

RPM-E Specifications

Pre-Piped Refrigerant Cooling Module



Specifications		RPM-E-50	RPM-E-70	RPM-E-100
Matching Fan Coil		HE-Z/HE-B/HE-50/51 HV-50/51/52 LV-50	HE-Z/HE-B/HE/HV-70/71 LV-70	HE-Z/HE-B/HE/HV-100/101
Part Number		20090200050	20090200070	20090200100
Tons ⁽¹⁾		1.5 - 2.0 (5.3 - 7.0 kW)	2.5 - 3.0 (8.8 - 10.6 kW)	3.5 - 5.0 (12.3 - 17.6 kW)
Refrigerant Type		R-410A	R-410A	R-410A
TX Cooling MBH ⁽²⁾		18-24 (5.3-7.0 kW)	30-36 (8.8-10.6 kW)	42-60 (12.3-17.6 kW)
Latent Cooling MBH		6.8-8.9 (2.0-2.6 kW)	11.7-13.7 (3.4-4.0 kW)	16.0-22.2 (4.7-6.5 kW)
Fin Material		Aluminum	Aluminum	Aluminum
Tubing Material		Copper	Copper	Copper
Type of Fins		.006 Al (0.1524mm)	.006 Al (0.1524mm)	.006 Al (0.1524mm)
Hydronic Connection Sizes	Liquid Line (Lq)	3/8" (9.5mm)	3/8" (9.5mm)	3/8" (9.5mm)
	Suction Line (S)	7/8" (22.3mm)	7/8" (22.3mm)	7/8" (22.3mm)
	Drain Connection	3/4" (19mm)	3/4" (19mm)	3/4" (19mm)
TXV with Built in Check Valve & Bypass		Yes	Yes	Yes
Site Glass		Yes	Yes	Yes
Access Ports		Yes	Yes	Yes
Freeze Stat		Yes	Yes	Yes
Shipping Weight		48 lbs (22kg)	59 lbs (27kg)	74 lbs (34kg)
Module Size (L x W x H)		19 1/4" x 14 5/8" x 18 1/2" (489mm x 371mm x 470mm)	24 1/4" x 14 5/8" x 18 1/2" (616mm x 371mm x 470mm)	32" x 14 5/8" x 18 1/2" (813mm x 371mm x 470mm)

(1) Minimum of **eight 2" outlets** per ton of cooling needed. (HE Duct = Minimum **four outlets** per ton)
 (2) Smaller condensers may be matched to the fan coil when needed (match TXV to condenser size)

MBH - Thousand British Thermal Units per Hour
 TX - Thermal Expansion
 TXV - Thermal Expansion Valve

Multiple Access Coils:

Can be used with a fan coil installed in any position. With our pre-fabricated knock outs, select the desired position and within minutes it is ready for installation.

Comes Pre-Piped:

The TXV (Thermal Expansion Valve), site glass, access ports and external freeze stat are already installed. The liquid and suction lines have male solder connections at a standard width making connections to the condenser lines quick and easy.

RPM-E Refrigerant Modules come with:

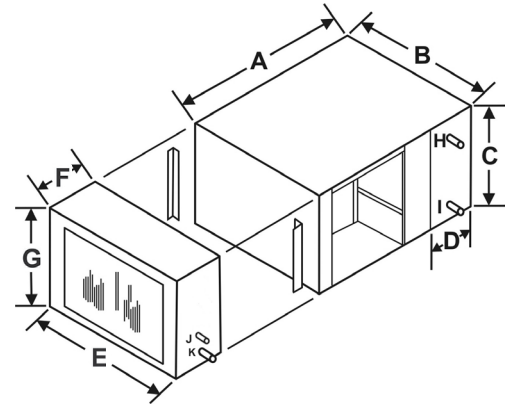
- Integrated Heat Pump Ready TX Valve, with Built-In Check Valve
- Integrated Access Ports
- Integrated Site Glass
- Integrated Freeze Stat
- Two L Mounting Brackets
- Drain Pan

Quick Sizing Guide

ALL UNITS

Item	Length	Width	Height
Hi-Velocity Fan Coils	A	B	C
HE-Z/HE-B/HE/HV-50/51	32 ⁵ / ₁₆ " (821mm)	14 ¹ / ₂ " (368mm)	18 ¹ / ₄ " (464mm)
HE-Z/HE-B/HE/HV-70/71	32 ⁵ / ₁₆ " (821mm)	19 ¹ / ₂ " (495mm)	18 ¹ / ₄ " (464mm)
HE-Z/HE-B/HE/HV-100/101	32 ⁵ / ₁₆ " (821mm)	25 ¹ / ₂ " (648mm)	18 ¹ / ₄ " (464mm)

Lo-Velocity Fan Coils	A	B	C
JH-15/30	22" (559mm)	14" (356mm)	12" (304mm)
LV-50	32 ⁵ / ₁₆ " (821mm)	14 ¹ / ₂ " (368mm)	18 ¹ / ₄ " (464mm)
LV-Z-1050, LV-70	32 ⁵ / ₁₆ " (821mm)	19 ¹ / ₂ " (495mm)	18 ¹ / ₄ " (464mm)
LV-120/140	32 ⁵ / ₁₆ " (821mm)	25 ¹ / ₂ " (648mm)	18 ¹ / ₄ " (464mm)
LV-Z-1750	38 ³ / ₄ " (984mm)	26 ³ / ₄ " (679mm)	24 ¹ / ₄ " (616mm)



		Length	Width	Height	Line Size	Line Size
RPM-E Refrigerant Modules - Pre-Piped		E	F	G	J	K
RPM-E-50	Fits HE-Z/HE-B/HE/HV-50/51/52, LV-50 (1.5 - 2 Ton)	19 ¹ / ₄ " (489mm)	14 ⁵ / ₈ " (371mm)	18 ¹ / ₂ " (470mm)	3/8" (9.5mm)	7/8" (22mm)
RPM-E-70	Fits HE-Z/HE-B/HE/HV-70/71, LV-70 (2.5 - 3 Ton)	24 ¹ / ₄ " (616mm)	14 ⁵ / ₈ " (371mm)	18 ¹ / ₂ " (470mm)	3/8" (9.5mm)	7/8" (22mm)
RPM-E-100	Fits HE-Z/HE-B/HE/HV-100/101 (3.5 - 5 Ton)	32" (813mm)	14 ⁵ / ₈ " (371mm)	18 ¹ / ₂ " (470mm)	3/8" (9.5mm)	7/8" (22mm)

		E	F	G	J	K
RCM Refrigerant Modules						
RCM-50	Fits HE-Z/HE-B/HE/HV-50/51/52, LV-50 (1.5 - 2 Ton)	14 ³ / ₈ " (365mm)	10 ¹ / ₈ " (257mm)	18 ¹ / ₂ " (470mm)	1/2" (13mm)	7/8" (22mm)
RCM-70	Fits HE-Z/HE-B/HE/HV-70/71, LV-70 (2.5 - 3 Ton)	19 ³ / ₈ " (492mm)	10 ¹ / ₈ " (257mm)	18 ¹ / ₂ " (470mm)	1/2" (13mm)	7/8" (22mm)
RCM-100	Fits HE-Z/HE-B/HE/HV-100/101 (3.5 - 5 Ton)	25 ³ / ₈ " (645mm)	10 ¹ / ₈ " (257mm)	18 ¹ / ₂ " (470mm)	1/2" (13mm)	7/8" (22mm)

		E	F	G	H	I
Water Cooling Modules						
WCM-50	Fits HE-Z/HE-B/HE/HV-50/51/52, LV-50	14 ³ / ₈ " (365mm)	10 ¹ / ₈ " (257mm)	18 ¹ / ₂ " (470mm)	3/4" (19mm)	3/4" (19mm)
WCM-70	Fits HE-Z/HE-B/HE/HV-70/71, LV-70, LV-Z/LV-E-1050	19 ³ / ₈ " (492mm)	10 ¹ / ₈ " (257mm)	18 ¹ / ₂ " (470mm)	3/4" (19mm)	3/4" (19mm)
WCM-100	Fits HE-Z/HE-B/HE/HV-100/101, LV-120/140, LV-Z/LV-E-1050	25 ³ / ₈ " (645mm)	10 ¹ / ₈ " (257mm)	18 ¹ / ₂ " (470mm)	3/4" (19mm)	3/4" (19mm)
WM-1750	Fits LV-Z/LV-E-1750	26 ¹ / ₄ " (667mm)	8 ¹ / ₄ " (209mm)	22 ⁵ / ₈ " (575mm)	1" (25mm)	1" (25mm)

		B	D	C	H	I
Hot Water Coils (6 Row)						
JH 15/30	Fits JH-15, JH-30	13 ¹ / ₂ " (343mm)	3 ³ / ₈ " (85mm)	12 ¹ / ₂ " (317mm)	3/8" (9.5mm)	3/8" (9.5mm)
HWC-50	Fits HE-Z/HE-B/HE/HV-50/51, LV-50	13 ¹ / ₂ " (343mm)	5 ¹ / ₂ " (140mm)	16" (406mm)	3/4" (19mm)	3/4" (19mm)
HWC-70	Fits HE-Z/HE-B/HE/HV-70/71, LV-70, LV-Z/LV-E-1050	19" (483mm)	5 ¹ / ₂ " (140mm)	16" (406mm)	3/4" (19mm)	3/4" (19mm)
HWC-100	Fits HE-Z/HE-B/HE/HV-100/101, LV-120/140	25" (635mm)	5 ¹ / ₂ " (140mm)	16" (406mm)	3/4" (19mm)	3/4" (19mm)
HWC-1750	Fits LV-Z/LV-E-1750	26" (660mm)	6" (152mm)	22" (559mm)	1" (25mm)	1" (25mm)

Heating Coil Add-on does not come as a module, it slides into the Hi-Velocity fan coil

		B	D	C
Electrical Strip Heater				
HV-650 (5-15 kW)	Fits HE-Z/HE-B/HE/HV-50/51 BU, LV-50 BU	13 ³ / ₄ " (349mm)	5 ⁵ / ₈ " (143mm)	15 ¹ / ₂ " (394mm)
HV-750 (5-18 kW)	Fits HE-Z/HE-B/HE/HV-70/71, LV-70, LV-Z/LV-E-1050	18 ³ / ₄ " (476mm)	5 ⁵ / ₈ " (143mm)	15 ¹ / ₂ " (394mm)
HV-1100 (10-23 kW)	Fits HE-Z/HE-B/HE/HV-100/101 BU, LV-120/140 BU	24 ³ / ₄ " (629mm)	5 ⁵ / ₈ " (143mm)	15 ¹ / ₂ " (394mm)

Dimensions for the ESH do not include the electrical access panel, add 4" to ESH for Total Length

		E	F	G
Hi-Velocity Air Purification System				
HE PS w/ Merv 13 Filt.	Fits All 50/51/70/71/100/101/120/140/1050 Units	25" (635mm)	10" (254mm)	17" (457mm)
HE PS-1750 w/ Merv 13	Fits LV-Z/LV-E-1750	25" (635mm)	10" (254mm)	21" (533mm)

		E	F	G
Standard Filter Rack				
FR-50 Filter Rack	Fits HE-Z/HE-B/HE/HV-50/51, LV-50	14 ¹ / ₂ " (368mm)	3" (75mm)	18 ¹ / ₂ " (470mm)
FR-70 Filter Rack	Fits HE-Z/HE-B/HE/HV-70/71, LV-70, LV-Z/LV-E-1050	19 ¹ / ₂ " (495mm)	3" (75mm)	18 ¹ / ₂ " (470mm)
FR-100 Filter Rack	Fits HE-Z/HE-B/HE/HV-100/101, LV-120/140	26" (660mm)	3" (75mm)	18 ¹ / ₂ " (470mm)
FR-1750 Filter Rack	Fits LV-Z/LV-E-1750, HV-140	26 ¹ / ₂ " (673mm)	3" (75mm)	24 ¹ / ₂ " (622mm)

		E	F	G
Standard 1" Filter Replacements				
FR/RA-50 Filter	Fits FR-50 Filter Rack	14" (356mm)	1" (25mm)	18" (457mm)
FR/RA-70 Filter	Fits FR-70 Filter Rack	18" (457mm)	1" (25mm)	18" (457mm)
FR/R-100 Filter	Fits FR-100 Filter Rack	24" (610mm)	1" (25mm)	18" (457mm)
FR/RA-140 Filter	Fits FR-1750 Filter Rack	26" (660mm)	1" (25mm)	24" (610mm)
JH-15/30 Filter	Fits JH-15/30 Fan Coil	10 ¹ / ₂ " (267mm)	1" (25mm)	11" (280mm)

		B	A	C
Return Air Base				
RA-50	Fits HE-Z/HE-B/HE/HV-50/51, LV-50	14 ¹ / ₂ " (368mm)	22 ¹ / ₂ " (572mm)	18 ¹ / ₂ " (470mm)
RA-70	Fits HE-Z/HE-B/HE/HV-70/71, LV-70, LV-Z/LV-E-1050	19 ¹ / ₂ " (495mm)	22 ¹ / ₂ " (572mm)	18 ¹ / ₂ " (470mm)
RA-100	Fits HE-Z/HE-B/HE/HV-100/101, LV-120/140	25 ¹ / ₂ " (648mm)	22 ¹ / ₂ " (572mm)	18 ¹ / ₂ " (470mm)
RA-1750	Fits LV-Z/LV-E-1750	26 ¹ / ₂ " (673mm)	24" (610mm)	24 ¹ / ₂ " (622mm)