DVM S Heat Recovery High Efficiency

Specifications

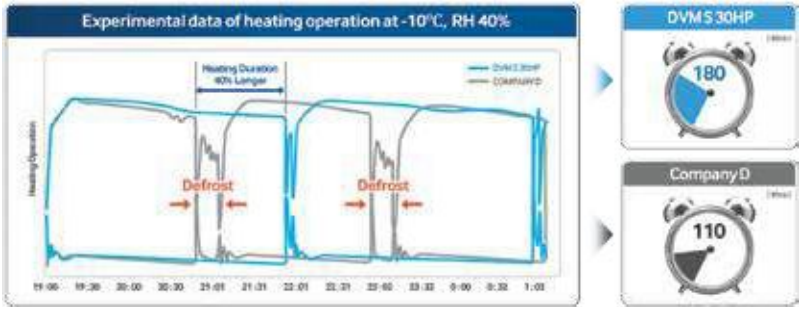


Model Name				AM080JXVHGR	AM100JXVHGR	AM120JXVHGR	AM140JXVHGR	AM160JXVHGR
Power Supply			Φ, ⌗, V, Hz	3,4,380-415,50				
Mode			-	HEAT RECOVERY				
Performance	HP		HP	8.00	10.00	12.00	14.00	16.00
	Capacity (Nominal)	Cooling	kW	22.40	28.00	33.60	40.0	45.0
		Heating		25.20	31.50	37.80	45.0	50.4
	ESEER			7.85	7.25	7.03	7.02	6.81
	EER			4.48	4.09	4.12	3.66	3.72
	COP			4.94	4.74	4.71	4.43	4.34
Power	Power Input (Nominal)	Cooling [1]	kW	5.00	6.85	8.16	10.93	12.10
		Heating [2]		5.10	6.65	8.03	10.16	11.61
	Max. Current		A	18	21.1	25	25.0	32.0
	Fuse Rating			30		40	32	40
Fan	Air Flow Rate		CMM	170		220	255	
			l/s	2,833		3,667	4,250	
	External Static Pressure	Max.	mmAq	8.00				
			Pa	78.45				
Piping Connections	Liquid Pipe		Φ, inch	3/8		1/2		
	Gas Pipe			3/4	7/8	1 1/8		
	Discharge Gas Pipe			5/8	5/8	3/4	7/8	7/8
	Installation Limitation	Max. Length	m	200 (220)				
		Max. Height		110 (40)				
Refrigerant	R410A (GWP=2088)		(tC02e)	11.48		13.57	16.08	19.63
	Factory Charging		kg	5.50		6.5	7.7	9.4
Sound [3]	Sound Pressure		dB(A)	57	58	62	61	62
	Sound Power			77	79	81	81	82
External Dimension	Net Weight		kg	201			254	285
	Net Dimensions (WxHxD)		mm	880 x 1,695 x 765			1295 x 1695 x 765	1295 x 1695 x 765
Operating Temp. Range	Cooling		°C	-15.0~48				
	Heating			-25.0 ~ 24.0				

These products contain Fluorinated greenhouse gas R410A (GWP=2088).

Intelligent defrost

DVM S features new frost detection that provides continuous heating time and improved efficiency. The system considers not only conventional factors but also air resistance of the fans to intelligently judge the defrost operation. More precise defrost judgment avoids unnecessary defrosting thanks to the partial load and lower ambient temperature operation. Ultimately, users can enjoy less energy waste and more continuous heating time.



If outdoor unit is located in a higher position than indoor unit, level difference is 110m or under. (If the level difference is higher than 50m, make a decision simulating by PDM kit installation Guide software whether the PDM kit should be installed or not.) *PDM kit: Pressure Drop Modulation kit

1) Nominal cooling capacities are based on; Indoor temperature : 27°C DB, 19°C WB / Outdoor temperature : 35°C DB, Equivalent refrigerant piping : 7.5m , Level differences : 0m

2) Nominal heating capacities are based on; Indoor temperature : 20°C DB, 15°C WB / Outdoor temperature : 7°C DB, 6°C WB, Equivalent refrigerant piping : 7.5m, Level differences : 0m"

3) Sound level was acquired in an anechoic room. Thus actual noise level may be different depending on the installation conditions.



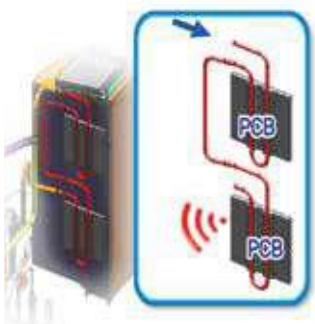


	AM180JXVHGR	AM200JXVHGR	AM220JXVHGR	AM240MXVGNR	AM260MXVGNR	AM280MXVGNR	AM300MXVANR
	3,4,380-415,50						
	HEAT RECOVERY						
	18.00	20.00	22.00	24.00	26.00	28.00	30.00
	50.4	56.0	61.6	67.2	72.8	78.6	84.0
	56.7	63.0	69.3	75.6	81.9	88.2	94.5
	6.61	6.56	6.25	7.18	6.92	6.83	6.65
	4.00	3.95	3.55	4.20	3.85	3.80	3.70
	4.76	4.53	4.15	4.90	4.55	4.37	4.59
	12.60	14.18	17.35	16.00	18.91	20.68	22.70
	11.91	13.91	16.70	15.43	18.00	20.18	20.59
	39.2	42.0	44.6	55.0	60.0	67.0	73.0
	50	63			75		
	290			340			
	4833			5667			
	8.00						
	78.45						
	5/8				3/4		
	7/8	1 1/8	1 1/8	1 1/8	1 1/8	1 1/8	1 1/8
	200 (220)						
	110 (40)						
	19.63	22.97		29.23			
	9.4	11		14.0		14.0	14.0
	63	64	65	69			
	85	86	88	90			
	302	314	314	350	358		
	1295 x 1695 x 765					1295 x 1795 x 765	1295 x 1795 x 765
	-15.0 ~ 48.0						
	-25.0 ~ 24.0						

PCB Refrigerant Cooling System

By utilising a small amount of refrigerant to cool the PCBs, DVM S ensures better stability than conventional air cooling.

DVM S
Refrigerant Cooling Method



Conventional
Air Cooling Method

