

Technical sheets

CUT YOUR ENERGY BILLS & CARBON FOOTPRINT

# HEAT PUMPS

ECOLOGICAL SOLUTIONS



TYPE	MODELNAME	MODEL LINE	POSSIBILITY	REFRIGERANT	PAGE
MONOBLOC	AE-08401-MO-(A)	ARTIC LINE	INVERTER	R32	PAGE 3-6
MONOBLOC	AE-13003-MO-(A)	ARTIC LINE	INVERTER	R32	PAGE 7-10
MONOBLOC	AE-18203-MO-(A)	ARTIC LINE	INVERTER	R32	PAGE 11-14
MONOBLOC	AE-23003-MO-(A)	ARTIC LINE	INVERTER	R32	PAGE 15-18
MONOBLOC	AE-26103-MO-(A)	ARTIC LINE	INVERTER	R32	PAGE 19-22
MONOBLOC	AE-30803-MO-(A)	ARTIC LINE	INVERTER	R32	PAGE 23-26



**CONTROLLER COMPATIBLE WITH:**

Products controllable via the dedicated Smart Life – Smart Living and Tuya Smart apps.





Inverter



Refrigerant Gas



Wi-Fi  
Included



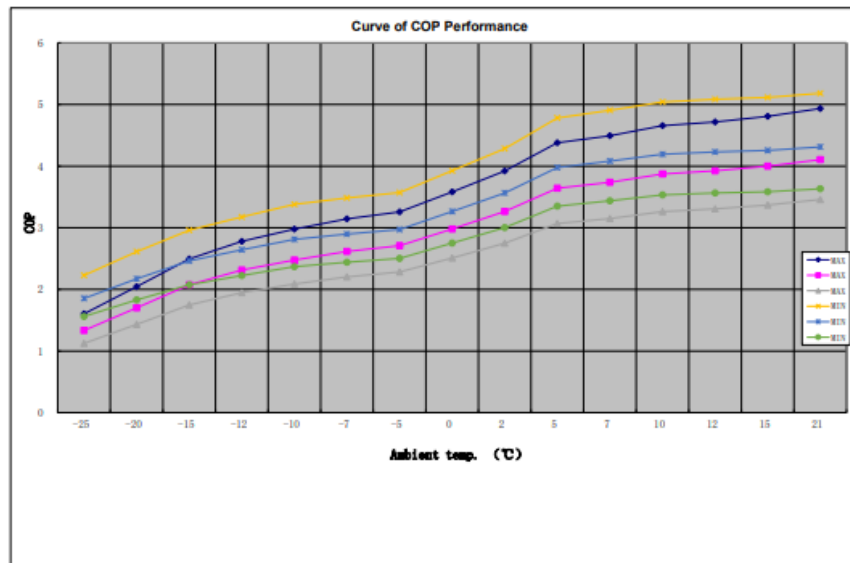
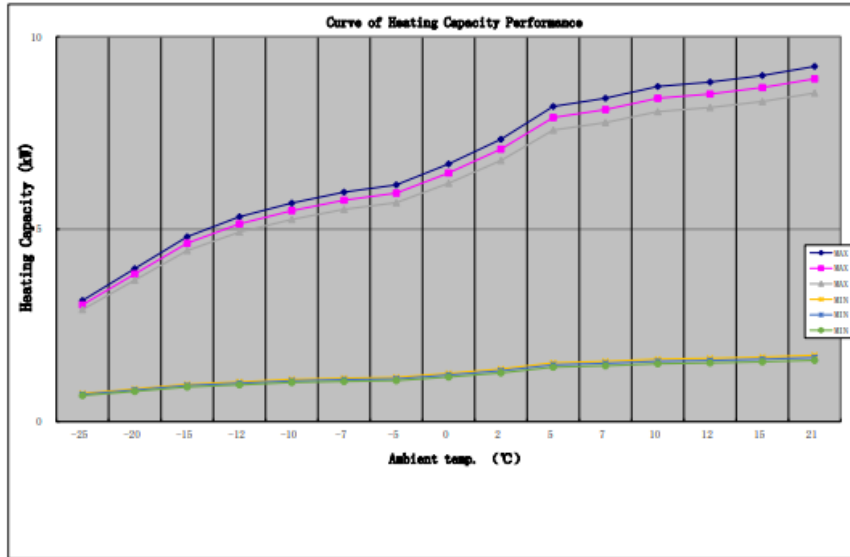
Wired Controller  
Included



PRODUCT INFORMATION		
<b>HEATING</b>	HEATING CAPACITY RANGE (kW)	1.57~8.40
	HEATING INPUT RANGE (kW)	0.32~1.87
	CURRENT RANGE (A)	1.42~8.30
	COP RANGE	4.49~4.91
<b>COOLING</b>	COOLING CAPACITY RANGE (kW)	0.99~6.22
	COOLING INPUT POWER (kW)	0.29~2.18
	CURRENT RANGE (A)	1.28~9.67
	EER RANGE	2.85~3.41
<b>DHW</b>	HEATING CAPACITY RANGE (kW)	1.28~6.81
	HEATING INPUT RANGE (kW)	0.31~2.13
	CURRENT RANGE (A)	1.38~9.45
	COP RANGE	3.2~4.1
REFRIGERANT		R32
POWER SUPPLY		230V/1Ph/50-60Hz
WORKING AREA		-30~43°C
WATER CIRCULATION (m³/H)		1.4
NOISE (DB(A))		≤53
NET WEIGHT/GROSS WEIGHT (KG)		110/120
DIAMETER OF PIPE (MM)		DN25
BODY SIZE (W*D*H) (MM)		970×475×835
ERP LEVEL (35°C)		A+++
ERP LEVEL (55°C)		A++
COMPRESSOR BRAND		Panasonic
FOUR-WAY VALVE		Sanhua
EXPANSION VALVE		Sanhua
OPERATING WATER TEMPERATURE (°C) DHW		9~60°C
OPERATING WATER TEMPERATURE (°C) HEATING		9~50°C
OPERATING WATER TEMPERATURE (°C) COOLING		7~35°C

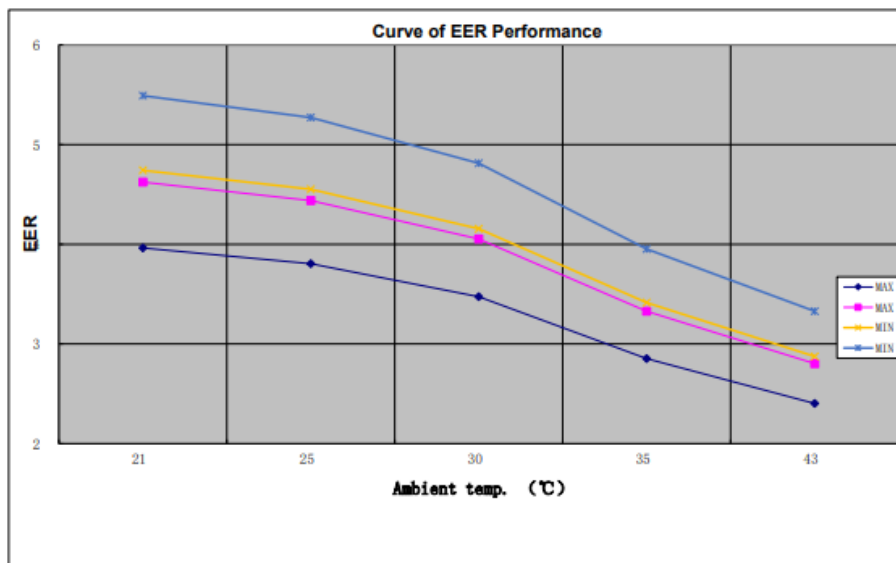
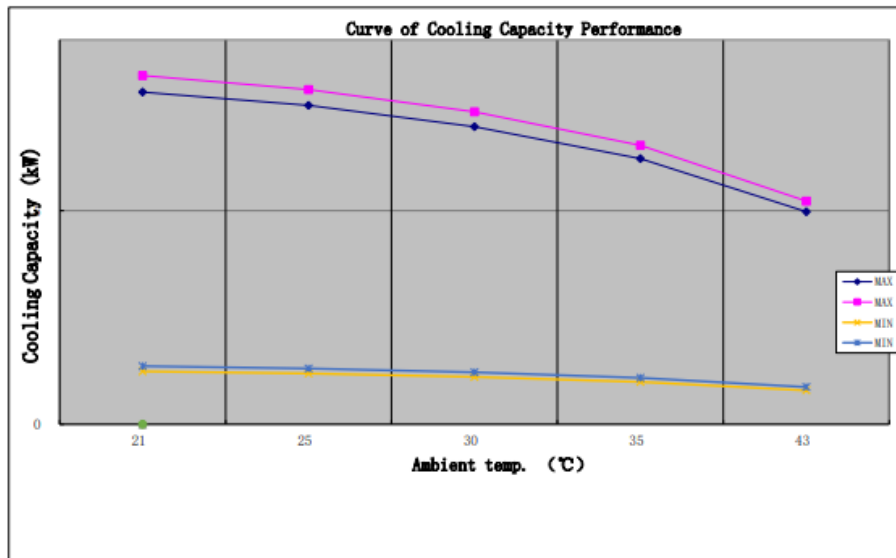
## PERFORMANCE CURVES - AE-08401-MO-(A) - HEATING

Water temp. outlet35°C	MAX	Heating Capacity (kW)	3.1	4.0	4.8	5.3	5.7	6.0	6.2	6.7	7.3	8.2	8.4	8.7	8.8	9.0	9.2	
		Input power (kW)	2.0	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9
		COP	1.60	2.04	2.49	2.78	2.98	3.14	3.26	3.58	3.92	4.38	4.49	4.66	4.72	4.81	4.93	
	MIN	Heating Capacity (kW)	0.7	0.9	1.0	1.0	1.1	1.1	1.2	1.3	1.4	1.5	1.6	1.6	1.6	1.7	1.7	
Water temp. outlet45°C	MAX	Heating Capacity (kW)	3.0	3.8	4.6	5.1	5.5	5.8	5.9	6.5	7.1	7.9	8.1	8.4	8.5	8.7	8.9	
		Input power (kW)	2.3	2.3	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	
		COP	1.33	1.70	2.07	2.31	2.48	2.62	2.71	2.98	3.26	3.64	3.74	3.87	3.92	4.00	4.11	
	MIN	Heating Capacity (kW)	0.7	0.8	0.9	1.0	1.1	1.1	1.1	1.2	1.3	1.5	1.5	1.6	1.6	1.6	1.7	
Water temp. outlet55°C	MAX	Heating Capacity (kW)	2.9	3.7	4.4	4.9	5.3	5.5	5.7	6.2	6.8	7.6	7.8	8.1	8.2	8.3	8.5	
		Input power (kW)	2.6	2.6	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	
		COP	1.12	1.43	1.75	1.95	2.09	2.20	2.28	2.51	2.75	3.07	3.15	3.26	3.31	3.37	3.46	
	MIN	Heating Capacity (kW)	0.7	0.8	0.9	1.0	1.0	1.0	1.1	1.2	1.3	1.4	1.5	1.5	1.5	1.6	1.6	
Ambient temp. (°C)	MAX	Heating Capacity (kW)	0.44	0.43	0.43	0.43	0.43	0.43	0.43	0.42	0.42	0.42	0.42	0.43	0.43	0.43	0.44	
		Input power (kW)	1.56	1.83	2.07	2.23	2.37	2.44	2.50	2.75	3.00	3.35	3.44	3.53	3.56	3.58	3.63	
		COP	0.28	0.24	0.21	0.19	0.18	0.18	0.18	0.15	0.14	0.13	0.13	0.12	0.12	0.12	0.12	
	MIN	Heating Capacity (kW)	0.44	0.43	0.43	0.43	0.43	0.43	0.43	0.42	0.42	0.42	0.42	0.43	0.43	0.43	0.44	
Input power (kW)	1.56	1.83	2.07	2.23	2.37	2.44	2.50	2.75	3.00	3.35	3.44	3.53	3.56	3.58	3.63			
COP	0.28	0.24	0.21	0.19	0.18	0.18	0.18	0.15	0.14	0.13	0.13	0.12	0.12	0.12	0.12			



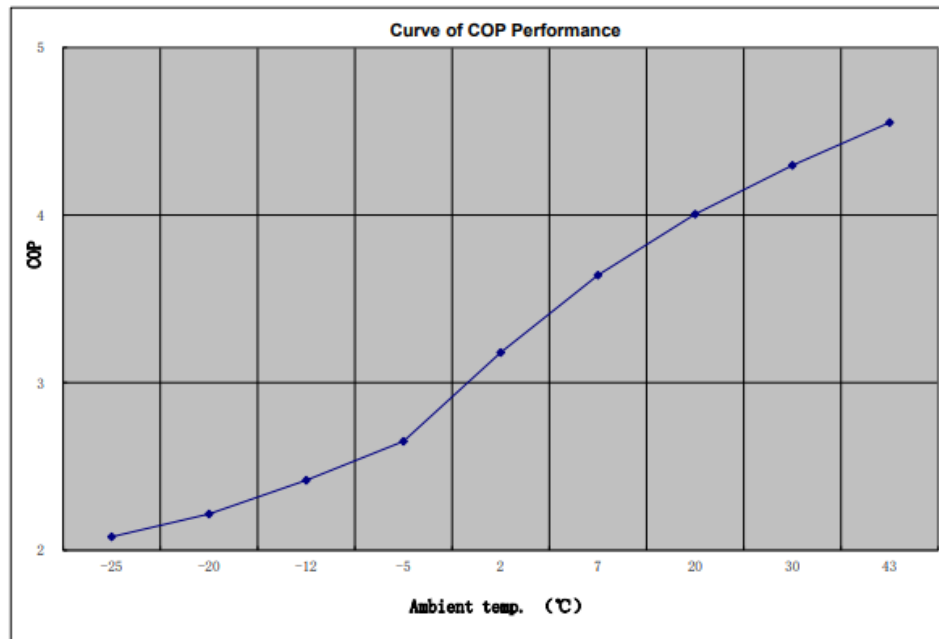
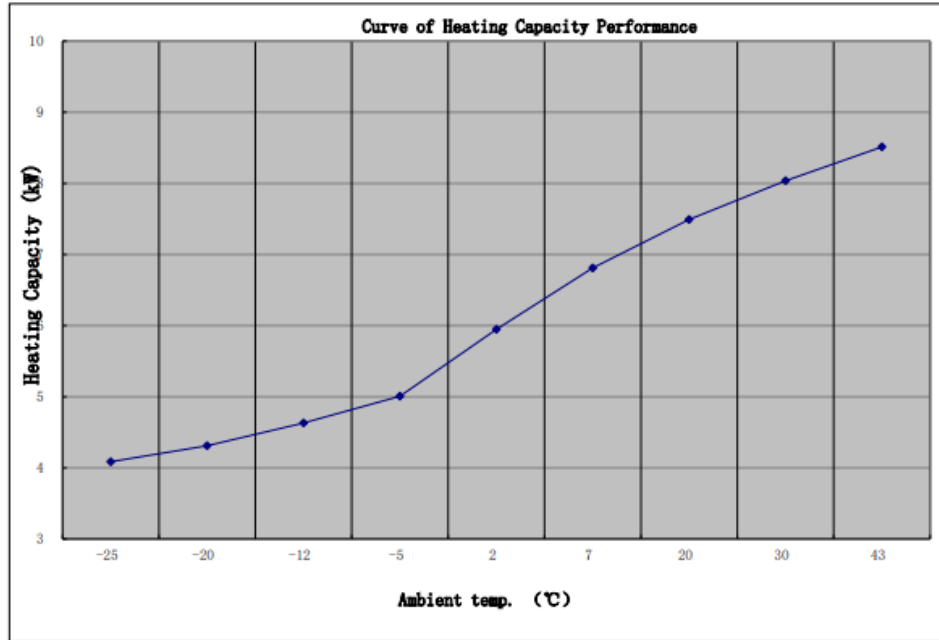
## PERFORMANCE CURVES - AE-08401-MO-(A) - COOLING

Water temp. outlet 7°C	MAX	Cooling Capacity (kW)	7.8	7.5	7.0	6.2	5.0
		Input power (kW)	2.0	2.0	2.0	2.2	2.1
		EER	3.96	3.80	3.47	2.85	2.40
	MIN	Cooling Capacity (kW)	1.2	1.2	1.1	1.0	0.8
		Input power (kW)	0.26	0.26	0.27	0.29	0.28
		EER	4.74	4.55	4.16	3.41	2.87
Water temp. outlet 18°C	MAX	Cooling Capacity (kW)	8.2	7.8	7.3	6.5	5.2
		Input power (kW)	1.8	1.8	1.8	2.0	1.9
		EER	4.62	4.44	4.05	3.33	2.80
	MIN	Cooling Capacity (kW)	1.4	1.3	1.2	1.1	0.9
		Input power (kW)	0.2	0.2	0.3	0.3	0.3
		EER	5.49	5.27	4.81	3.95	3.33
Ambient temp. (°C)			21	25	30	35	43



## PERFORMANCE CURVES - AE-08401-MO-(A) - DHW

Heating Capacity (kW)	4.1	4.3	4.6	5.0	5.9	6.8	7.5	8.0	8.5
Input power (kW)	1.96	1.94	1.91	1.89	1.87	1.87	1.87	1.87	1.87
COP	2.08	2.22	2.42	2.65	3.18	3.64	4.01	4.30	4.55
Ambient temp. (°C)	-25	-20	-12	-5	2	7	20	30	43





Inverter



Refrigerant Gas



Wi-Fi  
Included



Wired Controller  
Included



PRODUCT INFORMATION		
<b>HEATING</b>	HEATING CAPACITY RANGE (kW)	4.40~13.00
	HEATING INPUT RANGE (kW)	0.90~3.02
	CURRENT RANGE (A)	1.39~4.68
	COP RANGE	4.30~4.90
<b>COOLING</b>	COOLING CAPACITY RANGE (kW)	2.80~8.20
	COOLING INPUT POWER (kW)	0.85~3.31
	CURRENT RANGE (A)	1.32~5.13
	EER RANGE	2.48~3.29
<b>DHW</b>	HEATING CAPACITY RANGE (kW)	3.52~10.50
	HEATING INPUT RANGE (kW)	0.88~3.39
	CURRENT RANGE (A)	1.36~5.26
	COP RANGE	3.1~4.0
REFRIGERANT		R32
POWER SUPPLY		380V/3Ph/50-60Hz
WORKING AREA		-30~43°C
WATER CIRCULATION (m³/H)		2.2
NOISE (DB(A))		≤55
NET WEIGHT/GROSS WEIGHT (KG)		140/150
DIAMETER OF PIPE (MM)		DN25
BODY SIZE (W*D*H) (MM)		1100×475×985
ERP LEVEL (35°C)		A+++
ERP LEVEL (55°C)		A++
COMPRESSOR BRAND		Panasonic
FOUR-WAY VALVE		Sanhua
EXPANSION VALVE		Sanhua
OPERATING WATER TEMPERATURE (°C) DHW		9~60°C
OPERATING WATER TEMPERATURE (°C) HEATING		9~50°C
OPERATING WATER TEMPERATURE (°C) COOLING		7~35°C

## PERFORMANCE CURVES - AE-13003-MO-(A) - HEATING

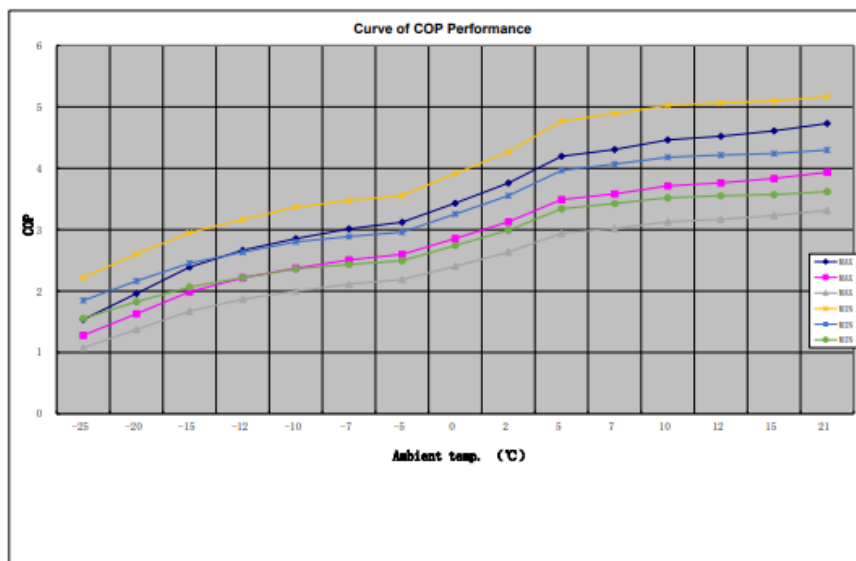
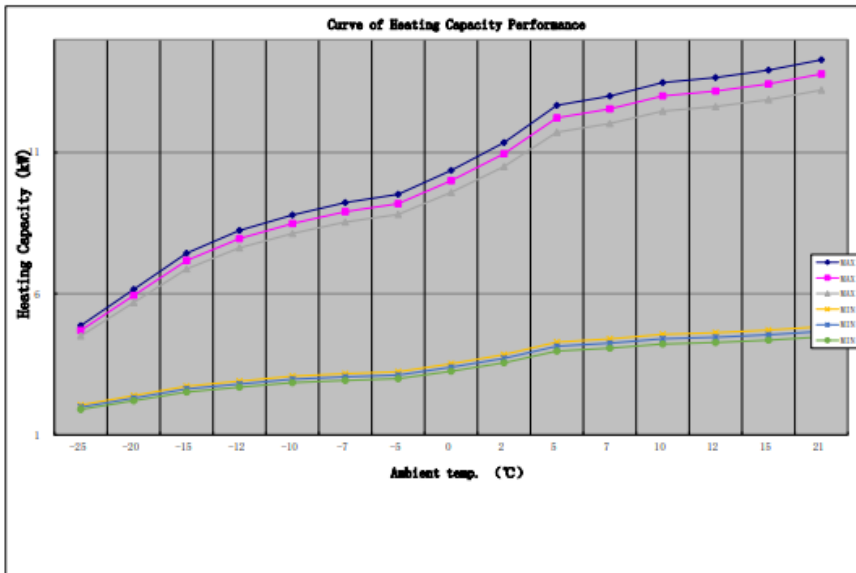
Water temp. outlet35°C	MAX	Heating Capacity (kW)	4.9	6.2	7.4	8.2	8.8	9.2	9.5	10.4	11.4	12.7	13.0	13.5	13.7	13.9	14.3	
		Input power (kW)	3.2	3.1	3.1	3.1	3.1	3.1	3.1	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
		COP	1.54	1.96	2.39	2.66	2.85	3.01	3.12	3.43	3.76	4.20	4.30	4.46	4.52	4.61	4.73	
	MIN	Heating Capacity (kW)	2.1	2.4	2.7	2.9	3.1	3.2	3.2	3.5	3.8	4.3	4.4	4.6	4.6	4.7	4.8	
		Input power (kW)	0.93	0.92	0.92	0.92	0.91	0.91	0.91	0.90	0.90	0.90	0.90	0.91	0.91	0.92	0.94	
		COP	2.22	2.60	2.95	3.16	3.37	3.47	3.56	3.91	4.27	4.76	4.89	5.02	5.07	5.10	5.16	
Ambient temp. (°C)			-25	-20	-15	-12	-10	-7	-5	0	2	5	7	10	12	15	21	

Water temp. outlet45°C	MAX	Heating Capacity (kW)	4.7	5.9	7.2	8.0	8.5	8.9	9.2	10.0	11.0	12.2	12.5	13.0	13.2	13.4	13.8	
		Input power (kW)	3.7	3.6	3.6	3.6	3.6	3.6	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5
		COP	1.28	1.63	1.99	2.22	2.37	2.51	2.60	2.85	3.13	3.49	3.58	3.71	3.76	3.83	3.93	
	MIN	Heating Capacity (kW)	2.0	2.3	2.6	2.8	3.0	3.1	3.1	3.4	3.7	4.1	4.2	4.4	4.5	4.5	4.7	
		Input power (kW)	1.08	1.06	1.07	1.06	1.06	1.06	1.05	1.04	1.04	1.04	1.04	1.05	1.06	1.07	1.09	
		COP	1.85	2.16	2.45	2.63	2.80	2.89	2.96	3.25	3.55	3.96	4.07	4.18	4.22	4.24	4.30	
Ambient temp. (°C)			-25	-20	-15	-12	-10	-7	-5	0	2	5	7	10	12	15	21	

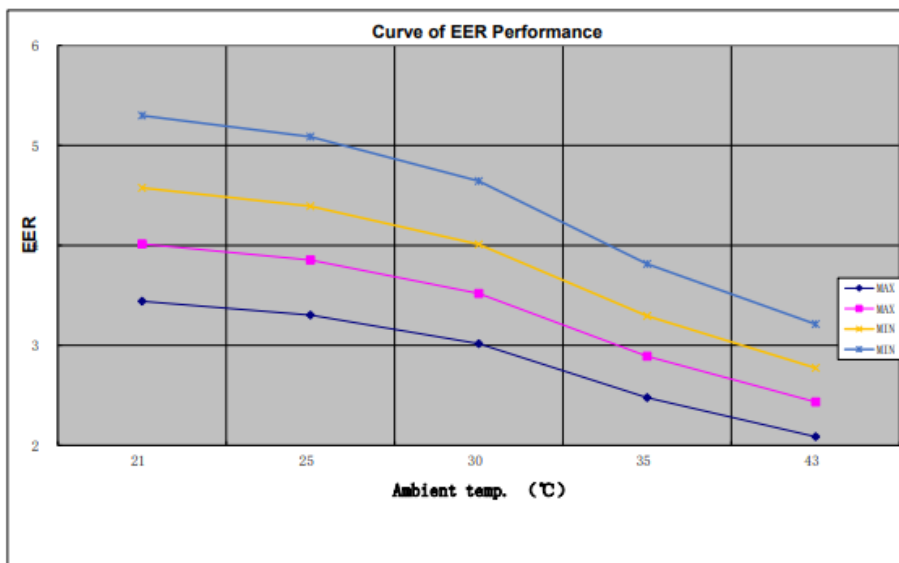
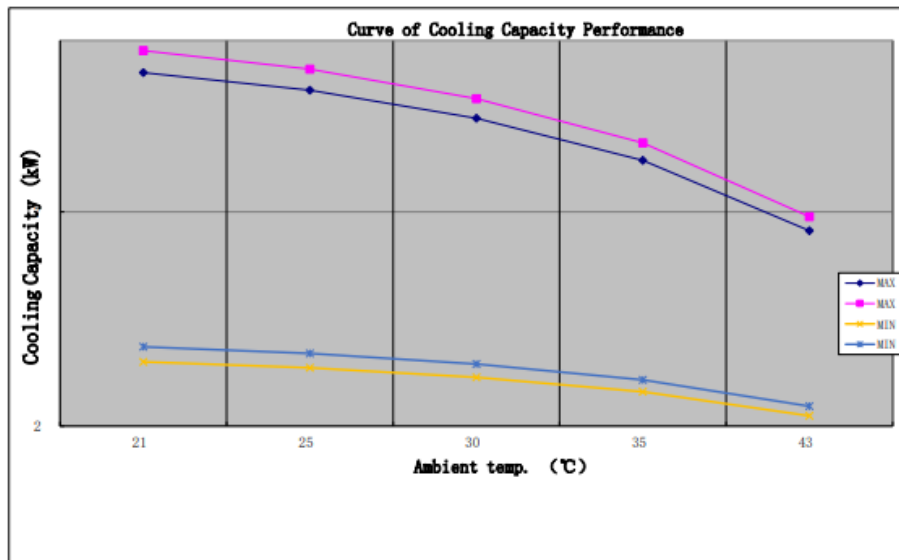
Water temp. outlet55°C	MAX	Heating Capacity (kW)	4.5	5.7	6.9	7.6	8.1	8.5	8.8	9.6	10.5	11.7	12.0	12.5	12.6	12.9	13.2	
		Input power (kW)	4.2	4.1	4.1	4.1	4.1	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
		COP	1.08	1.37	1.67	1.87	2.00	2.11	2.19	2.40	2.63	2.94	3.02	3.13	3.17	3.23	3.31	
	MIN	Heating Capacity (kW)	1.9	2.2	2.5	2.7	2.8	2.9	3.0	3.3	3.6	4.0	4.1	4.2	4.3	4.4	4.5	
		Input power (kW)	1.22	1.21	1.22	1.21	1.21	1.20	1.20	1.19	1.19	1.19	1.19	1.20	1.20	1.22	1.24	
		COP	1.56	1.82	2.07	2.22	2.36	2.43	2.49	2.74	2.99	3.34	3.43	3.52	3.55	3.57	3.62	
Ambient temp. (°C)			-25	-20	-15	-12	-10	-7	-5	0	2	5	7	10	12	15	21	





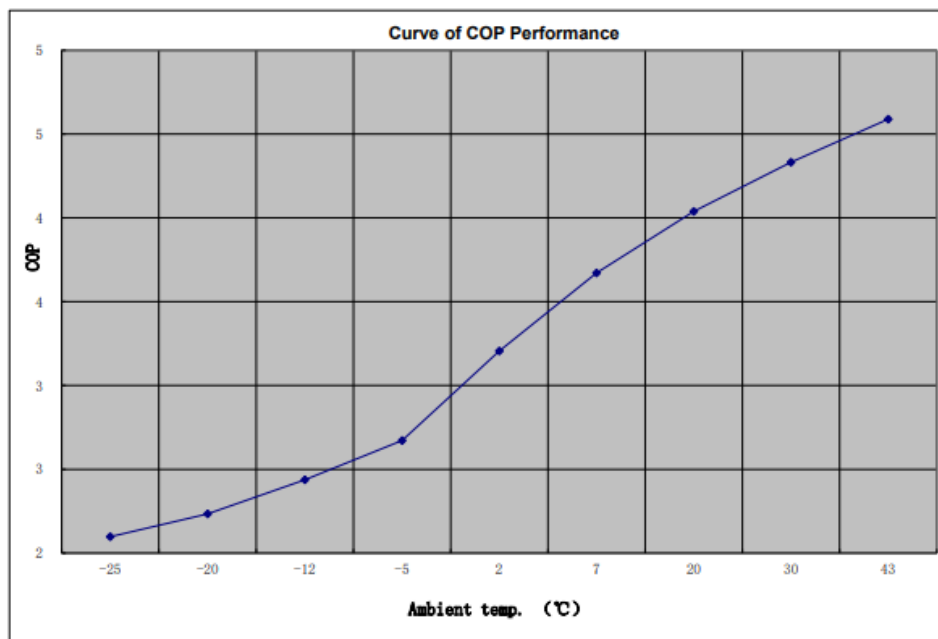
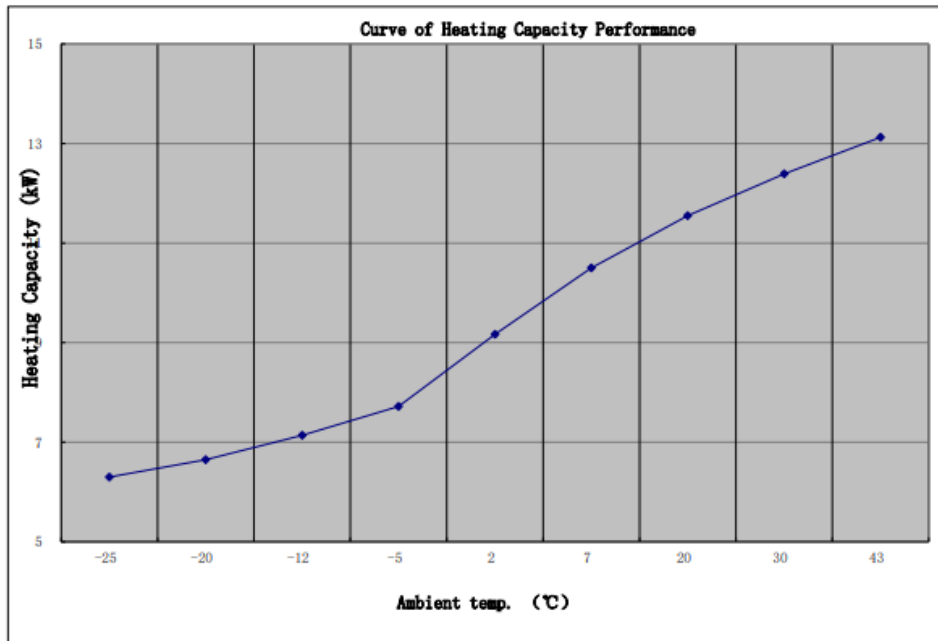
## PERFORMANCE CURVES - AE-13003-MO-(A) - COOLING

Water temp. outlet 7°C	MAX	Cooling Capacity (kW)	10.3	9.8	9.2	8.2	6.6
		Input power (kW)	3.0	3.0	3.0	3.3	3.1
		EER	3.44	3.30	3.02	2.48	2.09
	MIN	Cooling Capacity (kW)	3.5	3.4	3.1	2.8	2.2
		Input power (kW)	0.77	0.77	0.78	0.85	0.81
		EER	4.58	4.39	4.01	3.29	2.77
Water temp. outlet 18°C	MAX	Cooling Capacity (kW)	10.8	10.3	9.6	8.6	6.9
		Input power (kW)	2.7	2.7	2.7	3.0	2.8
		EER	4.01	3.85	3.52	2.89	2.43
	MIN	Cooling Capacity (kW)	3.9	3.7	3.4	3.1	2.5
		Input power (kW)	0.7	0.7	0.7	0.8	0.8
		EER	5.30	5.09	4.64	3.81	3.21
Ambient temp. (°C)			21	25	30	35	43



## PERFORMANCE CURVES - AE-13003-MO-(A) - DHW

Heating Capacity (kW)	6.3	6.6	7.1	7.7	9.2	10.5	11.6	12.4	13.1
Input power (kW)	3.00	2.97	2.93	2.89	2.86	2.86	2.86	2.86	2.86
COP	2.10	2.23	2.44	2.67	3.21	3.67	4.04	4.33	4.59
Ambient temp. (°C)	-25	-20	-12	-5	2	7	20	30	43





Inverter



Refrigerant Gas



Wi-Fi  
Included



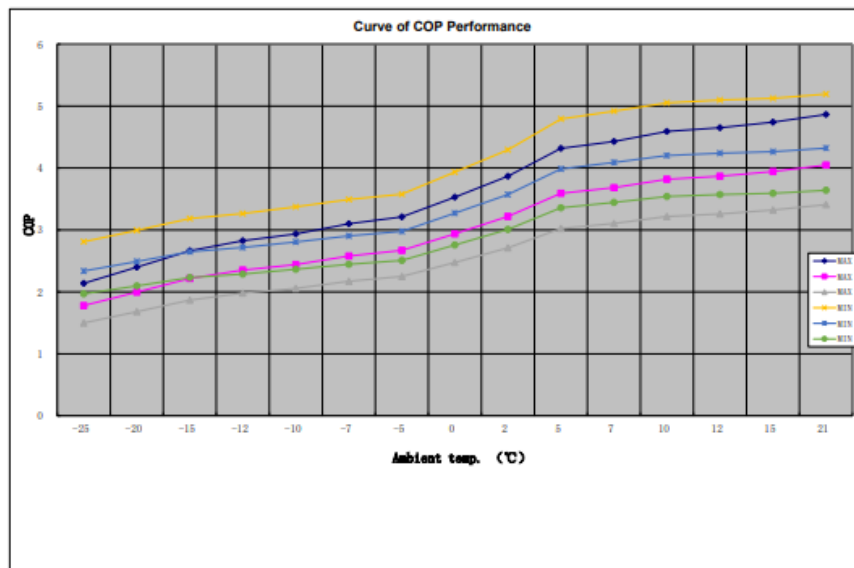
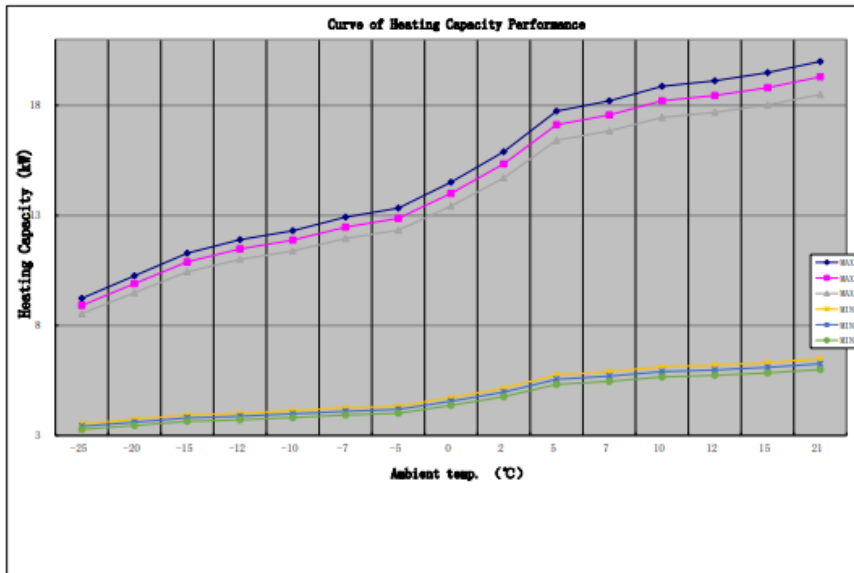
Wired Controller  
Included



PRODUCT INFORMATION		
<b>HEATING</b>	HEATING CAPACITY RANGE (kW)	5.9~18.2
	HEATING INPUT RANGE (kW)	1.20~4.11
	CURRENT RANGE (A)	1.86~6.37
	COP RANGE	4.43~4.92
<b>COOLING</b>	COOLING CAPACITY RANGE (kW)	3.81~11.53
	COOLING INPUT POWER (kW)	1.11~4.05
	CURRENT RANGE (A)	1.72~6.28
	EER RANGE	2.85~3.43
<b>DHW</b>	HEATING CAPACITY RANGE (kW)	4.80~14.72
	HEATING INPUT RANGE (kW)	1.17~4.60
	CURRENT RANGE (A)	1.82~7.15
	COP RANGE	3.2~4.1
REFRIGERANT		R32
POWER SUPPLY		380V/3Ph/50-60Hz
WORKING AREA		-30~43°C
WATER CIRCULATION (m <sup>3</sup> /H)		3.1
NOISE (DB(A))		≤57
NET WEIGHT/GROSS WEIGHT (KG)		170/180
DIAMETER OF PIPE (MM)		DN25
BODY SIZE (W*D*H) (MM)		1050×480×1330
ERP LEVEL (35°C)		A+++
ERP LEVEL (55°C)		A++
COMPRESSOR BRAND		Panasonic
FOUR-WAY VALVE		Sanhua
EXPANSION VALVE		Sanhua
OPERATING WATER TEMPERATURE (°C) DHW		9~60°C
OPERATING WATER TEMPERATURE (°C) HEATING		9~50°C
OPERATING WATER TEMPERATURE (°C) COOLING		7~35°C

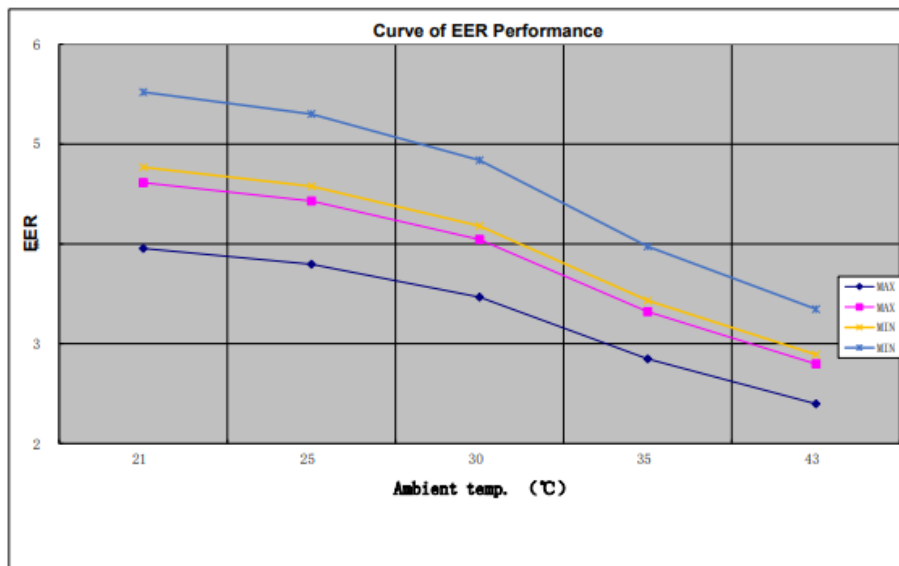
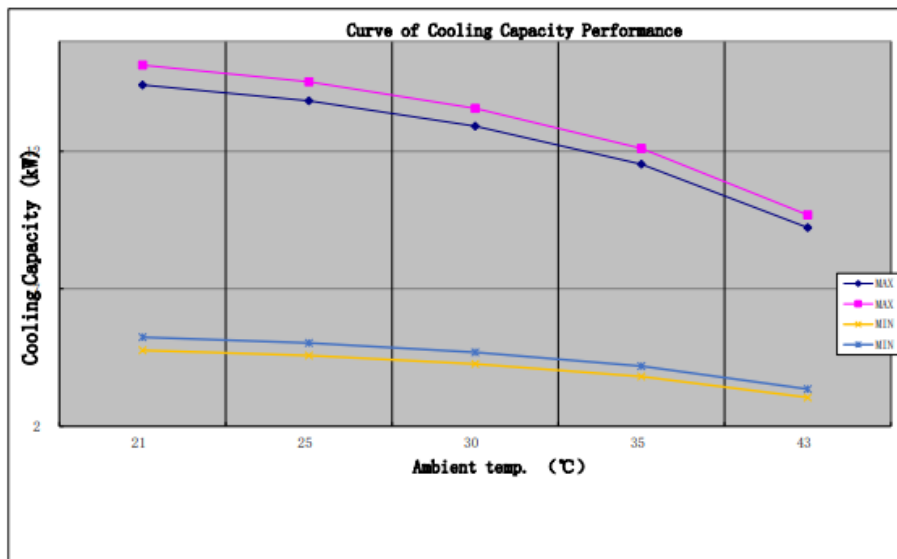
## PERFORMANCE CURVES - AE-18203-MO-(A) - HEATING

Water temp. outlet35°C	MAX	Heating Capacity (kW)	9.2	10.3	11.3	11.9	12.3	12.9	13.3	14.5	15.9	17.7	18.2	18.9	19.1	19.5	20.0	
		Input power (kW)	4.3	4.3	4.2	4.2	4.2	4.2	4.2	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1
		COP	2.14	2.40	2.66	2.83	2.94	3.10	3.21	3.53	3.87	4.32	4.43	4.59	4.65	4.74	4.86	
	MIN	Heating Capacity (kW)	3.5	3.7	3.9	4.0	4.1	4.2	4.3	4.7	5.2	5.8	5.9	6.1	6.2	6.3	6.5	
		Input power (kW)	1.26	1.25	1.24	1.23	1.22	1.22	1.21	1.20	1.20	1.20	1.20	1.21	1.22	1.23	1.25	
		COP	2.81	2.99	3.18	3.26	3.37	3.49	3.58	3.93	4.29	4.79	4.92	5.05	5.10	5.12	5.19	
Water temp. outlet45°C	MAX	Heating Capacity (kW)	8.9	9.9	10.9	11.5	11.9	12.5	12.9	14.0	15.3	17.1	17.6	18.2	18.4	18.8	19.3	
		Input power (kW)	5.0	5.0	4.9	4.9	4.9	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	
		COP	1.78	2.00	2.22	2.35	2.44	2.58	2.67	2.94	3.22	3.59	3.68	3.82	3.87	3.94	4.05	
	MIN	Heating Capacity (kW)	3.4	3.6	3.8	3.9	4.0	4.1	4.2	4.6	5.0	5.5	5.7	5.9	6.0	6.1	6.3	
		Input power (kW)	1.46	1.45	1.43	1.43	1.42	1.41	1.41	1.39	1.39	1.39	1.39	1.40	1.41	1.43	1.45	
		COP	2.34	2.49	2.65	2.72	2.81	2.90	2.98	3.27	3.57	3.99	4.09	4.20	4.24	4.26	4.32	
Water temp. outlet55°C	MAX	Heating Capacity (kW)	8.5	9.5	10.4	11.0	11.4	12.0	12.3	13.4	14.7	16.4	16.8	17.5	17.7	18.0	18.5	
		Input power (kW)	5.7	5.6	5.6	5.6	5.5	5.5	5.5	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	
		COP	1.50	1.68	1.87	1.98	2.06	2.17	2.25	2.47	2.71	3.02	3.10	3.22	3.26	3.32	3.41	
	MIN	Heating Capacity (kW)	3.3	3.5	3.6	3.7	3.8	3.9	4.0	4.4	4.8	5.3	5.5	5.7	5.7	5.8	6.0	
		Input power (kW)	1.66	1.65	1.63	1.62	1.62	1.61	1.60	1.58	1.58	1.58	1.58	1.60	1.60	1.63	1.65	
		COP	1.97	2.10	2.23	2.29	2.36	2.45	2.51	2.76	3.01	3.36	3.45	3.54	3.57	3.59	3.64	
Ambient temp. (°C)			-25	-20	-15	-12	-10	-7	-5	0	2	5	7	10	12	15	21	



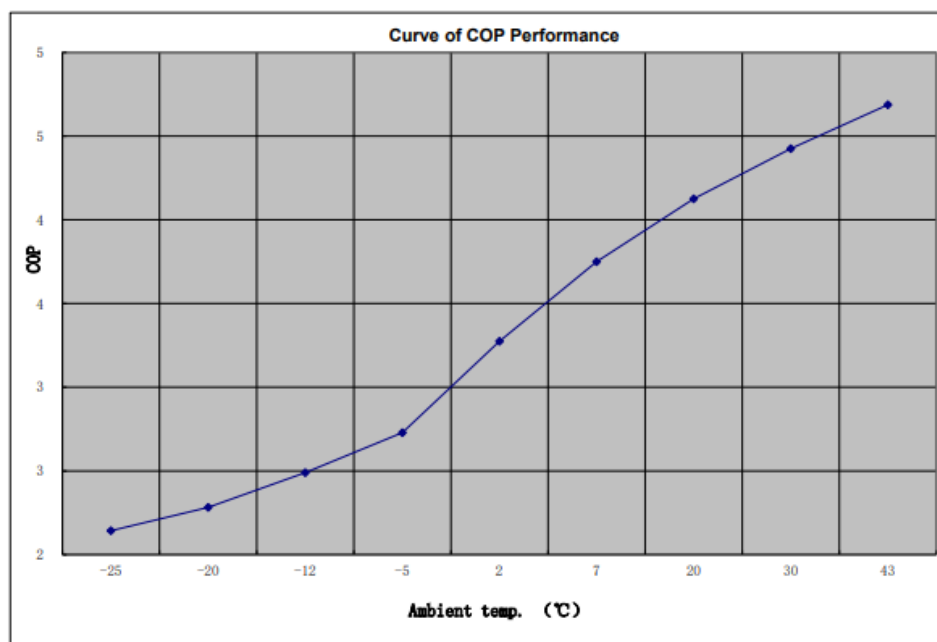
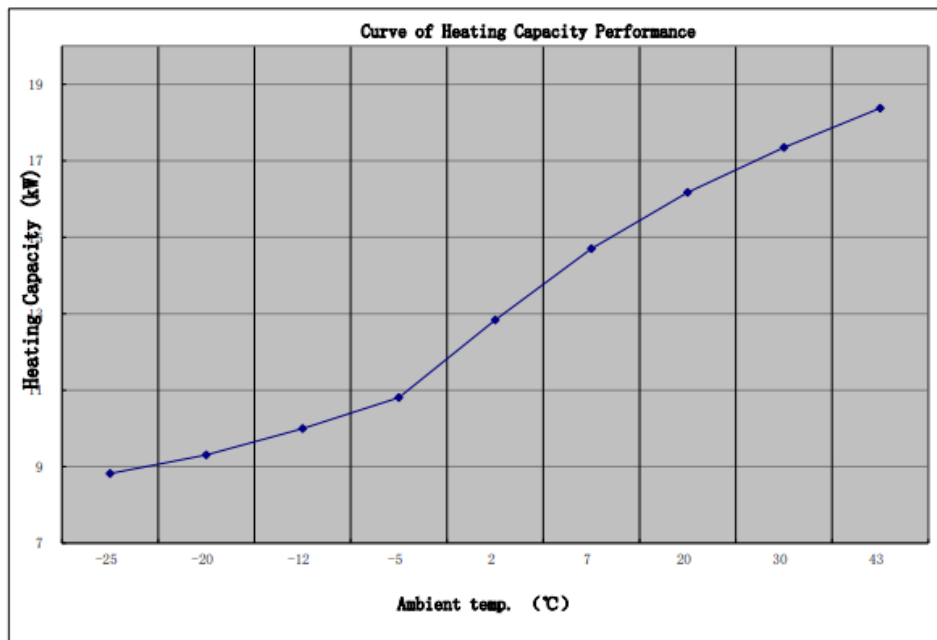
## PERFORMANCE CURVES - AE-18203-M0-(A) - COOLING

Water temp. outlet7°C	MAX	Cooling Capacity (kW)	14.4	13.8	12.9	11.5	9.2
		Input power (kW)	3.6	3.6	3.7	4.1	3.8
		EER	3.95	3.80	3.47	2.85	2.40
	MIN	Cooling Capacity (kW)	4.8	4.6	4.3	3.8	3.0
		Input power (kW)	1.00	1.00	1.02	1.11	1.05
		EER	4.77	4.58	4.18	3.43	2.89
Water temp. outlet18°C	MAX	Cooling Capacity (kW)	15.1	14.5	13.6	12.1	9.7
		Input power (kW)	3.3	3.3	3.4	3.6	3.5
		EER	4.61	4.43	4.04	3.32	2.80
	MIN	Cooling Capacity (kW)	5.2	5.0	4.7	4.2	3.4
		Input power (kW)	0.9	0.9	1.0	1.1	1.0
		EER	5.52	5.30	4.84	3.97	3.35
Ambient temp. (°C)			21	25	30	35	43



### PERFORMANCE CURVES - AE-18203-M0-(A) - DHW

Heating Capacity (kW)	8.8	9.3	10.0	10.8	12.8	14.7	16.2	17.3	18.4
Input power (kW)	4.12	4.08	4.01	3.96	3.92	3.92	3.92	3.92	3.92
COP	2.14	2.28	2.49	2.73	3.27	3.75	4.13	4.43	4.69
Ambient temp. (°C)	-25	-20	-12	-5	2	7	20	30	43





Inverter



Refrigerant Gas



Wi-Fi  
Included



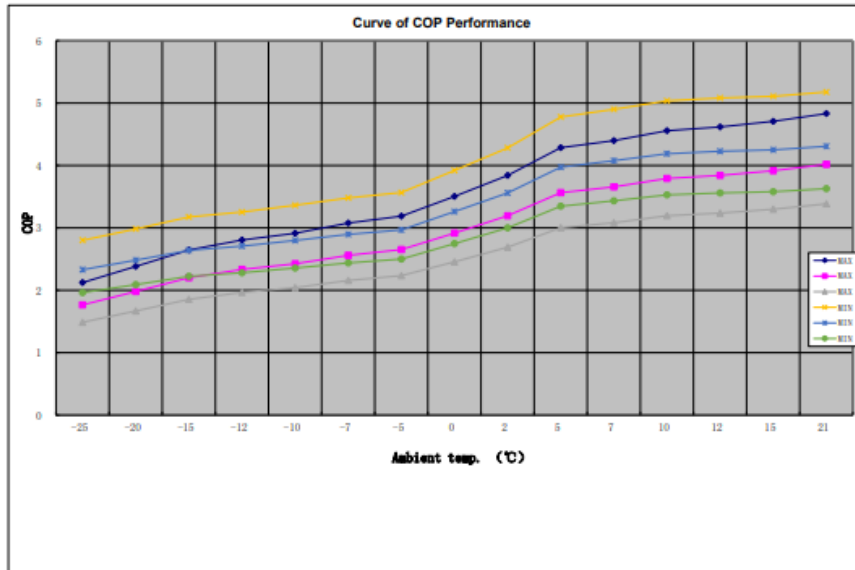
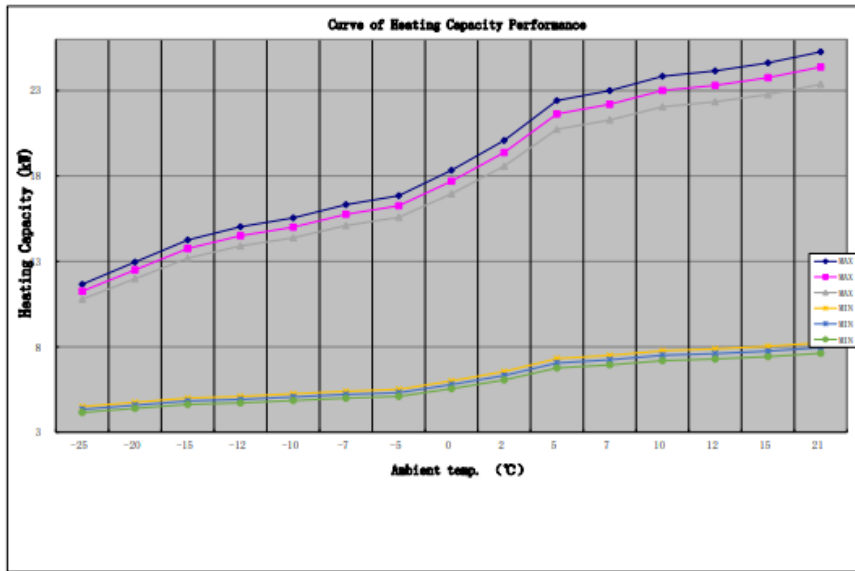
Wired Controller  
Included



PRODUCT INFORMATION		
<b>HEATING</b>	HEATING CAPACITY RANGE (kW)	7.5~23.0
	HEATING INPUT RANGE (kW)	1.53~5.23
	CURRENT RANGE (A)	2.37~8.11
	COP RANGE	4.40~4.90
<b>COOLING</b>	COOLING CAPACITY RANGE (kW)	4.73~14.6
	COOLING INPUT POWER (kW)	1.39~5.14
	CURRENT RANGE (A)	2.16~7.97
	EER RANGE	2.84~3.40
<b>DHW</b>	HEATING CAPACITY RANGE (kW)	6.1~18.5
	HEATING INPUT RANGE (kW)	1.53~5.97
	CURRENT RANGE (A)	2.37~9.26
	COP RANGE	3.1~4.0
REFRIGERANT		R32
POWER SUPPLY		380V/3Ph/50-60Hz
WORKING AREA		-30~43°C
WATER CIRCULATION (m <sup>3</sup> /H)		4.0
NOISE (DB(A))		≤58
NET WEIGHT/GROSS WEIGHT (KG)		180/190
DIAMETER OF PIPE (MM)		DN25
BODY SIZE (W*D*H) (MM)		1050×480×1330
ERP LEVEL (35°C)		A+++
ERP LEVEL (55°C)		A++
COMPRESSOR BRAND		Panasonic
FOUR-WAY VALVE		Sanhua
EXPANSION VALVE		Sanhua
OPERATING WATER TEMPERATURE (°C) DHW		9~60°C
OPERATING WATER TEMPERATURE (°C) HEATING		9~50°C
OPERATING WATER TEMPERATURE (°C) COOLING		7~35°C

## PERFORMANCE CURVES - AE-23003-MO-(A) - HEATING

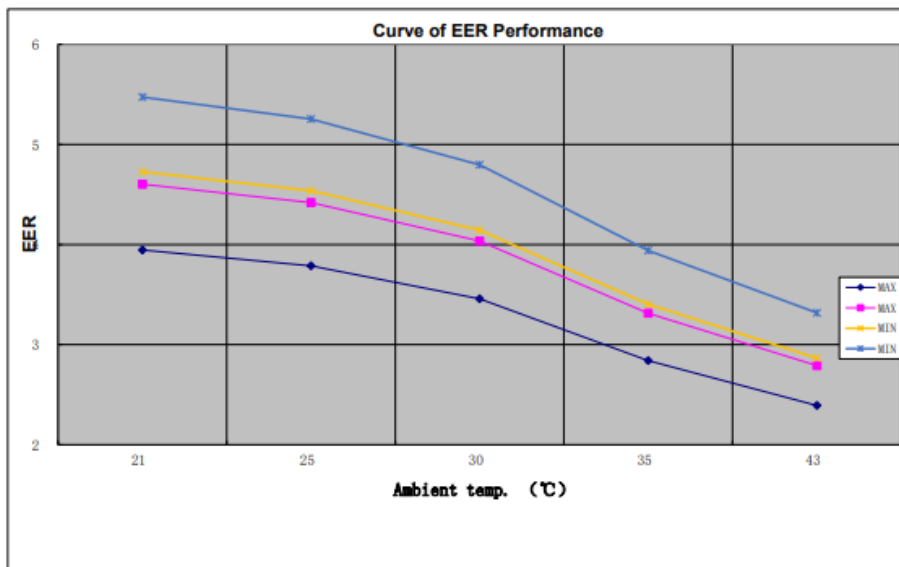
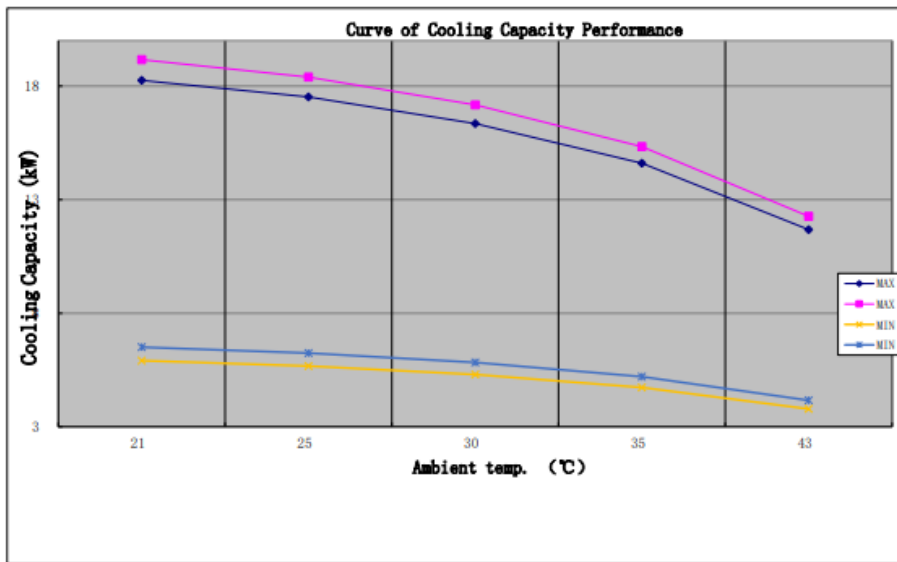
Water temp. outlet35°C	MAX	Heating Capacity (kW)	11.7	13.0	14.3	15.0	15.5	16.3	16.8	18.3	20.1	22.4	23.0	23.8	24.2	24.6	25.3	
		Input power (kW)	5.5	5.4	5.4	5.4	5.3	5.3	5.3	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2
		COP	2.12	2.38	2.65	2.81	2.91	3.08	3.19	3.51	3.84	4.29	4.40	4.56	4.62	4.71	4.83	
	MIN	Heating Capacity (kW)	4.5	4.7	5.0	5.1	5.3	5.4	5.5	6.0	6.5	7.3	7.5	7.8	7.9	8.0	8.2	
		Input power (kW)	1.61	1.59	1.58	1.57	1.56	1.55	1.55	1.53	1.53	1.53	1.53	1.54	1.55	1.57	1.59	
		COP	2.80	2.98	3.17	3.26	3.36	3.48	3.57	3.92	4.28	4.78	4.90	5.04	5.08	5.11	5.18	
Water temp. outlet45°C	MAX	Heating Capacity (kW)	11.3	12.5	13.8	14.5	15.0	15.8	16.3	17.7	19.4	21.6	22.2	23.0	23.3	23.8	24.4	
		Input power (kW)	6.4	6.3	6.2	6.2	6.2	6.2	6.1	6.1	6.1	6.1	6.1	6.1	6.1	6.1	6.1	
		COP	1.77	1.98	2.20	2.33	2.42	2.56	2.65	2.92	3.19	3.57	3.66	3.79	3.84	3.92	4.02	
	MIN	Heating Capacity (kW)	4.3	4.6	4.8	4.9	5.1	5.2	5.3	5.8	6.3	7.1	7.2	7.5	7.6	7.7	8.0	
		Input power (kW)	1.86	1.85	1.83	1.82	1.81	1.80	1.79	1.77	1.77	1.77	1.77	1.79	1.80	1.82	1.85	
		COP	2.33	2.48	2.64	2.71	2.80	2.90	2.97	3.26	3.56	3.97	4.08	4.19	4.23	4.25	4.31	
Water temp. outlet55°C	MAX	Heating Capacity (kW)	10.8	12.0	13.2	13.9	14.4	15.1	15.6	17.0	18.6	20.7	21.3	22.1	22.3	22.8	23.4	
		Input power (kW)	7.2	7.2	7.1	7.1	7.0	7.0	7.0	6.9	6.9	6.9	6.9	6.9	6.9	6.9	6.9	
		COP	1.49	1.67	1.85	1.97	2.04	2.16	2.23	2.46	2.69	3.00	3.08	3.19	3.24	3.30	3.39	
	MIN	Heating Capacity (kW)	4.2	4.4	4.6	4.7	4.9	5.0	5.1	5.6	6.1	6.8	6.9	7.2	7.3	7.4	7.6	
		Input power (kW)	2.12	2.10	2.08	2.07	2.06	2.05	2.04	2.02	2.02	2.02	2.02	2.04	2.05	2.07	2.10	
		COP	1.96	2.09	2.22	2.28	2.36	2.44	2.50	2.75	3.00	3.35	3.44	3.53	3.56	3.58	3.63	
Ambient temp. (°C)			-25	-20	-15	-12	-10	-7	-5	0	2	5	7	10	12	15	21	





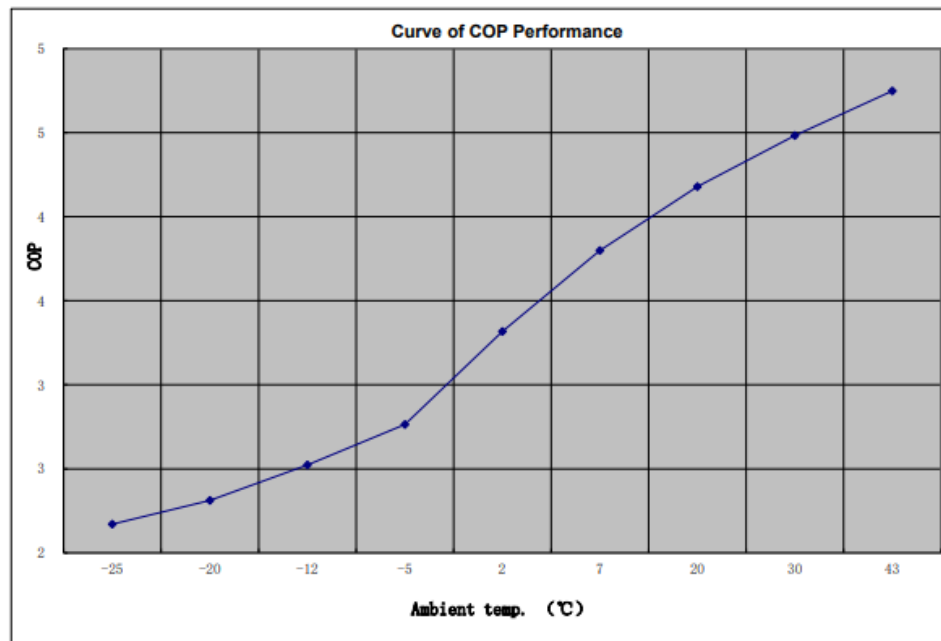
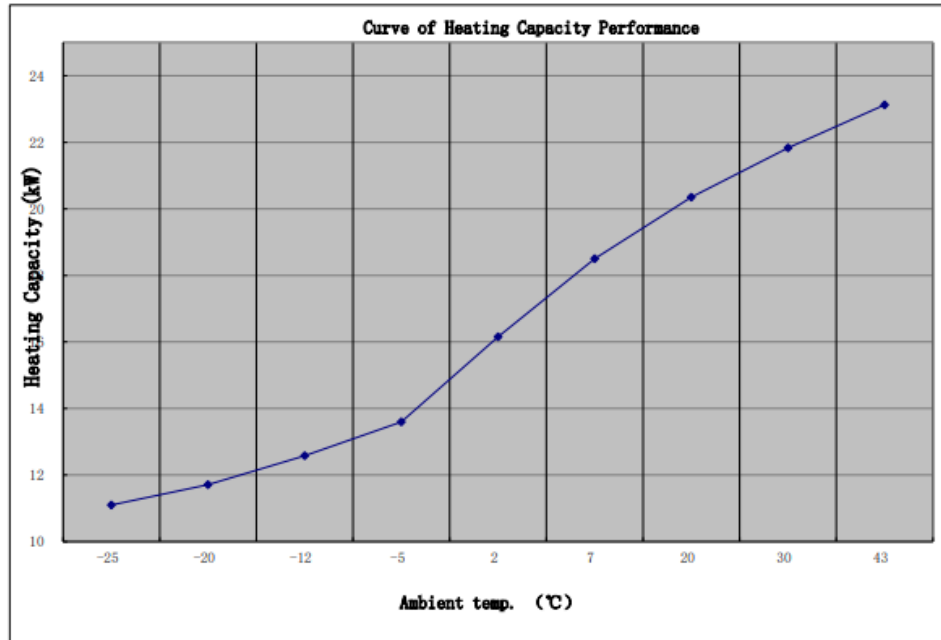
## PERFORMANCE CURVES - AE-23003-MO-(A) - COOLING

Water temp. outlet7°C	MAX	Cooling Capacity (kW)	18.3	17.5	16.4	14.6	11.7
		Input power (kW)	4.6	4.6	4.7	5.1	4.9
		EER	3.95	3.79	3.46	2.84	2.39
	MIN	Cooling Capacity (kW)	5.9	5.7	5.3	4.7	3.8
		Input power (kW)	1.25	1.25	1.28	1.39	1.32
		EER	4.73	4.54	4.14	3.40	2.87
Water temp. outlet18°C	MAX	Cooling Capacity (kW)	19.2	18.4	17.2	15.3	12.3
		Input power (kW)	4.2	4.2	4.3	4.6	4.4
		EER	4.60	4.42	4.03	3.31	2.79
	MIN	Cooling Capacity (kW)	6.5	6.2	5.8	5.2	4.2
		Input power (kW)	1.2	1.2	1.2	1.3	1.3
		EER	5.47	5.25	4.80	3.94	3.32
Ambient temp. (°C)			21	25	30	35	43



### PERFORMANCE CURVES - AE-23003-MO-(A) - DHW

Heating Capacity (kW)	11.1	11.7	12.6	13.6	16.2	18.5	20.4	21.8	23.1
Input power (kW)	5.11	5.06	4.99	4.92	4.87	4.87	4.87	4.87	4.87
COP	2.17	2.31	2.52	2.76	3.32	3.80	4.18	4.48	4.75
Ambient temp. (°C)	-25	-20	-12	-5	2	7	20	30	43





Inverter



Refrigerant Gas



Wi-Fi  
Included



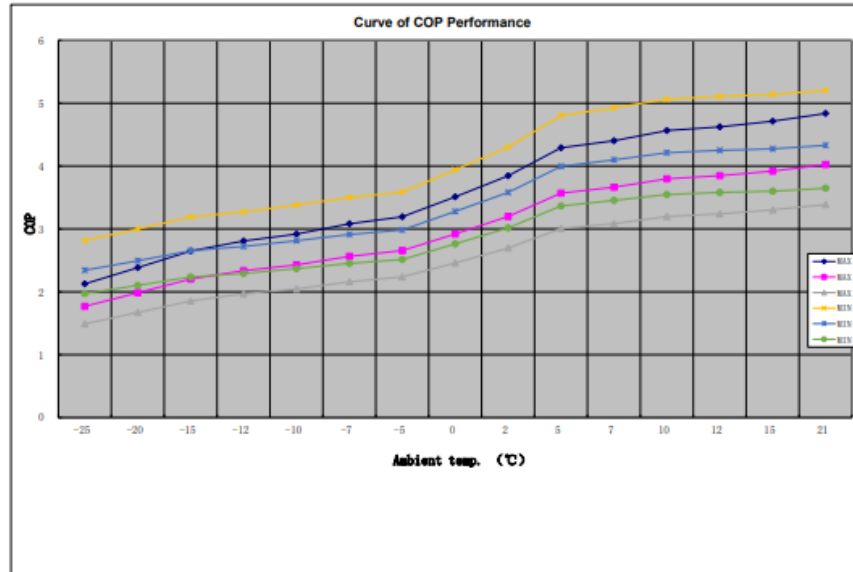
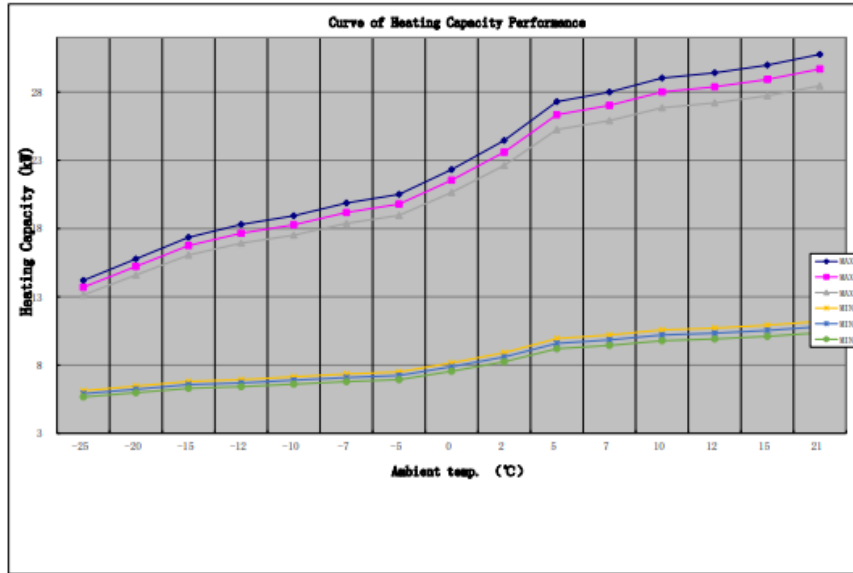
Wired Controller  
Included



PRODUCT INFORMATION		
<b>HEATING</b>	HEATING CAPACITY RANGE (kW)	9.6~26.1
	HEATING INPUT RANGE (kW)	1.98~6.11
	CURRENT RANGE (A)	3.54~10.92
	COP RANGE	4.27~4.85
<b>COOLING</b>	COOLING CAPACITY RANGE (kW)	10.1~18.1
	COOLING INPUT POWER (kW)	2.98~6.68
	CURRENT RANGE (A)	5.33~11.94
	EER RANGE	2.71~3.39
<b>DHW</b>	HEATING CAPACITY RANGE (kW)	10.7~22.6
	HEATING INPUT RANGE (kW)	2.61~7.06
	CURRENT RANGE (A)	4.67~12.62
	COP RANGE	3.2~4.1
REFRIGERANT		R32
POWER SUPPLY		380V/3Ph/50-60Hz
WORKING AREA		-30~43°C
WATER CIRCULATION (m <sup>3</sup> /H)		4.5
NOISE (DB(A))		61
NET WEIGHT/GROSS WEIGHT (KG)		210/220
DIAMETER OF PIPE (MM)		DN32
BODY SIZE (W*D*H) (MM)		1050×520×1380
ERP LEVEL (35°C)		A++
ERP LEVEL (55°C)		A++
COMPRESSOR BRAND		Panasonic
FOUR-WAY VALVE		Sanhua
EXPANSION VALVE		Sanhua
OPERATING WATER TEMPERATURE (°C) DHW		9~60°C
OPERATING WATER TEMPERATURE (°C) HEATING		9~50°C
OPERATING WATER TEMPERATURE (°C) COOLING		7~35°C

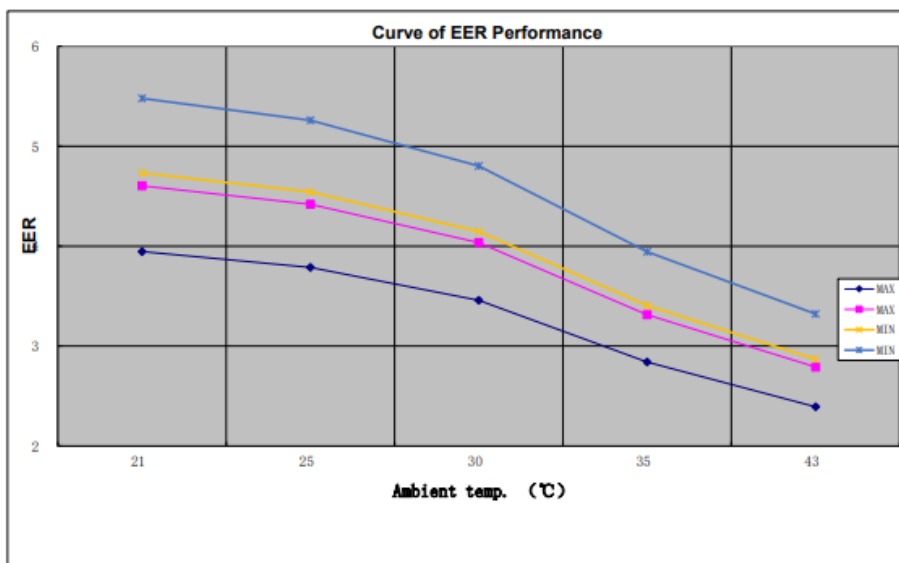
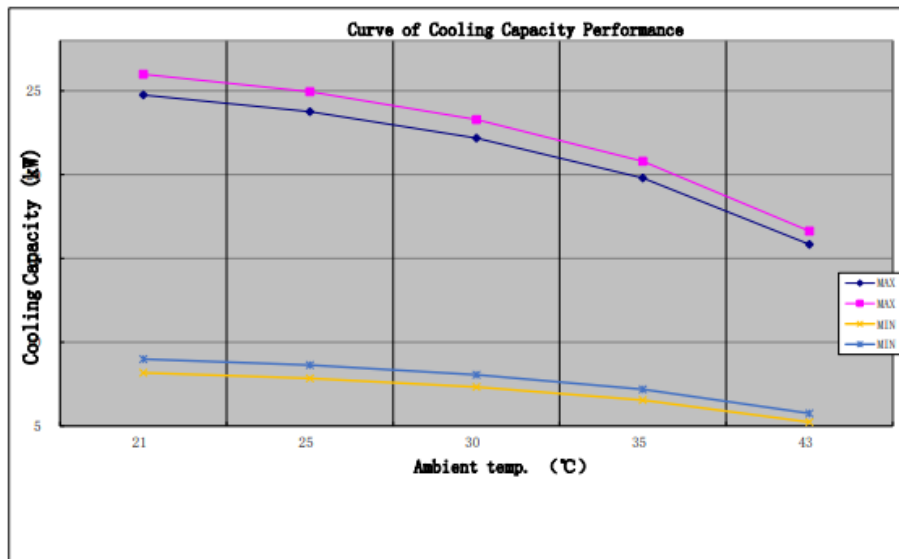
## PERFORMANCE CURVES - AE-26103-MO-(A) - HEATING

Water temp. outlet35°C	MAX	Heating Capacity (kW)	14.2	15.8	17.4	18.3	18.9	19.9	20.5	22.3	24.5	27.3	28.0	29.0	29.4	30.0	30.8	
		Input power (kW)	6.7	6.6	6.6	6.5	6.5	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4
		COP	2.13	2.38	2.65	2.81	2.92	3.08	3.19	3.51	3.84	4.29	4.40	4.56	4.62	4.71	4.84	
	MIN	Heating Capacity (kW)	6.1	6.5	6.8	6.9	7.1	7.3	7.5	8.2	8.9	9.9	10.2	10.6	10.7	10.9	11.2	
		Input power (kW)	2.17	2.15	2.13	2.12	2.11	2.10	2.09	2.07	2.07	2.07	2.07	2.09	2.10	2.13	2.15	
		COP	2.82	3.00	3.19	3.27	3.38	3.50	3.59	3.94	4.30	4.80	4.93	5.06	5.11	5.14	5.21	
Water temp. outlet45°C	MAX	Heating Capacity (kW)	13.7	15.2	16.7	17.7	18.3	19.2	19.8	21.5	23.6	26.3	27.0	28.0	28.4	28.9	29.7	
		Input power (kW)	7.7	7.7	7.6	7.6	7.5	7.5	7.5	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4
		COP	1.77	1.96	2.20	2.34	2.43	2.56	2.66	2.92	3.20	3.57	3.66	3.80	3.85	3.92	4.02	
	MIN	Heating Capacity (kW)	5.9	6.2	6.6	6.7	6.9	7.1	7.2	7.9	8.6	9.6	9.8	10.2	10.3	10.5	10.8	
		Input power (kW)	2.52	2.50	2.47	2.46	2.45	2.43	2.43	2.40	2.40	2.40	2.40	2.42	2.43	2.47	2.50	
		COP	2.34	2.49	2.65	2.72	2.81	2.91	2.98	3.28	3.58	4.00	4.10	4.21	4.25	4.27	4.33	
Water temp. outlet55°C	MAX	Heating Capacity (kW)	13.1	14.6	16.1	16.9	17.5	18.4	19.0	20.6	22.6	25.2	25.9	26.8	27.2	27.7	28.5	
		Input power (kW)	8.8	8.7	8.6	8.6	8.6	8.5	8.5	8.4	8.4	8.4	8.4	8.4	8.4	8.4	8.4	8.4
		COP	1.49	1.67	1.86	1.97	2.04	2.16	2.24	2.46	2.69	3.01	3.09	3.20	3.24	3.30	3.39	
	MIN	Heating Capacity (kW)	5.7	6.0	6.3	6.4	6.6	6.8	6.9	7.5	8.2	9.2	9.4	9.8	9.9	10.1	10.4	
		Input power (kW)	2.87	2.84	2.81	2.80	2.79	2.77	2.76	2.73	2.73	2.73	2.73	2.76	2.77	2.81	2.84	
		COP	1.97	2.10	2.24	2.29	2.37	2.45	2.51	2.76	3.02	3.37	3.45	3.55	3.58	3.60	3.65	
Ambient temp. (°C)			-25	-20	-15	-12	-10	-7	-5	0	2	5	7	10	12	15	21	



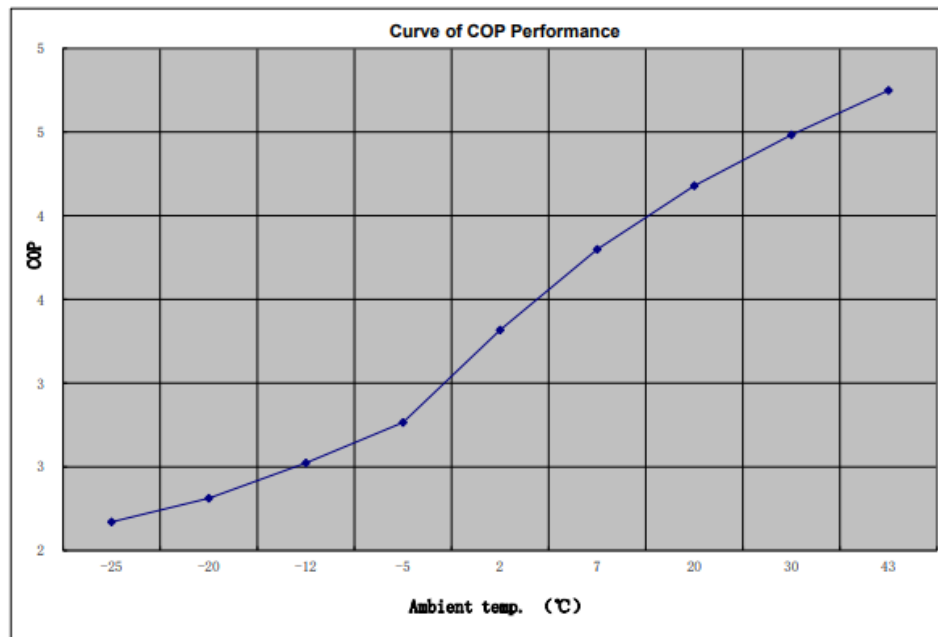
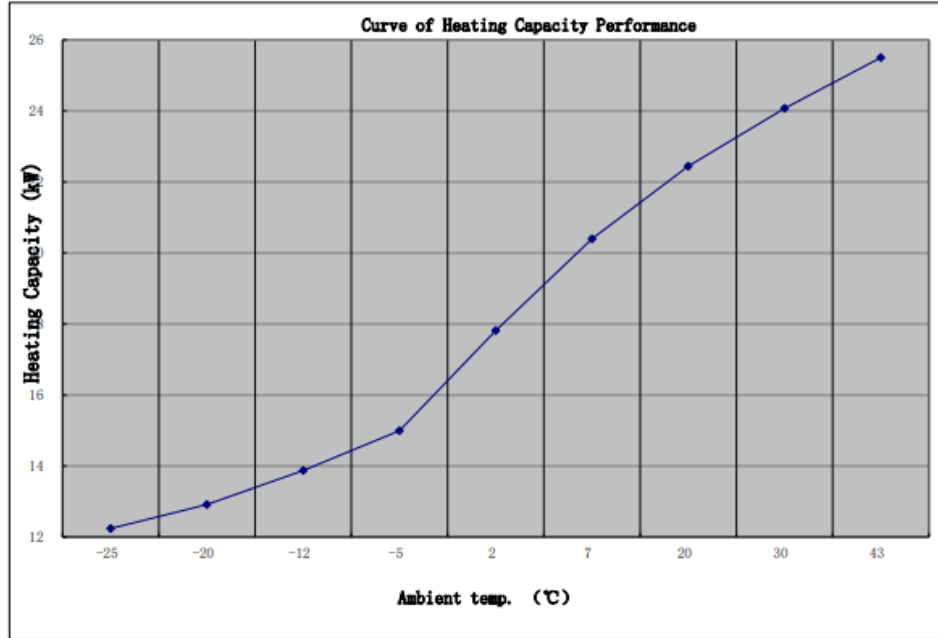
## PERFORMANCE CURVES - AE-26103-M0-(A) - COOLING

Water temp. outlet 7°C	MAX	Cooling Capacity (kW)	24.8	23.8	22.2	19.8	15.8
		Input power (kW)	6.3	6.3	6.4	7.0	6.6
		EER	3.95	3.79	3.46	2.84	2.39
	MIN	Cooling Capacity (kW)	8.2	7.8	7.3	6.5	5.2
		Input power (kW)	1.73	1.73	1.77	1.92	1.82
		EER	4.73	4.54	4.15	3.41	2.87
Water temp. outlet 18°C	MAX	Cooling Capacity (kW)	26.0	24.9	23.3	20.8	16.6
		Input power (kW)	5.6	5.6	5.8	6.3	6.0
		EER	4.60	4.42	4.03	3.31	2.79
	MIN	Cooling Capacity (kW)	9.0	8.6	8.1	7.2	5.8
		Input power (kW)	1.6	1.6	1.7	1.8	1.7
		EER	5.48	5.26	4.80	3.94	3.32
Ambient temp. (°C)			21	25	30	35	43



## PERFORMANCE CURVES - AE-26103-M0-(A) - DHW

Heating Capacity (kW)	12.2	12.9	13.9	15.0	17.8	20.4	22.4	24.1	25.5
Input power (kW)	5.64	5.58	5.50	5.42	5.37	5.37	5.37	5.37	5.37
COP	2.17	2.31	2.52	2.76	3.32	3.80	4.18	4.48	4.75
Ambient temp. (°C)	-25	-20	-12	-5	2	7	20	30	43





Inverter



Refrigerant Gas



Wi-Fi  
Included



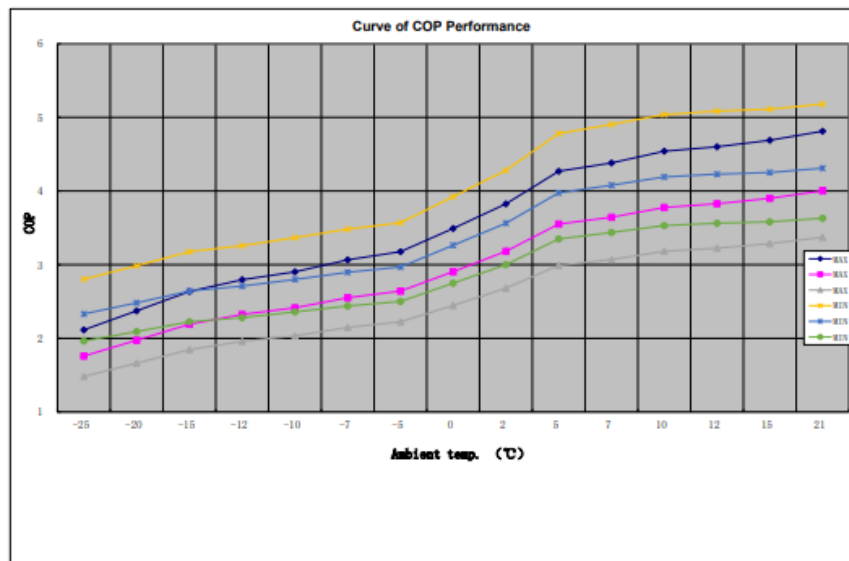
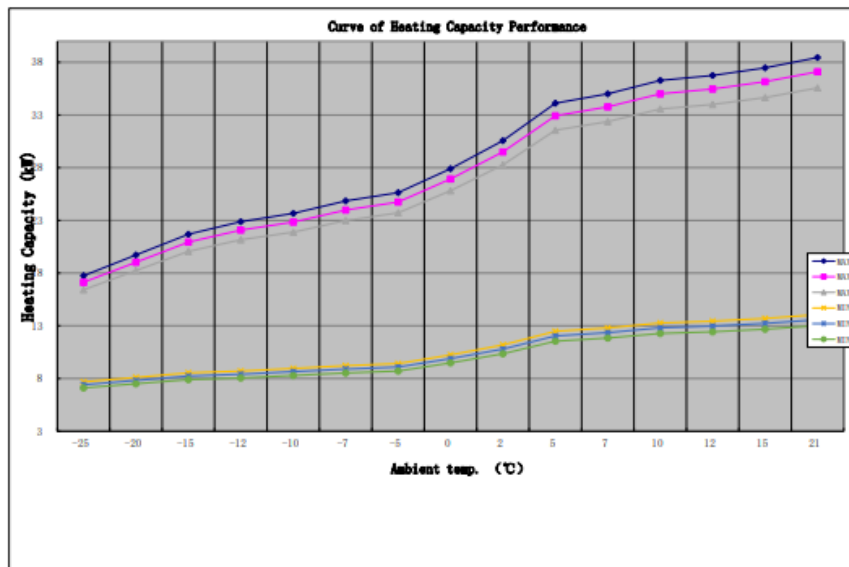
Wired Controller  
Included



PRODUCT INFORMATION		
<b>HEATING</b>	HEATING CAPACITY RANGE (kW)	11.2~30.8
	HEATING INPUT RANGE (kW)	2.30~7.15
	CURRENT RANGE (A)	4.11~12.78
	COP RANGE	4.31~4.87
<b>COOLING</b>	COOLING CAPACITY RANGE (kW)	11.8~22.8
	COOLING INPUT POWER (kW)	3.47~8.35
	CURRENT RANGE (A)	6.20~14.93
	EER RANGE	2.73~3.40
<b>DHW</b>	HEATING CAPACITY RANGE (kW)	11.5~30.7
	HEATING INPUT RANGE (kW)	2.88~9.90
	CURRENT RANGE (A)	5.15~17.69
	COP RANGE	3.1~3.99
REFRIGERANT		R32
POWER SUPPLY		380V/3Ph/50-60Hz
WORKING AREA		-30~43°C
WATER CIRCULATION (m <sup>3</sup> /H)		5.3
NOISE (DB(A))		66
NET WEIGHT/GROSS WEIGHT (KG)		210/2220
DIAMETER OF PIPE (MM)		DN32
BODY SIZE (W*D*H) (MM)		1050×520×1380
ERP LEVEL (35°C)		A++
ERP LEVEL (55°C)		A++
COMPRESSOR BRAND		Panasonic
FOUR-WAY VALVE		Sanhua
EXPANSION VALVE		Sanhua
OPERATING WATER TEMPERATURE (°C) DHW		9~60°C
OPERATING WATER TEMPERATURE (°C) HEATING		9~50°C
OPERATING WATER TEMPERATURE (°C) COOLING		7~35°C

## PERFORMANCE CURVES - AE-30803-MO-(A) - HEATING

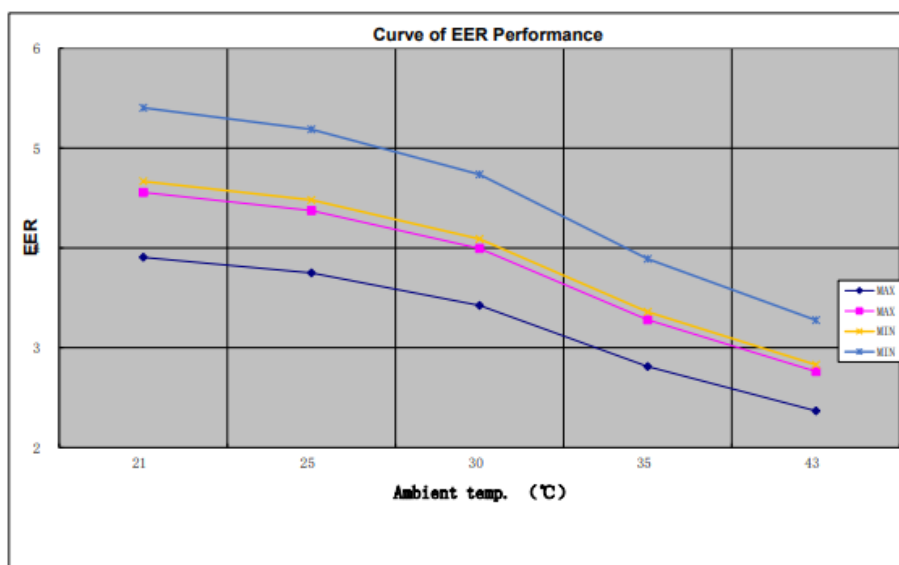
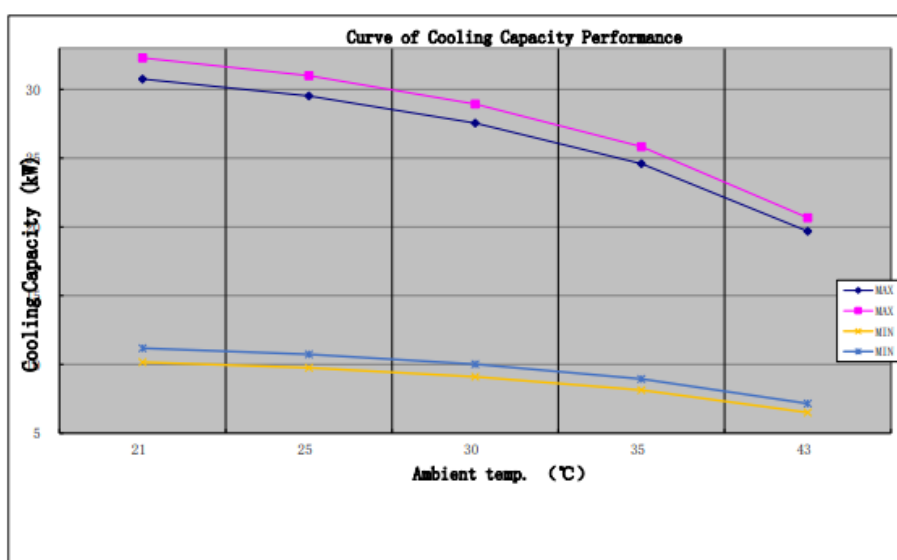
Water temp. outlet35°C	MAX	Heating Capacity (kW)	17.7	19.7	21.7	22.9	23.7	24.8	25.6	27.9	30.6	34.1	35.0	36.3	36.8	37.5	38.5
		Input power (kW)	8.4	8.3	8.2	8.2	8.1	8.1	8.1	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0
	MIN	Heating Capacity (kW)	7.7	8.1	8.5	8.7	9.0	9.2	9.4	10.2	11.2	12.5	12.8	13.3	13.4	13.7	14.1
		COP	2.12	2.37	2.64	2.80	2.90	3.07	3.18	3.49	3.83	4.27	4.38	4.54	4.60	4.69	4.81
Water temp. outlet45°C	MAX	Heating Capacity (kW)	17.1	19.0	20.9	22.1	22.8	24.0	24.7	26.9	29.5	32.9	33.8	35.0	35.5	36.2	37.1
		Input power (kW)	9.7	9.6	9.5	9.5	9.5	9.4	9.4	9.3	9.3	9.3	9.3	9.3	9.3	9.3	9.3
	MIN	Heating Capacity (kW)	7.4	7.8	8.2	8.4	8.6	8.9	9.1	9.9	10.8	12.0	12.4	12.8	13.0	13.2	13.6
		COP	1.76	1.97	2.19	2.33	2.42	2.55	2.64	2.91	3.18	3.55	3.64	3.78	3.83	3.90	4.00
Water temp. outlet55°C	MAX	Heating Capacity (kW)	16.4	18.2	20.1	21.2	21.9	23.0	23.7	25.8	28.3	31.6	32.4	33.6	34.0	34.7	35.6
		Input power (kW)	11.1	11.0	10.9	10.8	10.8	10.7	10.7	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5
	MIN	Heating Capacity (kW)	7.1	7.5	7.9	8.1	8.3	8.5	8.7	9.5	10.3	11.5	11.8	12.3	12.4	12.7	13.0
		COP	1.48	1.66	1.85	1.96	2.03	2.15	2.23	2.45	2.68	2.99	3.07	3.18	3.22	3.29	3.37
Ambient temp. (°C)			-25	-20	-15	-12	-10	-7	-5	0	2	5	7	10	12	15	21





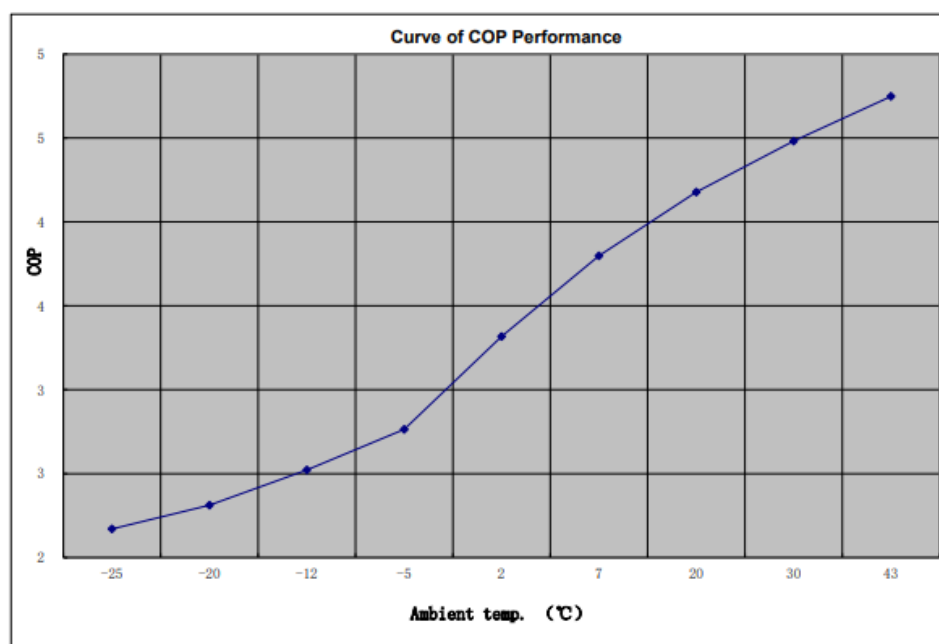
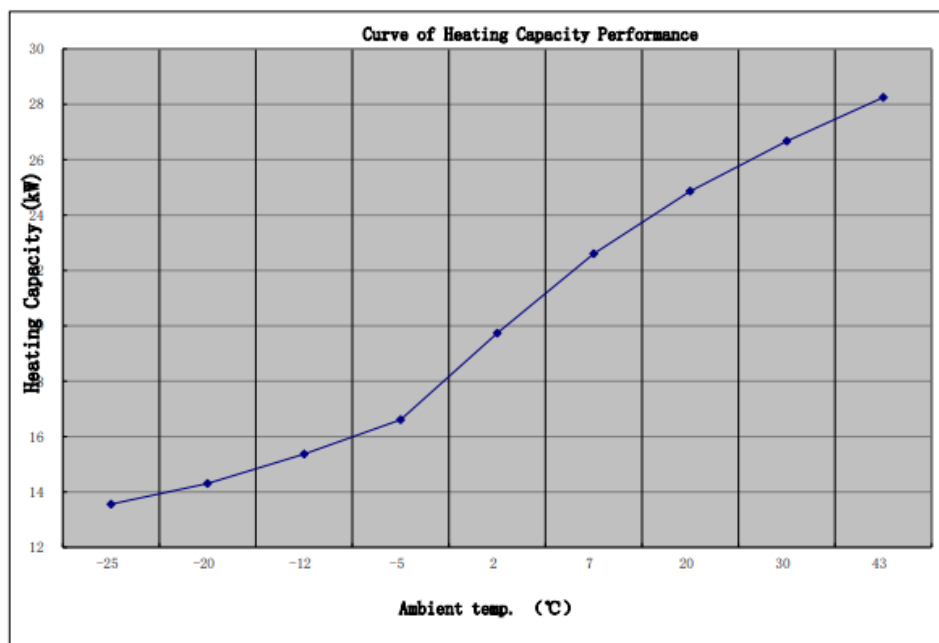
## PERFORMANCE CURVES - AE-30803-MO-(A) - COOLING

Water temp. outlet 7°C	MAX	Heating Capacity (kW)	30.8	29.5	27.6	24.6	19.7
		Input power (kW)	7.9	7.9	8.1	8.8	8.3
		COP	3.90	3.75	3.42	2.81	2.37
	MIN	Heating Capacity (kW)	10.2	9.8	9.1	8.1	6.5
		Input power (kW)	2.18	2.18	2.23	2.42	2.30
		COP	4.67	4.48	4.09	3.36	2.83
Water temp. outlet 18°C	MAX	Heating Capacity (kW)	32.3	31.0	28.9	25.8	20.7
		Input power (kW)	7.1	7.1	7.2	7.9	7.5
		COP	4.56	4.37	3.99	3.28	2.76
	MIN	Heating Capacity (kW)	11.2	10.7	10.0	8.9	7.2
		Input power (kW)	2.1	2.1	2.1	2.3	2.2
		COP	5.40	5.19	4.74	3.89	3.28
Ambient temp. (°C)			21	25	30	35	43



## PERFORMANCE CURVES - AE-30803-MO-(A) - DHW

Heating Capacity (kW)	13.6	14.3	15.4	16.6	19.7	22.6	24.9	26.7	28.3
Input power (kW)	6.25	6.19	6.09	6.01	5.95	5.95	5.95	5.95	5.95
COP	2.17	2.31	2.52	2.76	3.32	3.80	4.18	4.48	4.75
Ambient temp. (°C)	-25	-20	-12	-5	2	7	20	30	43



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