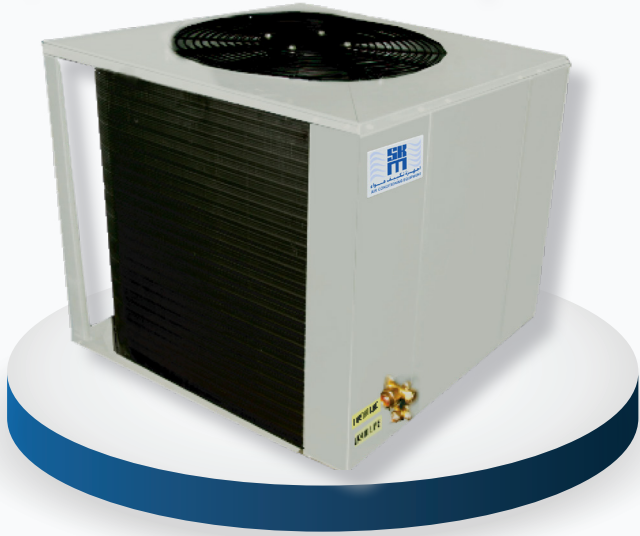


RXVPG + DDPPG-V

Concealed Ducted Split System



50Hz



Nominal Range 1.5 TR to 5 TR
(5.3 kW to 17.6 kW)



علامة الجودة الإماراتية
Emirates Quality Mark

Contents

Introduction.....	2	Electrical Data	16
Legend.....	2	Indoor Fan Performance.....	17
Nomenclature	3	Recommended Line Sizes.....	18
Features	4-5	Typical Wiring Diagram.....	19
Specifications	6-7	Dimensional Data	20-22
Combination Ratings	8-15	Guide Specification.....	23

Legend

The following legends are used throughout this manual:

AFRAir Flow Rate	ODOutside Diameter
cfm Cubic feet per minute	PhPhase
dB Decibels	PaPascals
DBDry Bulb	SCSensible Capacity
WBWet Bulb	TCTotal Capacity
Hz Hertz	TR Tons of refrigeration = 12 MBH
kWKilowatts	VVolts
kg Kilograms	MCA.....Minimum Circuit Amps
EER.....Energy Efficiency Ratio	MFA.....Maximum Fuse Amps
lbsPounds weight (British units)	LRA.....Locked Rotor Amps
l/sLiters per second	RLA.....Rated Load Amps
Mbh 1000 Btuh	FLA.....Full Load Amps
TC.....Total Cooling Capacity	mm.....millimeter
SC.....Sensible Cooling Capacity	in.....inches
PI.....Power Input	



SKM reserves the right to change, in part or in whole the specifications of its Air Conditioning Equipment at any time in order to add the latest technology. Therefore, the enclosed information may change without any prior notice.

Introduction

The Ducted Split system from SKM consists of RXVPG (a high efficiency - TOP discharge Air Cooled Condensing Unit); matching with DDPPG-V (a low noise, ceiling suspended indoor fan coil unit). This split systems are ideally suited for apartments, houses, offices, shops, small residences, and in small commercial establishments.

SKM ducted split system are available in different models covering the range of 1.5 TR to 5 TR (5.3 kW to 17.6 kW) at nomina ISO 13253 conditions, which make them ideally suited for a very small foot print for space saving and a pleasant exterior appearance.

SKM ducted split units are suitable to operate in a wide range of ambient temperatures. (Minimum outdoor operating ambient in cooling mode is 55°F (13°C), maximum is 125.6°F (52°C).

SKM ducted split units are internally wired and all that required to be done on site is ducting, refrigerant piping, power supply and suitable room thermostat installation and field wiring, which reduces the installation work and consequently keeps to a minimum cost.

SKM provides qualified service and stock of replacement parts in all major cities of the G.C.C. countries, Egypt, Jordan, and Pakistan.

SKM Air Conditioning LLC

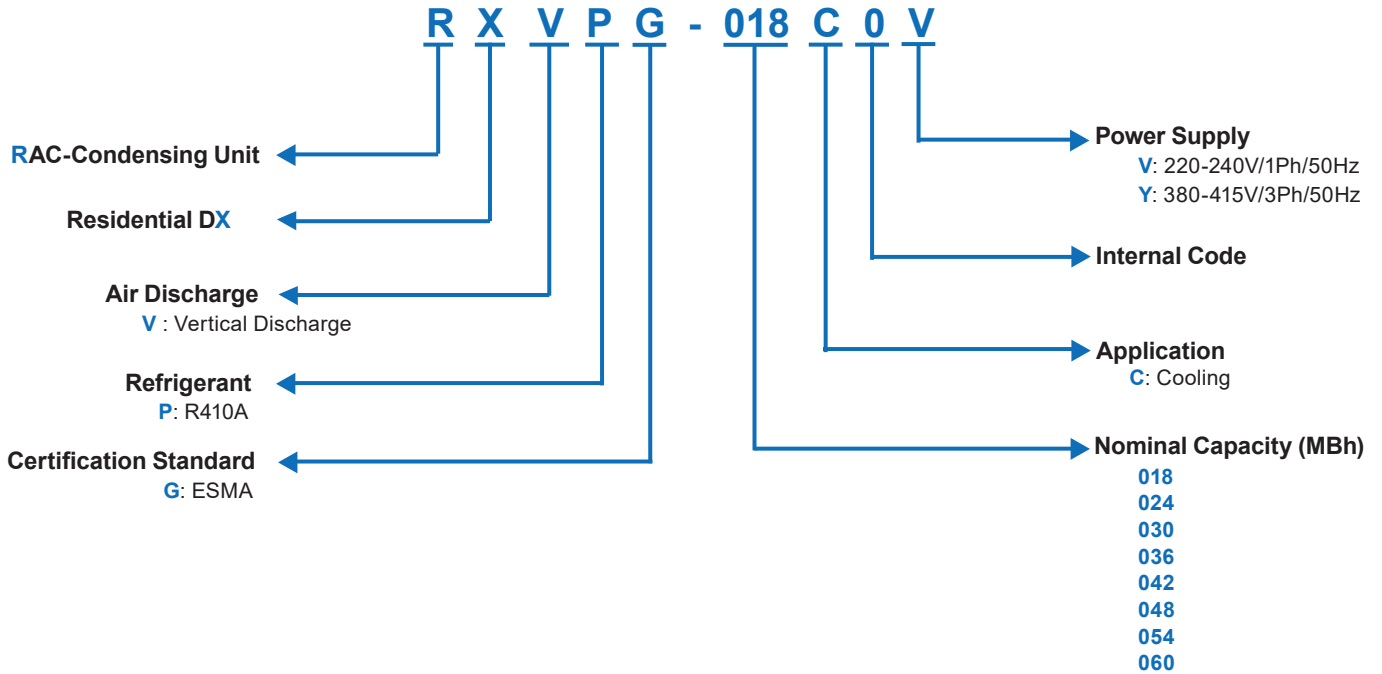


You name it.....We cool it

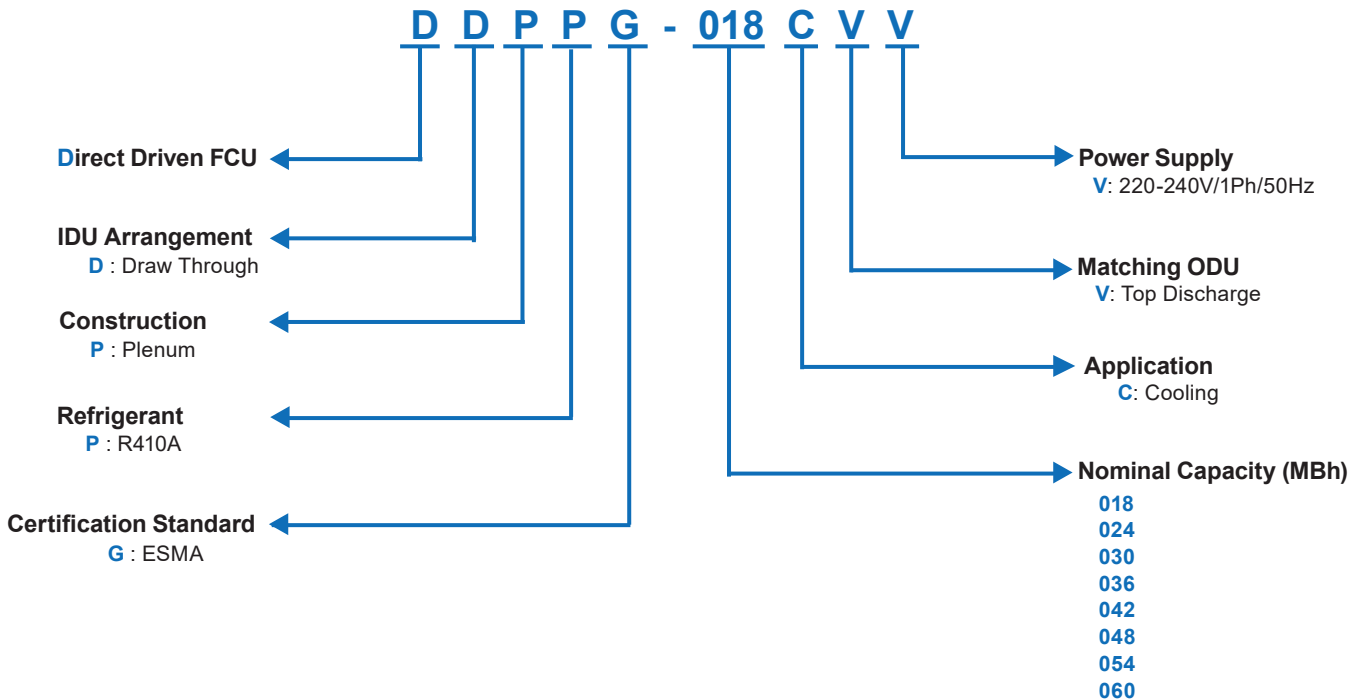


Nomenclature

Ducted Split Nomenclature Outdoor



Ducted Split Nomenclature Indoor



Outdoor Unit - RXVPG

Design Features: (Air Cooled units up to 5 Tons of Refrigeration)

- **Design** - Outdoor condensing units are ideal for rooftop or ground installation. Units have a pleasant exterior appearance and have a very small footprint for space saving installation.
- **High efficiency Coils** - inner groove tubes; mechanically bonded to hi-efficiency aluminium fins to match for a maximum efficiency.
- **Hermetic Scroll Compressor** - High efficiency hermetically sealed scroll type compressor located on engineered mounts for safe, quiet and vibration-free operation. Compressors are selected for reliability & power efficiency.
- **Cabinet Construction** - Heavy gauge zinc clad steel, latest technology electrostatic powder baked finish to ensure a long lasting, durable cabinet.
- **Fan Motor** – Condenser fan is propeller type with aluminium alloy blades and directly driven by electric motors.
- **Brass Service Valves** – Factory installed service valve with flare connections to provide quick and accurate installation for start-up and servicing.
- **Ease of Service and Installation** – Designed to make servicing easier for the contractor, access panels are provided for all controls and the compressor from the side of the unit.
- **Compressor Short Cycling Protection** – To protect the compressor against rapid short cycling.
- **High and Low Pressure Protection** - To protect the compressor against high discharge pressure and low suction pressure, and to guarantee safe operation of compressor.
- **Filter Drier** - Filter drier is factory supplied (field installed) for all sizes.



Optional Features - ODU

Condenser Coil with Pre-coated Aluminum Fins (FAP)

Condenser coil with Pre coated Aluminium fins

Condenser Coil with Copper Fins (FC)

Condenser Coil with Copper Fins

Condenser Coil with Aries Coated Aluminium Fins (FAA)

Condenser Coil with Aries Coated Aluminum Fins and Five year Warranty on Coil

Condenser Coil Guard (CGP)

Galvanized wire mesh guard with painted finish for condenser coils.

Crankcase Heater (CCH)

Crankcase heater for compressor

Voltage Monitor Module (VMM)

Voltage Monitor Module

*applicable only for 48K, 54K, and 60K models

Volt Free Contact (VFC)

Volt free contacts for Run status, Common fault status and provision for Remote On/Off from BMS for the outdoor unit. Provision for three fan speed commands from BMS for the indoor unit.

Low Ambient Lockout (LALKT)

This will switch off the outdoor unit below low ambient setpoint



Indoor Unit - DDPPG-V

Design Features

- High efficiency coil with high efficiency wavy corrugated fins.
- High efficiency, low power consumption PSC electric motor.
- High efficiency forward curved fan for quiet operation.
- Heavy gauge galvanized casing and fan housing. Hot dip is standard.
- With 4mm Polyolefin Foam Thermal Insulation
- Insulated heavy gauge drain pan.
- Isolating grommet for an additional vibration isolation.
- Easy wiring / electrical and piping connections.
- Evaporator coils equipped with copper tubes and aluminium fins which give high capacity sensible and latent cooling capabilities.
- Touch Pad fan coil unit thermostats show working status (cool, heat or ventilation), fan speed, room temperature, set-point temperature, etc. Keys include on/off, mode, fan speed & temperature adjustment.



Optional Features - IDU

<p>Cooling Coil with Pre-coated Aluminum Fins (EFAP) Cooling coil with Pre coated Aluminium fins</p>	<p>Extended drain pan 100 mm extended length (EDP1) Extended drain pan (100 mm extended length)</p>
<p>Cooling Coil with Copper Fins (EFC) Cooling coil with copper fins</p>	<p>Extended drain pan 200 mm extended length (EDP2) Extended drain pan (200 mm extended length)</p>
<p>Cooling Coil with Aeris Coated Aluminium Fins (EFAA) Cooling Coil with Aries Coated Aluminum Fins and Five year Warranty on Coil</p>	<p>1.0 mm thick sheet metal (SS 304) Inner Skin for Unit Casing (ISS3041.0) 1.0 mm thick sheet metal (SS 304) Inner Skin for Unit Casing</p>
<p>Powder Coated Decorative Finish (BEP) Powder coating for indoor units.</p>	<p>Perforated Inner Skin (ISPG0.7) 0.7 mm thick sheet metal (Perforated GI Sheet) Inner Skin for Unit Casing</p>
<p>Stainless Steel Casing Outer skin-0.7mm Grade304 (USS) Stainless Steel Casing Outer skin- 0.7mm Grade304</p>	<p>Perforated Inner skin (ISPG1.0) 1.0 mm thick sheet metal (Perforated GI Sheet) Inner Skin for Unit Casing</p>
<p>Stainless Steel Casing Outer skin-0.7mm Grade316 (USSL) Stainless Steel Casing Outer skin- 0.7mm Grade316</p>	<p>13mm Fiberglass Insulation (0SG) 13mm fiberglass Insulation</p>
<p>Double Skin Unit (DSU) Double Skin Unit</p>	<p>Digital Thermostat with Wi-Fi (CHTS-Wifi) Touch Pad fan coil unit thermostats show working status (cool, heat or ventilation), fan speed, room temperature, set-point temperature and with wireless connectivity or Wi-Fi.</p>
<p>Stainless Steel Drain Pan Grade 304 (SDP-304) Stainless steel drain pan(Grade 304). Insulation under drain pan as per SKM standard.</p>	
<p>Stainless Steel Drain Pan Grade 316 (SDP-316) Stainless steel drain pan (Grade 316L) under the entire cooling coil and moisture eliminator. Insulation under drain pan as per SKM standard.</p>	

Specification (Outdoor Unit RXVPG)

Models		RXVPG	18	24	30	36	42	48	54	60	
Power Supply		V,Hz,Ph	220 - 240 V, 50Hz, 1Ph					380 - 415 V, 50Hz, 3Ph			
Compressor	Type	Hermetic Scroll									
Condenser Coil	Tube outside dia.and type	Φ9.52 / Hi-X Copper									
	Fin type	Aluminum fin									
	Face Area	ft ²	10.58			15.40					
mt ²		0.98			1.43						
Condenser Fan	Type	Propeller Direct Drive									
	Quantity	pcs	1								
	Size		450				550				
Condenser Motor	Type	Totally Enclosed Air Over (TEAO), Class F Insulated & IP-54 Protected									
	Size	kW	.09				0.25				
Refrigerant Charge (R-410A)	lbs	7.9	8.8	12.1	11.7	12.8	11.7	13.4			
	KG	3.60	4.00	5.50	5.30	5.80	5.30	6.10			
Operating Weight Approximate	lbs	162.8	173.8	222.2		224.4		244.2			
	KG	74	79	101		102		111			
Pack Valve connections	Liquid (mm/in)	9.5 / 3/8"									
	Suction (mm/in)	19.1 / 3/4"			22.2 / 7/8"						
Dimensions	Width	mm	635		762		762				
	Length	mm	635		762		762				
	Height	mm	903		903		884				

Table 2



Specification (Indoor Unit DDPPG-V Matched with Outdoor Unit RXVPG)

Models		DDPPG-V	18	24	30	36	42	48	54	60		
Power Supply		V,Hz,Ph	220 - 240V~, 50Hz, 1Ph									
Cooling (T1)	Capacity	Btu/h	21300	23000	25000	35700	38300	42500	54000	60000		
		kW	6.2	6.7	7.3	10.5	11.2	12.5	15.8	17.6		
	Power Input	kW	1.80	1.85	2.05	2.95	3.17	3.53	4.55	5.10		
	Current	A	8.20	8.36	9.25	13.61	14.66	7.22	8.54	8.74		
	EER	Btu/h/W	11.83	12.43	12.20	12.10	12.08	12.04	11.87	11.76		
Cooling (T3)	Capacity	Btu/h	17500	19400	21300	30000	33400	37000	47600	53000		
		kW	5.1	5.7	6.2	8.8	9.8	10.8	14.0	15.5		
	Power Input	kW	2.10	2.26	2.47	3.57	3.97	4.21	5.58	6.36		
	Current	A	10.24	9.92	10.87	16.34	17.98	8.20	9.76	10.37		
	EER	Btu/h/W	8.33	8.58	8.62	8.40	8.41	8.79	8.53	8.33		
Nominal Air Flow Rate (High)		CFM	800	700	772	1040	1600	1600	2070	2080		
		l/S	378	330	364	491	755	755	977	982		
External Static Pressure		in. wg	0.10				0.15			0.20		
External Static Pressure (Range)		in. wg	0.10 - 0.20									
Indoor coil	Number of rows		4									
	FPI		14									
	Face Area	ft²	1.67		2.00		2.67		3.50		4.67	5.33
		mt²	0.16		0.19		0.25		0.33		0.43	0.50
	Fin type		Aluminum fin									
Tube outside dia.and type		mm	Φ9.52 / Hi-X Copper									
Indoor fan	Type		Double Inlet Double Width Centrifugal Forward Curved Direct Driven									
	Quantity		1				2					
Indoor Motor	Size	W	150				150*2					
	Capacitor	uF	2.5		6.3			5.0				
Metering Device	Type		TXV									
	Location		IDU									
Thermostat (Wired Controller)		Standard										
Indoor unit	Air Filter		Washable Aluminum Filter									
	Drain pan material		Galvanized Steel									
	Dimension(W*D*H)	mm	838 x 703 x 381		940 x 703 x 381		940 x 760 x 459		1397 x 703 x 381		1397 x 760 x 459	1549 x 760 x 459
	Approx. Operating Weight	kg	38		40		42		62		67	74
Power Supply Connection		IDU and ODU										

Table 1

Notes:

- Capacity ratings for T1 are based on ISO13253. Evaporator entering air conditions of 80.6/66.2°F (27/19°C) dry bulb/wet bulb and condenser entering air temperature of 95°F (35°C) dry bulb. (Gross capacity)
- Capacity ratings for T3 are based on ISO13253. Evaporator entering air conditions of 84.2°F/66.2°F (29°C/19°C) dry bulb/wet bulb and condenser entering air temperature of 114.8°F(46°C) dry bulb. (Net Capacity).
- Dimensions with extended drain pan



RXVPG + DDPPG-V	AFR	EWB		Condenser Entering Air Temperature									
				120°F (48.9°C)					125°F (51.7°C)				
				Total Capacity		Sensible Capacity		PI	Total Capacity		Sensible Capacity		PI
CFM	°F	°C	MBh	kW	MBh	kW	kW	MBh	kW	MBh	kW	kW	
18K + 18K	421	62	16.7	15.0	4.4	11.3	3.3	2.4	14.4	4.2	11.0	3.2	2.6
	199	66.2	19	16.7	4.9	9.9	2.9	2.4	16.1	4.7	9.7	2.9	2.6
	0.08	72	22.2	18.3	5.4	7.7	2.3	2.4	17.7	5.2	7.6	2.2	2.4
	584	62	16.7	15.8	4.6	13.2	3.9	2.4	15.3	4.5	12.7	3.7	2.6
	276	66.2	19	17.5	5.1	11.7	3.4	2.4	16.8	4.9	11.4	3.4	2.6
	0.11	72	22.2	19.5	5.7	8.9	2.6	2.3	18.8	5.5	8.7	2.5	2.4
	800	62	16.7	16.6	4.9	13.9	4.1	2.4	16.0	4.7	13.4	3.9	2.6
	378	66.2	19	18.1	5.3	13.9	4.1	2.4	17.4	5.1	13.6	4.0	2.6
	0.13	72	22.2	20.2	5.9	10.2	3.0	2.2	19.5	5.7	10.0	2.9	2.3
	534	62	16.7	17.0	5.0	11.8	3.5	2.5	16.3	4.8	11.4	3.4	2.6
24K + 24K	252	66.2	19	18.9	5.5	10.3	3.0	2.5	18.1	5.3	10.0	2.9	2.6
	0.1	72	22.2	20.9	6.1	7.8	2.3	2.4	20.1	5.9	7.7	2.2	2.5
	653	62	16.7	17.5	5.1	12.3	3.6	2.5	17.0	5.0	11.9	3.5	2.6
	308	66.2	19	19.3	5.7	11.4	3.3	2.5	18.5	5.4	11.2	3.3	2.6
	0.11	72	22.2	21.5	6.3	8.6	2.5	2.4	20.8	6.1	8.4	2.5	2.4
	700	62	16.7	17.7	5.2	12.4	3.6	2.5	17.1	5.0	12.0	3.5	2.6
	330	66.2	19	19.4	5.7	11.7	3.4	2.5	18.8	5.5	11.6	3.4	2.6
	0.12	72	22.2	21.7	6.4	8.8	2.6	2.4	21.0	6.2	8.6	2.5	2.4
	536	62	16.7	18.3	5.4	12.7	3.7	2.7	17.7	5.2	12.5	3.7	2.8
	253	66.2	19	20.4	6.0	11.1	3.3	2.7	19.7	5.8	10.9	3.2	2.8
30K + 30K	0.09	72	22.2	22.6	6.6	8.6	2.5	2.7	22.0	6.4	8.4	2.5	2.9
	656	62	16.7	18.9	5.5	13.8	4.0	2.7	18.3	5.4	13.3	3.9	2.8
	310	66.2	19	20.9	6.1	12.3	3.6	2.7	20.2	5.9	12.1	3.5	2.9
	0.1	72	22.2	23.4	6.9	9.3	2.7	2.7	22.7	6.7	9.2	2.7	2.9
	772	62	16.7	19.5	5.7	14.1	4.1	2.7	18.8	5.5	13.7	4.0	2.8
	364	66.2	19	21.3	6.3	13.5	3.9	2.7	20.6	6.0	13.2	3.9	2.9
	0.11	72	22.2	24.1	7.1	10.0	2.9	2.7	23.2	6.8	9.9	2.9	2.8
	645	62	16.7	26.0	7.6	15.8	4.6	4.0	24.9	7.3	15.4	4.5	4.2
	305	66.2	19	28.4	8.3	13.9	4.1	4.1	27.5	8.1	13.6	4.0	4.4
	0.07	72	22.2	31.1	9.1	10.9	3.2	4.1	30.1	8.8	10.7	3.1	4.4
36K + 36K	862	62	16.7	27.1	7.9	18.3	5.4	4.0	26.1	7.6	18.0	5.3	4.2
	407	66.2	19	30.2	8.8	16.1	4.7	4.1	29.1	8.5	15.8	4.6	4.4
	0.08	72	22.2	32.8	9.6	12.4	3.6	4.1	31.8	9.3	12.2	3.6	4.4
	1040	62	16.7	27.6	8.1	19.2	5.6	4.1	26.6	7.8	18.5	5.4	4.4
	491	66.2	19	30.1	8.8	17.7	5.2	4.1	29.0	8.5	17.5	5.1	4.4
	0.11	72	22.2	33.5	9.8	13.3	3.9	4.1	32.4	9.5	13.1	3.8	4.4
	1192	62	16.7	29.2	8.6	24.2	7.1	4.4	28.1	8.2	23.2	6.8	4.7
	563	66.2	19	31.6	9.3	23.7	6.9	4.4	30.5	8.9	23.3	6.8	4.7
	0.1	72	22.2	35.0	10.3	17.4	5.1	4.5	33.7	9.9	17.1	5.0	4.7
	1409	62	16.7	29.9	8.8	24.7	7.2	4.4	29.9	8.8	24.7	7.2	4.7
42K + 42K	665	66.2	19	32.2	9.4	26.1	7.7	4.4	31.2	9.1	25.8	7.6	4.7
	0.12	72	22.2	35.4	10.4	18.8	5.5	4.5	34.2	10.0	18.5	5.4	4.7
	1600	62	16.7	31.4	9.2	25.9	7.6	4.4	30.2	8.8	25.0	7.3	4.7
	755	66.2	19	32.6	9.6	27.0	7.9	4.4	31.6	9.3	26.1	7.7	4.7
	0.13	72	22.2	-	-	-	-	-	-	-	-	-	-
	1192	62	16.7	31.7	9.3	26.8	7.9	4.6	30.4	8.9	25.7	7.5	4.8
	563	66.2	19	34.9	10.2	24.4	7.1	4.8	33.8	9.9	24.0	7.0	5.2
	0.1	72	22.2	-	-	-	-	-	-	-	-	-	-
	1409	62	16.7	32.5	9.5	27.4	8.0	4.6	31.2	9.2	26.4	7.7	4.8
	665	66.2	19	35.9	10.5	26.8	7.9	5.0	34.9	10.2	26.5	7.8	5.3
48K + 48K	0.12	72	22.2	-	-	-	-	-	-	-	-	-	-
	1600	62	16.7	33.1	9.7	27.9	8.2	4.6	31.8	9.3	26.9	7.9	4.9
	755	66.2	19	36.7	10.7	28.9	8.5	5.2	35.8	10.5	28.6	8.4	5.6
	0.13	72	22.2	-	-	-	-	-	-	-	-	-	-
	1499	62	16.7	40.9	12.0	33.3	9.8	6.1	39.5	11.6	32.2	9.4	6.5
	707	66.2	19	44.3	13.0	30.4	8.9	6.2	42.7	12.5	29.9	8.7	6.5
	0.1	72	22.2	48.8	14.3	22.6	6.6	6.4	47.1	13.8	22.2	6.5	6.6
	1752	62	16.7	41.9	12.3	34.2	10.0	6.1	40.5	11.9	33.0	9.7	6.5
	827	66.2	19	45.1	13.2	33.2	9.7	6.2	43.5	12.7	32.7	9.6	6.5
	0.11	72	22.2	49.4	14.5	24.3	7.1	6.4	47.5	13.9	23.7	7.0	6.6
54K + 54K	2070	62	16.7	42.7	12.5	34.8	10.2	6.2	41.2	12.1	33.6	9.8	6.5
	977	66.2	19	45.9	13.4	36.5	10.7	6.2	44.2	13.0	36.0	10.5	6.6
	0.12	72	22.2	49.8	14.6	26.2	7.7	6.4	48.0	14.1	25.7	7.5	6.6
	1476	62	16.7	44.1	12.9	35.4	10.4	7.0	42.6	12.5	34.1	10.0	7.3
	697	66.2	19	48.5	14.2	30.8	9.0	6.9	46.8	13.7	30.3	8.9	7.3
	0.09	72	22.2	54.4	15.9	23.6	6.9	6.8	52.7	15.4	23.1	6.8	7.0
	1753	62	16.7	45.4	13.3	36.4	10.7	7.0	43.9	12.9	35.2	10.3	7.3
	827	66.2	19	49.6	14.5	33.8	9.9	6.9	47.9	14.0	33.3	9.8	7.1
	0.1	72	22.2	55.9	16.4	25.5	7.5	6.6	54.2	15.9	25.1	7.3	7.0
	2080	62	16.7	46.8	13.7	37.5	11.0	6.9	45.1	13.2	36.2	10.6	7.3
60K + 60K	982	66.2	19	50.7	14.9	37.2	10.9	6.9	49.0	14.4	36.8	10.8	7.1
	0.11	72	22.2	57.2	16.8	27.6	8.1	6.6	-	-	-	-	-

Table 3

6. Total Cooling Capacity in Mbh (1000 Btuh)
Sensible Cooling Capacity in Mbh (1000 Btuh)
PI - Power Input in kW (compressor only)

To convert Mbh to kW, divide by 3.412. / To convert cfm to L/s, divide by 2.12.

* Power input mentioned in this page should not be used for cable or fuse selection.
MCA and MFA values given in the electrical data (page 16) should be referred for the same.



RXVPG + DDPPG-V	AFR	EWB		Condenser Entering Air Temperature									
				120°F (48.9°C)					125°F (51.7°C)				
				Total Capacity		Sensible Capacity		PI	Total Capacity		Sensible Capacity		PI
(BPF)	°F	°C	MBh	kW	MBh	kW	kW	MBh	kW	MBh	kW	kW	
18K + 18K	421	62	16.7	13.9	4.1	13.9	4.1	2.2	13.4	3.9	13.4	3.9	2.3
	199	66.2	19	15.4	4.5	12.5	3.7	2.2	14.9	4.4	12.2	3.6	2.3
	0.08	72	22.2	17.1	5.0	10.1	3.0	2.2	16.6	4.9	9.9	2.9	2.2
	584	62	16.7	14.9	4.4	14.9	4.4	2.2	14.3	4.2	14.3	4.2	2.3
	276	66.2	19	16.1	4.7	14.9	4.4	2.2	15.6	4.6	14.7	4.3	2.3
	0.11	72	22.2	18.2	5.3	11.8	3.5	2.1	17.6	5.2	11.7	3.4	2.2
	800	62	16.7	16.3	4.8	16.3	4.8	2.2	15.8	4.6	15.8	4.6	2.3
	378	66.2	19	16.9	4.9	16.9	4.9	2.2	16.2	4.8	16.2	4.8	2.3
	0.13	72	22.2	18.8	5.5	13.9	4.1	2.0	18.0	5.3	13.7	4.0	2.1
	534	62	16.7	16.4	4.8	16.4	4.8	2.4	15.8	4.6	15.8	4.6	2.5
24K + 24K	252	66.2	19	18.0	5.3	15.9	4.7	2.4	17.2	5.1	15.7	4.6	2.5
	0.1	72	22.2	20.2	5.9	12.7	3.7	2.3	19.5	5.7	12.5	3.7	2.4
	653	62	16.7	17.0	5.0	17.0	5.0	2.4	16.4	4.8	16.4	4.8	2.5
	308	66.2	19	18.5	5.4	18.0	5.3	2.4	17.9	5.2	17.7	5.2	2.5
	0.11	72	22.2	20.8	6.1	14.2	4.2	2.3	20.0	5.9	13.9	4.1	2.3
	700	62	16.7	17.2	5.1	17.2	5.1	2.4	17.4	5.1	17.4	5.1	2.5
	330	66.2	19	18.7	5.5	18.7	5.5	2.4	18.0	5.3	18.0	5.3	2.5
	0.12	72	22.2	20.9	6.1	14.6	4.3	2.3	20.1	5.9	14.4	4.2	2.3
	536	62	16.7	17.8	5.2	17.8	5.2	2.6	17.1	5.0	17.1	5.0	2.7
	253	66.2	19	19.5	5.7	16.6	4.9	2.6	18.8	5.5	16.3	4.8	2.7
30K + 30K	0.09	72	22.2	21.9	6.4	13.4	3.9	2.6	21.3	6.2	13.2	3.9	2.8
	656	62	16.7	18.5	5.4	18.5	5.4	2.6	17.9	5.2	17.9	5.2	2.7
	310	66.2	19	20.1	5.9	18.7	5.5	2.6	19.4	5.7	18.5	5.4	2.7
	0.1	72	22.2	22.7	6.7	14.8	4.3	2.6	22.0	6.5	14.6	4.3	2.7
	772	62	16.7	19.0	5.6	19.0	5.6	2.6	19.3	5.6	19.3	5.6	2.7
	364	66.2	19	20.6	6.0	20.6	6.0	2.6	19.9	5.8	19.9	5.8	2.8
	0.11	72	22.2	23.1	6.8	16.1	4.7	2.6	22.3	6.5	15.8	4.6	2.7
	645	62	16.7	24.7	7.2	24.3	7.1	3.7	23.8	7.0	23.9	7.0	3.9
	305	66.2	19	27.4	8.0	21.8	6.4	3.8	26.5	7.8	21.5	6.3	4.0
	0.07	72	22.2	30.1	8.8	17.7	5.2	3.8	29.1	8.5	17.4	5.1	4.0
36K + 36K	862	62	16.7	25.6	7.5	24.6	7.2	3.7	24.6	7.2	23.7	6.9	3.9
	407	66.2	19	28.1	8.2	22.2	6.5	3.8	27.0	7.9	21.7	6.4	4.0
	0.08	72	22.2	31.1	9.1	17.8	5.2	3.8	30.2	8.8	17.5	5.1	4.0
	1040	62	16.7	26.8	7.9	26.8	7.9	3.8	25.9	7.6	25.9	7.6	4.0
	491	66.2	19	29.0	8.5	28.4	8.3	3.8	28.0	8.2	28.0	8.2	4.0
	0.11	72	22.2	32.5	9.5	22.2	6.5	3.8	31.2	9.2	21.8	6.4	4.0
	1192	62	16.7	30.1	8.8	30.1	8.8	4.2	29.0	8.5	29.0	8.5	4.5
	563	66.2	19	31.1	9.1	31.1	9.1	4.2	30.0	8.8	30.0	8.8	4.5
	0.1	72	22.2	34.2	10.0	25.1	7.3	4.4	33.1	9.7	24.8	7.3	4.5
	1409	62	16.7	30.7	9.0	30.7	9.0	4.2	29.6	8.7	29.6	8.7	4.5
42K + 42K	665	66.2	19	31.7	9.3	31.7	9.3	4.2	30.7	9.0	30.7	9.0	4.5
	0.12	72	22.2	34.8	10.2	27.6	8.1	4.4	33.6	9.9	27.2	8.0	4.5
	1600	62	16.7	31.1	9.1	31.1	9.1	4.2	29.9	8.8	29.9	8.8	4.5
	755	66.2	19	32.2	9.4	32.2	9.4	4.2	31.1	9.1	31.1	9.1	4.5
	0.13	72	22.2	35.2	10.3	29.6	8.7	4.4	-	-	-	-	-
	1192	62	16.7	31.3	9.2	31.3	9.2	4.2	30.1	8.8	30.1	8.8	4.3
	563	66.2	19	34.0	10.0	32.5	9.5	4.3	32.9	9.7	32.1	9.4	4.6
	0.1	72	22.2	-	-	-	-	-	-	-	-	-	-
	1409	62	16.7	33.6	9.9	33.6	9.9	4.3	32.5	9.5	32.5	9.5	4.6
	665	66.2	19	35.1	10.3	35.1	10.3	4.5	34.1	10.0	34.1	10.0	4.8
48K + 48K	0.12	72	22.2	-	-	-	-	-	-	-	-	-	-
	1600	62	16.7	34.4	10.1	34.4	10.1	4.3	33.3	9.8	33.3	9.8	4.7
	755	66.2	19	36.0	10.6	36.0	10.6	4.6	35.0	10.3	35.0	10.3	5.0
	0.13	72	22.2	-	-	-	-	-	-	-	-	-	-
	1499	62	16.7	41.1	12.1	41.1	12.1	5.8	41.4	12.1	41.4	12.1	6.2
	707	66.2	19	44.2	12.9	42.9	12.6	6.0	42.6	12.5	42.3	12.4	6.2
	0.1	72	22.2	48.6	14.3	33.4	9.8	6.1	46.8	13.7	32.8	9.6	6.3
	1752	62	16.7	43.8	12.8	43.8	12.8	6.0	42.2	12.4	42.2	12.4	6.2
	827	66.2	19	45.1	13.2	45.1	13.2	6.0	43.4	12.7	43.4	12.7	6.2
	0.11	72	22.2	49.2	14.4	36.1	10.6	6.1	47.3	13.9	35.5	10.4	6.3
54K + 54K	2070	62	16.7	44.6	13.1	44.6	13.1	6.0	42.9	12.6	42.9	12.6	6.2
	977	66.2	19	45.9	13.5	45.9	13.5	6.0	44.3	13.0	44.3	13.0	6.2
	0.12	72	22.2	49.7	14.6	39.6	11.6	6.1	47.9	14.0	38.9	11.4	6.3
	1476	62	16.7	44.8	13.1	44.8	13.1	6.9	43.2	12.7	43.2	12.7	7.1
	697	66.2	19	48.6	14.2	44.2	13.0	6.7	46.9	13.8	43.6	12.8	7.1
	0.09	72	22.2	55.1	16.1	35.3	10.3	6.6	53.3	15.6	34.7	10.2	6.9
	1753	62	16.7	46.1	13.5	46.1	13.5	6.9	46.6	13.7	46.6	13.7	7.1
	827	66.2	19	49.9	14.6	49.0	14.4	6.7	48.3	14.1	48.3	14.1	7.0
	0.1	72	22.2	56.3	16.5	38.5	11.3	6.6	54.1	15.9	37.8	11.1	6.9
	2080	62	16.7	49.5	14.5	49.5	14.5	6.7	47.7	14.0	47.7	14.0	7.1
60K + 60K	982	66.2	19	51.1	15.0	51.1	15.0	6.7	49.5	14.5	49.5	14.5	7.0
	0.11	72	22.2	57.1	16.7	42.1	12.3	6.5	55.1	16.1	41.5	12.1	6.9

Table 4

- 6. Total Cooling Capacity in Mbh (1000 Btuh).
- Sensible Cooling Capacity in Mbh (1000 Btuh).
- PI - Power input in kW (compressor only).

To convert Mbh to kW, divide by 3.412. / To convert cfm to L/s, divide by 2.12.

* Power input mentioned in this page should not be used for cable or fuse selection.

MCA and MFA values given in the electrical data (page 16) should be referred for the same.



RXVPG + DDPPG-V	AFR	EWB		Condenser Entering Air Temperature									
				120°F (48.9°C)			125°F (51.7°C)						
				Total Capacity		Sensible Capacity	PI	Total Capacity		Sensible Capacity	PI		
CFM	°F	°C	MBh	kW	MBh	kW	kW	MBh	kW	MBh	kW	kW	
18K + 18K	421	62	16.7	14.9	4.4	11.8	3.4	2.4	14.3	4.2	11.6	3.4	2.6
	199	66.2	19	16.8	4.9	10.0	2.9	2.4	16.3	4.8	9.8	2.9	2.6
	0.08	72	22.2	18.1	5.3	8.0	2.4	2.4	17.6	5.1	7.9	2.3	2.4
	584	62	16.7	15.7	4.6	14.1	4.1	2.4	15.1	4.4	13.6	4.0	2.6
	276	66.2	19	17.7	5.2	11.8	3.4	2.4	17.0	5.0	11.6	3.4	2.6
	0.11	72	22.2	19.3	5.7	9.2	2.7	2.3	18.6	5.5	9.0	2.6	2.4
	800	62	16.7	16.5	4.8	14.8	4.3	2.4	15.9	4.7	14.3	4.2	2.6
	378	66.2	19	18.2	5.3	13.8	4.1	2.4	17.6	5.1	13.7	4.0	2.4
	0.13	72	22.2	20.1	5.9	10.5	3.1	2.2	19.4	5.7	10.3	3.0	2.3
24K + 24K	534	62	16.7	17.0	5.0	10.8	3.2	2.5	16.4	4.8	10.5	3.1	2.6
	252	66.2	19	19.4	5.7	9.0	2.6	2.5	18.6	5.5	8.8	2.6	2.6
	0.1	72	22.2	20.9	6.1	7.0	2.1	2.4	20.2	5.9	6.9	2.0	2.5
	653	62	16.7	17.7	5.2	11.4	3.4	2.5	17.0	5.0	11.0	3.2	2.6
	308	66.2	19	19.7	5.8	9.9	2.9	2.5	18.9	5.5	9.7	2.8	2.6
	0.11	72	22.2	21.6	6.3	7.7	2.2	2.4	20.8	6.1	7.5	2.2	2.4
	700	62	16.7	17.8	5.2	11.5	3.4	2.5	17.1	5.0	11.1	3.3	2.6
	330	66.2	19	19.9	5.8	10.3	3.0	2.5	19.1	5.6	10.1	3.0	2.6
	0.12	72	22.2	21.8	6.4	7.9	2.3	2.4	21.1	6.2	7.7	2.3	2.4
30K + 30K	536	62	16.7	18.3	5.4	11.5	3.4	2.7	17.7	5.2	11.3	3.3	2.8
	253	66.2	19	20.9	6.1	9.8	2.9	2.7	20.2	5.9	9.6	2.8	2.9
	0.09	72	22.2	22.6	6.6	7.7	2.3	2.7	21.9	6.4	7.5	2.2	2.9
	656	62	16.7	18.9	5.5	12.7	3.7	2.7	18.3	5.4	12.3	3.6	2.8
	310	66.2	19	21.3	6.2	10.8	3.2	2.7	20.6	6.0	10.5	3.1	2.9
	0.1	72	22.2	23.4	6.9	8.4	2.5	2.7	22.7	6.6	8.2	2.4	2.8
	772	62	16.7	19.4	5.7	13.1	3.8	2.7	18.8	5.5	12.7	3.7	2.8
	364	66.2	19	21.7	6.4	11.7	3.4	2.7	21.0	6.2	11.5	3.4	2.9
	0.11	72	22.2	24.0	7.0	9.0	2.6	2.7	23.2	6.8	8.9	2.6	2.8
36K + 36K	645	62	16.7	26.2	7.7	12.5	3.7	4.0	25.1	7.4	12.1	3.6	4.2
	305	66.2	19	28.9	8.5	10.4	3.1	4.1	27.9	8.2	10.2	3.0	4.4
	0.07	72	22.2	31.2	9.2	8.2	2.4	4.1	30.3	8.9	8.0	2.4	4.4
	862	62	16.7	27.3	8.0	16.6	4.9	4.0	26.2	7.7	16.3	4.8	4.2
	407	66.2	19	30.6	9.0	14.1	4.1	4.1	29.7	8.7	13.8	4.0	4.4
	0.08	72	22.2	33.0	9.7	11.1	3.3	4.1	32.0	9.4	10.9	3.2	4.4
	1040	62	16.7	27.7	8.1	17.7	5.2	4.1	26.7	7.8	17.1	5.0	4.4
	491	66.2	19	30.8	9.0	15.4	4.5	4.1	29.7	8.7	15.2	4.4	4.4
	0.11	72	22.2	33.6	9.9	11.9	3.5	4.1	32.6	9.5	11.7	3.4	4.4
42K + 42K	1192	62	16.7	29.2	8.6	22.3	6.5	4.4	28.1	8.2	21.5	6.3	4.7
	563	66.2	19	32.0	9.4	20.4	6.0	4.4	30.9	9.1	20.2	5.9	4.7
	0.1	72	22.2	35.1	10.3	15.5	4.5	4.5	33.8	9.9	15.2	4.5	4.7
	1409	62	16.7	30.0	8.8	22.9	6.7	4.4	28.8	8.4	22.0	6.4	4.7
	665	66.2	19	32.6	9.6	22.5	6.6	4.4	31.6	9.2	22.2	6.5	4.7
	0.12	72	22.2	35.5	10.4	16.7	4.9	4.5	34.2	10.0	16.5	4.8	4.7
	1600	62	16.7	30.3	8.9	23.1	6.8	4.4	30.2	8.8	23.0	6.8	4.7
	755	66.2	19	33.0	9.7	24.3	7.1	4.4	32.0	9.4	23.9	7.0	4.7
	0.13	72	22.2	-	-	-	-	-	-	-	-	-	-
48K + 48K	1192	62	16.7	32.3	9.5	26.3	7.7	4.6	31.0	9.1	25.3	7.4	4.8
	563	66.2	19	35.5	10.4	23.9	7.0	4.8	34.4	10.1	23.6	6.9	5.2
	0.1	72	22.2	-	-	-	-	-	-	-	-	-	-
	1409	62	16.7	33.1	9.7	26.9	7.9	4.6	31.8	9.3	25.9	7.6	4.8
	665	66.2	19	36.5	10.7	26.3	7.7	5.0	35.5	10.4	26.0	7.6	5.3
	0.12	72	22.2	-	-	-	-	-	-	-	-	-	-
	1600	62	16.7	33.7	9.9	27.4	8.0	4.6	32.4	9.5	26.4	7.7	4.9
	755	66.2	19	37.4	11.0	28.3	8.3	5.2	36.4	10.7	28.1	8.2	5.6
	0.13	72	22.2	-	-	-	-	-	-	-	-	-	-
54K + 54K	1499	62	16.7	41.5	12.2	32.8	9.6	6.1	40.1	11.8	31.8	9.3	6.5
	707	66.2	19	45.0	13.2	29.9	8.8	6.2	43.3	12.7	29.4	8.6	6.5
	0.1	72	22.2	49.5	14.5	22.3	6.5	6.4	47.8	14.0	21.9	6.4	6.6
	1752	62	16.7	42.6	12.5	33.7	9.9	6.1	41.1	12.0	32.5	9.5	6.5
	827	66.2	19	45.7	13.4	32.7	9.6	6.2	44.1	12.9	32.2	9.4	6.5
	0.11	72	22.2	50.2	14.7	23.9	7.0	6.4	48.3	14.1	23.4	6.9	6.6
	2070	62	16.7	43.3	12.7	34.3	10.0	6.2	41.8	12.3	33.1	9.7	6.5
	977	66.2	19	46.6	13.6	35.9	10.5	6.2	44.9	13.2	35.4	10.4	6.6
	0.12	72	22.2	50.6	14.8	25.8	7.6	6.4	48.7	14.3	25.3	7.4	6.6
60K + 60K	1476	62	16.7	44.9	13.2	34.7	10.2	7.0	43.4	12.7	33.5	9.8	7.3
	697	66.2	19	49.4	14.5	30.2	8.9	6.9	47.6	14.0	29.8	8.7	7.3
	0.09	72	22.2	55.4	16.2	23.2	6.8	6.8	53.6	15.7	22.7	6.7	7.0
	1753	62	16.7	46.3	13.6	35.8	10.5	7.0	44.7	13.1	34.6	10.1	7.3
	827	66.2	19	50.5	14.8	33.2	9.7	6.9	48.8	14.3	32.7	9.6	7.1
	0.1	72	22.2	57.0	16.7	25.0	7.3	6.6	55.2	16.2	24.6	7.2	7.0
	2080	62	16.7	47.6	14.0	36.8	10.8	6.9	46.0	13.5	35.5	10.4	7.3
	982	66.2	19	51.7	15.1	36.6	10.7	6.9	49.9	14.6	36.1	10.6	7.1
	0.11	72	22.2	58.3	17.1	27.1	7.9	6.6	-	-	-	-	-

Table 5

- 6. Total Cooling Capacity in Mbh (1000 Btuh).
- Sensible Cooling Capacity in Mbh (1000 Btuh).
- PI - Power input in kW (compressor only).

To convert Mbh to kW, divide by 3.412. / To convert cfm to L/s, divide by 2.12.

* Power input mentioned in this page should not be used for cable or fuse selection.

MCA and MFA values given in the electrical data (page 16) should be referred for the same.



RXVPG + DDPPG-V	AFR cfm l/s (BPF)	EWB		Condenser Entering Air Temperature									
				120°F (48.9°C)			125°F (51.7°C)						
				Total Capacity		Sensible Capacity	PI	Total Capacity		Sensible Capacity	PI		
				MBh	kW	MBh	kW	kW	MBh	kW	MBh	kW	kW
18K + 18K	421	63	17.2	16.2	4.7	11.7	3.4	1.9	15.6	4.6	11.5	3.4	2.0
	199	67	19.4	17.4	5.1	9.9	2.9	1.9	16.9	4.9	9.7	2.8	2.0
	0.08	72	22.2	18.8	5.5	7.6	2.2	1.9	18.2	5.3	7.4	2.2	1.9
	584	63	17.2	16.9	5.0	13.7	4.0	1.9	16.2	4.8	13.4	3.9	2.0
	276	67	19.4	18.6	5.4	11.4	3.3	1.9	17.9	5.3	11.2	3.3	2.0
	0.11	72	22.2	20.0	5.9	8.3	2.4	1.8	19.3	5.7	8.1	2.4	1.9
	800	63	17.2	17.6	5.2	16.1	4.7	1.9	16.9	5.0	15.8	4.6	2.0
	378	67	19.4	19.2	5.6	13.1	3.8	1.8	18.4	5.4	12.8	3.8	1.9
0.13	72	22.2	20.8	6.1	9.1	2.7	1.7	20.1	5.9	8.9	2.6	1.8	
24K + 24K	534	63	17.2	16.7	4.9	13.1	3.8	1.9	16.1	4.7	12.8	3.8	2.0
	252	67	19.4	18.3	5.4	11.0	3.2	1.9	17.7	5.2	10.7	3.1	2.0
	0.1	72	22.2	19.7	5.8	8.1	2.4	1.8	19.0	5.6	7.9	2.3	1.9
	653	63	17.2	17.1	5.0	14.4	4.2	1.9	16.5	4.8	14.2	4.2	2.0
	308	67	19.4	18.9	5.5	12.0	3.5	1.9	18.1	5.3	11.7	3.4	2.0
	0.11	72	22.2	20.3	6.0	8.6	2.5	1.8	19.6	5.7	8.3	2.4	1.8
	700	63	17.2	17.3	5.1	15.0	4.4	1.9	16.6	4.9	14.7	4.3	2.0
	330	67	19.4	19.0	5.6	12.3	3.6	1.9	18.2	5.3	12.1	3.5	1.9
0.12	72	22.2	20.5	6.0	8.7	2.6	1.8	19.8	5.8	8.5	2.5	1.8	
30K + 30K	536	63	17.2	18.4	5.4	13.9	4.1	2.1	17.7	5.2	13.6	4.0	2.2
	253	67	19.4	20.0	5.9	11.7	3.4	2.1	19.4	5.7	11.5	3.4	2.3
	0.09	72	22.2	21.6	6.3	8.8	2.6	2.1	21.0	6.2	8.6	2.5	2.3
	656	63	17.2	18.8	5.5	15.3	4.5	2.1	18.1	5.3	15.1	4.4	2.2
	310	67	19.4	20.8	6.1	12.8	3.8	2.1	20.1	5.9	12.6	3.7	2.3
	0.1	72	22.2	22.4	6.6	9.3	2.7	2.1	21.7	6.4	9.1	2.7	2.2
	772	63	17.2	19.2	5.6	16.7	4.9	2.1	18.6	5.4	16.4	4.8	2.2
	364	67	19.4	21.1	6.2	13.7	4.0	2.1	20.4	6.0	13.5	3.9	2.3
0.11	72	22.2	23.0	6.7	9.8	2.9	2.1	22.2	6.5	9.6	2.8	2.2	
36K + 36K	645	63	17.2	25.3	7.4	18.1	5.3	2.3	24.5	7.2	17.7	5.2	2.3
	305	67	19.4	27.2	8.0	15.5	4.5	2.3	26.3	7.7	15.1	4.4	2.3
	0.07	72	22.2	29.4	8.6	12.1	3.5	2.3	28.4	8.3	11.6	3.4	2.3
	862	63	17.2	27.0	7.9	20.8	6.1	2.3	25.9	7.6	20.4	6.0	2.3
	407	67	19.4	28.8	8.5	17.6	5.2	2.3	28.0	8.2	17.1	5.0	2.3
	0.08	72	22.2	31.1	9.1	13.4	3.9	2.3	30.1	8.8	12.9	3.8	2.3
	1040	63	17.2	26.9	7.9	22.9	6.7	3.2	26.0	7.6	22.5	6.6	3.4
	491	67	19.4	29.5	8.7	18.9	5.5	3.2	28.4	8.3	18.5	5.4	3.4
0.11	72	22.2	31.7	9.3	13.5	3.9	3.2	30.7	9.0	13.1	3.8	3.4	
42K + 42K	1192	63	17.2	28.1	8.2	25.3	7.4	3.2	27.1	7.9	25.0	7.3	3.4
	563	67	19.4	30.3	8.9	20.5	6.0	3.2	29.2	8.6	20.1	5.9	3.4
	0.1	72	22.2	33.0	9.7	14.4	4.2	3.3	32.0	9.4	14.1	4.1	3.4
	1409	63	17.2	28.6	8.4	27.9	8.2	3.2	27.6	8.1	27.5	8.1	3.4
	665	67	19.4	30.8	9.0	22.3	6.5	3.2	29.7	8.7	21.9	6.4	3.4
	0.12	72	22.2	-	-	-	-	-	-	-	-	-	-
	1600	63	17.2	29.0	8.5	29.0	8.5	3.2	28.0	8.2	28.0	8.2	3.4
	755	67	19.4	31.2	9.1	23.7	7.0	3.2	30.1	8.8	23.3	6.8	3.4
0.13	72	22.2	-	-	-	-	-	-	-	-	-	-	
48K + 48K	1192	63	17.2	32.5	9.5	27.1	7.9	3.4	31.2	9.1	26.6	7.8	3.5
	563	67	19.4	36.6	10.7	22.8	6.7	3.8	35.7	10.5	22.5	6.6	4.1
	0.1	72	22.2	-	-	-	-	-	-	-	-	-	-
	1409	63	17.2	33.2	9.7	29.6	8.7	3.4	32.0	9.4	29.2	8.5	3.6
	665	67	19.4	-	-	-	-	-	-	-	-	-	-
	0.12	72	22.2	-	-	-	-	-	-	-	-	-	-
	1600	63	17.2	33.9	9.9	31.8	9.3	3.4	32.7	9.6	31.4	9.2	3.7
	755	67	19.4	-	-	-	-	-	-	-	-	-	-
0.13	72	22.2	-	-	-	-	-	-	-	-	-	-	
54K + 54K	1499	63	17.2	40.4	11.9	34.0	10.0	4.8	39.0	11.4	33.5	9.8	5.0
	707	67	19.4	43.8	12.8	28.0	8.2	4.8	42.1	12.3	27.4	8.0	5.0
	0.1	72	22.2	46.9	13.7	19.9	5.8	4.9	45.3	13.3	19.4	5.7	5.1
	1752	63	17.2	41.3	12.1	37.0	10.8	4.8	39.8	11.7	36.4	10.7	5.0
	827	67	19.4	44.3	13.0	29.9	8.8	4.8	42.7	12.5	29.3	8.6	5.1
	0.11	72	22.2	47.7	14.0	20.8	6.1	4.9	46.0	13.5	20.3	5.9	5.1
	2070	63	17.2	42.1	12.3	40.6	11.9	4.8	40.5	11.9	40.0	11.7	5.0
	977	67	19.4	44.9	13.2	32.4	9.5	4.8	43.3	12.7	31.8	9.3	5.1
0.12	72	22.2	-	-	-	-	-	-	-	-	-	-	
60K + 60K	1476	63	17.2	44.8	13.1	35.8	10.5	5.5	43.2	12.7	35.2	10.3	5.7
	697	67	19.4	49.4	14.5	30.1	8.8	5.4	47.8	14.0	29.5	8.6	5.6
	0.09	72	22.2	53.4	15.7	22.1	6.5	5.3	51.7	15.2	21.5	6.3	5.5
	1753	63	17.2	45.9	13.5	39.2	11.5	5.4	44.3	13.0	38.6	11.3	5.7
	827	67	19.4	50.4	14.8	32.4	9.5	5.4	48.5	14.2	31.7	9.3	5.6
	0.1	72	22.2	54.9	16.1	23.3	6.8	5.2	53.2	15.6	22.7	6.7	5.5
	2080	63	17.2	47.1	13.8	43.1	12.6	5.4	45.5	13.3	42.4	12.4	5.7
	982	67	19.4	51.2	15.0	35.0	10.2	5.4	49.4	14.5	34.3	10.1	5.6
0.11	72	22.2	56.4	16.5	24.6	7.2	5.2	-	-	-	-	-	

Table 5

- 6. Total Cooling Capacity in Mbh (1000 Btuh).
- Sensible Cooling Capacity in Mbh (1000 Btuh).
- PI - Power input in kW (compressor only).

To convert Mbh to kW, divide by 3.412. / To convert cfm to L/s, divide by 2.12.

* Power input mentioned in this page should not be used for cable or fuse selection.

MCA and MFA values given in the electrical data (page 16) should be referred for the same.

Electrical Data - RXVPG & DDPPG-V

Outdoor Unit

RXVPG	Unit Characteristic		Compressor				Condenser Fan Motor			
	MFA	MCA	Power Supply	QTY	RLA	LRA	Power Supply	QTY	FLA	LRA
18	20	14	220-240V/1Ph/50Hz	1	10	53	220-240V/1Ph/50Hz	1	0.85	2.55
24	20	14		1	10	53		1	0.85	2.55
30	25	15		1	11	60		1	0.85	2.55
36	40	24		1	18	102		1	0.85	2.55
42	40	24		1	18	102		1	0.85	2.55
48	16	12	380-415V/3Ph/50Hz	1	8	55	380-415V/3Ph/50Hz	1	0.87	2.61
54	20	14		1	10	72		1	0.87	2.61
60	25	15		1	11	64		1	0.87	2.61

Table 6

Indoor Unit

DDPPG-V	Unit Characteristic						
	MFA	MCA	Power Supply	Qty	Indoor Fan Motor FLA		
					LOW	MEDIUM	HIGH
18	2	1	220-240V/1Ph/50Hz	1	1.3	0.9	0.8
24	2	2		1	1	1	1
30	2	2		1	1	1	1
36	2	1		1	1.4	1.1	0.8
42	2	2		2	1	1	1
48	2	2		2	1	1	1
54	2	1		2	1.4	1.1	0.8
60	2	2		2	1.1	0.95	0.85

Table 7

Legend

- MFA** Maximum Fuse Amps (for fuse/circuit breaker sizing), complies with NEC Article 440-22 & 430-52.
- MCA** Minimum Circuit Amps.(for wire sizing), complies with NEC article 440-33.
- RLA** Rated Load Amps. (at worst operating condition) .
- LRA** Locked Rotor Amps.
- FLA** Full Load Amps.



Indoor Fan Performance

Speed	Models	UOM	External Static Pressure (inches wg.)			
		In. of WG	0.1	0.2	0.3	0.4
		Pa	25	50	75	100
HIGH	DDPPG-018V	CFM	800	820	835	850
		I/S	378	388	394	401
	DDPPG-024V	CFM	700	669	638	610
		I/S	331	316	302	288
	DDPPG-030V	CFM	772	714	667	615
		I/S	365	337	315	291
	DDPPG-036V	CFM	1067	1005	945	870
		I/S	504	475	446	411
	DDPPG-042V	CFM	1656	1541	1454	1360
		I/S	782	728	687	642
	DDPPG-048V	CFM	1656	1541	1454	1360
		I/S	782	728	687	642
DDPPG-054V	CFM	2183	2070	1913	1734	
	I/S	1031	977	903	819	
DDPPG-060V	CFM	2226	2080	1928	1725	
	I/S	1051	982	910	815	
MEDIUM	DDPPG-018V	CFM	584	573	566	550
		I/S	276	271	268	260
	DDPPG-024V	CFM	653	608	565	518
		I/S	309	287	267	245
	DDPPG-030V	CFM	656	611	568	521
		I/S	310	289	269	246
	DDPPG-036V	CFM	912	812	715	615
		I/S	431	384	338	291
	DDPPG-042V	CFM	1456	1362	1276	1161
		I/S	688	643	603	548
	DDPPG-048V	CFM	1456	1362	1276	1161
		I/S	688	643	603	548
DDPPG-054V	CFM	1804	1752	1640	1481	
	I/S	852	827	774	699	
DDPPG-060V	CFM	1835	1753	1635	1493	
	I/S	866	828	772	705	
LOW	DDPPG-018V	CFM	421	419	406	396
		I/S	199	198	192	187
	DDPPG-024V	CFM	534	509	474	433
		I/S	252	241	224	205
	DDPPG-030V	CFM	536	511	476	435
		I/S	253	242	225	206
	DDPPG-036V	CFM	700	589	469	358
		I/S	331	278	222	169
	DDPPG-042V	CFM	1233	1145	1063	965
		I/S	582	541	502	456
	DDPPG-048V	CFM	1233	1145	1063	965
		I/S	582	541	502	456
DDPPG-054V	CFM	1527	1499	1421	1273	
	I/S	721	708	671	601	
DDPPG-060V	CFM	1514	1476	1407	1292	
	I/S	715	697	664	610	

Table 8

Recommended Suction and Liquid Line Sizes

RXVPG (Condensing Unit)	Recommended Suction And Liquid Line Sizes For Various Length of Run to Evaporator Side- Ft. (m)															
	25 (7.6)		50 (15.2)		75 (22.9)		100 (30.5)		120 (36.6)		140 (42.7)		160 (48.8)		180 (54.9)	
	Suction	Liquid	Suction	Liquid	Suction	Liquid	Suction	Liquid	Suction	Liquid	Suction	Liquid	Suction	Liquid	Suction	Liquid
18	3/4	3/8	3/4	3/8	3/4	3/8	3/4	3/8	3/4	3/8	3/4	3/8	3/4	3/8	3/4	3/8
24	3/4	3/8	3/4	3/8	3/4	3/8	3/4	3/8	3/4	3/8	3/4	3/8	3/4	3/8	3/4	3/8
30	3/4	3/8	3/4	3/8	3/4	3/8	3/4	3/8	3/4	3/8	3/4	3/8	7/8	1/2	7/8	1/2
36	7/8	3/8	7/8	3/8	7/8	3/8	7/8	1/2	7/8	1/2	7/8	1/2	7/8	1/2	7/8	1/2
42	7/8	3/8	7/8	3/8	7/8	1/2	7/8	1/2	7/8	1/2	7/8	1/2	7/8	1/2	7/8	1/2
48	7/8	3/8	7/8	1/2	7/8	1/2	1 1/8	1/2	1 1/8	1/2	1 1/8	1/2	1 1/8	1/2	1 1/8	1/2
54	7/8	3/8	7/8	1/2	7/8	1/2	1 1/8	1/2	1 1/8	1/2	1 1/8	1/2	1 1/8	1/2	1 1/8	1/2
60	7/8	3/8	7/8	1/2	1 1/8	1/2	1 1/8	1/2	1 1/8	1/2	1 1/8	1/2	1 1/8	1/2	1 1/8	1/2

Table 9

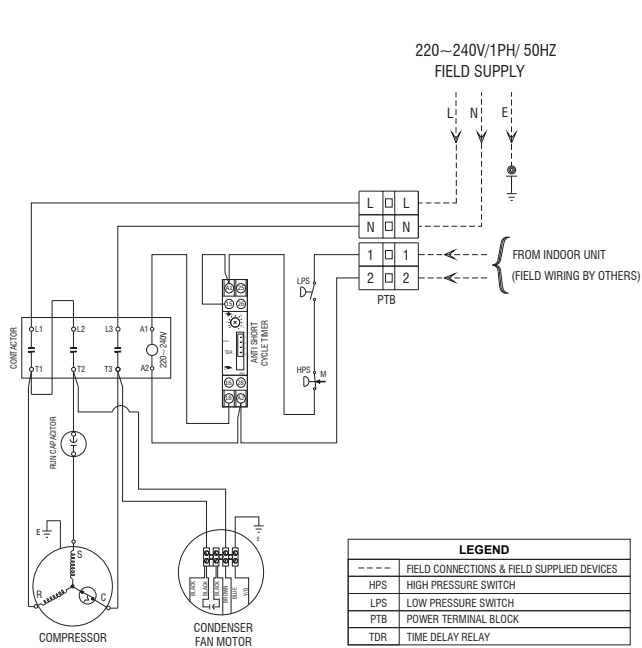
Notes :

1. Pipe diameters are based on equivalent length of copper tubing sizes.
2. Pipe sizes are based on 2°F (1.1°C) or less temperature losses for liquid and suction line in equivalent pipe length.
3. If the condensing unit is below the evaporating unit, the maximum lift should not exceed to 66 feet.
4. Do not exceed 180 feet piping length without checking with SKM.
5. If the condensing unit is above the evaporating unit, the maximum lift should not exceed to 150 feet.
6. Install oil traps in the suction line every 20 feet (6mtr) to enhance oil movement and provide collection of oil during off cycle.
7. Performace data are based on indoor and outdoor units at the same elevation and connected by 25 ft. (7.6 m) of refrigerant tubing. For tubing in excess of 25 feet, slight capacity reduction will occur.
8. These sizes are for guidance only. For detailed proper piping, refer to recognized piping references like ASHRAE Guide and Data Book.

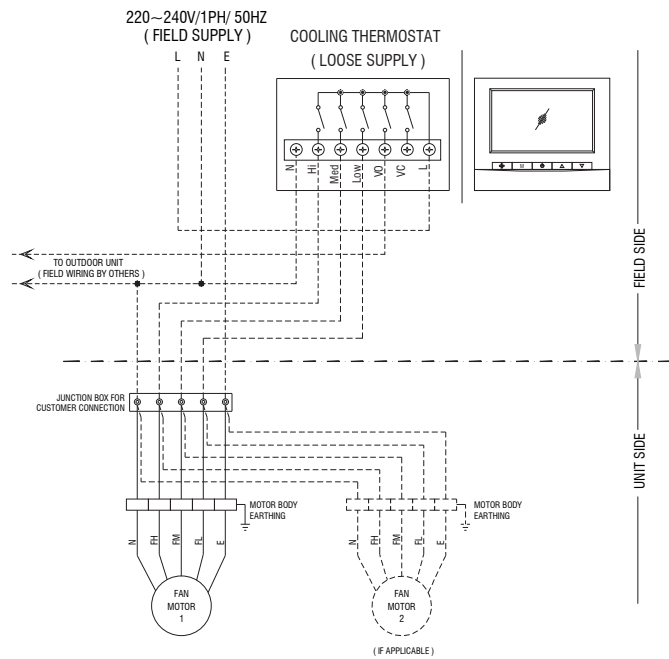
The recommended or required suction and liquid line sizes do not necessarily correspond with the refrigerant connections available on the outdoor or indoor unit. Necessary transformation may be required and it's field performed.



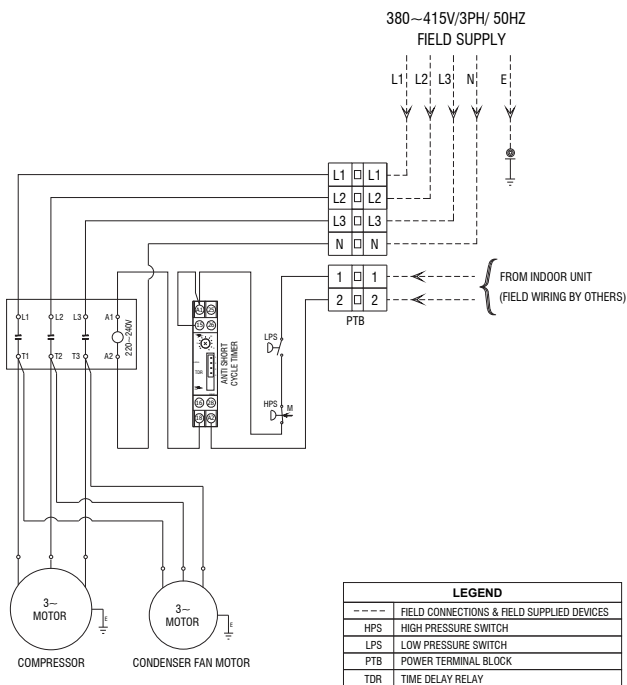
Typical Wiring Diagram - RXVPG & DDPPG-V



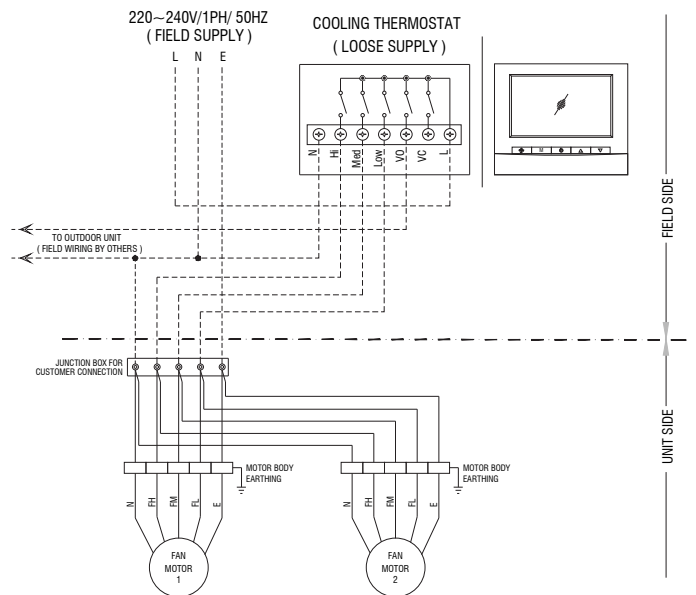
OUTDOOR UNIT (RXVPG - 18, 24, 30, 36 & 42)



INDOOR UNIT (DDPPG-V - 18, 24, 30, 36 & 42)



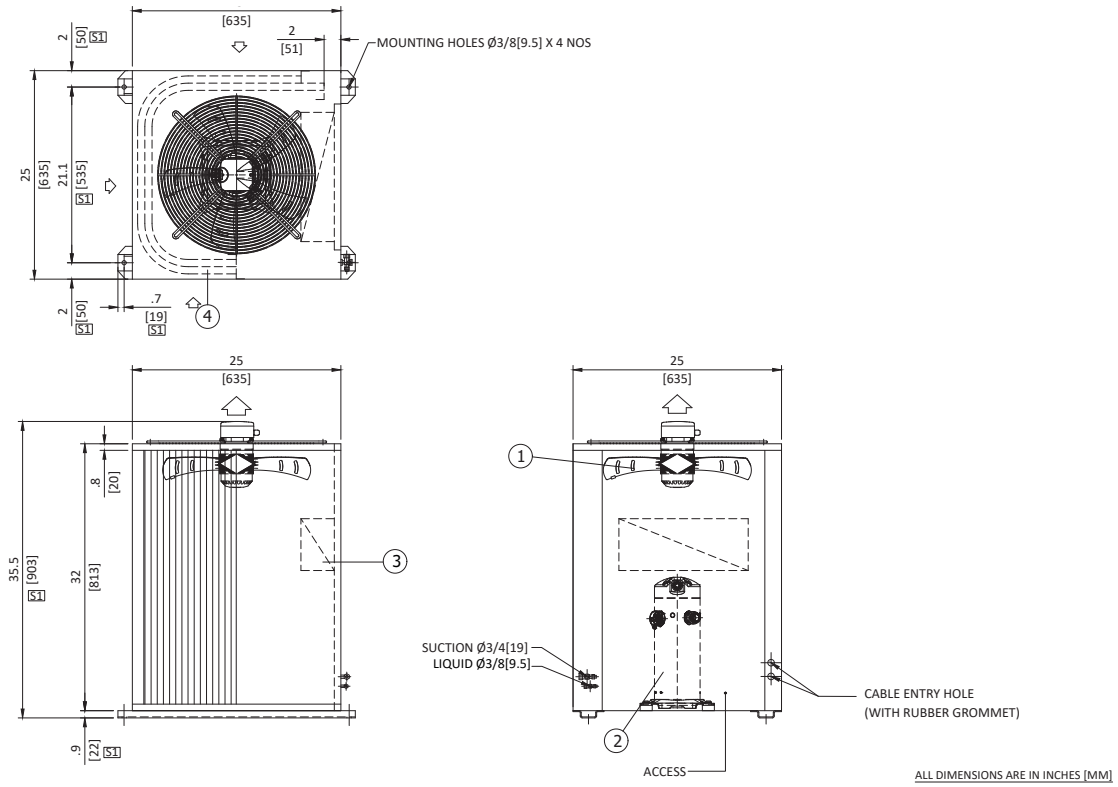
OUTDOOR UNIT (RXVPG - 48, 54 & 60)



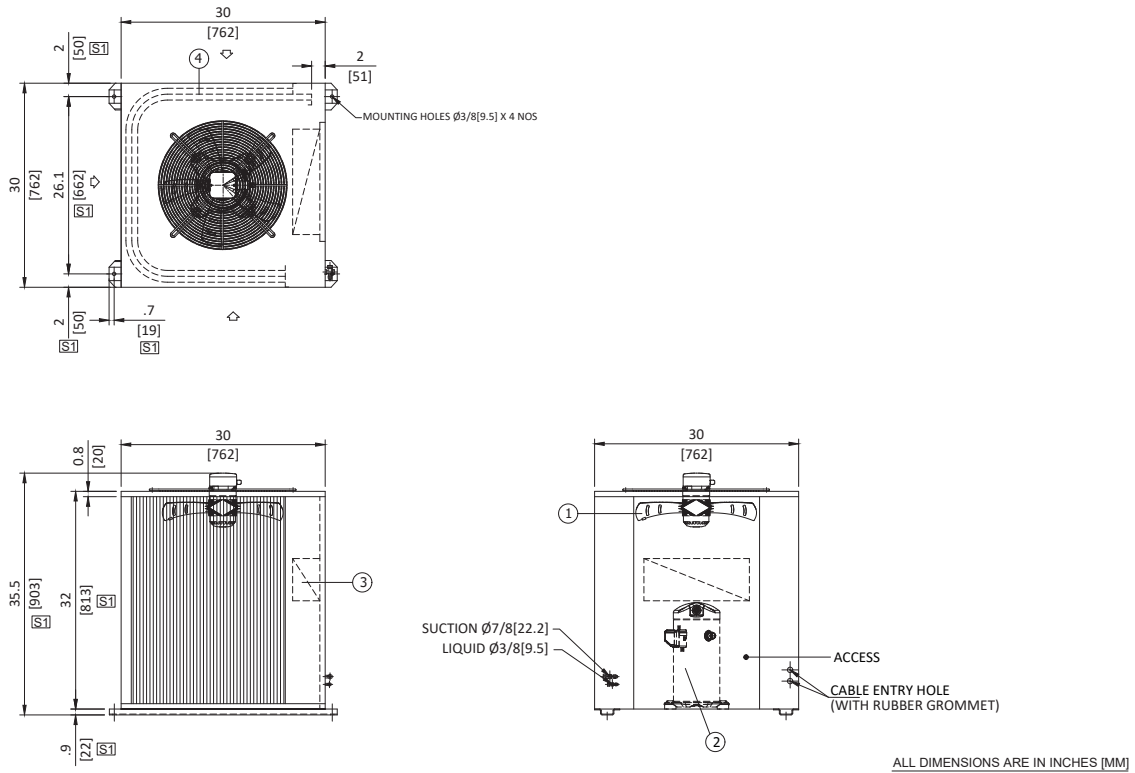
INDOOR UNIT (DDPPG-V - 48,54 & 60)

Dimensional Data

OUTDOOR UNITS - RXVPG Models: 18, 24 & 30



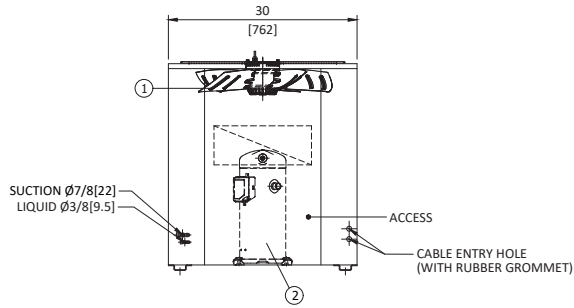
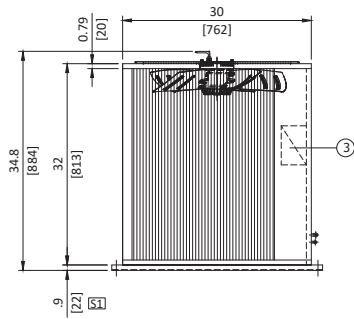
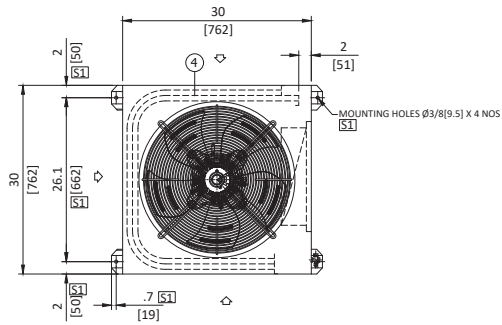
Model: RXVPG Models: 36, 42





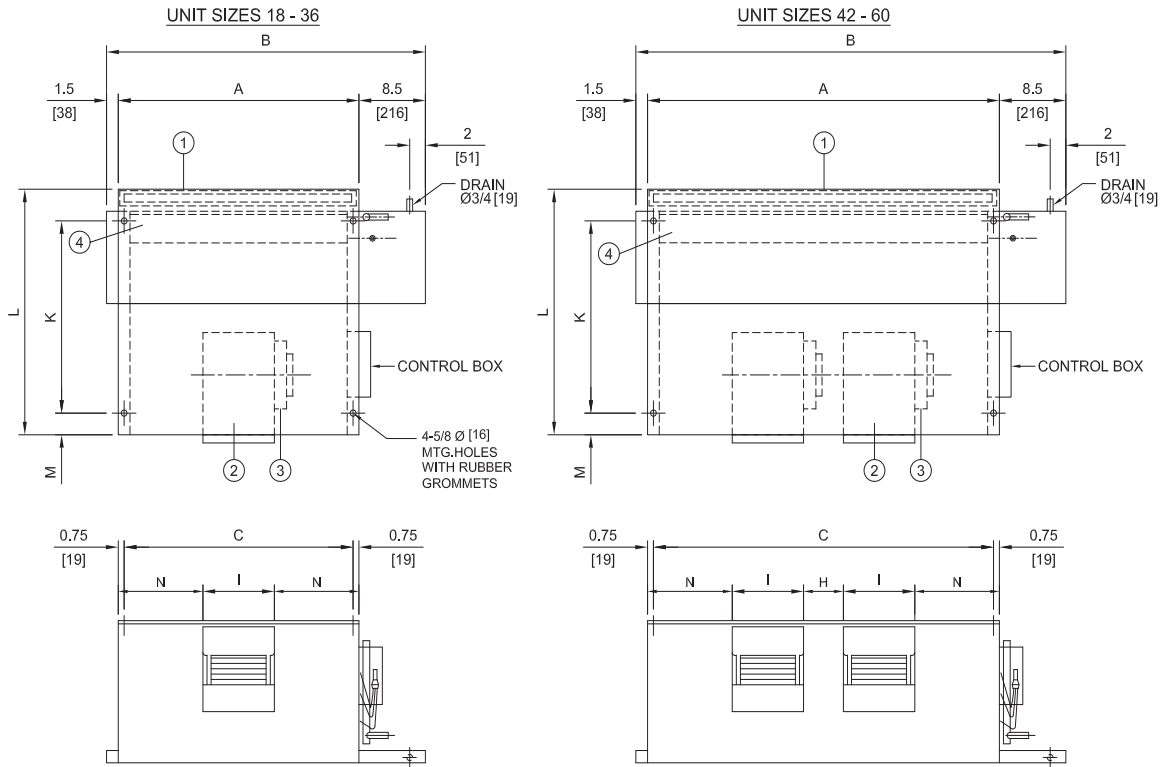
Dimensional Data

OUTDOOR UNITS - RXVPG Models: 48, 54 & 60



ALL DIMENSIONS ARE IN INCHES [MM]

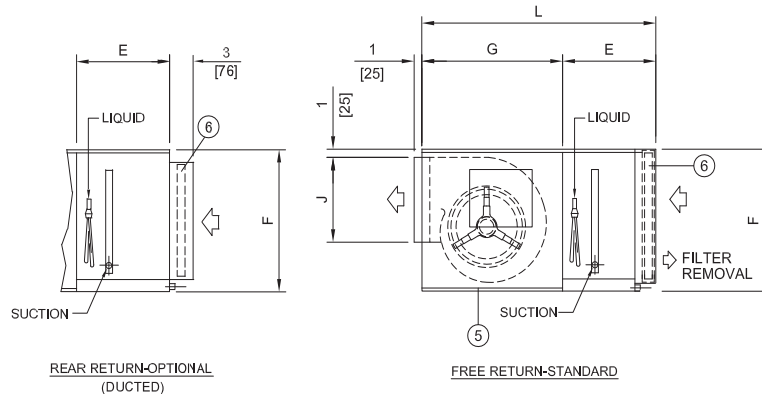
Dimensional Data DDPPG-V INDOOR UNITS



- LEGEND**
- ① INSULATED R.A.PLENUM
 - ② SUPPLY FAN
 - ③ FAN MOTOR
 - ④ COOLING COIL
 - ⑤ ACCESS PANEL
 - ⑥ FILTER

DDPPG-V UNIT MODEL	K		L		M	
	INCH	MM	INCH	MM	INCH	MM
18/24	22.10	561	27.68	703	1.8	46
30	22.10	561	27.68	703	1.8	46
36	26.14	664	29.92	760	1.8	46
42/48	22.10	561	27.68	703	1.8	46
54	26.14	664	29.92	760	1.8	46
60	26.14	664	29.92	760	1.8	46

ALL DIMENSION ARE IN INCHES MM



DDPPG-V UNIT MODEL	A		B		C		F		G		J		I		H		N		CONNECTION SIZES			
																			LIQUID Ø		SUCTION Ø	
	INCH	MM	INCH	MM	INCH	MM	INCH	MM	INCH	MM	INCH	MM	INCH	MM	INCH	MM	INCH	MM	INCH	MM	INCH	MM
18/24	23	584	33	838	21.5	546	15	381	14.8	376	8.22	209	9.13	232	-	-	6.92	176	3/8	10	3/4	19
30	27	686	37	940	25.5	648	15	381	14.8	376	8.22	209	9.13	232	-	-	8.93	227	3/8	10	3/4	19
36	27	686	37	940	25.5	648	18.07	459	17	432	10.34	263	9.13	232	-	-	8.93	227	3/8	10	7/8	22
42/48	45	1143	55	1397	43.5	1105	15	381	14.8	376	8.22	209	9.13	232	11.85	301	7.44	189	3/8	10	7/8	22
54	45	1143	55	1397	43.5	1105	18.07	459	17	432	10.34	263	9.13	232	11.85	301	7.44	189	3/8	10	7/8	22
60	51	1295	61	1549	49.5	1257	18.07	459	17	432	10.34	263	9.13	232	14.87	378	8.93	227	3/8	10	7/8	22

ALL DIMENSION ARE IN INCHES MM



GUIDE SPECIFICATIONS

Ducted split Air Conditioning system shall composed of a compact design indoor fan coil unit and floor or Rooftop mounted outside air cooled condensing unit.

CONDENSING UNIT:

The condensing unit shall be composed of compressor, condenser coil, condenser fan and motor.

CONDENSER COIL

The condenser coil shall be air cooled constructed of high efficiency inner grooved copper tube mechanically expanded into hi-efficiency aluminum fins and tested against leakage by high pressure under water.

COMPRESSOR

- Compressor shall be hermetic scroll type, refrigerant gas cooled, furnished with internal high temperature motor overload protection device.
- Compressor have an internal pressure relief assembly to protect against excessive pressure differential.

CONDENSER FAN

For top discharge air delivery, the fan shall be equipped with statically and dynamically balanced alloy blades, and inherent corrosion resistant shaft. Complete fan assembly is mounted downward on the strong and acrylic coated fan guard.

MOTOR

The motor shall be totally enclosed air over (TEAO) class “F” insulation, IP54 protection

CONTROLS

Condensing unit shall be provided with a control panel enclosure comprising all electrical control devices except for the field supplied room thermostat and shall include the following components as minimum:

- Compressor and condenser fan motor contactor
- Anti recycling time delay relay
- Terminal for external connections.

INDOOR UNIT:

The indoor unit/air handler shall be composed of evaporator coil, fan motor assembly and the metering device.

EVAPORATOR COIL

Evaporator coil shall be constructed of high efficiency copper tubes, mechanically bonded to aluminium fins. The coil consists of headers of seamless copper and flow control distributor.

EVAPORATOR FAN

Fan shall be double inlet, double width, direct driven with centrifugal type wheel. Fan wheel shall be with multi forward curved blades. Fan shall be statically and dynamically balanced. Fan housing and wheel shall be made of galvanized steel sheet.

MOTOR

Motor shall be single phase, 3 speed permanent split capacitor type, suitable for 220-240V/1Ph/50Hz. Highly efficient with integral thermal protection. Motor shall have high power factor and shall be with permanent lubricated sleeve bearings.

CASING

The unit casing shall be made of zinc coated galvanized steel sheets conforming to JIS-G3302 and ASTM-A525 that shall be phosphatized.