

2. Specification

Outdoor unit

Type				DVM S Eco	DVM S Eco
Model Name				AM040KXMDEH/TK	AM050KXMDEH/TK
Power Supply			Φ, #, V, Hz	1, 2, 220-240, 50	1, 2, 220-240, 50
Mode			-	HEAT PUMP	HEAT PUMP
Performance	HP		HP	4	5
	Capacity	Cooling	kW	12.1	14.0
			Btu/h	41,200	48,000
		Heating	kW	12.1	14.0
			Btu/h	41,200	48,000
Maximum number of connectable indoor units			ea	6	8
Power	Total capacity of the connected Indoor Units	Min.	kW	5.6	7.0
		Max.	kW	14.5	18.2
	Power Input	Cooling ¹⁾	kW	3.6	4.0
		Heating ²⁾		2.9	3.4
	Current Input	Cooling ¹⁾	A	17.5	19.5
		Heating ²⁾		14.0	16.5
	Current	Minimum Ssc value	MVA	-	-
MCA		A	24	27	
MFA		A	32	40	
COP	Cooling ¹⁾		W/W	3.36	3.50
	Heating ²⁾		W/W	4.17	4.12
	ESEER		W/W	7.25	6.71
Casing	Material	Cabinet	-	EGI steel plate	EGI steel plate
		Base	-	GI steel plate	GI steel plate
Heat exchanger	Type		-	Fin & Tube	Fin & Tube
	Material	Fin	-	Al	Al
		Tube	-	Cu	Cu
	Fin Treatment		-	Anti-corrosion	Anti-corrosion
Compressor	Type		-	Twin BLDC Rotary	Twin BLDC Rotary
	Output		kW × n	4.12	4.12
	Model Name		-	UG5T450FUEJX	UG5T450FUEJX
	Oil	Type	-	PVE	PVE
		Initial Charge	cc	1,700	1,700
Fan	Type		-	Propeller	Propeller
	Discharge direction		-	Horizontal	Horizontal
	Quantity		ea	1	1
	Air Flow Rate		m ³ /min	64	70
			l/s	1,067	1,167
	External Static Pressure	Max.	mmAq	3	3
Pa			29.4	29.4	
Fan Motor	Model		-	BLDC Motor	BLDC Motor
	Output x n		W	125 x 1	139 x 1

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Type				DVM S Eco	DVM S Eco	
Model Name				AM040KXMDEH/TK	AM050KXMDEH/TK	
Piping Connections	Liquid Pipe	Type		Braze connection	Braze connection	
		Φ, mm		9.52	9.52	
		Φ, inch		3/8"	3/8"	
	Gas Pipe	Type		Braze connection	Braze connection	
		Φ, mm		15.88	15.88	
		Φ, inch		5/8"	5/8"	
	Discharge Gas Pipe	Φ, mm		-	-	
		Φ, inch		-	-	
	Heat insulation			-	Both liquid and gas pipes	Both liquid and gas pipes
	Piping length (ODU-IDU)	Max. [Equiv.]	m	50 (65)	50 (65)	
	Piping length (1st Branch-IDU)	Max.	m	40	40	
	Total piping length (System)	Max.	m	150	150	
	Level difference (ODU in highest position)	Max.	m	30	30	
Level difference (IDU in highest position)	Max.	m	25	25		
Level difference (IDU-IDU)	Max.	m	15	15		
Wiring connections ³⁾	Communication	Minimum	mm ²	0.75	0.75	
		Remark		-	F1,F2	F1,F2
Refrigerant	Type			R410A	R410A	
	Factory Charging		kg	2.0	2.5	
Sound ⁴⁾	Sound Pressure	Cooling	dB(A)	52	55	
		Heating		54	57	
	Sound Power			73	75	
External Dimension	Net Weight		kg	79.0	83.5	
	Shipping Weight		kg	84.5	89.0	
	Net Dimensions (WxHxD)		mm	940 x 998 x 330	940 x 998 x 330	
	Shipping Dimensions (WxHxD)		mm	1009 x 1124 x 419	1009 x 1124 x 419	
Operating Temp. Range	Cooling		°C	-5.0 ~ 48.0	-5.0 ~ 48.0	
	Heating		°C	-20.0 ~ 24.0	-20.0 ~ 24.0	

NOTE

- Specifications may be subject to change without prior notice.
 - 1) Cooling capacities are based on;
 - Indoor temperature : 27°C DB, 19°C WB
 - Outdoor temperature : 35°C DB, 24°C WB, Equivalent refrigerant piping : 7.5m, Level differences : 0m
 - 2) 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) Select wire size based on the value of MCA
 - 4) Sound power level is an absolute value that a sound source generates.
 Sound pressure level is a relative value, depending on the distance and acoustic environment.
 Sound values are obtained in an anechoic room.
 Sound values of multi combination are theoretical values based on sound results of individual installed units.
 - 5) These products contain R410A which is fluorinated greenhouse gas.

2. Specification

Type				DVM S Eco	DVM S Eco	DVM S Eco	DVM S Eco	
Model Name				AM040FXMDEH/TK	AM040FXMDGH/TK	AM050FXMDEH/TK	AM050FXMDGH/TK	
Power Supply			Φ, #, V, Hz	1,2,220-240,50	3,4,380-415,50	1,2,220-240,50	3,4,380-415,50	
Mode				-	HEAT PUMP	HEAT PUMP	HEAT PUMP	
Performance	HP	HP		4	4	5	5	
		Capacity	Cooling	kW	12.1	12.1	14.0	14.0
	Btu/h			41,300	41,300	47,800	47,800	
	Heating		kW	13.5	13.5	16.0	16.0	
			Btu/h	46,100	46,100	54,600	54,600	
Maximum number of connectable indoor units	Total capacity of the connected Indoor Units		Min.	kW	5.6	5.6	7.0	
			Max.	kW	15.7	15.7	18.2	
	Power	Power Input	Cooling ¹⁾	kW	2.89	2.99	3.69	3.69
Heating ²⁾			3.02		3.02	3.61	3.61	
Current Input		Cooling ¹⁾	A	14.0	4.8	17.9	6.2	
		Heating ²⁾		15.1	5.0	17.2	6.0	
Current		Minimum Ssc value		MVA	-	3.3	-	3.3
		MCA		A	22.0	10.0	24.0	12.0
	MFA		A	32	20	32	20	
COP	Cooling ¹⁾		W/W	4.19	4.05	3.79	3.79	
	Heating ²⁾		W/W	4.47	4.47	4.43	4.43	
	ESEER		W/W	7.57	7.57	6.91	6.91	
Casing	Material	Cabinet	-	EGI steel plate	EGI steel plate	EGI steel plate	EGI steel plate	
		Base	-	GI steel plate	GI steel plate	GI steel plate	GI steel plate	
Heat exchanger	Type		-	Fin & Tube	Fin & Tube	Fin & Tube	Fin & Tube	
	Material	Fin	-	Al	Al	Al	Al	
		Tube	-	Cu	Cu	Cu	Cu	
Fin Treatment		-	Anti-corrosion	Anti-corrosion	Anti-corrosion	Anti-corrosion		
Compressor	Type		-	Twin BLDC Rotary	Twin BLDC Rotary	Twin BLDC Rotary	Twin BLDC Rotary	
	Output		kW × n	(4.12) × 1	(4.12) × 1	(4.12) × 1	(4.12) × 1	
	Model Name		-	UG5T450FUEJXSG x 1	UG5T450FUFJXSG x 1	UG5T450FUEJXSG x 1	UG5T450FUFJXSG x 1	
	Oil	Type	-	PVE	PVE	PVE	PVE	
Initial Charge		cc	1700	1700	1700	1700		
Fan	Type		-	Propeller	Propeller	Propeller	Propeller	
	Discharge direction		-	Horizontal	Horizontal	Horizontal	Horizontal	
	Quantity		ea	2	2	2	2	
	Air Flow Rate		m ³ /min	100	100	100	100	
			l/s	1,666.67	1,666.67	1,666.67	1,666.67	
	External Static Pressure	Max.	mmAq	3	3	3	3	
Pa			29.4	29.4	29.4	29.4		
Fan Motor	Model		-	BLDC Motor	BLDC Motor	BLDC Motor	BLDC Motor	
	Output x n		W	125 x 2	125 x 2	125 x 2	125 x 2	

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Type				DVM S Eco	DVM S Eco	DVM S Eco	DVM S Eco	
Model Name				AM040FXMDEH/TK	AM040FXMDGH/TK	AM050FXMDEH/TK	AM050FXMDGH/TK	
Piping Connections	Liquid Pipe	Type		Braze connection	Braze connection	Braze connection	Braze connection	
		Φ, mm		9.52	9.52	9.52	9.52	
		Φ, inch		3/8"	3/8"	3/8"	3/8"	
	Gas Pipe	Type		Braze connection	Braze connection	Braze connection	Braze connection	
		Φ, mm		15.88	15.88	15.88	15.88	
		Φ, inch		5/8"	5/8"	5/8"	5/8"	
	Discharge Gas Pipe	Φ, mm		-	-	-	-	
		Φ, inch		-	-	-	-	
	Heat insulation			-	Both liquid and gas pipes	Both liquid and gas pipes	Both liquid and gas pipes	Both liquid and gas pipes
	Piping length (ODU-IDU)	Max. [Equiv.]	m	150 (175)	150 (175)	150 (175)	150 (175)	
	Piping length (1st Branch-IDU)	Max.	m	40	40	40	40	
	Total piping length (System)	Max.	m	300	300	300	300	
	Level difference (ODU in highest position)	Max.	m	50	50	50	50	
Level difference (IDU in highest position)	Max.	m	40	40	40	40		
Level difference (IDU-IDU)	Max.	m	15	15	15	15		
Wiring connections ³⁾	Communication	Minimum	mm ²	0.75	0.75	0.75	0.75	
		Remark	-	F1,F2	F1,F2	F1,F2	F1,F2	
Refrigerant	Type			R410A	R410A	R410A	R410A	
	Factory Charging		kg	3.2	3.2	3.2	3.2	
Sound ⁴⁾	Sound Pressure	Cooling	dB(A)	50	50	51	51	
		Heating		52	52	53	53	
	Sound Power				66	66	67	67
External Dimension	Net Weight		kg	100	100	100	100	
	Shipping Weight		kg	105	105	105	105	
	Net Dimensions (WxHxD)		mm	940 x 1,210 x 330	940 x 1,210 x 330	940 x 1,210 x 330	940 x 1,210 x 330	
	Shipping Dimensions (WxHxD)		mm	995 x 1,388 x 426	995 x 1,388 x 426	995 x 1,388 x 426	995 x 1,388 x 426	
Operating Temp. Range	Cooling		°C	-5.0 ~ 48.0	-5.0 ~ 48.0	-5.0 ~ 48.0	-5.0 ~ 48.0	
	Heating		°C	-20.0 ~ 26.0	-20.0 ~ 26.0	-20.0 ~ 26.0	-20.0 ~ 26.0	

NOTE

- Specifications may be subject to change without prior notice.
 - 1) Cooling capacities are based on;
 - Indoor temperature : 27°C DB, 19°C WB
 - Outdoor temperature : 35°C DB, 24°C WB, Equivalent refrigerant piping : 7.5m, Level differences : 0m
 - 2) 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) Select wire size based on the value of MCA
 - 4) Sound power level is an absolute value that a sound source generates.
 Sound pressure level is a relative value, depending on the distance and acoustic environment.
 Sound values are obtained in an anechoic room.
 Sound values of multi combination are theoretical values based on sound results of individual installed units.
 - 5) These products contain R410A which is fluorinated greenhouse gas.

2. Specification

Type				DVM S Eco	DVM S Eco	DVM S Eco	DVM S Eco
Model Name				AM060FXMDEH/TK	AM060FXMDGH/TK	AM080FXMDGH/TK	AM080MXMDGH/TK
Power Supply			Φ, #, V, Hz	1,2,220-240,50	3,4,380-415,50	3,4,380-415,50	3,4,380-415,50
Mode				-	HEAT PUMP	HEAT PUMP	HEAT PUMP
Performance	HP		HP	6	6	8	8
	Capacity	Cooling	kW	15.5	15.5	22.4	22.4
			Btu/h	52,900	52,900	76,400	76,400
		Heating	kW	18.0	18.0	25.0	22.4
			Btu/h	61,400	61,400	85,300	76,400
Maximum number of connectable indoor units			ea	9	9	13	13
Power	Total capacity of the connected Indoor Units	Min.	kW	7.8	7.8	11.2	11.2
		Max.	kW	20.2	20.2	29.1	29.1
	Power Input	Cooling ¹⁾	kW	4.31	4.31	5.72	6.90
		Heating ²⁾		4.39	4.39	4.88	5.80
	Current Input	Cooling ¹⁾	A	21	7.3	9.66	11.7
		Heating ²⁾		20.2	6.9	8.24	9.5
	Current	Minimum Ssc value	MVA	-	3.3	3.4	3.4
		MCA	A	32.0	12.0	18.0	18.4
MFA		A	40.0	20	25.0	25.0	
COP	Cooling ¹⁾		W/W	3.6	3.6	3.92	3.25
	Heating ²⁾		W/W	4.1	4.1	5.12	3.86
	ESEER		W/W	6.45	6.45	9.22	7.46
Casing	Material	Cabinet	-	EGI steel plate	EGI steel plate	EGI steel plate	EGI steel plate
		Base	-	GI steel plate	GI steel plate	GI steel plate	GI steel plate
Heat exchanger	Type		-	Fin & Tube	Fin & Tube	Fin & Tube	Fin & Tube
	Material	Fin	-	Al	Al	Al	Al
		Tube	-	Cu	Cu	Cu	Cu
	Fin Treatment		-	Anti-corrosion	Anti-corrosion	Anti-corrosion	Anti-corrosion
Compressor	Type		-	Twin BLDC Rotary	Twin BLDC Rotary	Inverter Scroll	Twin BLDC Rotary
	Output		kW × n	(4.12) × 1	(4.12) × 1	(4.96) × 1	4.92 × 1
	Model Name		-	UG5T450FUEJXSG x 1	UG5T450FUFJXSG x 1	DS-GB052FAVADO x 1	UG5T520FUBJX
	Oil	Type	-	PVE	PVE	PVE	PVE
		Initial Charge	cc	1700	1700	2800	1,700
Fan	Type		-	Propeller	Propeller	Propeller	Propeller
	Discharge direction		-	Horizontal	Horizontal	Horizontal	Horizontal
	Quantity		ea	2	2	2	2
	Air Flow Rate		m ³ /min	100	100	135	135
			l/s	1,666.67	1,666.67	2,250.00	2,250
	External Static Pressure	Max.	mmAq	3	3	3	3
Pa			29.4	29.4	29.4	29.4	
Fan Motor	Model		-	BLDC Motor	BLDC Motor	BLDC Motor	BLDC Motor
	Output x n		W	125 x 2	125 x 2	139 x 2	139 x 2

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Model Name				AM060FXMDEH/TK	AM060FXMDGH/TK	AM080FXMDGH/TK	AM080MXMDGH/TK	
Piping Connections	Liquid Pipe	Type		Braze connection	Braze connection	Braze connection	Braze connection	
		Φ, mm		9.52	9.52	9.52	9.52	
		Φ, inch		3/8"	3/8"	3/8"	3/8"	
	Gas Pipe	Type		Braze connection	Braze connection	Braze connection	Braze connection	
		Φ, mm		19.05	19.05	19.05	19.05	
		Φ, inch		3/4"	3/4"	3/4"	3/4"	
	Discharge Gas Pipe	Φ, mm		-	-	-	-	
		Φ, inch		-	-	-	-	
	Heat insulation			-	Both liquid and gas pipes	Both liquid and gas pipes	Both liquid and gas pipes	Both liquid and gas pipes
	Piping length (ODU-IDU)	Max. [Equiv.]	m	150 (175)	150 (175)	100 (130)	100 (130)	
	Piping length (1st Branch-IDU)	Max.	m	40	40	40	40	
	Total piping length (System)	Max.	m	300	300	300	300	
	Level difference (ODU in highest position)	Max.	m	50	50	30	30	
Level difference (IDU in highest position)	Max.	m	40	40	30	30		
Level difference (IDU-IDU)	Max.	m	15	15	30	30		
Wiring connections ³⁾	Communication	Minimum	mm ²	0.75	0.75	0.75	0.75	
		Remark	-	F1,F2	F1,F2	F1,F2	F1,F2	
Refrigerant	Type			R410A	R410A	R410A	R410A	
	Factory Charging		kg	3.3	3.3	3.7	3.7	
Sound ⁴⁾	Sound Pressure	Cooling	dB(A)	53	53	56	59	
		Heating		55	55	58	59	
	Sound Power			69	69	74	77	
External Dimension	Net Weight		kg	103	103	135	115	
	Shipping Weight		kg	108	108	145	125	
	Net Dimensions (WxHxD)		mm	940 x 1,210 x 330	940 x 1,210 x 330	940 x 1,420 x 330	940 x 1,420 x 330	
	Shipping Dimensions (WxHxD)		mm	995 x 1,388 x 426	995 x 1,388 x 426	995 x 1,578 x 426	995 x 1,578 x 426	
Operating Temp. Range	Cooling		°C	-5.0 ~ 48.0	-5.0 ~ 48.0	-5.0 ~ 48.0	-5.0 ~ 48.0	
	Heating		°C	-20.0 ~ 26.0	-20.0 ~ 26.0	-20.0 ~ 24.0	-20.0 ~ 24.0	

NOTE

- Specifications may be subject to change without prior notice.
 - 1) Cooling capacities are based on;
 - Indoor temperature : 27°C DB, 19°C WB
 - Outdoor temperature : 35°C DB, 24°C WB, Equivalent refrigerant piping : 7.5m, Level differences : 0m
 - 2) 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) Select wire size based on the value of MCA
 - 4) Sound power level is an absolute value that a sound source generates.
 Sound pressure level is a relative value, depending on the distance and acoustic environment.
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