35.0
4TVD0048C100NA	42.0	36.0

Notes:

- *These operation values were obtained in an anechoic room. Sound pressure level will vary depending on a range of factors such as the construction of the particular room where the equipment is installed.*
- *Operation sound level may differ depending on operation and ambient conditions.*

NC Curve

4TVD0007C100NA
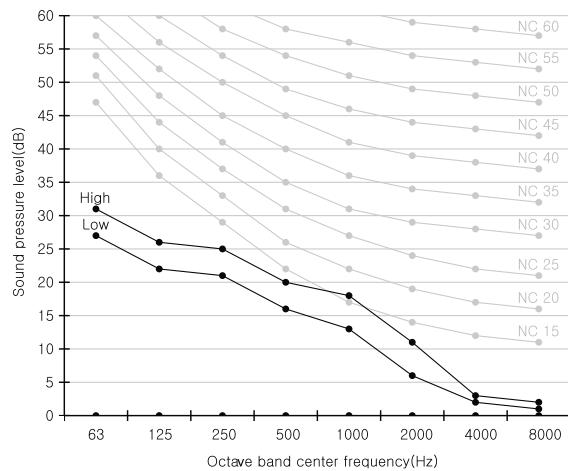
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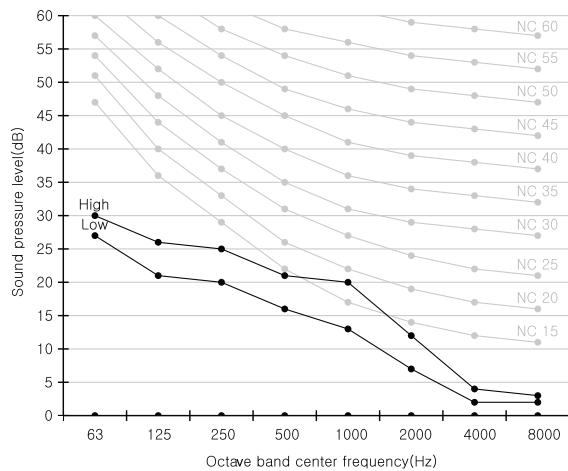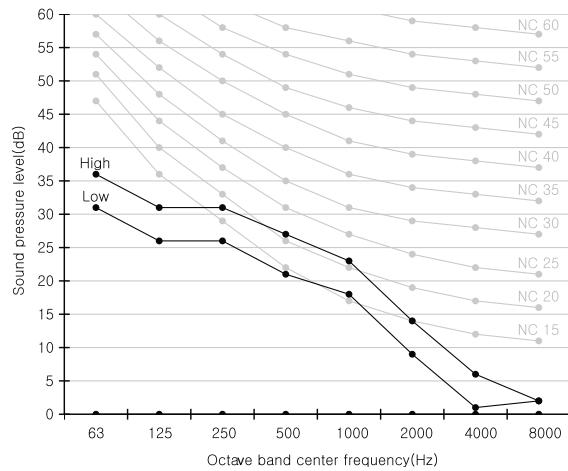
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4TVD0015C100NA

4TVD0018C100NA

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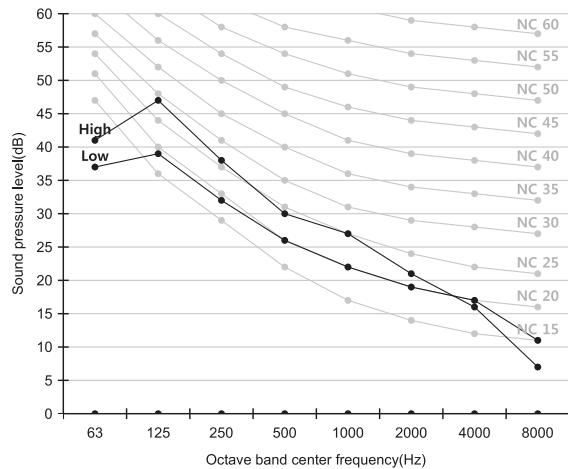
4TVD0027C100NA

4TVD0030C100NA

4TVD0036C100NA

4TVD0048C100NA

Unit Dimensions

4TVD0007C100NA, 4TVD0009C100NA, 4TVD0012C100NA, 4TVD0015C100NA and 4TVD0018C100NA (built-in drain pump)

Unit: Inch (mm)

4TVD0024C100NA, 4TVD0027C100NA, 4TVD0030C100NA, 4TVD0036C100NA and 4TVD0048C100NA (built-in drain pump)

Unit: Inch (mm)
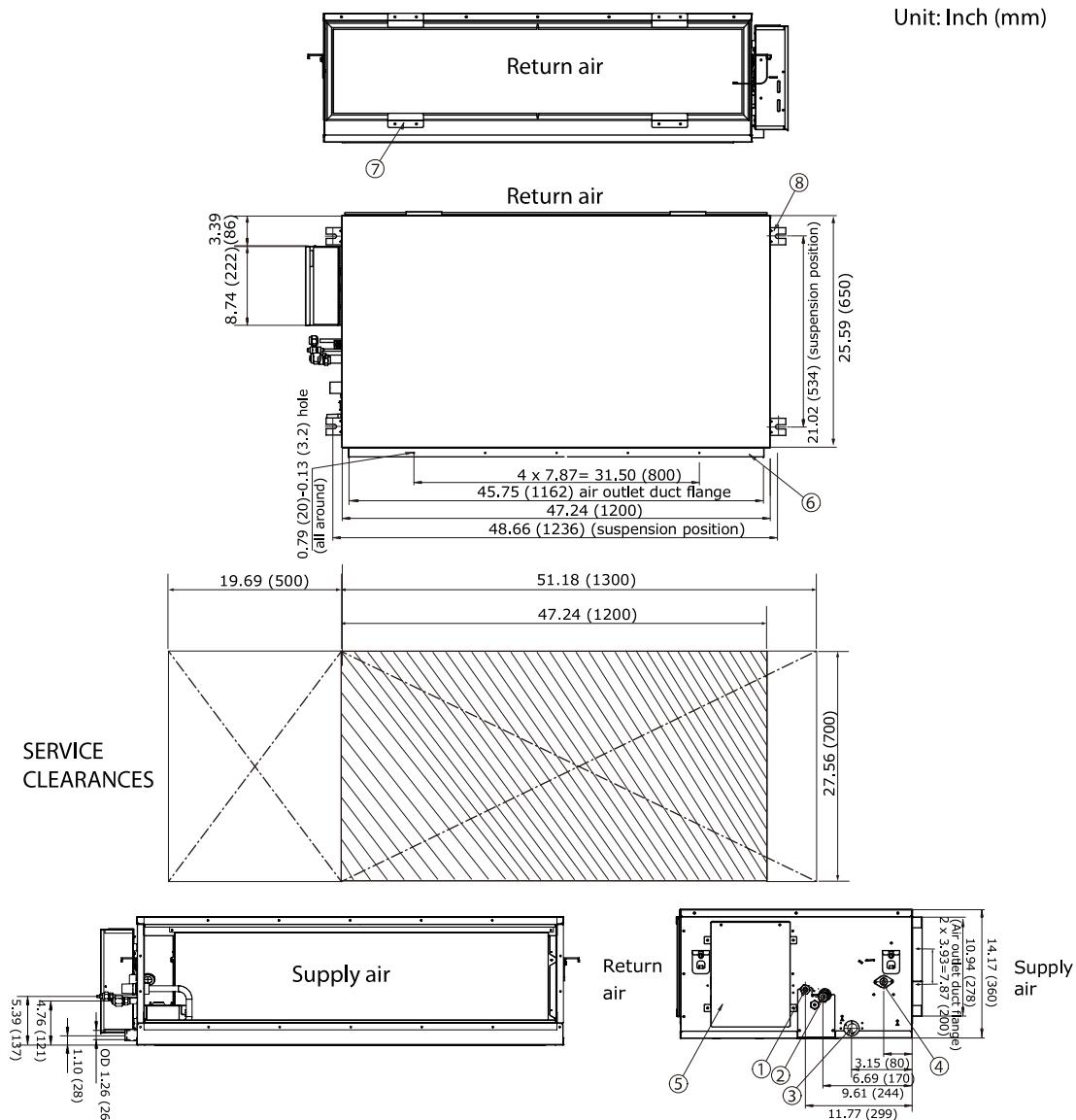
No.	Name	Description
1	Liquid pipe connection	3/8 (9.52)
2	Gas pipe connection	5/8 (15.88)
3	Drain pipe connection (without drain pump)	OD 1 (25), ID 0.78 (20)
4	Drain pipe connection (with drain pump)	OD 1 (25), ID 0.78 (20)
5	Power supply/communications connection	—
6	Air discharge grill flange	—
7	Air filter	—
8	Mounting hooks	3/8 (9.52) or M10

Airflow Diagrams

How to Interpret P-Q Tables and Graphs

The following figure shows an example of how to interpret the P-Q curve tables and graphs. Each box represents a static pressure range setpoint and shows its specific fan curve. Point 3 represents the highest available static pressure for each specific setting. When the fan is set to Auto, the fan tracks from right to left within the box.

Low				High			
Point 1 (top left)		Point 2 (bottom left)		Point 3 (top right)		Point 4 (bottom right)	
in·Aq	CFM	in·Aq	CFM	in·Aq	CFM	in·Aq	CFM
0.42	530	0.34	600	0.59	812	0.49	890
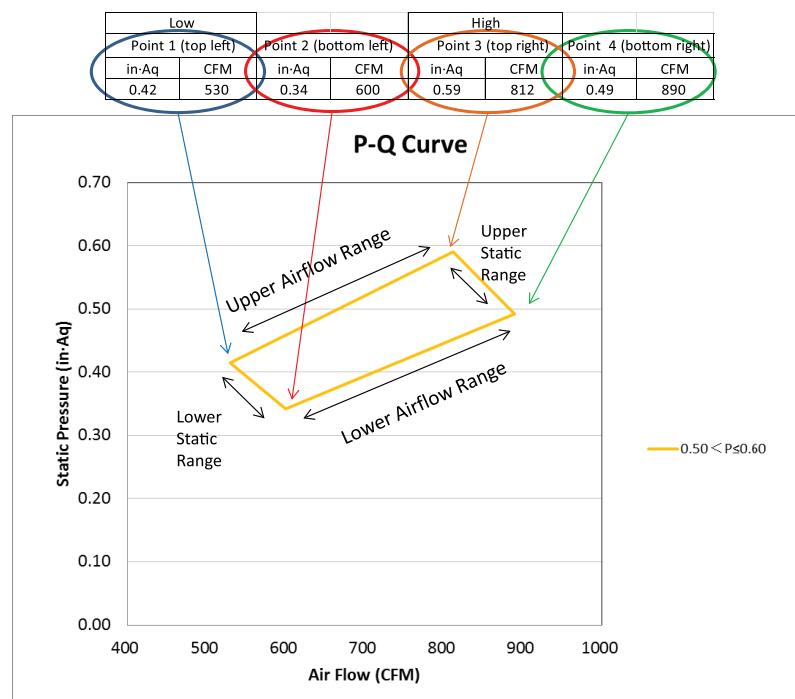
4TVD0007C100NA

External Static pressure (in·Aq)		Point 1		Point 2		Point 3		Point 4	
		inAq	CFM	inAq	CFM	inAq	CFM	inAq	CFM
0≤ SP ≤0.04(Default) (in·Aq)	Part 1	0.03	212	0.00	360	0.04	265	0.00	434
0.04< SP ≤0.12 (in·Aq)	Part 2	0.06	212	0.03	328	0.12	265	0.04	434
0.12< SP ≤0.20 (in·Aq)	Part 3	0.10	212	0.06	332	0.20	265	0.12	434
0.20< SP ≤0.30 (in·Aq)	Part 4	0.15	212	0.10	328	0.30	265	0.20	434
0.30< SP ≤0.40 (in·Aq)	Part 5	0.20	212	0.15	336	0.39	265	0.30	434
0.40< SP ≤0.50 (in·Aq)	Part 6	0.24	212	0.20	332	0.49	265	0.39	434
0.50< SP ≤0.60 (in·Aq)	Part 7	0.30	212	0.24	336	0.59	265	0.49	434
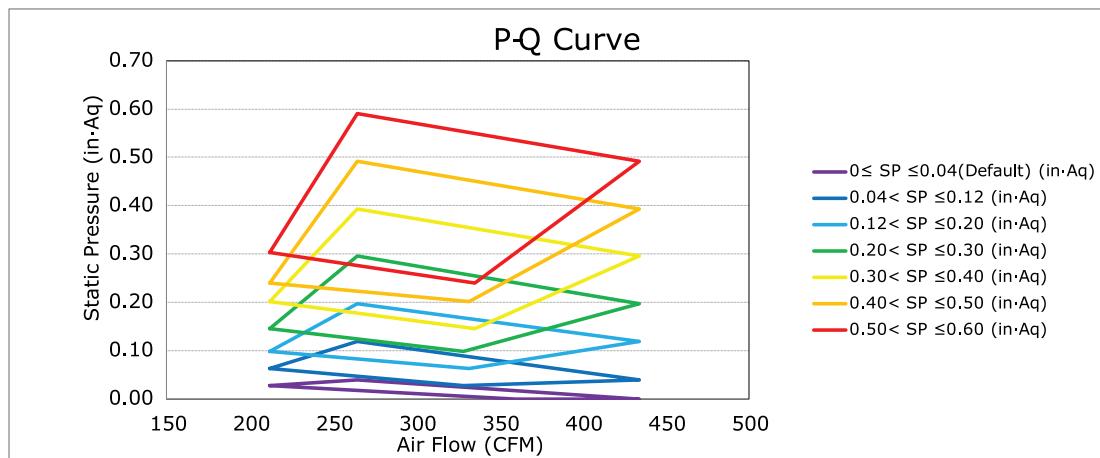
4TVD0009C100NA

External Static pressure (in·Aq)		Point 1		Point 2		Point 3		Point 4	
		in·Aq	CFM	in·Aq	CFM	in·Aq	CFM	in·Aq	CFM
0≤ SP ≤0.04(Default) (in·Aq)	Part 1	0.03	247	0.00	381	0.04	318	0.00	441
0.04< SP ≤0.12 (in·Aq)	Part 2	0.07	247	0.03	374	0.12	318	0.04	441
0.12< SP ≤0.20 (in·Aq)	Part 3	0.12	247	0.07	367	0.20	318	0.12	441
0.20< SP ≤0.30 (in·Aq)	Part 4	0.19	247	0.12	374	0.30	318	0.20	441
0.30< SP ≤0.40 (in·Aq)	Part 5	0.24	247	0.19	364	0.39	318	0.30	441
0.40< SP ≤0.50 (in·Aq)	Part 6	0.30	247	0.24	364	0.49	318	0.39	441
0.50< SP ≤0.60 (in·Aq)	Part 7	0.37	247	0.30	353	0.59	318	0.49	441

P-Q Curve
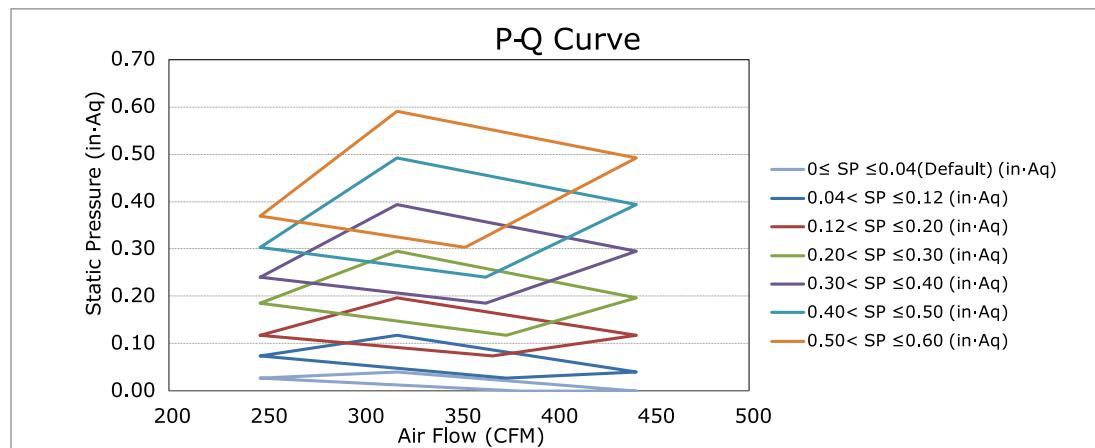
4TVD0012C100NA

External Static pressure (in·Aq)		Point 1		Point 2		Point 3		Point 4	
		in·Aq	CFM	in·Aq	CFM	in·Aq	CFM	in·Aq	CFM
0≤ SP ≤0.04(Default) (in·Aq)	Part 1	0.03	247	0.00	353	0.04	353	0.00	494
0.04< SP ≤0.12 (in·Aq)	Part 2	0.06	247	0.03	353	0.12	353	0.04	494
0.12< SP ≤0.20 (in·Aq)	Part 3	0.10	247	0.06	346	0.20	353	0.12	494
0.20< SP ≤0.30 (in·Aq)	Part 4	0.15	247	0.10	350	0.30	353	0.20	494
0.30< SP ≤0.40 (in·Aq)	Part 5	0.20	247	0.15	357	0.39	353	0.30	494
0.40< SP ≤0.50 (in·Aq)	Part 6	0.24	247	0.20	353	0.49	353	0.39	494
0.50< SP ≤0.60 (in·Aq)	Part 7	0.30	247	0.24	353	0.59	353	0.49	494

P-Q Curve
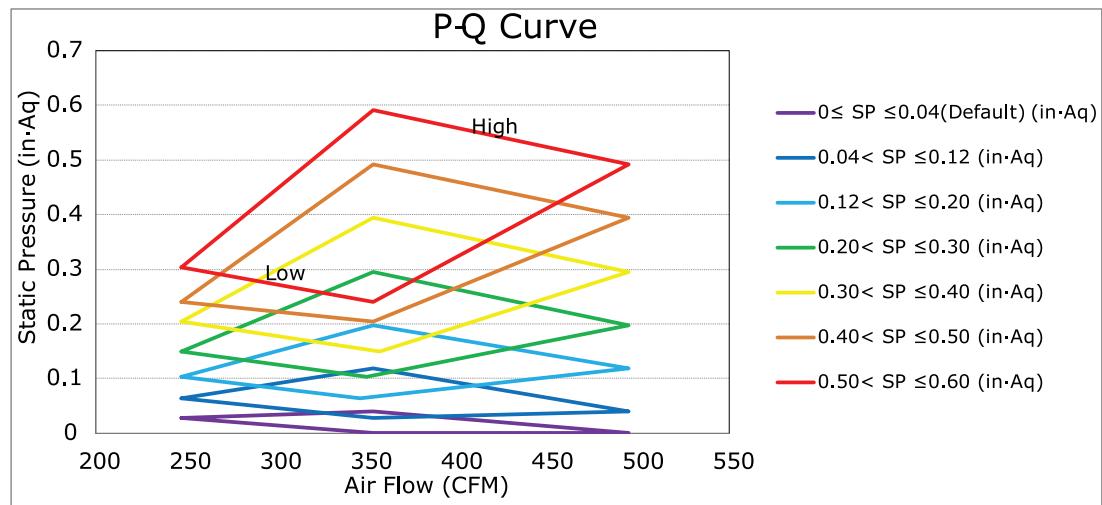
4TVD0015C100NA

External Static pressure (in·Aq)		Point 1		Point 2		Point 3		Point 4	
		in·Aq	CFM	in·Aq	CFM	in·Aq	CFM	in·Aq	CFM
0≤ SP ≤0.04(Default) (in·Aq)	Part 1	0.02	318	0.00	399	0.04	424	0.00	530
0.04< SP ≤0.12 (in·Aq)	Part 2	0.07	318	0.02	403	0.12	424	0.04	530
0.12< SP ≤0.20 (in·Aq)	Part 3	0.12	318	0.07	403	0.20	424	0.12	530
0.20< SP ≤0.30 (in·Aq)	Part 4	0.18	318	0.12	399	0.30	424	0.20	530
0.30< SP ≤0.40 (in·Aq)	Part 5	0.22	318	0.18	406	0.39	424	0.30	530
0.40< SP ≤0.50 (in·Aq)	Part 6	0.28	318	0.22	406	0.49	424	0.39	530
0.50< SP ≤0.60 (in·Aq)	Part 7	0.35	318	0.28	410	0.59	424	0.49	530

P-Q Curve

Legend:
- 0≤ SP ≤0.04(Default) (in·Aq)
- 0.04< SP ≤0.12 (in·Aq)
- 0.12< SP ≤0.20 (in·Aq)
- 0.20< SP ≤0.30 (in·Aq)
- 0.30< SP ≤0.40 (in·Aq)
- 0.40< SP ≤0.50 (in·Aq)
- 0.50< SP ≤0.60 (in·Aq)
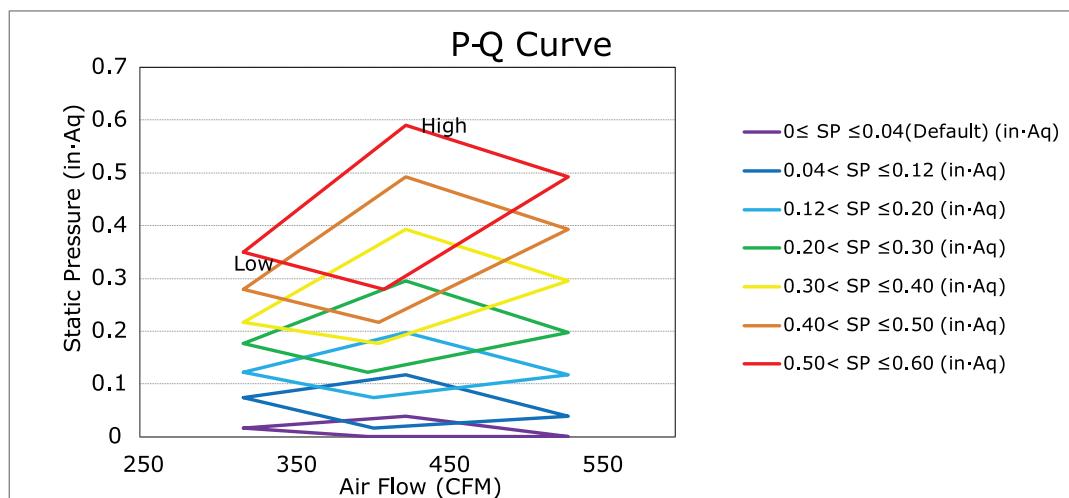
4TVD0018C100NA

External Static pressure (in·Aq)		Point 1		Point 2		Point 3		Point 4	
		in·Aq	CFM	in·Aq	CFM	in·Aq	CFM	in·Aq	CFM
0≤ SP ≤0.04(Default) (in·Aq)	Part 1	0.02	406	0.00	456	0.04	512	0.00	593
0.04< SP ≤0.12 (in·Aq)	Part 2	0.07	406	0.02	498	0.12	512	0.04	593
0.12< SP ≤0.20 (in·Aq)	Part 3	0.13	406	0.07	494	0.20	512	0.12	593
0.20< SP ≤0.30 (in·Aq)	Part 4	0.20	406	0.13	477	0.30	512	0.20	593
0.30< SP ≤0.40 (in·Aq)	Part 5	0.26	406	0.20	484	0.39	512	0.30	593
0.40< SP ≤0.50 (in·Aq)	Part 6	0.32	406	0.26	473	0.49	512	0.39	593
0.50< SP ≤0.60 (in·Aq)	Part 7	0.39	406	0.32	484	0.59	512	0.49	593

P-Q Curve
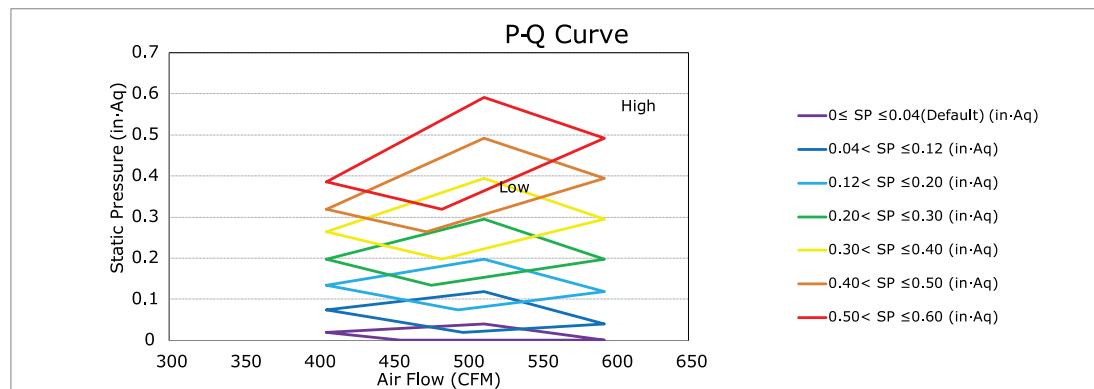
4TVD0024C100NA

External Static pressure (in·Aq)		Point 1		Point 2		Point 3		Point 4	
		in·Aq	CFM	in·Aq	CFM	in·Aq	CFM	in·Aq	CFM
0.12≤ SP ≤0.20 (Default)	Part 1	0.13	547	0.08	742	0.12	848	0.20	653
0.20< SP ≤0.30	Part 2	0.21	547	0.13	742	0.20	848	0.30	653
0.30< SP ≤0.40	Part 3	0.30	547	0.21	742	0.30	848	0.39	653
0.40< SP ≤0.50	Part 4	0.34	547	0.28	742	0.39	848	0.49	653
0.50< SP ≤0.60	Part 5	0.41	547	0.34	742	0.49	848	0.59	653
0.60< SP ≤0.70	Part 6	0.50	547	0.41	742	0.59	848	0.69	653
0.70< SP ≤0.80	Part 7	0.56	547	0.47	742	0.69	848	0.79	653

P-Q Curve
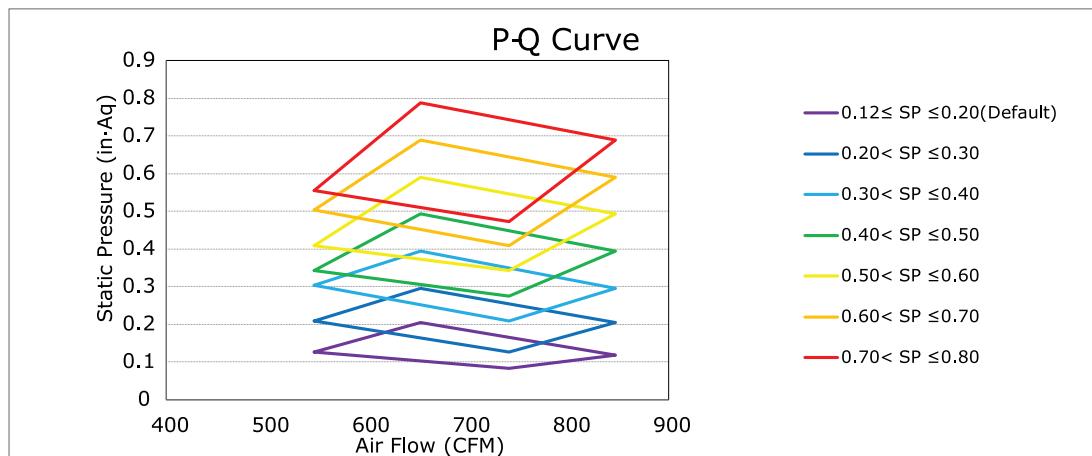
4TVD0027C100NA

External Static pressure (in·Aq)		Point 1		Point 2		Point 3		Point 4	
		in·Aq	CFM	in·Aq	CFM	in·Aq	CFM	in·Aq	CFM
0.12≤ SP ≤0.20(Default)	part 1	0.14	636	0.09	848	0.20	742	0.12	936
0.20< SP ≤0.30	part 2	0.23	636	0.14	848	0.30	742	0.20	936
0.30< SP ≤0.40	part 3	0.30	636	0.23	848	0.39	742	0.30	936
0.40< SP ≤0.50	part 4	0.38	636	0.30	848	0.49	742	0.39	936
0.50< SP ≤0.60	part 5	0.44	636	0.38	848	0.59	742	0.49	946
0.60< SP ≤0.70	part 6	0.52	636	0.44	805	0.69	742	0.59	929
0.70< SP ≤0.80	part 7	0.59	636	0.52	780	0.79	742	0.69	929

P-Q Curve
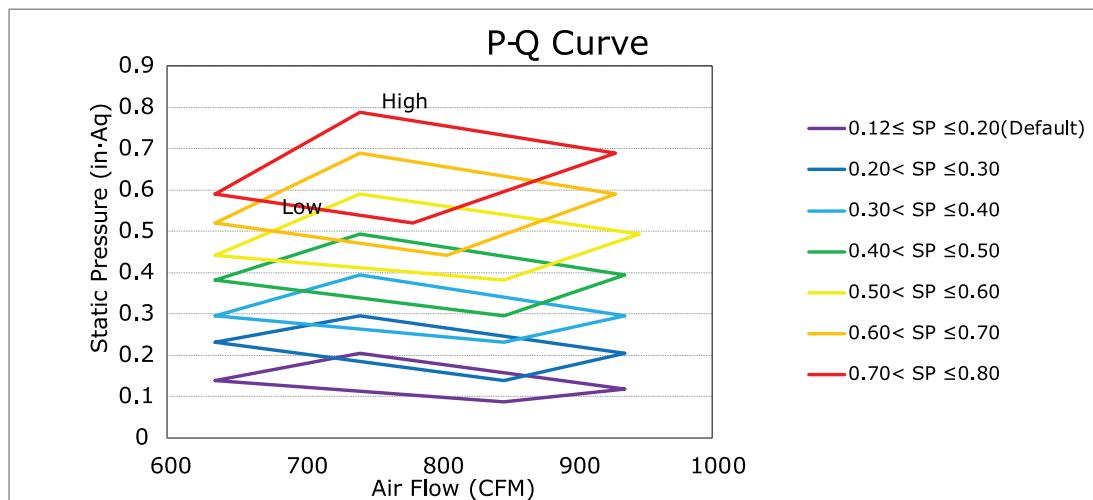
4TVD0030C100NA

External Static pressure (in·Aq)		Point 1		Point 2		Point 3		Point 4	
		in·Aq	CFM	in·Aq	CFM	in·Aq	CFM	in·Aq	CFM
0.12≤ SP ≤0.20(Default)	Part 1	0.15	706	0.10	904	0.20	883	0.12	1112
0.20< SP ≤0.30	Part 2	0.19	706	0.15	918	0.30	883	0.20	1141
0.30< SP ≤0.40	Part 3	0.25	706	0.19	936	0.39	883	0.30	1130
0.40< SP ≤0.50	Part 4	0.31	706	0.25	890	0.49	883	0.39	1130
0.50< SP ≤0.60	Part 5	0.38	706	0.31	908	0.59	883	0.49	1102
0.60< SP ≤0.70	Part 6	0.46	706	0.38	897	0.69	883	0.59	1088
0.70< SP ≤0.80	Part 7	0.52	706	0.46	841	0.79	883	0.69	1031
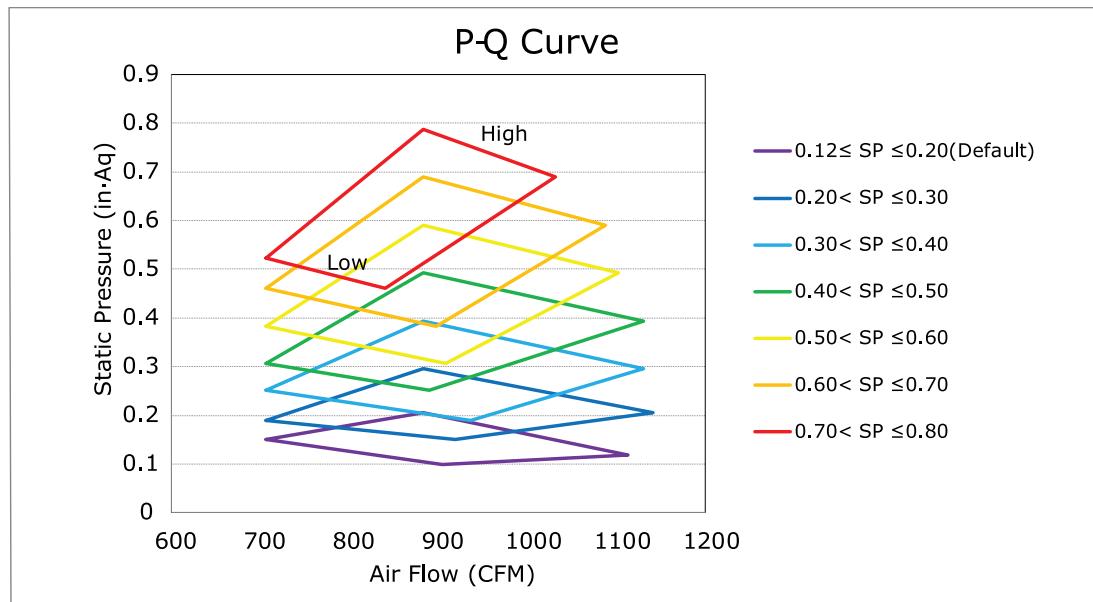
4TVD0036C100NA

External Static pressure (in·Aq)		Point 1		Point 2		Point 3		Point 4	
		in·Aq	CFM	in·Aq	CFM	in·Aq	CFM	in·Aq	CFM
0.12≤ SP ≤0.20(Default)	Part 1	0.11	812	0.08	989	0.20	954	0.12	1123
0.20< SP ≤0.30	Part 2	0.22	812	0.14	1063	0.30	954	0.20	1187
0.30< SP ≤0.40	Part 3	0.30	812	0.22	1021	0.39	954	0.30	1201
0.40< SP ≤0.50	Part 4	0.37	812	0.30	1003	0.49	954	0.39	1158
0.50< SP ≤0.60	Part 5	0.43	812	0.37	971	0.59	954	0.49	1158
0.60< SP ≤0.70	Part 6	0.51	812	0.43	971	0.69	954	0.59	1109
0.70< SP ≤0.80	Part 7	0.57	812	0.51	939	0.79	954	0.69	1095

P-Q Curve
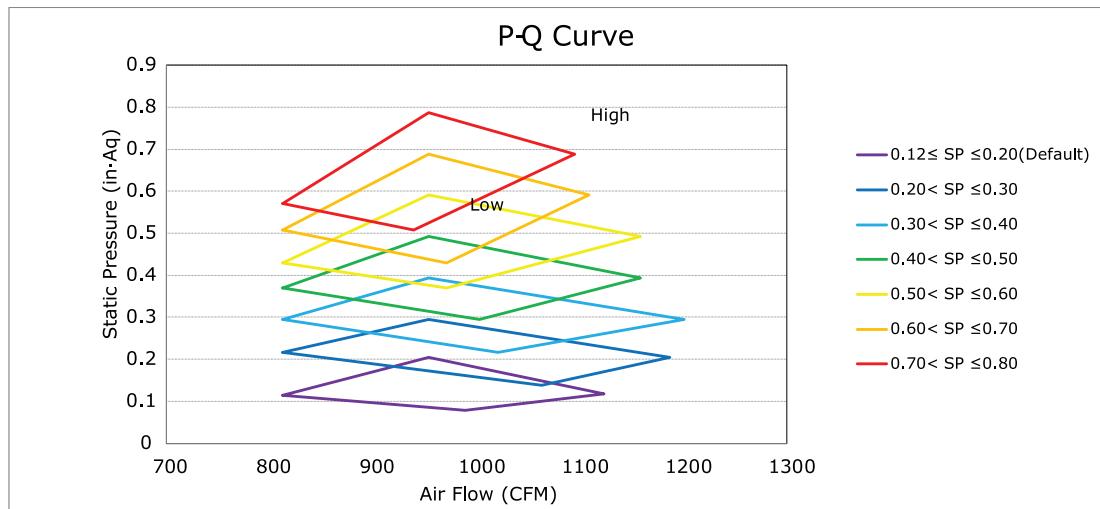
4TVD0048C100NA

External Static pressure (in·Aq)		Point 1		Point 2		Point 3		Point 4	
		in·Aq	CFM	in·Aq	CFM	in·Aq	CFM	in·Aq	CFM
0.12≤ SP ≤0.20(Default)	part 1	0.15	1059	0.10	1169	0.20	1236	0.12	1346
0.20< SP ≤0.30	part 2	0.22	1059	0.15	1180	0.30	1236	0.20	1360
0.30< SP ≤0.40	part 3	0.30	1059	0.22	1201	0.39	1236	0.30	1377
0.40< SP ≤0.50	part 4	0.37	1059	0.30	1201	0.49	1236	0.39	1391
0.50< SP ≤0.60	part 5	0.45	1059	0.37	1215	0.59	1236	0.49	1377
0.60< SP ≤0.70	part 6	0.52	1059	0.45	1190	0.69	1236	0.59	1377
0.70< SP ≤0.80	part 7	0.60	1059	0.52	1201	0.79	1236	0.69	1377

P-Q Curve
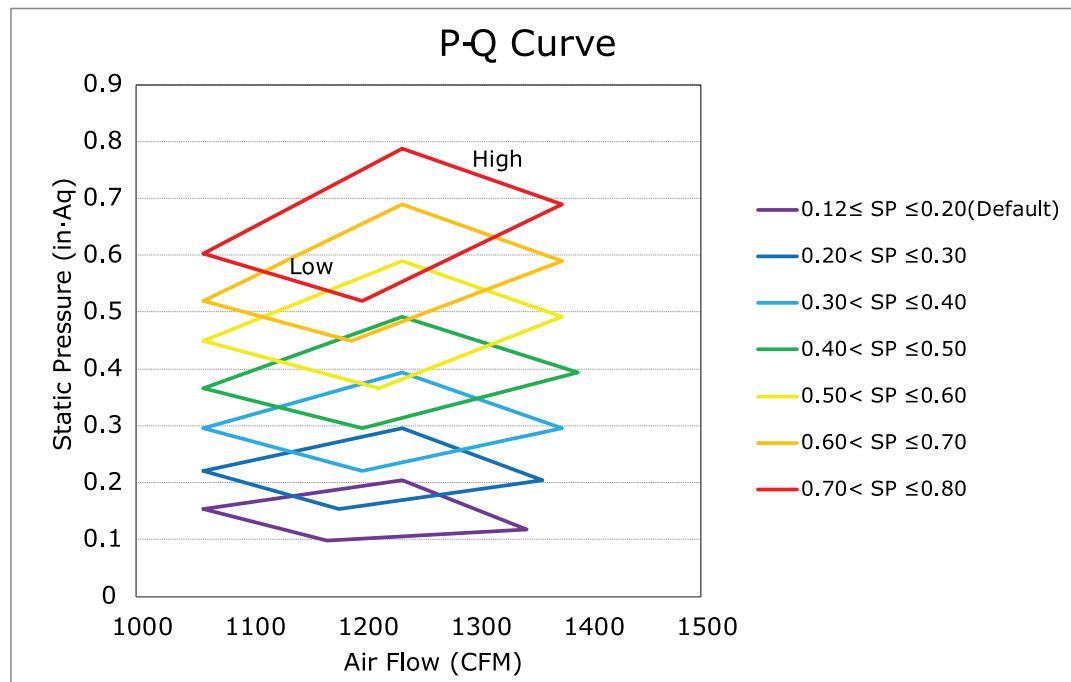
Filter Pressure

4TVD0007
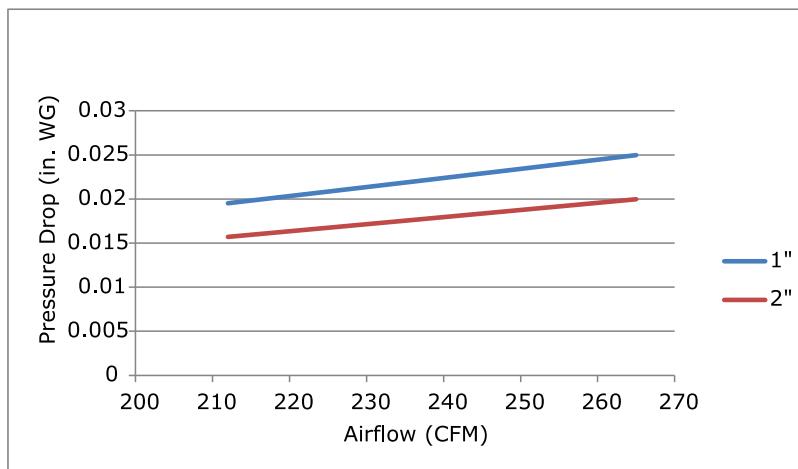
Fan speed	Velocity (FPM)	Air flow (CFM)	MERV 13	
			1 in.	2 in.
Low	37.9	212	0.019518	0.015703
Med	42.1	236	0.02197	0.017623
High	47.3	265	0.024976	0.019972

4TVD0009
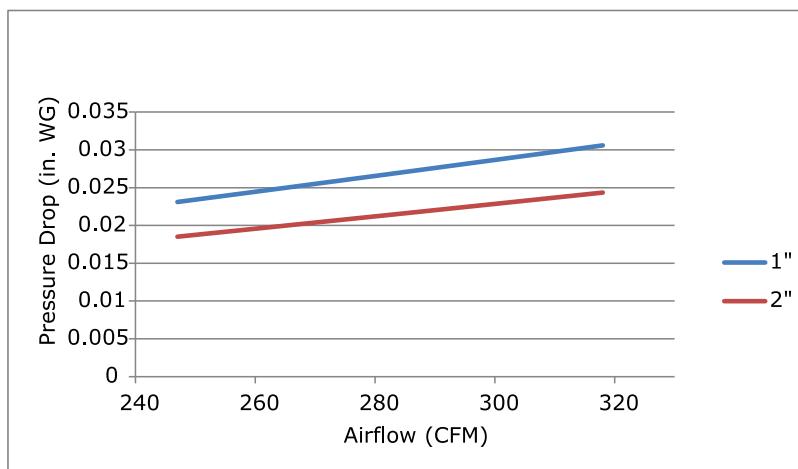
Fan speed	Velocity (FPM)	Air flow (CFM)	MERV 13	
			1 in.	2 in.
Low	44.1	247	0.023104	0.01851
Med	50.4	282	0.026761	0.021364
High	56.8	318	0.030595	0.024349

4TVD0012
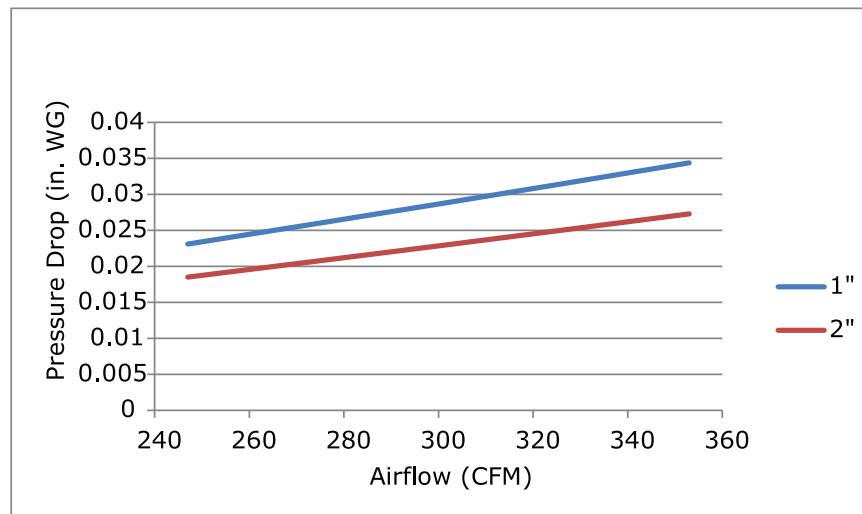
Fan speed	Velocity (FPM)	Air flow (CFM)	MERV 13	
			1 in.	2 in.
Low	44.1	247	0.023104	0.01851
Med	53.6	300	0.028669	0.022851
High	63.0	353	0.034394	0.027298

4TVD0015
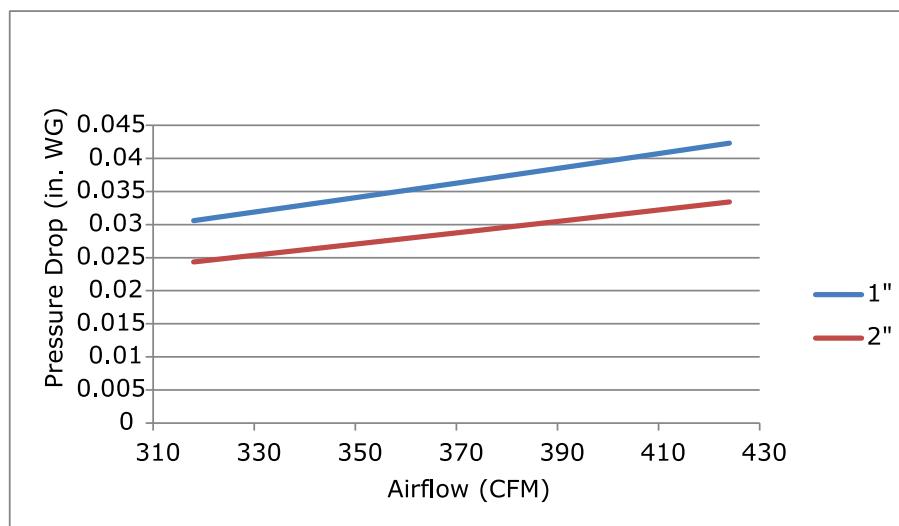
Fan speed	Velocity (FPM)	Air flow (CFM)	MERV 13	
			1 in.	2 in.
Low	56.8	318	0.030595	0.024349
Med	66.3	371	0.036375	0.028833
High	75.7	424	0.042317	0.033425
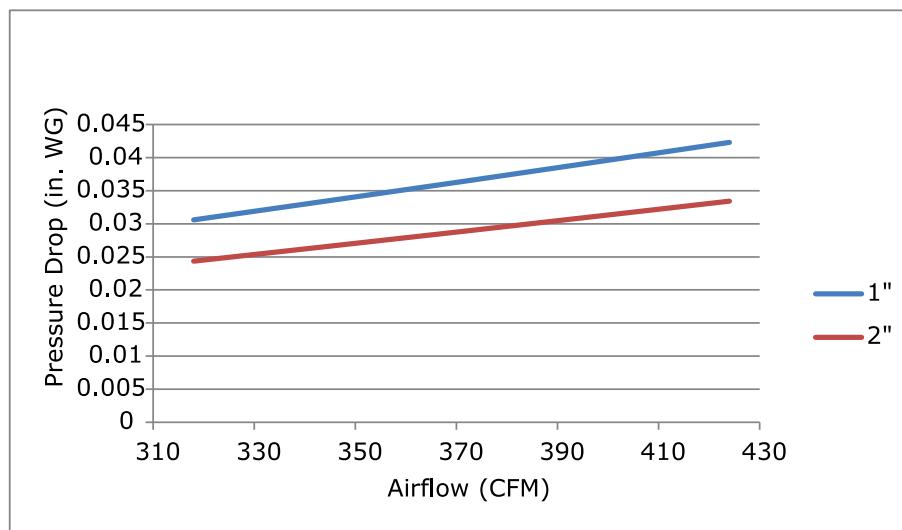
4TVD0018

Fan speed	Velocity (FPM)	Air flow (CFM)	MERV 13	
			1 in.	2 in.
Low	72.5	406	0.040281	0.031854
Med	82.0	459	0.046328	0.036517
High	91.4	512	0.052538	0.041287

4TVD0024
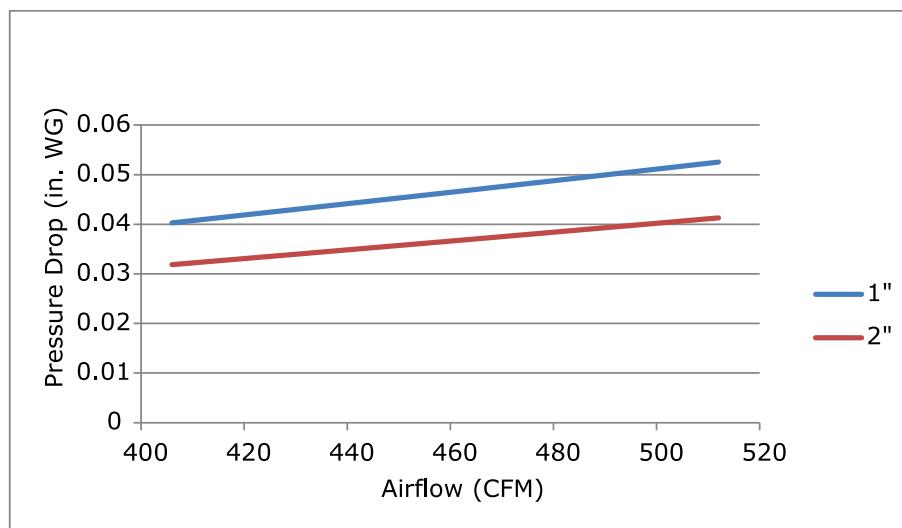
Fan speed	Velocity (FPM)	Air flow (CFM)	MERV 13	
			1 in.	2 in.
Low	86.8	547	0.049497	0.038953
Med	95.2	600	0.055082	0.043237
High	103.7	653	0.060795	0.047606

4TVD0027
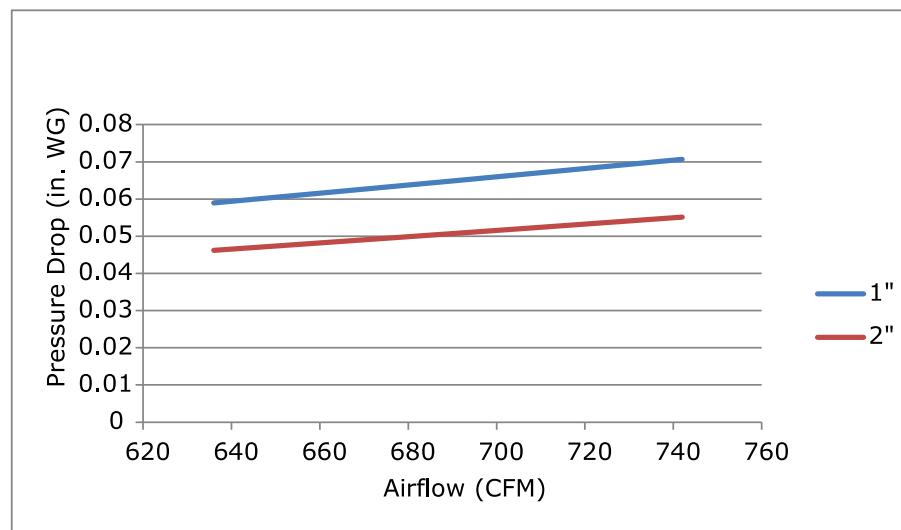
Fan speed	Velocity (FPM)	Air flow (CFM)	MERV 13	
			1 in.	2 in.
Low	101.0	636	0.058948	0.046196
Med	109.4	689	0.064747	0.050622
High	117.8	742	0.070673	0.055134

4TVD0030
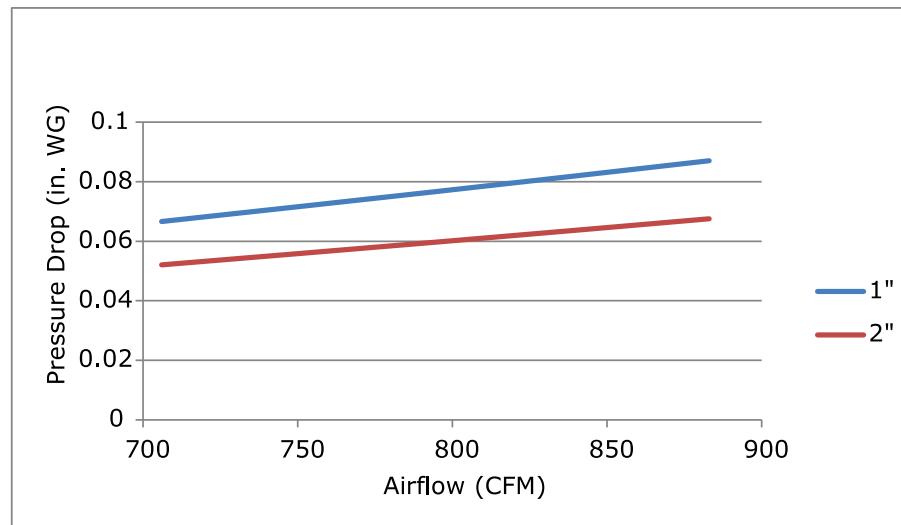
Fan speed	Velocity (FPM)	Air flow (CFM)	MERV 13	
			1 in.	2 in.
Low	112.1	706	0.066634	0.05206
Med	126.2	795	0.076727	0.059731
High	140.2	883	0.087059	0.06755
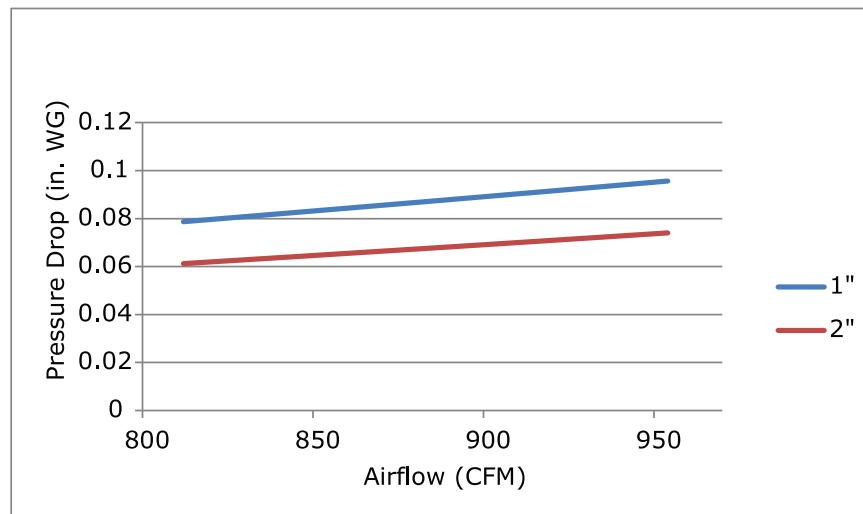
4TVD0036

Fan speed	Velocity (FPM)	Air flow (CFM)	MERV 13	
			1 in.	2 in.
Low	128.9	812	0.078696	0.061223
Med	140.2	883	0.087059	0.06755
High	151.4	954	0.095652	0.07403

4TVD0048
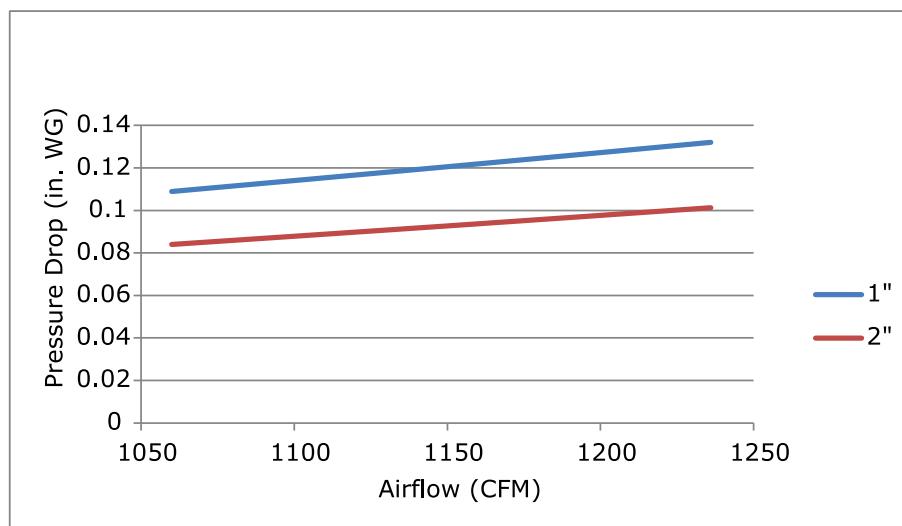
Fan speed	Velocity (FPM)	Air flow (CFM)	MERV 13	
			1 in.	2 in.
Low	168.3	1060	0.108905	0.083987
Med	182.2	1148	0.120296	0.092512
High	196.2	1236	0.132037	0.101271

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