

Service Manual

Air Conditioner



Indoor Unit
CS-MRE7RKE
CS-RE9RKEW
CS-RE12RKEW

Outdoor Unit
CU-2RE15PBE
CU-2RE18PBE

Destination
Europe

WARNING

This service information is designed for experienced repair technicians only and is not designed for use by the general public. It does not contain warnings or cautions to advise non-technical individuals of potential dangers in attempting to service a product. Products powered by electricity should be serviced or repaired only by experienced professional technicians. Any attempt to service or repair the product or products dealt with in this service information by anyone else could result in serious injury or death.

IMPORTANT SAFETY NOTICE

There are special components used in this equipment which are important for safety. These parts are marked by  in the Schematic Diagrams, Circuit Board Diagrams, Exploded Views and Replacement Parts List. It is essential that these critical parts should be replaced with manufacturer's specified parts to prevent shock, fire or other hazards. Do not modify the original design without permission of manufacturer.



PRECAUTION OF LOW TEMPERATURE

In order to avoid frostbite, be assured of no refrigerant leakage during the installation or repairing of refrigerant circuit.

2. Specifications

2.1 CS-MRE7RKE

MODEL				INDOOR		CS-MRE7RKE						
				OUTDOOR		CU-2RE15PBE / CU-2RE18PBE						
Performance Test Condition						EUROVENT						
Power Supply				Phase, Hz		Single, 50						
				V		230						
						Min.		Mid.		Max.		
Cooling	Capacity			kW		1.10		2.00		2.50		
				BTU/h		3750		6820		8530		
	Running Current			A		-		2.60		-		
	Input Power			W		230		550		690		
	Annual Consumption			kWh		-		275		-		
	EER			W/W		4.78		3.64		3.62		
	Indoor Noise (H / L / QLo)			dB-A		42 / 28 / 24						
				Power Level dB		58 / - / -						
Heating	Capacity			kW		0.70		3.20		4.30		
				BTU/h		2390		10900		14700		
	Running Current			A		-		4.15		-		
	Input Power			W		190		940		1.35k		
	COP			W/W		3.68		3.40		3.19		
	Indoor Noise (H / L / QLo)			dB-A		42 / 29 / 26						
				Power Level dB		58 / - / -						
	Indoor Fan	Type					Cross-flow Fan					
Material					ASG20K1							
Motor Type					DC / Transistor (8-poles)							
Input Power			W		47.3							
Output Power			W		40							
Speed		QLo	Cool	rpm		560						
			Heat	rpm		690						
		Lo	Cool	rpm		680						
			Heat	rpm		760						
		Me	Cool	rpm		880						
			Heat	rpm		960						
		Hi	Cool	rpm		1080						
			Heat	rpm		1170						
		SHi	Cool	rpm		1130						
			Heat	rpm		1220						
Moisture Removal				L/h (Pt/h)		1.3 (2.7)						
Indoor Airflow		QLo	Cool	m³/min (ft³/min)		5.26 (186)						
			Heat	m³/min (ft³/min)		6.77 (239)						
	Lo	Cool	m³/min (ft³/min)		6.68 (236)							
		Heat	m³/min (ft³/min)		7.58 (268)							
	Me	Cool	m³/min (ft³/min)		9.04 (319)							
		Heat	m³/min (ft³/min)		9.99 (353)							
	Hi	Cool	m³/min (ft³/min)		11.40 (402)							
		Heat	m³/min (ft³/min)		12.40 (438)							
	SHi	Cool	m³/min (ft³/min)		11.99 (423)							
		Heat	m³/min (ft³/min)		12.99 (459)							

MODEL		INDOOR	CS-MRE7RKE	
		OUTDOOR	CU-2RE15PBE / CU-2RE18PBE	
Dimension	Height (I/D)	mm (inch)	290 (11-7/16)	
	Width (I/D)	mm (inch)	870 (34-9/32)	
	Depth (I/D)	mm (inch)	214 (8-7/16)	
Weight	Net (I/D)	kg (lb)	9 (20)	
Piping	Pipe Diameter (Liquid / Gas)	mm (inch)	6.35 (1/4) / 9.52 (3/8)	
Drain Hose	Inner Diameter	mm	16	
	Length	mm	650	
Indoor Heat Exchanger	Fin Material		Aluminium (Pre Coat)	
	Fin Type		Slit Fin	
	Row x Stage x FPI		2 x 15 x 17	
	Size (W x H x L)	mm	610 x 315 x 25.4	
Air Filter	Material		Polypropelene	
	Type		One-touch	
Power Supply			Outdoor Power Supply	
Power Supply Cord		A	Nil	
			Dry Bulb	Wet Bulb
Indoor Operation Range	Cooling	Maximum °C	32	23
		Minimum °C	16	11
	Heating	Maximum °C	30	-
		Minimum °C	16	-

- Cooling capacities are based on indoor temperature of 27°C Dry Bulb (80.6°F Dry Bulb), 19.0°C Wet Bulb (66.2°F Wet Bulb) and outdoor air temperature of 35°C Dry Bulb (95°F Dry Bulb), 24°C Wet Bulb (75.2°F Wet Bulb)
- Heating capacities are based on indoor temperature of 20°C Dry Bulb (68°F Dry Bulb) and outdoor air temperature of 7°C Dry Bulb (44.6°F Dry Bulb), 6°C Wet Bulb (42.8°F Wet Bulb)
- Heating low temperature capacity, Input Power and COP measured at 230 V, indoor temperature 20°C, outdoor 2/1°C
- Heating extreme low temperature capacity, Input Power and COP measured at 230 V, indoor temperature 20°C, outdoor -7/-8°C
- Specifications are subjected to change without prior notice for further improvement.

2.2 CS-RE9RKEW CS-RE12RKEW

MODEL				INDOOR		CS-RE9RKEW			CS-RE12RKEW		
				OUTDOOR		CU-2RE15PBE / CU-2RE18PBE					
Performance Test Condition					EUROVENT						
Power Supply				Phase, Hz		Single, 50					
				V		230					
					Min.	Mid.	Max.	Min.	Mid.	Max.	
Cooling	Capacity			kW		1.10	2.50	3.10	1.10	3.20	3.70
				BTU/h		3750	8530	10600	3750	10900	12600
	Running Current			A		-	3.35	-	-	4.60	-
	Input Power			W		230	710	950	230	980	1.21k
	Annual Consumption			kWh		-	355	-	-	490	-
	EER			W/W		4.78	3.52	3.26	4.78	3.27	3.06
	Indoor Noise (H / L / QLo)			dB-A		43 / 28 / 24			44 / 32 / 24		
				Power Level dB		59 / - / -			60 / - / -		
Heating	Capacity			kW		0.70	3.60	5.00	0.70	4.50	5.70
				BTU/h		2390	12300	17100	2390	15300	19400
	Running Current			A		-	4.95	-	-	6.15	-
	Input Power			W		190	1.12k	1.66k	190	1.39k	1.78k
	COP			W/W		3.68	3.21	3.01	3.68	3.24	3.20
	Indoor Noise (H / L / QLo)			dB-A		43 / 29 / 26			44 / 35 / 27		
				Power Level dB		59 / - / -			60 / - / -		
	Indoor Fan	Type					Cross-flow Fan			Cross-flow Fan	
Material					ASG20K1			ASG20K1			
Motor Type					DC Transistor (8-poles)			DC Transistor (8-poles)			
Input Power			W		47.3			47.3			
Output Power			W		40			40			
Speed		QLo	Cool	rpm	560			610			
			Heat	rpm	690			750			
		Lo	Cool	rpm	680			800			
			Heat	rpm	760			960			
		Me	Cool	rpm	890			990			
			Heat	rpm	980			1100			
		Hi	Cool	rpm	1110			1190			
			Heat	rpm	1200			1250			
SHi		Cool	rpm	1160			1240				
		Heat	rpm	1250			1300				
Moisture Removal				L/h (Pt/h)		1.5 (3.2)			1.8 (3.8)		
Indoor Airflow	QLo	Cool	m³/min (ft³/min)	5.24 (185)			5.85 (207)				
		Heat	m³/min (ft³/min)	6.79 (240)			7.50 (265)				
	Lo	Cool	m³/min (ft³/min)	6.65 (235)			8.10 (286)				
		Heat	m³/min (ft³/min)	7.61 (269)			10.00 (3.53)				
	Me	Cool	m³/min (ft³/min)	9.18 (324)			10.40 (367)				
		Heat	m³/min (ft³/min)	10.20 (360)			11.00 (388)				
	Hi	Cool	m³/min (ft³/min)	11.7 (413)			12.7 (448)				
		Heat	m³/min (ft³/min)	12.8 (452)			13.4 (473)				
	SHi	Cool	m³/min (ft³/min)	12.29 (434)			13.29 (469)				
		Heat	m³/min (ft³/min)	13.39 (473)			14.00 (494)				

MODEL		INDOOR	CS-RE9RKEW		CS-RE12RKEW	
		OUTDOOR	CU-2RE15PBE / CU-2RE18PBE			
Dimension	Height (I/D)	mm (inch)	290 (11-7/16)			
	Width (I/D)	mm (inch)	870 (34-9/32)			
	Depth (I/D)	mm (inch)	214 (8-7/16)			
Weight	Net (I/D)	kg (lb)	9 (20)			
Piping	Pipe Diameter (Liquid / Gas)	mm (inch)	6.35 (1/4) / 9.52 (3/8)		6.35 (1/4) / 9.52 (3/8)	
Drain Hose	Inner Diameter	mm	16		16	
	Length	mm	650		650	
Indoor Heat Exchanger	Fin Material		Aluminium (Pre Coat)		Aluminium (Pre Coat)	
	Fin Type		Slit Fin		Slit Fin	
	Row x Stage x FPI		2 x 15 x 17		2 x 15 x 17	
	Size (W x H x L)	mm	610 x 315 x 25.4		610 x 315 x 25.4	
Air Filter	Material		Polypropelene		Polypropelene	
	Type		One-touch		One-touch	
Power Supply			Outdoor Power Supply		Outdoor Power Supply	
Power Supply Cord		A	Nil		Nil	
			Dry Bulb	Wet Bulb	Dry Bulb	Wet Bulb
Indoor Operation Range	Cooling	Maximum °C	32	23	32	23
		Minimum °C	16	11	16	11
	Heating	Maximum °C	30	-	30	-
		Minimum °C	16	-	16	-

- Cooling capacities are based on indoor temperature of 27°C Dry Bulb (80.6°F Dry Bulb), 19.0°C Wet Bulb (66.2°F Wet Bulb) and outdoor air temperature of 35°C Dry Bulb (95°F Dry Bulb), 24°C Wet Bulb (75.2°F Wet Bulb)
- Heating capacities are based on indoor temperature of 20°C Dry Bulb (68°F Dry Bulb) and outdoor air temperature of 7°C Dry Bulb (44.6°F Dry Bulb), 6°C Wet Bulb (42.8°F Wet Bulb)
- Heating low temperature capacity, Input Power and COP measured at 230 V, indoor temperature 20°C, outdoor 2/1°C
- Heating extreme low temperature capacity, Input Power and COP measured at 230 V, indoor temperature 20°C, outdoor -7/-8°C
- Specifications are subjected to change without prior notice for further improvement.

2.3 CU-2RE15PBE

Item			Unit	OUTDOOR UNIT
Indoor Unit Combination				CS-MRE7RKE + CS-RE9RKEW (2.0kW + 2.5kW)
Power Source				1 Phase, 230V, 50Hz (Power supply from outdoor unit)
Cooling Operation	Capacity		kW	4.4 (1.5 ~ 4.8)
			BTU/h	15000 (5120 ~ 16400)
	Electrical Data	Running Current	A	6.10
		Power Input	kW	1.30 (0.27 ~ 1.52)
		EER	W/W	3.38 (5.56 ~ 3.16)
		Power Factor	%	93
		Annual Consumption	kWh	650
	Noise	Sound Pressure Level	dB-A (H/L)	47 / -
		Sound Power Level	dB (H/L)	62 / -
Heating Operation	Capacity		kW	4.8 (1.1 ~ 6.5)
			BTU/h	16400 (3750 ~ 22200)
	Electrical Data	Running Current	A	5.35
		Power Input	kW	1.20k (0.24 ~ 1.67)
		COP	W/W	4.00 (4.58 ~ 3.89)
		Power Factor	%	98
	Noise	Sound Pressure Level	dB-A (H/L)	49 / -
		Sound Power Level	dB (H/L)	64 / -
	Maximum Current			A
Maximum Input Power			W	2.73k
Starting Current			A	6.10
Circuit Breaker Capacity			A	16
Dimension	Height		mm	619
	Width		mm	824 (+70)
	Depth		mm	299
Net Weight			kg	39
Connection Cable				3 + 1 (Earth) ø1.5 mm ²
Pipe Length Range (1 room)			m	3 ~ 20
Maximum Pipe Length (Total Room)			m	30
Refrigerant Pipe Diameter	Liquid Side		mm (inch)	6.35 (1/4)
	Gas Side		mm (inch)	9.52 (3/8)
Compressor	Type			Hermetic Motor / Rotary
	Motor Type			Brushless (6-poles)
	Rated Output		W	900
Air Circulation	Type			Propeller Fan
	Motor Type			DC Motor (8-poles)
	Rated Output		W	40
Fan Speed	High (Cooling / Heating)		RPM	800 / 900
Heat Exchanger	Type			Plate fin configuration forced draft type
	Tube Material			Copper
	Fin Material			Aluminum (Pre Coat)
	Row / Stage			2 / 28
	FPI			17
Air Volume	High (Cooling / Heating)		m ³ /min	32.7 / 36.9
Refrigerant Control Device				Expansion Valve
Refrigerant Oil			cm ³	RB68A / Freol Alpha68M (350)
Refrigerant (R410A)			g	1.40k

Item			Unit	OUTDOOR UNIT	
				Dry Bulb	Wet Bulb
Indoor Operation Range	Cooling	Maximum °C		32	23
		Minimum °C		16	11
	Heating	Maximum °C		30	—
		Minimum °C		16	—
Outdoor Operation Range	Cooling	Maximum °C		43	26
		Minimum °C		16	11
	Heating	Maximum °C		24	18
		Minimum °C		-10	-11

Note

- Specifications are subject to change without notice for further improvement.

2.4 CU-2RE18PBE

Item			Unit	OUTDOOR UNIT
Indoor Unit Combination				CS-RE9RKEW + CS-RE9RKEW (2.5kW + 2.5kW)
Power Source				1 Phase, 230V, 50Hz (Power supply from outdoor unit)
Cooling Operation	Capacity		kW	4.8 (1.5 ~ 5.0)
			BTU/h	16400 (5120 ~ 17100)
	Electrical Data	Running Current	A	6.95
		Power Input	kW	1.49 (0.27 ~ 1.58)
		EER	W/W	3.22 (5.56 ~ 3.16)
		Power Factor	%	93
		Annual Consumption	kWh	745
	Noise	Sound Pressure Level	dB-A (H/L)	49 / -
		Sound Power Level	dB (H/L)	64 / -
Heating Operation	Capacity		kW	5.2 (1.1 ~ 6.7)
			BTU/h	17700 (3750 ~ 22800)
	Electrical Data	Running Current	A	5.75
		Power Input	kW	1.30k (0.24 ~ 1.70)
		COP	W/W	4.00 (4.58 ~ 3.94)
		Power Factor	%	98
	Noise	Sound Pressure Level	dB-A (H/L)	51 / -
		Sound Power Level	dB (H/L)	66 / -
	Maximum Current			A
Maximum Input Power			W	2.73k
Starting Current			A	6.95
Circuit Breaker Capacity			A	16
Dimension	Height		mm	619
	Width		mm	824 (+70)
	Depth		mm	299
Net Weight			kg	39
Connection Cable				3 + 1 (Earth) ø1.5 mm ²
Pipe Length Range (1 room)			m	3 ~ 20
Maximum Pipe Length (Total Room)			m	30
Refrigerant Pipe Diameter	Liquid Side		mm (inch)	6.35 (1/4)
	Gas Side		mm (inch)	9.52 (3/8)
Compressor	Type			Hermetic Motor / Rotary
	Motor Type			Brushless (6-poles)
	Rated Output		W	900
Air Circulation	Type			Propeller Fan
	Motor Type			DC Motor (8-poles)
	Rated Output		W	40
Fan Speed	High (Cooling / Heating)		RPM	900 / 1000
Heat Exchanger	Type			Plate fin configuration forced draft type
	Tube Material			Copper
	Fin Material			Aluminum (Pre Coat)
	Row / Stage			2 / 28
	FPI			17
Air Volume	High (Cooling / Heating)		m ³ /min	36.9 / 41.1
Refrigerant Control Device				Expansion Valve
Refrigerant Oil			cm ³	RB68A / Freol Alpha68M (350)
Refrigerant (R410A)			g	1.40k

Item			Unit	OUTDOOR UNIT	
				Dry Bulb	Wet Bulb
Indoor Operation Range	Cooling	Maximum °C		32	23
		Minimum °C		16	11
	Heating	Maximum °C		30	—
		Minimum °C		16	—
Outdoor Operation Range	Cooling	Maximum °C		43	26
		Minimum °C		16	11
	Heating	Maximum °C		24	18
		Minimum °C		-10	-11

Note

- Specifications are subject to change without notice for further improvement.

- **Multi Split Combination Possibility:**

- A single outdoor unit enables air conditioning of up to two separate rooms for CU-2RE15PBE, CU-2RE18PBE.

CONNECTABLE INDOOR UNIT			OUTDOOR UNIT			
			CU-2RE15PBE		CU-2RE18PBE	
Type			ROOM			
			A	B	A	B
Wall	2.0kW	CS-MRE7RKE	●	●	●	●
	2.5kW	CS-RE9RKEW	●	●	●	●
	3.2kW	CS-RE12RKEW	●	●	●	●
Capacity range of connectable indoor units			From 4.0kW to 5.6kW		From 4.0kW to 6.4kW	
Pipe length	1-room maximum pipe length (m)		20		20	
	Allowable elevation (m)		10		10	
	Total allowable pipe length (m)		30		30	
	Total pipe length for maximum chargeless length (m)		20		20	
	Additional gas amount over chargeless length (g/m)		15		15	
Note: “●”: Available						
Remarks for CU-2RE15PBE / CU-2RE18PBE						
1. At least two indoor units must be connected.						
2. The total nominal cooling capacity of indoor units that will be connected to outdoor unit must be within connectable capacity range of indoor unit. (as shown in the table above)						
Example: The indoor units' combination below is possible to connect to CU-2RE15PBE. (Total nominal capacity of indoor units is between 4.0kW to 5.6kW)						
1) Two CS-MRE7RKE only (Total nominal cooling capacity is 4.0kW)						
2) One CS-MRE7RKE and one CS-RE9RKEW. (Total nominal cooling capacity is 4.5kW)						

- Indoor Unit : CS-MRE7RKE / CS-RE9RKEW / CS-RE12RKEW
- Outdoor Unit : CU-2RE15PBE

2 Room		1 Room	
Indoor Unit Capacity (kW)	Total Indoor Capacity (kW)	Indoor Unit Capacity (kW)	Total Indoor Capacity (kW)
2.0 + 2.0	4.0	2.0	2.0
2.0 + 2.5	4.5	2.5	2.5
2.0 + 3.2	5.2	3.2	3.2
2.5 + 2.5	5.0		

- Indoor Unit : CS-MRE7RKE / CS-RE9RKEW / CS-RE12RKEW
- Outdoor Unit : CU-2RE18PBE

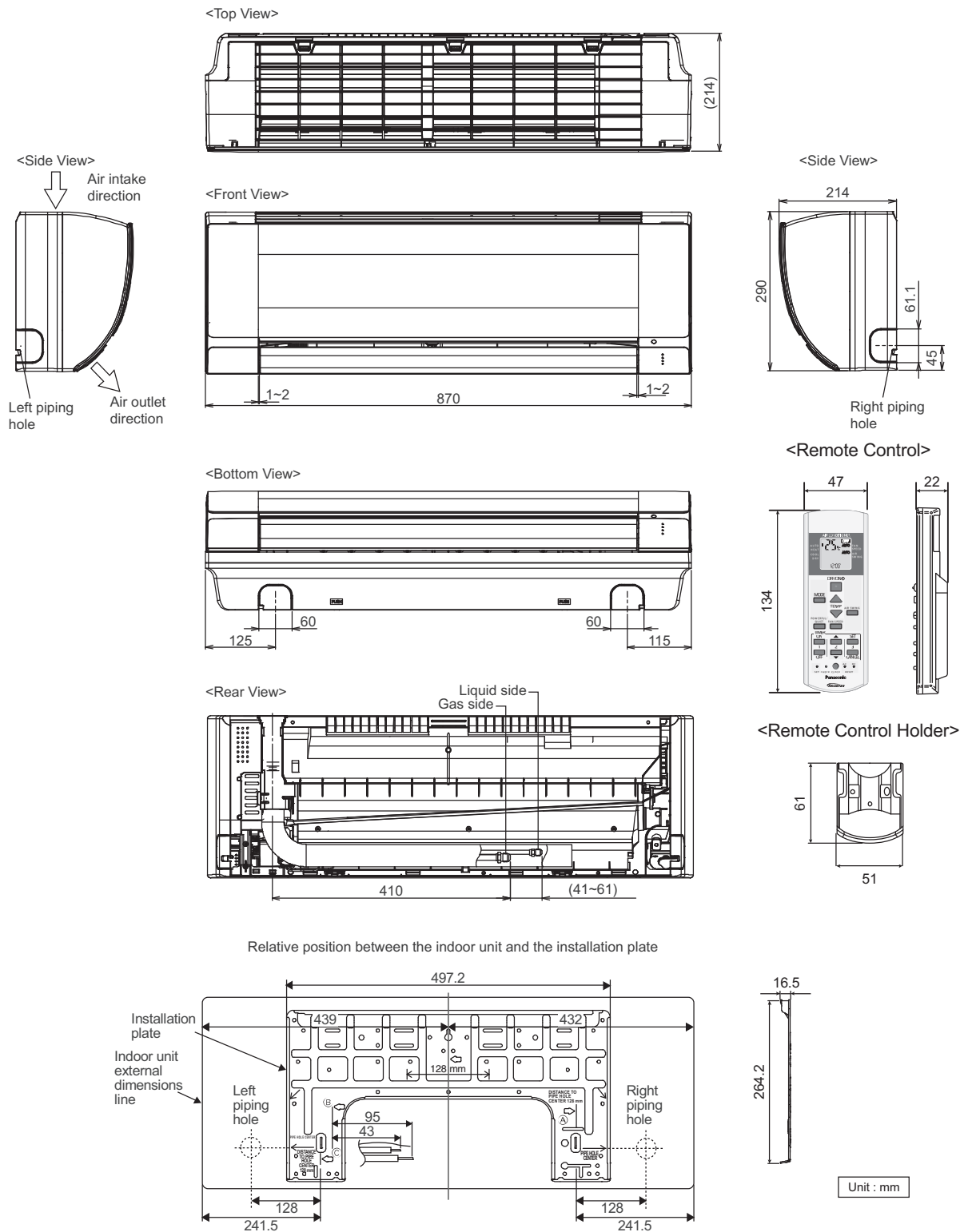
2 Room		1 Room	
Indoor Unit Capacity (kW)	Total Indoor Capacity (kW)	Indoor Unit Capacity (kW)	Total Indoor Capacity (kW)
2.0 + 2.0	4.0	2.0	2.0
2.0 + 2.5	4.5	2.5	2.5
2.0 + 3.2	5.2	3.2	3.2
2.5 + 2.5	5.0		
2.5 + 3.2	5.7		
3.2 + 3.2	6.4		

3. Features

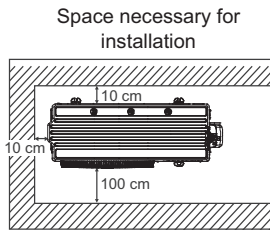
- **Inverter Technology**
 - Wider output power range
 - Energy saving
 - Quick Cooling
 - Quick Heating
 - More precise temperature control
- **Environment Protection**
 - Non-ozone depletion substances refrigerant (R410A)
- **Long Installation Piping**
 - Long piping up to 15 meters (0.75 ~ 1.5HP) during single split connection only
- **Easy to use remote control**
- **Quality Improvement**
 - Random auto restart after power failure for safety restart operation
 - Gas leakage protection
 - Prevent compressor reverse cycle
 - Inner protector to protect Compressor
 - Noise prevention during soft dry operation
- **Operation Improvement**
 - Twin Timer (24-hour dual ON/OFF timer setting)
- **Serviceability Improvement**
 - Breakdown Self Diagnosis function

5. Dimensions

5.1 Indoor Unit

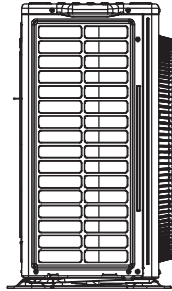


5.2 Outdoor Unit

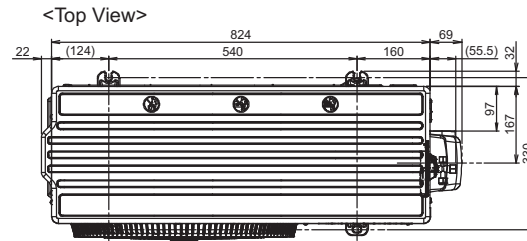


Anchor Bolt Pitch
540 x 330

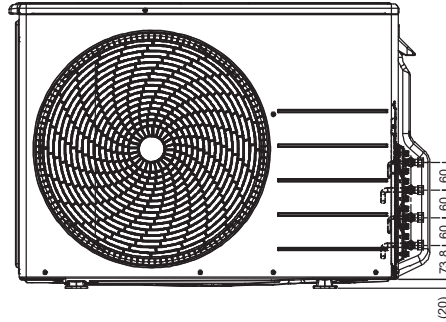
<Side View>



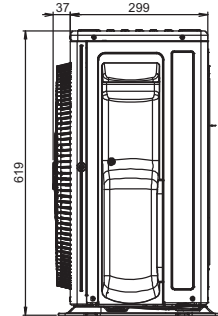
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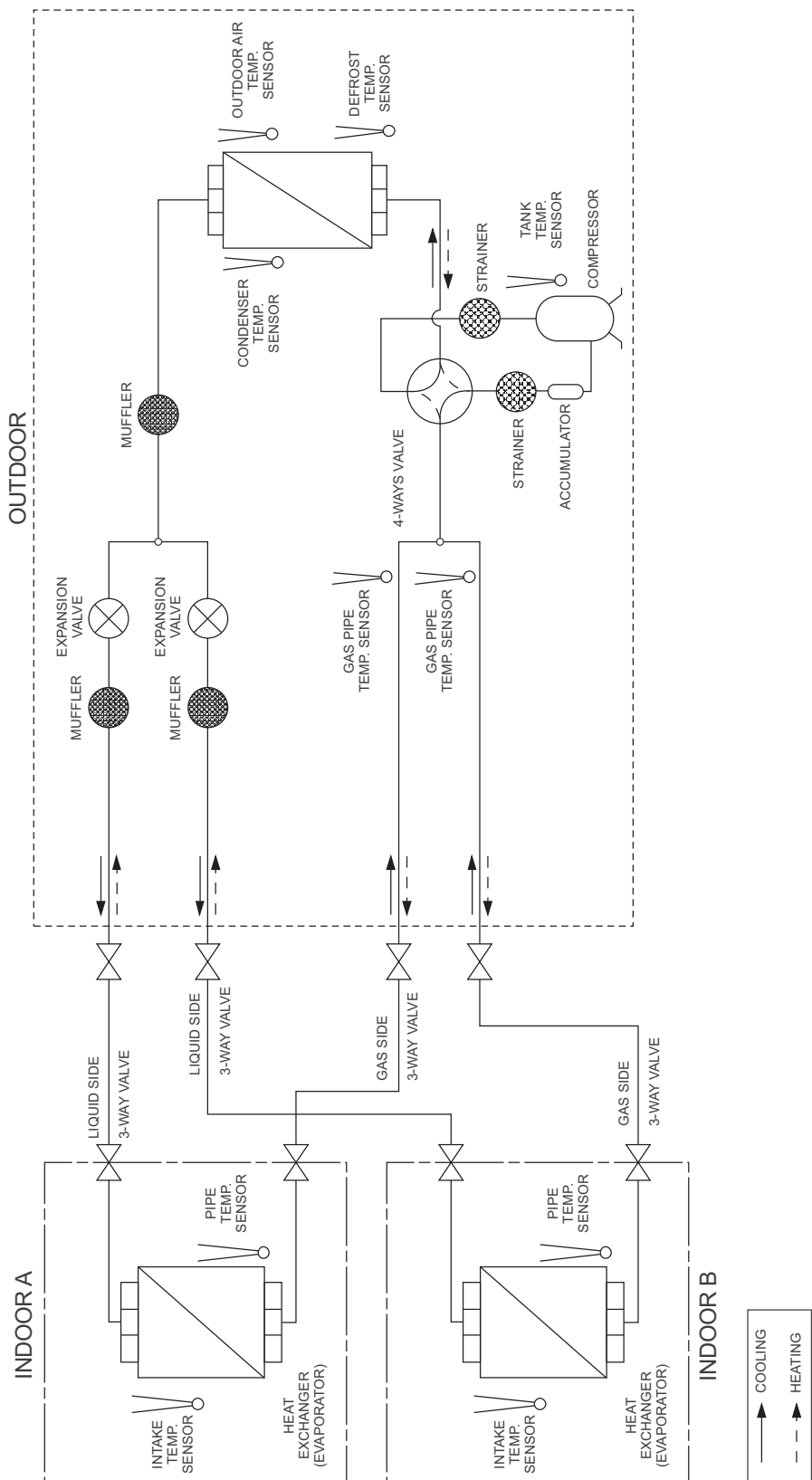
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<Side View>

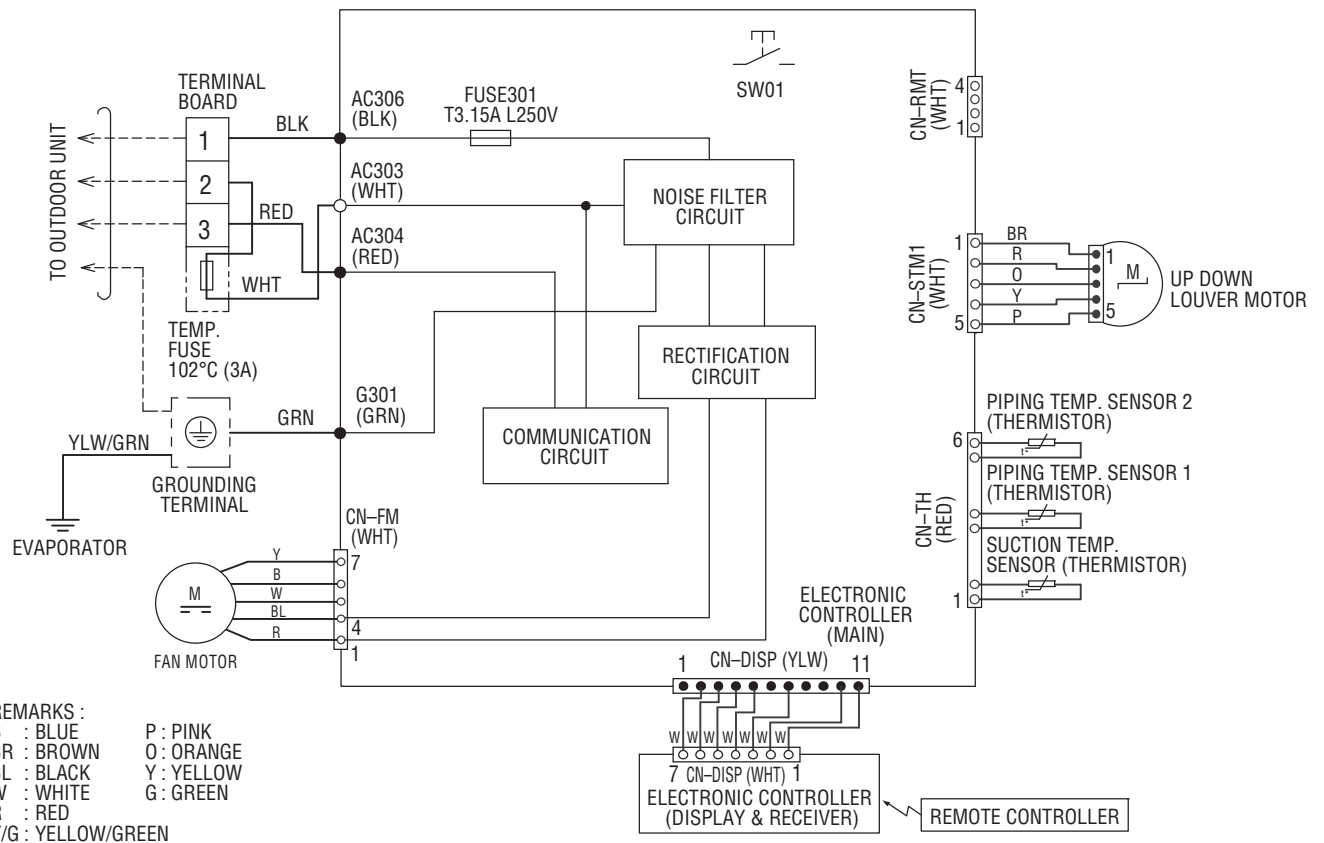


6. Refrigeration Cycle Diagram



8. Wiring Connection Diagram

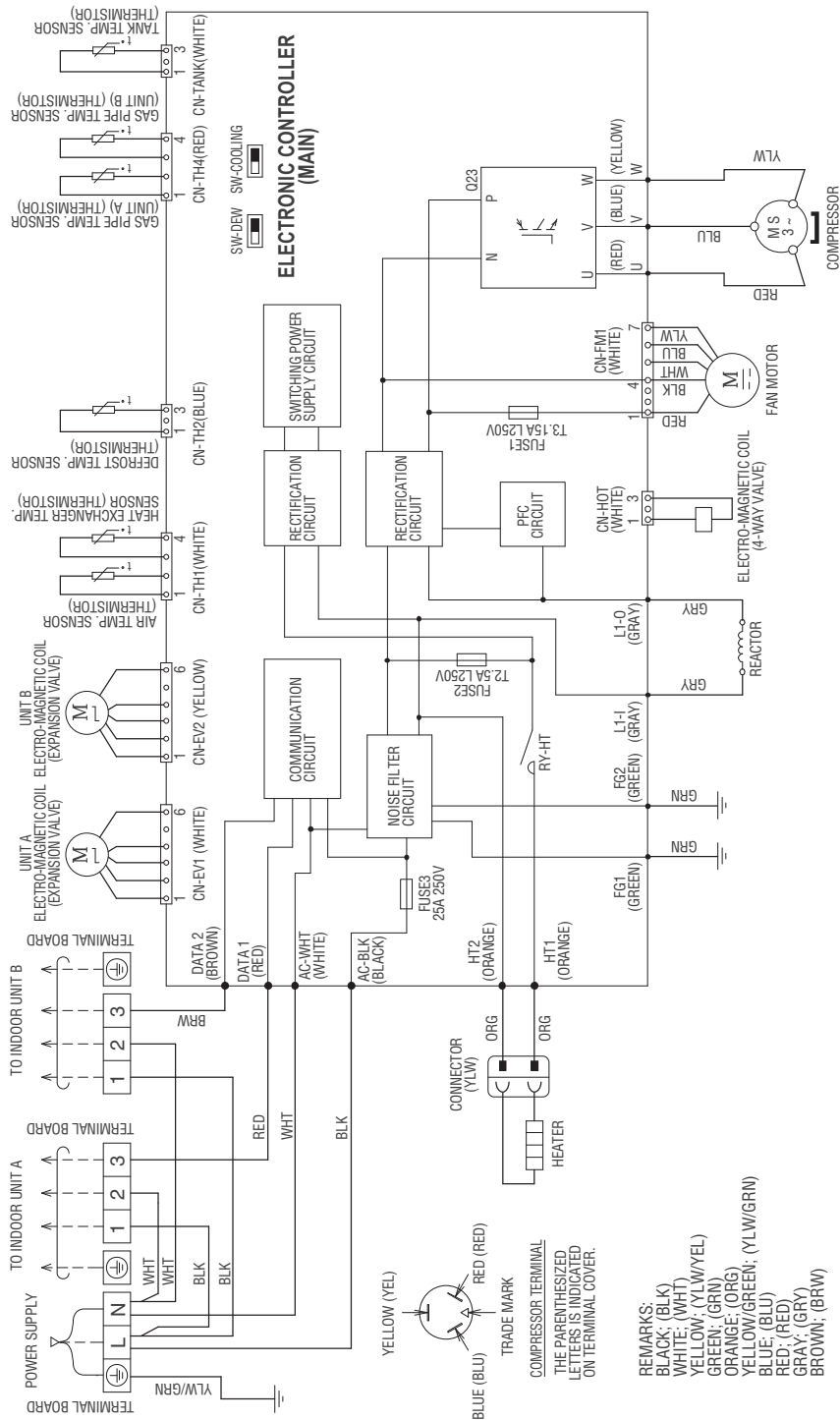
8.1 Indoor Unit



8.2 Outdoor Unit

Resistance of Compressor Windings

CONNECTION	5RD132XFC21 (Ω)
U - V	0.642
V - W	0.636
U - W	0.652



19. Technical Data

Technical data provided are based on the air conditioner running under free frequency.

19.1 Cool Mode Performance Data

Unit setting: Standard piping length, Hi Fan, Cool mode at 16°C

Voltage: 230V, 50Hz

19.1.1 CS-MRE7RKE CS-RE9RKEW CS-RE12RKEW CU-2RE15PBE

Combination (Capacity)	Outdoor Air Temp. °C DB	Indoor Air Temp. °C WB											
		16		17.5		18		19		22		24	
		Total Q	Input Power	Total Q	Input Power	Total Q	Input Power	Total Q	Input Power	Total Q	Input Power	Total Q	Input Power
2.0	22	2.27	0.36	2.11	0.31	2.05	0.29	1.94	0.26	2.71	0.35	3.23	0.41
	25	2.36	0.45	2.37	0.42	2.37	0.41	2.38	0.39	2.88	0.45	3.21	0.48
	29	2.35	0.55	2.49	0.54	2.53	0.54	2.62	0.53	2.93	0.55	3.13	0.57
	32	2.26	0.62	2.44	0.62	2.50	0.62	2.61	0.62	2.86	0.62	3.02	0.63
	35	2.14	0.68	2.32	0.68	2.38	0.69	2.50	0.69	2.73	0.68	2.89	0.68
	40	1.95	0.76	2.06	0.77	2.10	0.77	2.18	0.78	2.46	0.77	2.64	0.76
	43	1.88	0.80	1.94	0.80	1.95	0.80	1.99	0.81	2.29	0.80	2.49	0.80
	46	1.90	0.83	1.88	0.83	1.87	0.82	1.86	0.82	2.16	0.83	2.36	0.83
2.5	22	2.82	0.50	2.61	0.43	2.54	0.41	2.41	0.36	3.37	0.48	4.00	0.56
	25	2.93	0.62	2.94	0.57	2.94	0.56	2.95	0.53	3.57	0.61	3.99	0.67
	29	2.91	0.76	3.08	0.74	3.14	0.74	3.25	0.73	3.63	0.76	3.88	0.78
	32	2.80	0.85	3.02	0.85	3.09	0.85	3.24	0.85	3.54	0.86	3.75	0.86
	35	2.66	0.93	2.88	0.94	2.95	0.94	3.10	0.95	3.39	0.94	3.58	0.93
	40	2.42	1.05	2.56	1.06	2.61	1.06	2.70	1.07	3.05	1.05	3.28	1.04
	43	2.33	1.10	2.40	1.10	2.42	1.11	2.47	1.11	2.84	1.10	3.09	1.10
	46	2.36	1.15	2.33	1.14	2.32	1.14	2.30	1.13	2.68	1.14	2.93	1.15
3.2	22	3.36	0.63	3.12	0.55	3.04	0.52	2.88	0.46	4.02	0.61	4.78	0.72
	25	3.50	0.78	3.51	0.73	3.51	0.71	3.52	0.68	4.26	0.78	4.76	0.85
	29	3.48	0.97	3.68	0.95	3.75	0.94	3.88	0.93	4.33	0.97	4.63	0.99
	32	3.34	1.08	3.60	1.08	3.69	1.08	3.87	1.08	4.23	1.09	4.47	1.10
	35	3.17	1.19	3.44	1.20	3.52	1.20	3.70	1.21	4.04	1.20	4.27	1.19
	40	2.89	1.34	3.06	1.35	3.11	1.36	3.22	1.36	3.64	1.34	3.91	1.33
	43	2.78	1.40	2.86	1.41	2.89	1.41	2.95	1.42	3.39	1.40	3.69	1.40
	46	2.81	1.46	2.78	1.45	2.77	1.45	2.75	1.44	3.20	1.45	3.50	1.46
2.0 + 2.0	22	6.20	0.86	5.19	0.84	4.85	0.84	4.17	0.83	4.79	0.83	5.20	0.83
	25	5.63	0.99	5.21	0.99	5.08	0.98	4.80	0.98	5.36	0.98	5.74	0.98
	29	5.02	1.14	5.04	1.14	5.05	1.14	5.06	1.14	5.55	1.14	5.87	1.14
	32	4.68	1.24	4.80	1.25	4.84	1.25	4.92	1.25	5.37	1.25	5.66	1.25
	35	4.42	1.34	4.51	1.34	4.54	1.34	4.60	1.34	5.01	1.34	5.28	1.34
	40	4.00	1.45	3.97	1.45	3.96	1.45	3.93	1.45	4.26	1.45	4.48	1.45
	43	3.73	1.51	3.66	1.50	3.63	1.50	3.58	1.49	3.86	1.49	4.05	1.49
	46	3.40	1.53	3.40	1.52	3.40	1.52	3.40	1.51	3.61	1.51	3.76	1.51

Combination (Capacity)	Outdoor Air Temp. °C DB	Indoor Air Temp. °C WB											
		16		17.5		18		19		22		24	
		Total Q	Input Power	Total Q	Input Power	Total Q	Input Power	Total Q	Input Power	Total Q	Input Power	Total Q	Input Power
2.0 + 2.5	22	6.47	0.97	5.41	0.96	5.06	0.95	4.35	0.94	5.00	0.94	5.43	0.94
	25	5.87	1.13	5.44	1.12	5.30	1.11	5.01	1.11	5.60	1.11	5.99	1.11
	29	5.24	1.30	5.26	1.30	5.27	1.30	5.28	1.30	5.79	1.30	6.13	1.30
	32	4.89	1.40	5.01	1.41	5.05	1.42	5.13	1.42	5.60	1.42	5.91	1.42
	35	4.61	1.52	4.70	1.52	4.74	1.52	4.80	1.52	5.22	1.52	5.51	1.52
	40	4.18	1.65	4.14	1.65	4.13	1.65	4.10	1.65	4.45	1.65	4.68	1.65
	43	3.89	1.71	3.82	1.70	3.79	1.70	3.74	1.69	4.03	1.69	4.23	1.69
	46	3.55	1.73	3.55	1.73	3.55	1.72	3.55	1.72	3.77	1.72	3.92	1.72
2.0 + 3.2	22	6.47	0.97	5.41	0.96	5.06	0.95	4.35	0.94	5.00	0.94	5.43	0.94
	25	5.87	1.13	5.44	1.12	5.30	1.11	5.01	1.11	5.60	1.11	5.99	1.11
	29	5.24	1.30	5.26	1.30	5.27	1.30	5.28	1.30	5.79	1.30	6.13	1.30
	32	4.89	1.40	5.01	1.41	5.05	1.42	5.13	1.42	5.60	1.42	5.91	1.42
	35	4.61	1.52	4.70	1.52	4.74	1.52	4.80	1.52	5.22	1.52	5.51	1.52
	40	4.18	1.65	4.14	1.65	4.13	1.65	4.10	1.65	4.45	1.65	4.68	1.65
	43	3.89	1.71	3.82	1.70	3.79	1.70	3.74	1.69	4.03	1.69	4.23	1.69
	46	3.55	1.73	3.55	1.73	3.55	1.72	3.55	1.72	3.77	1.72	3.92	1.72
2.5 + 2.5	22	6.47	0.97	5.41	0.96	5.06	0.95	4.35	0.94	5.00	0.94	5.43	0.94
	25	5.87	1.13	5.44	1.12	5.30	1.11	5.01	1.11	5.60	1.11	5.99	1.11
	29	5.24	1.30	5.26	1.30	5.27	1.30	5.28	1.30	5.79	1.30	6.13	1.30
	32	4.89	1.40	5.01	1.41	5.05	1.42	5.13	1.42	5.60	1.42	5.91	1.42
	35	4.61	1.52	4.70	1.52	4.74	1.52	4.80	1.52	5.22	1.52	5.51	1.52
	40	4.18	1.65	4.14	1.65	4.13	1.65	4.10	1.65	4.45	1.65	4.68	1.65
	43	3.89	1.71	3.82	1.70	3.79	1.70	3.74	1.69	4.03	1.69	4.23	1.69
	46	3.55	1.73	3.55	1.73	3.55	1.72	3.55	1.72	3.77	1.72	3.92	1.72

19.1.2 CS-MRE7RKE CS-RE9RKEW CS-RE12RKEW CU-2RE18PBE

Combination (Capacity)	Outdoor Air Temp. °C DB	Indoor Air Temp. °C WB											
		16		17.5		18		19		22		24	
		Total Q	Input Power	Total Q	Input Power	Total Q	Input Power	Total Q	Input Power	Total Q	Input Power	Total Q	Input Power
2.0	22	2.27	0.36	2.11	0.31	2.05	0.29	1.94	0.26	2.71	0.35	3.23	0.41
	25	2.36	0.45	2.37	0.42	2.37	0.41	2.38	0.39	2.88	0.45	3.21	0.48
	29	2.35	0.55	2.49	0.54	2.53	0.54	2.62	0.53	2.93	0.55	3.13	0.57
	32	2.26	0.62	2.44	0.62	2.50	0.62	2.61	0.62	2.86	0.62	3.02	0.63
	35	2.14	0.68	2.32	0.68	2.38	0.69	2.50	0.69	2.73	0.68	2.89	0.68
	40	1.95	0.76	2.06	0.77	2.10	0.77	2.18	0.78	2.46	0.77	2.64	0.76
	43	1.88	0.80	1.94	0.80	1.95	0.80	1.99	0.81	2.29	0.80	2.49	0.80
	46	1.90	0.83	1.88	0.83	1.87	0.82	1.86	0.82	2.16	0.83	2.36	0.83

Combination (Capacity)	Outdoor Air Temp. °C DB	Indoor Air Temp. °C WB											
		16		17.5		18		19		22		24	
		Total Q	Input Power	Total Q	Input Power	Total Q	Input Power	Total Q	Input Power	Total Q	Input Power	Total Q	Input Power
2.5	22	2.82	0.50	2.61	0.43	2.54	0.41	2.41	0.36	3.37	0.48	4.00	0.56
	25	2.93	0.62	2.94	0.57	2.94	0.56	2.95	0.53	3.57	0.61	3.99	0.67
	29	2.91	0.76	3.08	0.74	3.14	0.74	3.25	0.73	3.63	0.76	3.88	0.78
	32	2.80	0.85	3.02	0.85	3.09	0.85	3.24	0.85	3.54	0.86	3.75	0.86
	35	2.66	0.93	2.88	0.94	2.95	0.94	3.10	0.95	3.39	0.94	3.58	0.93
	40	2.42	1.05	2.56	1.06	2.61	1.06	2.70	1.07	3.05	1.05	3.28	1.04
	43	2.33	1.10	2.40	1.10	2.42	1.11	2.47	1.11	2.84	1.10	3.09	1.10
	46	2.36	1.15	2.33	1.14	2.32	1.14	2.30	1.13	2.68	1.14	2.93	1.15
3.2	22	3.36	0.63	3.12	0.55	3.04	0.52	2.88	0.46	4.02	0.61	4.78	0.72
	25	3.50	0.78	3.51	0.73	3.51	0.71	3.52	0.68	4.26	0.78	4.76	0.85
	29	3.48	0.97	3.68	0.95	3.75	0.94	3.88	0.93	4.33	0.97	4.63	0.99
	32	3.34	1.08	3.60	1.08	3.69	1.08	3.87	1.08	4.23	1.09	4.47	1.10
	35	3.17	1.19	3.44	1.20	3.52	1.20	3.70	1.21	4.04	1.20	4.27	1.19
	40	2.89	1.34	3.06	1.35	3.11	1.36	3.22	1.36	3.64	1.34	3.91	1.33
	43	2.78	1.40	2.86	1.41	2.89	1.41	2.95	1.42	3.39	1.40	3.69	1.40
	46	2.81	1.46	2.78	1.45	2.77	1.45	2.75	1.44	3.20	1.45	3.50	1.46
2.0 + 2.0	22	6.20	0.86	5.19	0.84	4.85	0.84	4.17	0.83	4.79	0.83	5.20	0.83
	25	5.63	0.99	5.21	0.99	5.08	0.98	4.80	0.98	5.36	0.98	5.74	0.98
	29	5.02	1.14	5.04	1.14	5.05	1.14	5.06	1.14	5.55	1.14	5.87	1.14
	32	4.68	1.24	4.80	1.25	4.84	1.25	4.92	1.25	5.37	1.25	5.66	1.25
	35	4.42	1.34	4.51	1.34	4.54	1.34	4.60	1.34	5.01	1.34	5.28	1.34
	40	4.00	1.45	3.97	1.45	3.96	1.45	3.93	1.45	4.26	1.45	4.48	1.45
	43	3.73	1.51	3.66	1.50	3.63	1.50	3.58	1.49	3.86	1.49	4.05	1.49
	46	3.40	1.53	3.40	1.52	3.40	1.52	3.40	1.51	3.61	1.51	3.76	1.51
2.0 + 2.5	22	6.47	0.97	5.41	0.95	5.06	0.94	4.35	0.93	5.00	0.93	5.43	0.93
	25	5.87	1.12	5.44	1.11	5.30	1.11	5.01	1.10	5.60	1.10	5.99	1.10
	29	5.24	1.29	5.26	1.29	5.27	1.29	5.28	1.29	5.79	1.29	6.13	1.29
	32	4.89	1.39	5.01	1.40	5.05	1.41	5.13	1.41	5.60	1.41	5.91	1.41
	35	4.61	1.51	4.70	1.51	4.74	1.51	4.80	1.51	5.22	1.51	5.51	1.51
	40	4.18	1.63	4.14	1.63	4.13	1.63	4.10	1.63	4.45	1.63	4.68	1.63
	43	3.89	1.70	3.82	1.69	3.79	1.68	3.74	1.68	4.03	1.68	4.23	1.68
	46	3.55	1.72	3.55	1.71	3.55	1.71	3.55	1.71	3.77	1.71	3.92	1.71
2.0 + 3.2	22	6.61	0.98	5.52	0.96	5.16	0.96	4.44	0.95	5.10	0.95	5.54	0.95
	25	5.99	1.13	5.55	1.13	5.41	1.12	5.11	1.12	5.71	1.12	6.11	1.12
	29	5.35	1.31	5.37	1.31	5.38	1.31	5.39	1.31	5.91	1.31	6.26	1.31
	32	4.99	1.41	5.11	1.42	5.16	1.43	5.24	1.43	5.72	1.43	6.03	1.43
	35	4.70	1.53	4.80	1.53	4.83	1.53	4.90	1.53	5.33	1.53	5.62	1.53
	40	4.27	1.66	4.23	1.66	4.21	1.66	4.19	1.66	4.54	1.66	4.77	1.66
	43	3.97	1.72	3.89	1.71	3.87	1.71	3.82	1.70	4.12	1.70	4.31	1.70
	46	3.62	1.75	3.62	1.74	3.62	1.73	3.62	1.73	3.85	1.73	4.00	1.73

Combination (Capacity)	Outdoor Air Temp. °C DB	Indoor Air Temp. °C WB											
		16		17.5		18		19		22		24	
		Total Q	Input Power	Total Q	Input Power	Total Q	Input Power	Total Q	Input Power	Total Q	Input Power	Total Q	Input Power
2.5 + 2.5	22	6.74	1.01	5.64	0.99	5.27	0.99	4.53	0.98	5.21	0.98	5.66	0.98
	25	6.12	1.17	5.67	1.16	5.52	1.16	5.22	1.15	5.83	1.15	6.24	1.15
	29	5.46	1.35	5.48	1.35	5.48	1.35	5.50	1.35	6.03	1.35	6.38	1.35
	32	5.09	1.46	5.22	1.47	5.26	1.47	5.35	1.48	5.83	1.48	6.16	1.48
	35	4.80	1.58	4.90	1.58	4.93	1.58	5.00	1.58	5.44	1.58	5.74	1.58
	40	4.35	1.71	4.31	1.71	4.30	1.71	4.27	1.71	4.63	1.71	4.87	1.71
	43	4.05	1.78	3.97	1.77	3.95	1.76	3.89	1.76	4.20	1.76	4.40	1.76
	46	3.70	1.80	3.70	1.79	3.70	1.79	3.70	1.78	3.93	1.78	4.08	1.78
2.5 + 3.2	22	6.74	1.01	5.64	0.99	5.27	0.99	4.53	0.98	5.21	0.98	5.66	0.98
	25	6.12	1.17	5.67	1.16	5.52	1.16	5.22	1.15	5.83	1.15	6.24	1.15
	29	5.46	1.35	5.48	1.35	5.48	1.35	5.50	1.35	6.03	1.35	6.38	1.35
	32	5.09	1.46	5.22	1.47	5.26	1.47	5.35	1.48	5.83	1.48	6.16	1.48
	35	4.80	1.58	4.90	1.58	4.93	1.58	5.00	1.58	5.44	1.58	5.74	1.58
	40	4.35	1.71	4.31	1.71	4.30	1.71	4.27	1.71	4.63	1.71	4.87	1.71
	43	4.05	1.78	3.97	1.77	3.95	1.76	3.89	1.76	4.20	1.76	4.40	1.76
	46	3.70	1.80	3.70	1.79	3.70	1.79	3.70	1.78	3.93	1.78	4.08	1.78
3.2 + 3.2	22	6.74	1.01	5.64	0.99	5.27	0.99	4.53	0.98	5.21	0.98	5.66	0.98
	25	6.12	1.17	5.67	1.16	5.52	1.16	5.22	1.15	5.83	1.15	6.24	1.15
	29	5.46	1.35	5.48	1.35	5.48	1.35	5.50	1.35	6.03	1.35	6.38	1.35
	32	5.09	1.46	5.22	1.47	5.26	1.47	5.35	1.48	5.83	1.48	6.16	1.48
	35	4.80	1.58	4.90	1.58	4.93	1.58	5.00	1.58	5.44	1.58	5.74	1.58
	40	4.35	1.71	4.31	1.71	4.30	1.71	4.27	1.71	4.63	1.71	4.87	1.71
	43	4.05	1.78	3.97	1.77	3.95	1.76	3.89	1.76	4.20	1.76	4.40	1.76
	46	3.70	1.80	3.70	1.79	3.70	1.79	3.70	1.78	3.93	1.78	4.08	1.78

19.2 Heat Mode Performance Data

Unit setting: Standard piping length, Hi Fan, Heat mode at 30°C
Voltage: 230V, 50Hz

19.2.1 CS-MRE7RKE CS-RE9RKEW CS-RE12RKEW CU-2RE15PBE

Combination (Capacity)	Indoor Air Temp. °C DB	Outdoor Air Temp. °C WB													
		15		10		6		1		-5		-10		-15	
		Total Q	Input Power	Total Q	Input Power	Total Q	Input Power	Total Q	Input Power	Total Q	Input Power	Total Q	Input Power	Total Q	Input Power
2.0	16	5.09	1.04	4.76	1.16	4.50	1.27	1.56	1.66	4.28	1.55	3.51	1.49	2.44	1.47
	18	4.97	1.07	4.66	1.20	4.41	1.30	1.52	1.74	4.09	1.58	3.30	1.51	2.29	1.51
	20	4.83	1.12	4.54	1.25	4.30	1.35	1.49	1.78	3.94	1.62	3.17	1.54	2.27	1.52
	21	4.77	1.15	4.47	1.28	4.24	1.39	1.47	1.78	3.88	1.64	3.14	1.55	2.32	1.52
	22	4.69	1.16	4.40	1.30	4.16	1.42	1.45	1.80	3.83	1.66	3.13	1.57	2.39	1.52
	24	4.56	1.21	4.26	1.38	4.02	1.52	1.42	1.78	3.76	1.70	3.18	1.62	2.66	1.49
2.5	16	5.92	1.27	5.53	1.43	5.23	1.56	1.91	2.05	4.98	1.91	4.09	1.83	2.84	1.81
	18	5.77	1.32	5.42	1.48	5.13	1.60	1.87	2.13	4.76	1.95	3.84	1.85	2.66	1.85
	20	5.62	1.38	5.27	1.53	5.00	1.66	1.84	2.19	4.58	2.00	3.69	1.89	2.64	1.87
	21	5.54	1.41	5.20	1.57	4.93	1.70	1.81	2.19	4.51	2.02	3.66	1.91	2.69	1.87
	22	5.46	1.42	5.12	1.60	4.84	1.75	1.79	2.21	4.45	2.04	3.64	1.93	2.78	1.87
	24	5.30	1.48	4.95	1.70	4.67	1.87	1.74	2.19	4.37	2.09	3.70	1.99	3.09	1.84
3.2	16	6.75	1.37	6.31	1.53	5.96	1.67	2.05	2.19	5.67	2.04	4.66	1.96	3.23	1.94
	18	6.58	1.41	6.17	1.58	5.85	1.72	2.01	2.29	5.42	2.09	4.38	1.99	3.04	1.99
	20	6.40	1.48	6.01	1.65	5.70	1.78	1.97	2.35	5.23	2.14	4.21	2.03	3.01	2.00
	21	6.32	1.51	5.93	1.69	5.62	1.83	1.94	2.35	5.14	2.16	4.17	2.05	3.07	2.00
	22	6.22	1.53	5.83	1.72	5.52	1.88	1.92	2.37	5.07	2.19	4.15	2.07	3.17	2.00
	24	6.04	1.59	5.64	1.82	5.32	2.00	1.87	2.35	4.99	2.25	4.22	2.13	3.53	1.97
2.0 + 2.0	16	7.55	1.08	6.97	1.31	6.51	1.49	6.34	2.09	5.54	1.91	4.79	1.75	3.92	1.60
	18	7.40	1.12	6.84	1.36	6.40	1.56	6.41	2.01	5.41	1.93	4.60	1.83	3.84	1.66
	20	7.21	1.18	6.70	1.42	6.30	1.61	6.45	1.97	5.35	1.96	4.49	1.88	3.73	1.73
	21	7.11	1.21	6.64	1.44	6.26	1.62	6.45	1.96	5.35	1.96	4.47	1.90	3.66	1.75
	22	7.00	1.23	6.57	1.46	6.22	1.64	6.44	1.96	5.35	1.96	4.45	1.90	3.59	1.77
	24	6.77	1.29	6.43	1.48	6.16	1.64	6.40	1.99	5.43	1.98	4.52	1.93	3.44	1.80
2.0 + 2.5	16	7.79	1.12	7.19	1.36	6.71	1.55	6.54	2.17	5.72	1.98	4.95	1.82	4.04	1.66
	18	7.64	1.16	7.06	1.41	6.60	1.62	6.61	2.09	5.58	2.01	4.75	1.90	3.96	1.72
	20	7.44	1.23	6.92	1.47	6.50	1.67	6.66	2.05	5.52	2.03	4.64	1.95	3.85	1.79
	21	7.34	1.25	6.85	1.49	6.46	1.68	6.66	2.03	5.52	2.03	4.62	1.97	3.78	1.82
	22	7.22	1.28	6.77	1.51	6.41	1.70	6.64	2.03	5.52	2.03	4.60	1.98	3.70	1.83
	24	6.98	1.33	6.64	1.54	6.36	1.70	6.60	2.06	5.61	2.05	4.66	2.00	3.55	1.87
2.0 + 3.2	16	7.79	1.12	7.19	1.36	6.71	1.55	6.54	2.17	5.72	1.98	4.95	1.82	4.04	1.66
	18	7.64	1.16	7.06	1.41	6.60	1.62	6.61	2.09	5.58	2.01	4.75	1.90	3.96	1.72
	20	7.44	1.23	6.92	1.47	6.50	1.67	6.66	2.05	5.52	2.03	4.64	1.95	3.85	1.79
	21	7.34	1.25	6.85	1.49	6.46	1.68	6.66	2.03	5.52	2.03	4.62	1.97	3.78	1.82
	22	7.22	1.28	6.77	1.51	6.41	1.70	6.64	2.03	5.52	2.03	4.60	1.98	3.70	1.83
	24	6.98	1.33	6.64	1.54	6.36	1.70	6.60	2.06	5.61	2.05	4.66	2.00	3.55	1.87

Combination (Capacity)	Indoor Air Temp. °C DB	Outdoor Air Temp. °C WB													
		15		10		6		1		-5		-10		-15	
		Total Q	Input Power	Total Q	Input Power	Total Q	Input Power	Total Q	Input Power	Total Q	Input Power	Total Q	Input Power	Total Q	Input Power
2.5 + 2.5	16	7.79	1.12	7.19	1.36	6.71	1.55	6.54	2.17	5.72	1.98	4.95	1.82	4.04	1.66
	18	7.64	1.16	7.06	1.41	6.60	1.62	6.61	2.09	5.58	2.01	4.75	1.90	3.96	1.72
	20	7.44	1.23	6.92	1.47	6.50	1.67	6.66	2.05	5.52	2.03	4.64	1.95	3.85	1.79
	21	7.34	1.25	6.85	1.49	6.46	1.68	6.66	2.03	5.52	2.03	4.62	1.97	3.78	1.82
	22	7.22	1.28	6.77	1.51	6.41	1.70	6.64	2.03	5.52	2.03	4.60	1.98	3.70	1.83
	24	6.98	1.33	6.64	1.54	6.36	1.70	6.60	2.06	5.61	2.05	4.66	2.00	3.55	1.87

19.2.2 CS-MRE7RKE CS-RE9RKEW CS-RE12RKEW CU-2RE18PBE

Combination (Capacity)	Indoor Air Temp. °C DB	Outdoor Air Temp. °C WB													
		15		10		6		1		-5		-10		-15	
		Total Q	Input Power	Total Q	Input Power	Total Q	Input Power	Total Q	Input Power	Total Q	Input Power	Total Q	Input Power	Total Q	Input Power
2.0	16	5.09	1.04	4.76	1.16	4.50	1.27	1.56	1.66	4.28	1.55	3.51	1.49	2.44	1.47
	18	4.97	1.07	4.66	1.20	4.41	1.30	1.52	1.74	4.09	1.58	3.30	1.51	2.29	1.51
	20	4.83	1.12	4.54	1.25	4.30	1.35	1.49	1.78	3.94	1.62	3.17	1.54	2.27	1.52
	21	4.77	1.15	4.47	1.28	4.24	1.39	1.47	1.78	3.88	1.64	3.14	1.55	2.32	1.52
	22	4.69	1.16	4.40	1.30	4.16	1.42	1.45	1.80	3.83	1.66	3.13	1.57	2.39	1.52
	24	4.56	1.21	4.26	1.38	4.02	1.52	1.42	1.78	3.76	1.70	3.18	1.62	2.66	1.49
2.5	16	5.92	1.27	5.53	1.43	5.23	1.56	1.91	2.05	4.98	1.91	4.09	1.83	2.84	1.81
	18	5.77	1.32	5.42	1.48	5.13	1.60	1.87	2.13	4.76	1.95	3.84	1.85	2.66	1.85
	20	5.62	1.38	5.27	1.53	5.00	1.66	1.84	2.19	4.58	2.00	3.69	1.89	2.64	1.87
	21	5.54	1.41	5.20	1.57	4.93	1.70	1.81	2.19	4.51	2.02	3.66	1.91	2.69	1.87
	22	5.46	1.42	5.12	1.60	4.84	1.75	1.79	2.21	4.45	2.04	3.64	1.93	2.78	1.87
	24	5.30	1.48	4.95	1.70	4.67	1.87	1.74	2.19	4.37	2.09	3.70	1.99	3.09	1.84
3.2	16	6.75	1.37	6.31	1.53	5.96	1.67	2.05	2.19	5.67	2.04	4.66	1.96	3.23	1.94
	18	6.58	1.41	6.17	1.58	5.85	1.72	2.01	2.29	5.42	2.09	4.38	1.99	3.04	1.99
	20	6.40	1.48	6.01	1.65	5.70	1.78	1.97	2.35	5.23	2.14	4.21	2.03	3.01	2.00
	21	6.32	1.51	5.93	1.69	5.62	1.83	1.94	2.35	5.14	2.16	4.17	2.05	3.07	2.00
	22	6.22	1.53	5.83	1.72	5.52	1.88	1.92	2.37	5.07	2.19	4.15	2.07	3.17	2.00
	24	6.04	1.59	5.64	1.82	5.32	2.00	1.87	2.35	4.99	2.25	4.22	2.13	3.53	1.97
2.0 + 2.0	16	7.55	1.08	6.97	1.31	6.51	1.49	6.34	2.09	5.54	1.91	4.79	1.75	3.92	1.60
	18	7.40	1.12	6.84	1.36	6.40	1.56	6.41	2.01	5.41	1.93	4.60	1.83	3.84	1.66
	20	7.21	1.18	6.70	1.42	6.30	1.61	6.45	1.97	5.35	1.96	4.49	1.88	3.73	1.73
	21	7.11	1.21	6.64	1.44	6.26	1.62	6.45	1.96	5.35	1.96	4.47	1.90	3.66	1.75
	22	7.00	1.23	6.57	1.46	6.22	1.64	6.44	1.96	5.35	1.96	4.45	1.90	3.59	1.77
	24	6.77	1.29	6.43	1.48	6.16	1.64	6.40	1.99	5.43	1.98	4.52	1.93	3.44	1.80
2.0 + 2.5	16	7.55	1.08	6.97	1.31	6.51	1.49	6.34	2.09	5.54	1.91	4.79	1.75	3.92	1.60
	18	7.40	1.12	6.84	1.36	6.40	1.56	6.41	2.01	5.41	1.93	4.60	1.83	3.84	1.66
	20	7.21	1.18	6.70	1.42	6.30	1.61	6.45	1.97	5.35	1.96	4.49	1.88	3.73	1.73
	21	7.11	1.21	6.64	1.44	6.26	1.62	6.45	1.96	5.35	1.96	4.47	1.90	3.66	1.75
	22	7.00	1.23	6.57	1.46	6.22	1.64	6.44	1.96	5.35	1.96	4.45	1.90	3.59	1.77
	24	6.77	1.29	6.43	1.48	6.16	1.64	6.40	1.99	5.43	1.98	4.52	1.93	3.44	1.80

Combination (Capacity)	Indoor Air Temp. °C DB	Outdoor Air Temp. °C WB													
		15		10		6		1		-5		-10		-15	
		Total Q	Input Power	Total Q	Input Power	Total Q	Input Power	Total Q	Input Power	Total Q	Input Power	Total Q	Input Power	Total Q	Input Power
2.0 + 3.2	16	8.03	1.15	7.41	1.40	6.92	1.60	6.74	2.23	5.90	2.04	5.10	1.87	4.17	1.71
	18	7.87	1.19	7.28	1.45	6.80	1.66	6.82	2.15	5.75	2.07	4.90	1.95	4.08	1.78
	20	7.67	1.26	7.13	1.52	6.70	1.72	6.86	2.11	5.69	2.09	4.78	2.01	3.96	1.84
	21	7.56	1.29	7.06	1.54	6.66	1.73	6.86	2.09	5.69	2.09	4.76	2.03	3.89	1.87
	22	7.45	1.32	6.98	1.56	6.61	1.75	6.85	2.09	5.69	2.09	4.74	2.04	3.82	1.89
	24	7.20	1.37	6.84	1.58	6.55	1.75	6.80	2.12	5.78	2.11	4.81	2.06	3.66	1.93
2.5 + 2.5	16	8.03	1.14	7.41	1.38	6.92	1.58	6.74	2.21	5.90	2.02	5.10	1.85	4.17	1.69
	18	7.87	1.18	7.28	1.44	6.80	1.65	6.82	2.13	5.75	2.04	4.90	1.93	4.08	1.75
	20	7.67	1.25	7.13	1.50	6.70	1.70	6.86	2.08	5.69	2.07	4.78	1.99	3.96	1.82
	21	7.56	1.28	7.06	1.52	6.66	1.71	6.86	2.07	5.69	2.07	4.76	2.01	3.89	1.85
	22	7.45	1.30	6.98	1.54	6.61	1.73	6.85	2.07	5.69	2.07	4.74	2.01	3.82	1.86
	24	7.20	1.36	6.84	1.56	6.55	1.73	6.80	2.10	5.78	2.09	4.81	2.03	3.66	1.91
2.5 + 3.2	16	8.03	1.14	7.41	1.38	6.92	1.58	6.74	2.21	5.90	2.02	5.10	1.85	4.17	1.69
	18	7.87	1.18	7.28	1.44	6.80	1.65	6.82	2.13	5.75	2.04	4.90	1.93	4.08	1.75
	20	7.67	1.25	7.13	1.50	6.70	1.70	6.86	2.08	5.69	2.07	4.78	1.99	3.96	1.82
	21	7.56	1.28	7.06	1.52	6.66	1.71	6.86	2.07	5.69	2.07	4.76	2.01	3.89	1.85
	22	7.45	1.30	6.98	1.54	6.61	1.73	6.85	2.07	5.69	2.07	4.74	2.01	3.82	1.86
	24	7.20	1.36	6.84	1.56	6.55	1.73	6.80	2.10	5.78	2.09	4.81	2.03	3.66	1.91
3.2 + 3.2	16	8.03	1.14	7.41	1.38	6.92	1.58	6.74	2.21	5.90	2.02	5.10	1.85	4.17	1.69
	18	7.87	1.18	7.28	1.44	6.80	1.65	6.82	2.13	5.75	2.04	4.90	1.93	4.08	1.75
	20	7.67	1.25	7.13	1.50	6.70	1.70	6.86	2.08	5.69	2.07	4.78	1.99	3.96	1.82
	21	7.56	1.28	7.06	1.52	6.66	1.71	6.86	2.07	5.69	2.07	4.76	2.01	3.89	1.85
	22	7.45	1.30	6.98	1.54	6.61	1.73	6.85	2.07	5.69	2.07	4.74	2.01	3.82	1.86
	24	7.20	1.36	6.84	1.56	6.55	1.73	6.80	2.10	5.78	2.09	4.81	2.03	3.66	1.91

20. Service Data

Service Data provided are based on the air conditioner running under rated frequency during forced cooling / forced heating mode.

20.1 Operation Characteristics (CU-2RE15PBE)

20.1.1 One Indoor Unit Operation

- Cooling Characteristic

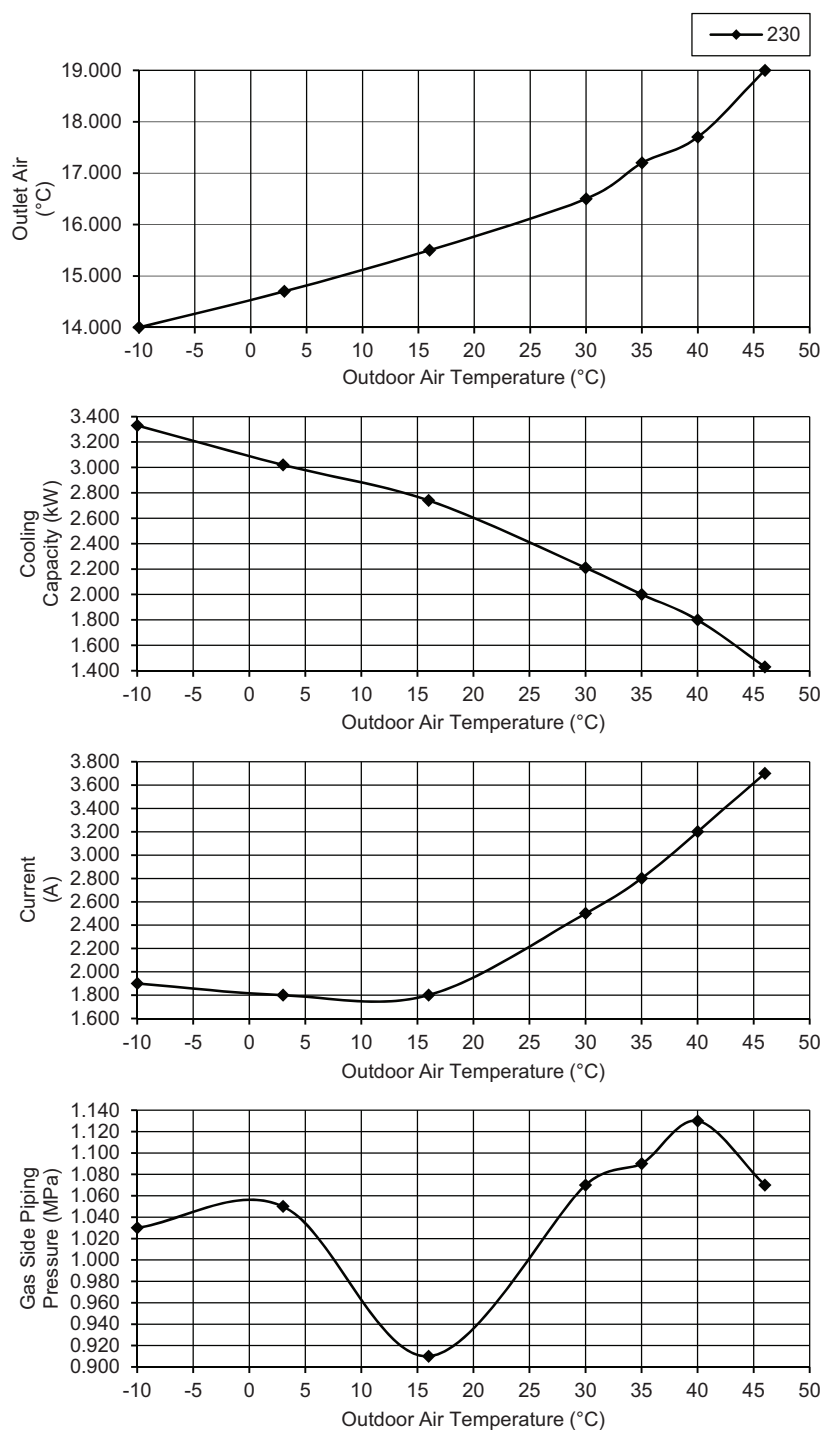
[Condition] Room temperature: 27°C (DBT), 19°C (WBT)

Operation condition: High fan speed

Piping Length: 5m

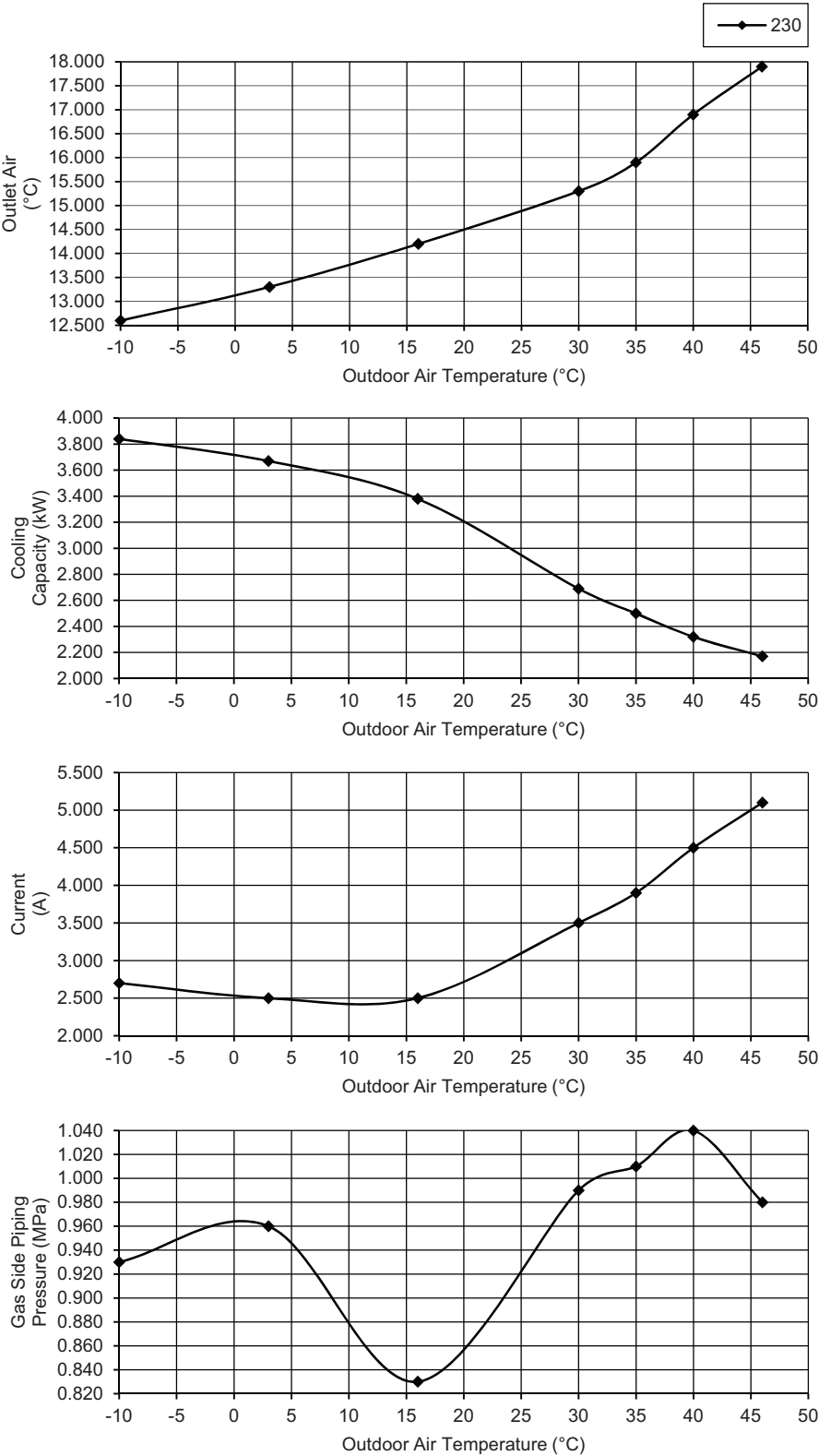
Voltage: 230V, 50Hz

A) Indoor unit capacity: Cooling (2.0), CS-MRE7RKE



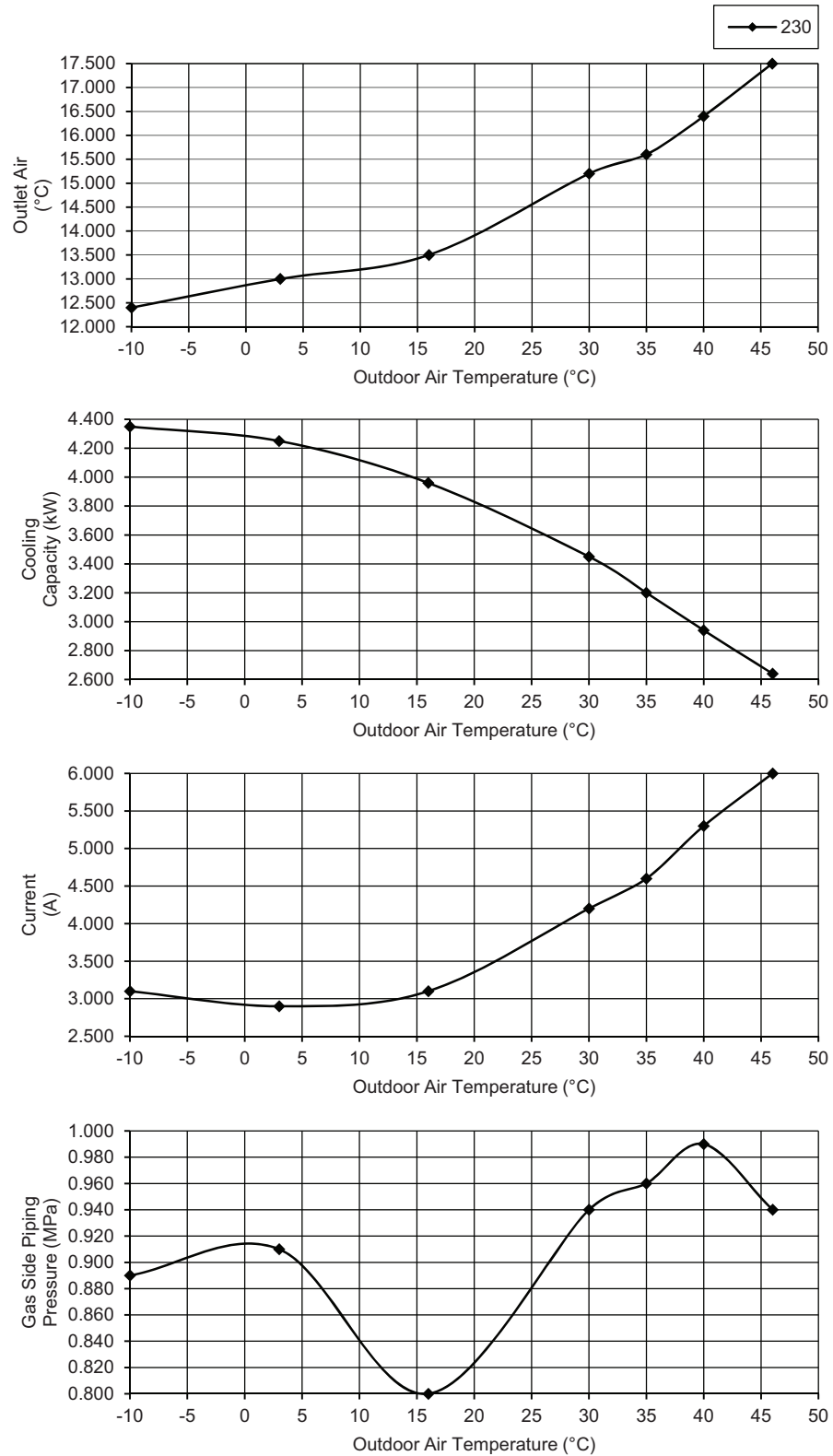
- Cooling Characteristic
- [Condition] Room temperature: 27°C (DBT), 19°C (WBT)
Operation condition: High fan speed
Piping Length: 5m
Voltage: 230V, 50Hz

B) Indoor unit capacity: Cooling (2.5), CS-RE9RKEW



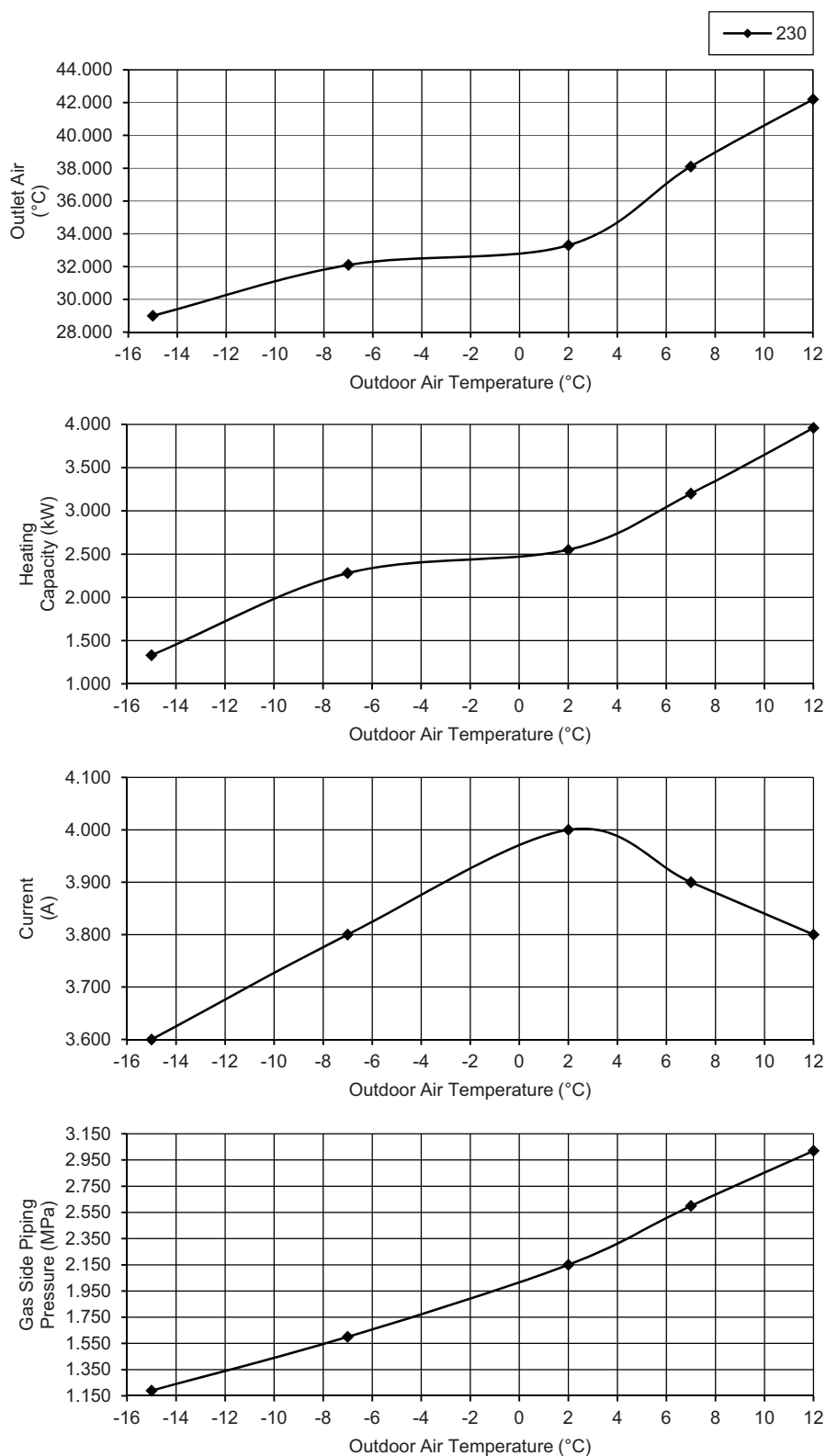
- Cooling Characteristic
- [Condition] Room temperature: 27°C (DBT), 19°C (WBT)
 Operation condition: High fan speed
 Piping Length: 5m
 Voltage: 230V, 50Hz

C) Indoor unit capacity: Cooling (3.2), CS-RE12RKEW



- Heating Characteristic
- [Condition] Room temperature: 20°C (DBT), 12°C (WBT)
 Operation condition: High fan speed
 Piping Length: 5m
 Voltage: 230V, 50Hz

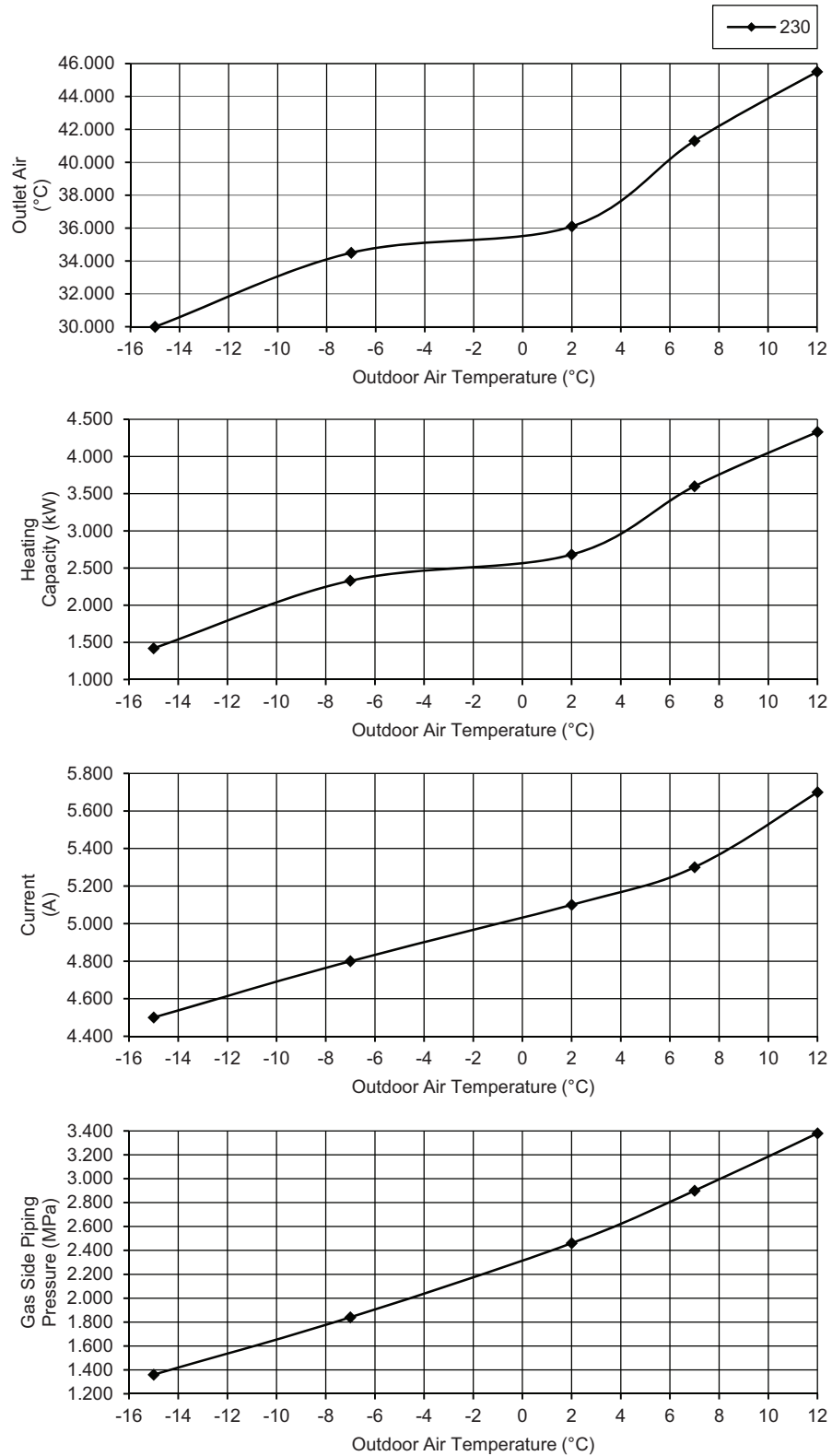
A) Indoor unit capacity: Heating (2.0), CS-MRE7RKE



7°C & 12°C (Outdoor Air Temp.) = Heating Overload Protection activated

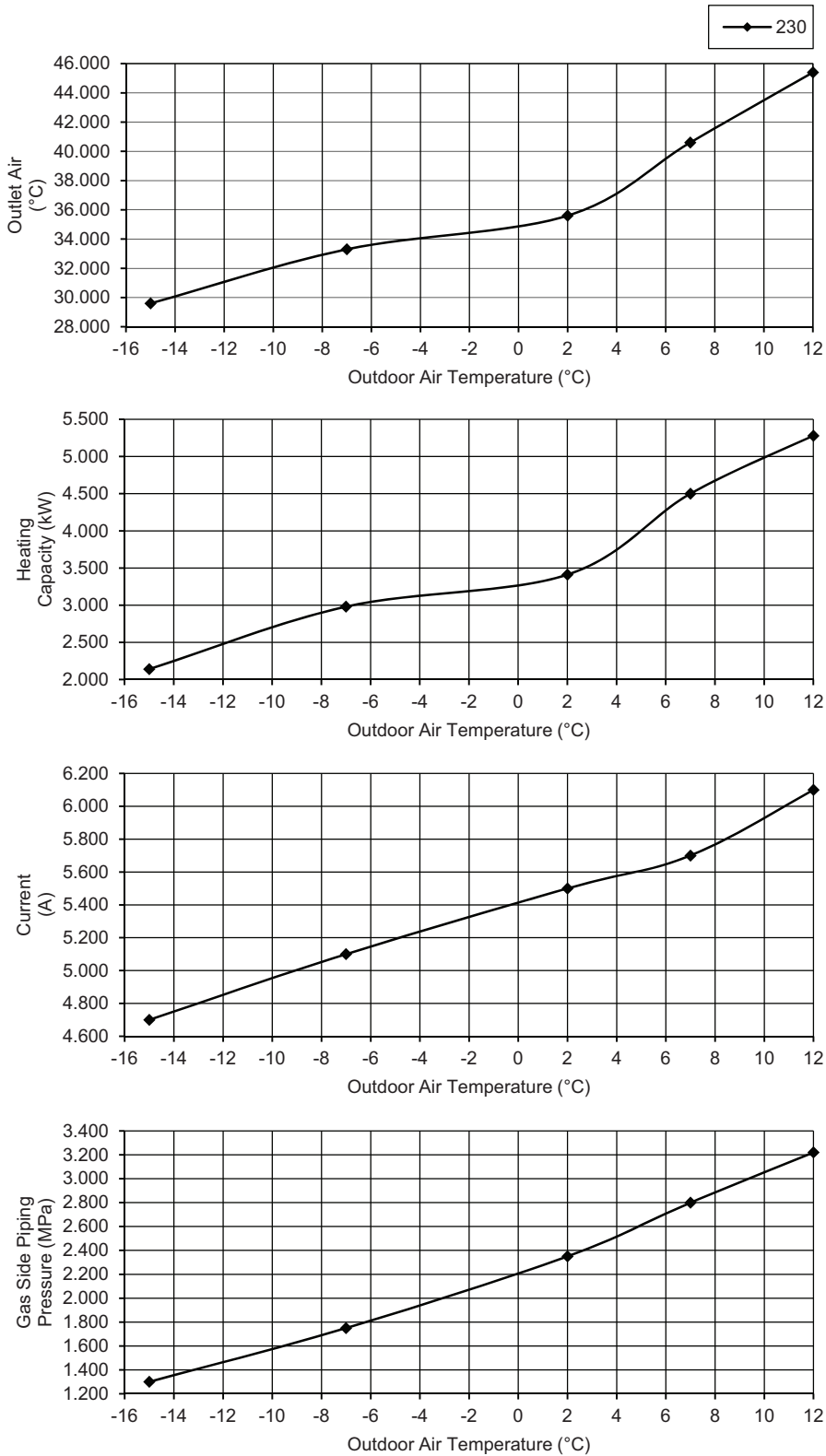
- Heating Characteristic
- [Condition] Room temperature: 20°C (DBT), 12°C (WBT)
 Operation condition: High fan speed
 Piping Length: 5m
 Voltage: 230V, 50Hz

B) Indoor unit capacity: Heating (2.5), CS-RE9RKEW



- Heating Characteristic
- [Condition] Room temperature: 20°C (DBT), 12°C (WBT)
 Operation condition: High fan speed
 Piping Length: 5m
 Voltage: 230V, 50Hz

C) Indoor unit capacity: Heating (3.2), CS-RE12RKEW



20.1.2 Two Indoor Unit Operation

- Cooling Characteristic

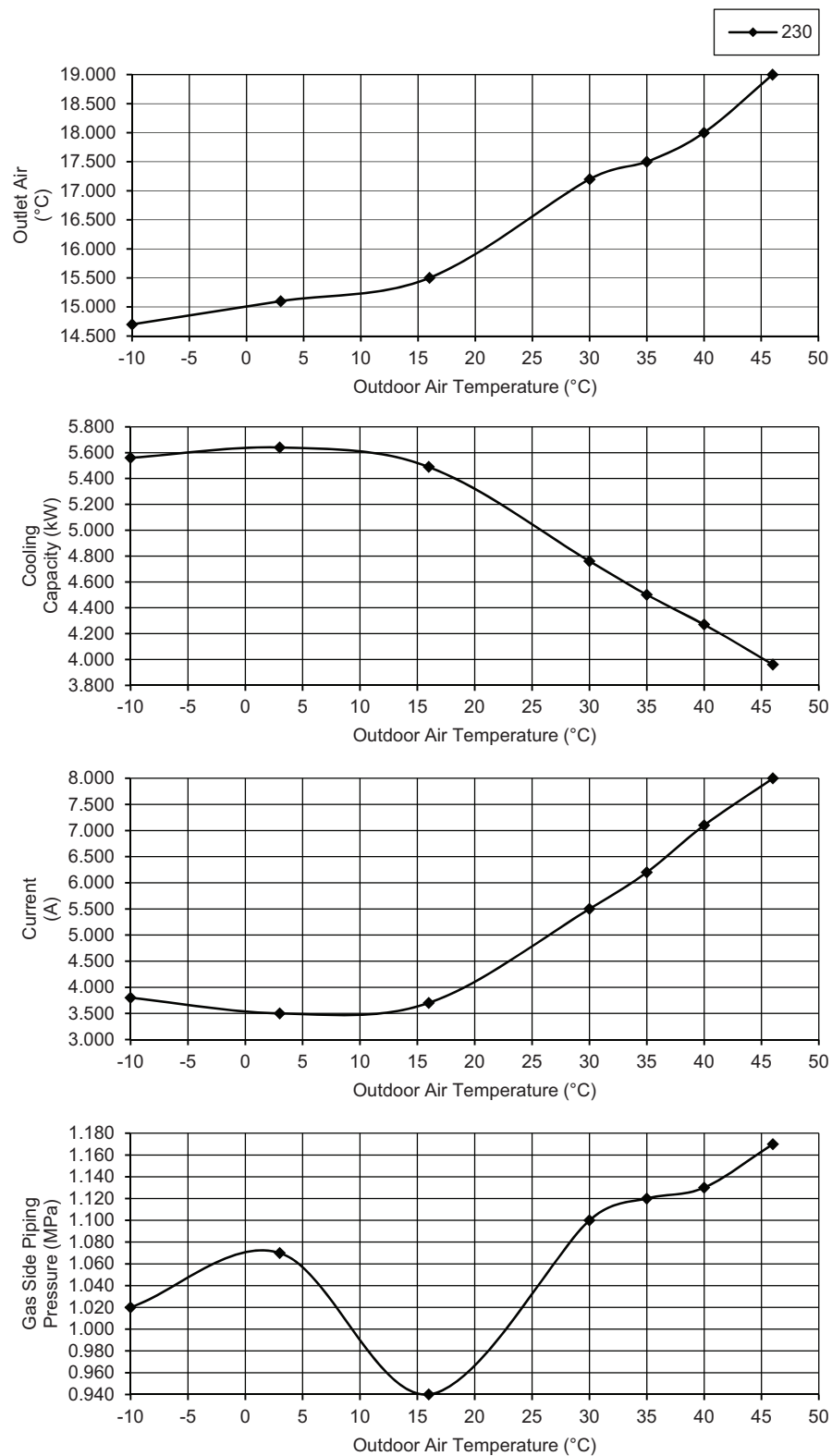
[Condition] Room temperature: 27°C (DBT), 19°C (WBT)

Operation condition: High fan speed

Piping Length: 5m

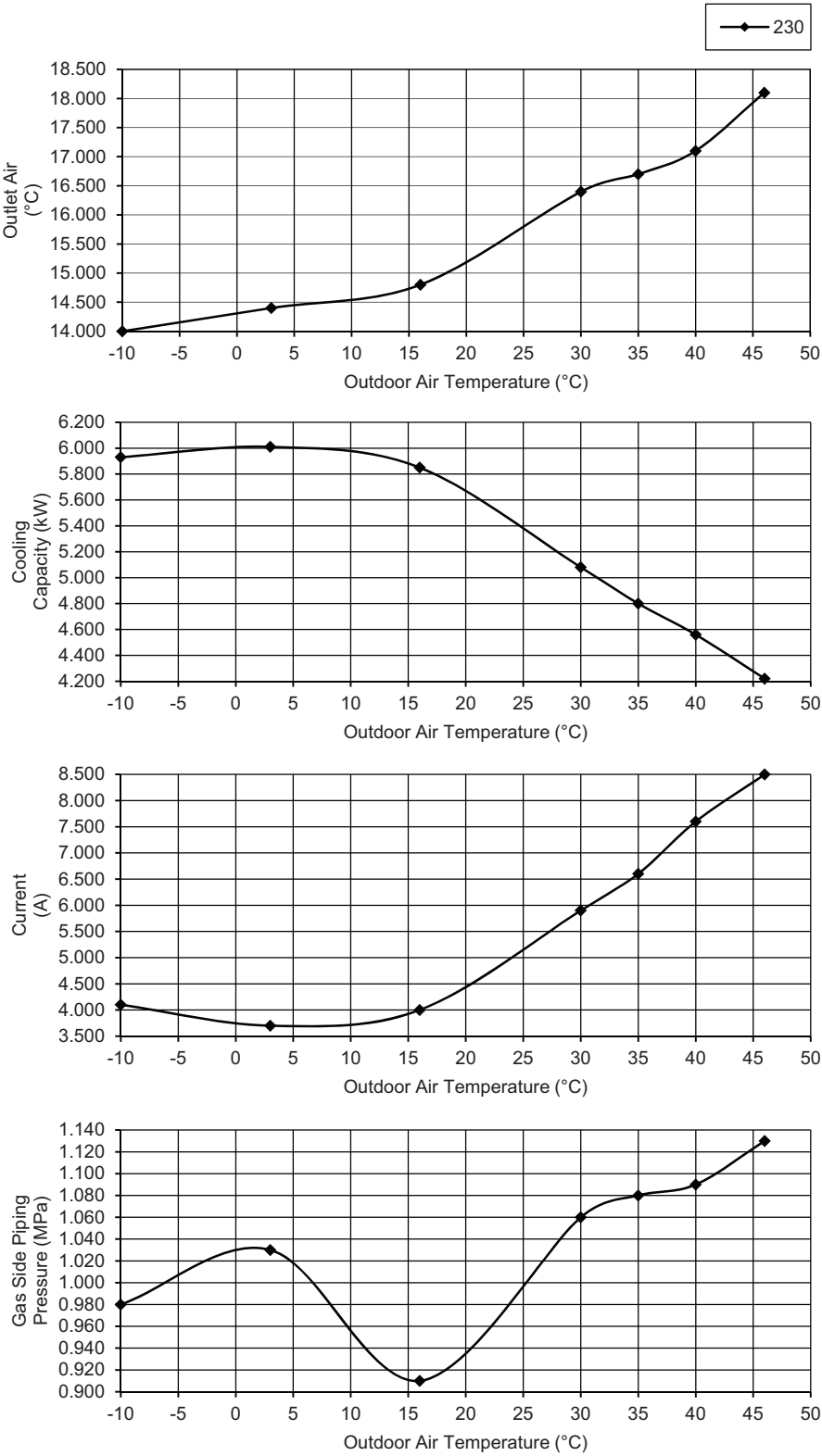
Voltage: 230V, 50Hz

A) Indoor unit capacity: Cooling (2.0 + 2.0), CS-MRE7RKE + CS-MRE7RKE



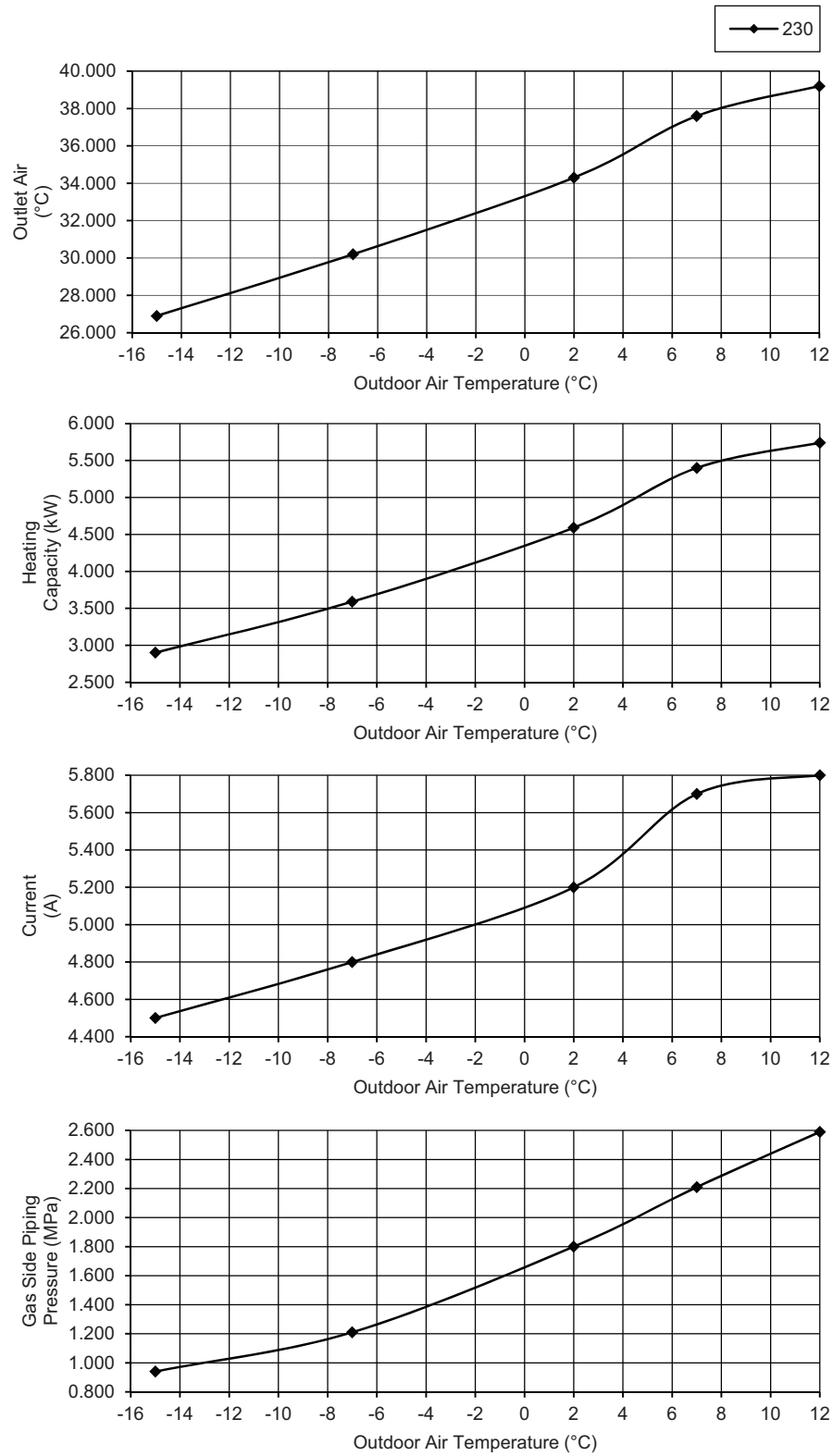
- Cooling Characteristic
- [Condition] Room temperature: 27°C (DBT), 19°C (WBT)
Operation condition: High fan speed
Piping Length: 5m
Voltage: 230V, 50Hz

B) Indoor unit capacity: Cooling (2.5 + 2.5), CS-RE9RKEW + CS-RE9RKEW



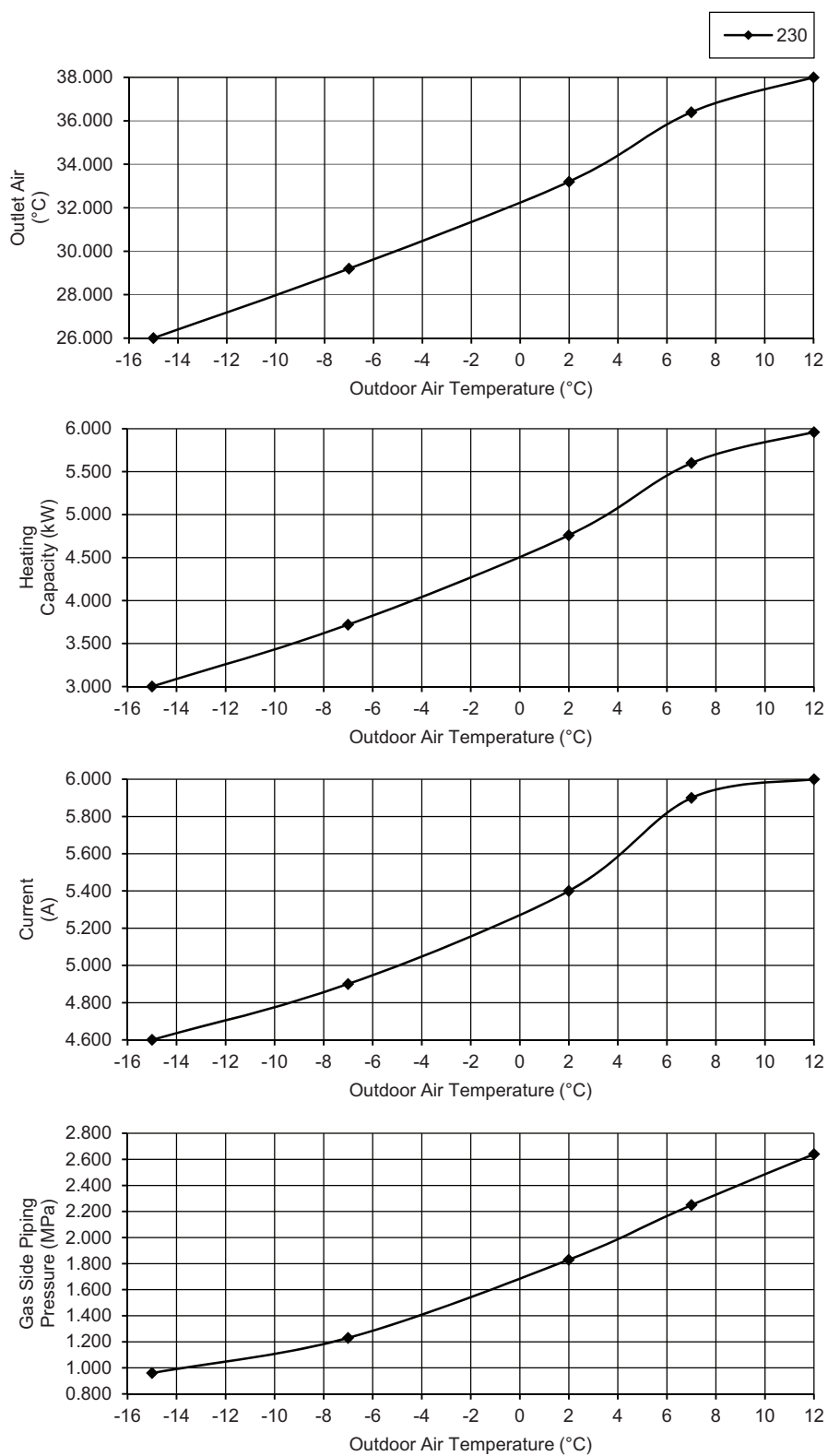
- Heating Characteristic
- [Condition] Room temperature: 20°C (DBT), 12°C (WBT)
 Operation condition: High fan speed
 Piping Length: 5m
 Voltage: 230V, 50Hz

A) Indoor unit capacity: Heating (2.0 + 2.0), CS-MRE7RKE + CS-MRE7RKE



- Heating Characteristic
- [Condition] Room temperature: 20°C (DBT), 12°C (WBT)
 Operation condition: High fan speed
 Piping Length: 5m
 Voltage: 230V, 50Hz

B) Indoor unit capacity: Heating (2.5 + 2.5), CS-RE9RKEW + CS-RE9RKEW

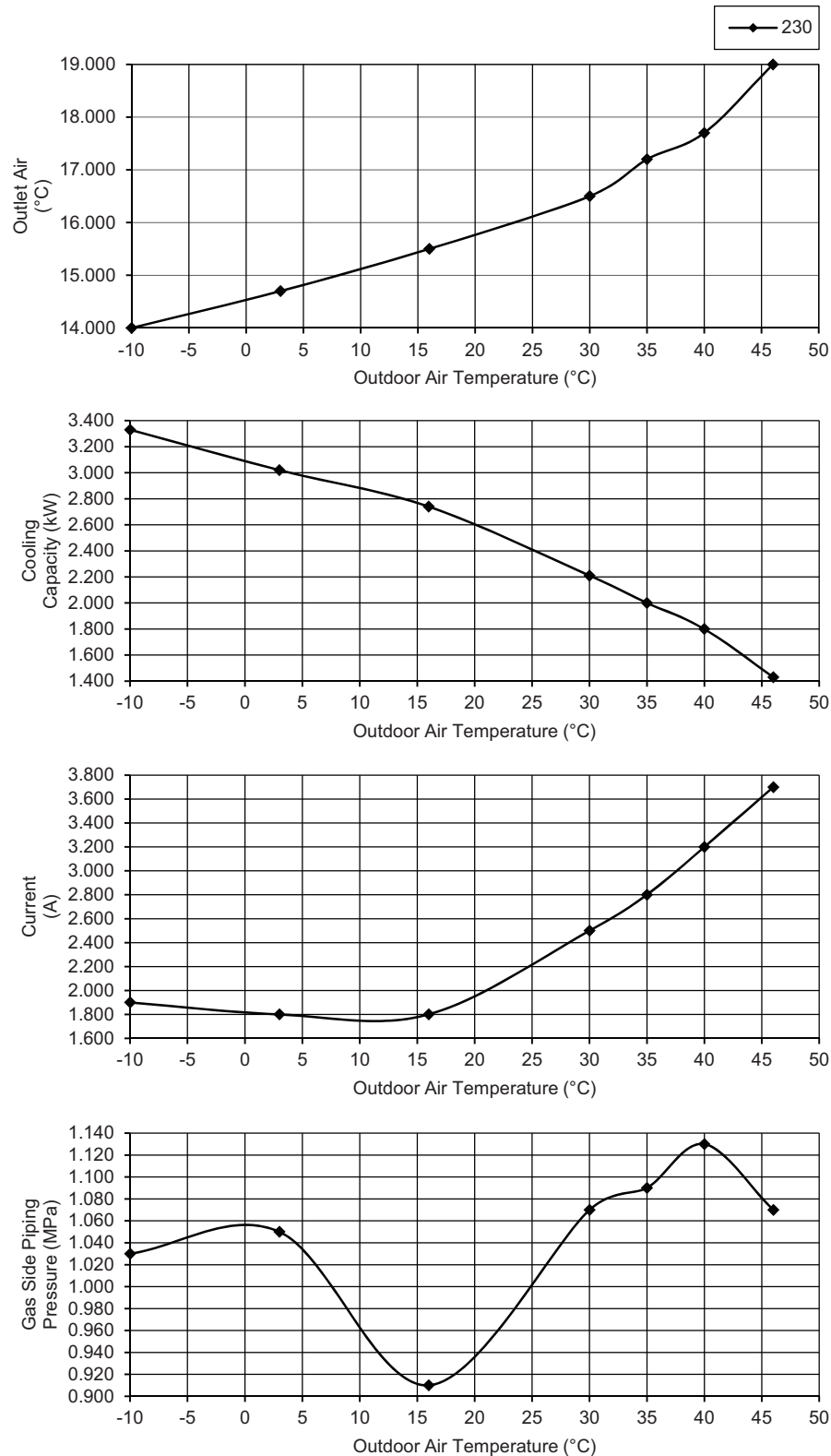


20.2 Operation Characteristics (CU-2RE18PBE)

20.2.1 One Indoor Unit Operation

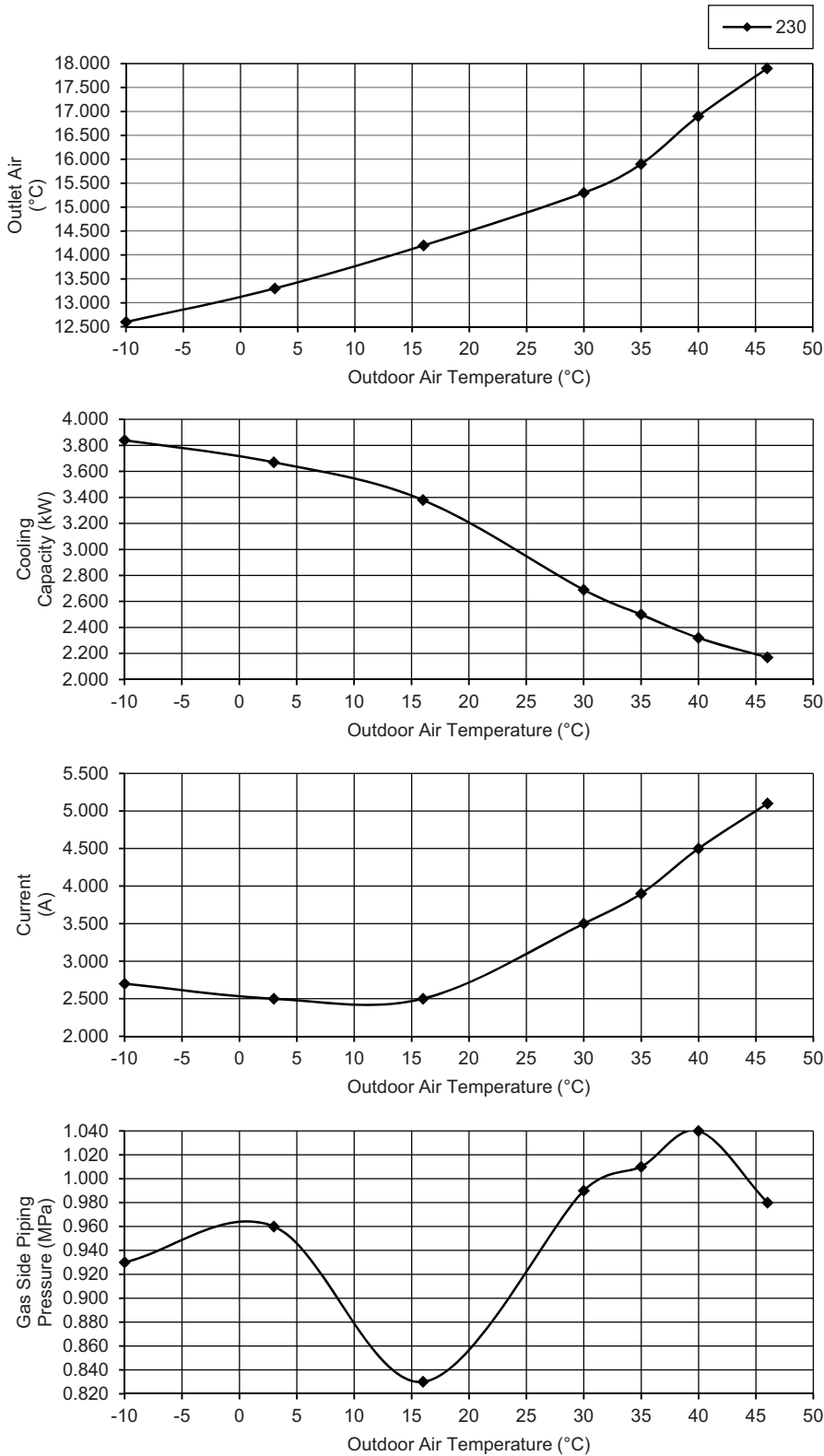
- Cooling Characteristic
- [Condition] Room temperature: 27°C (DBT), 19°C (WBT)
Operation condition: High fan speed
Piping Length: 5m
Voltage: 230V, 50Hz

A) Indoor unit capacity: Cooling (2.0), CS-MRE7RKE



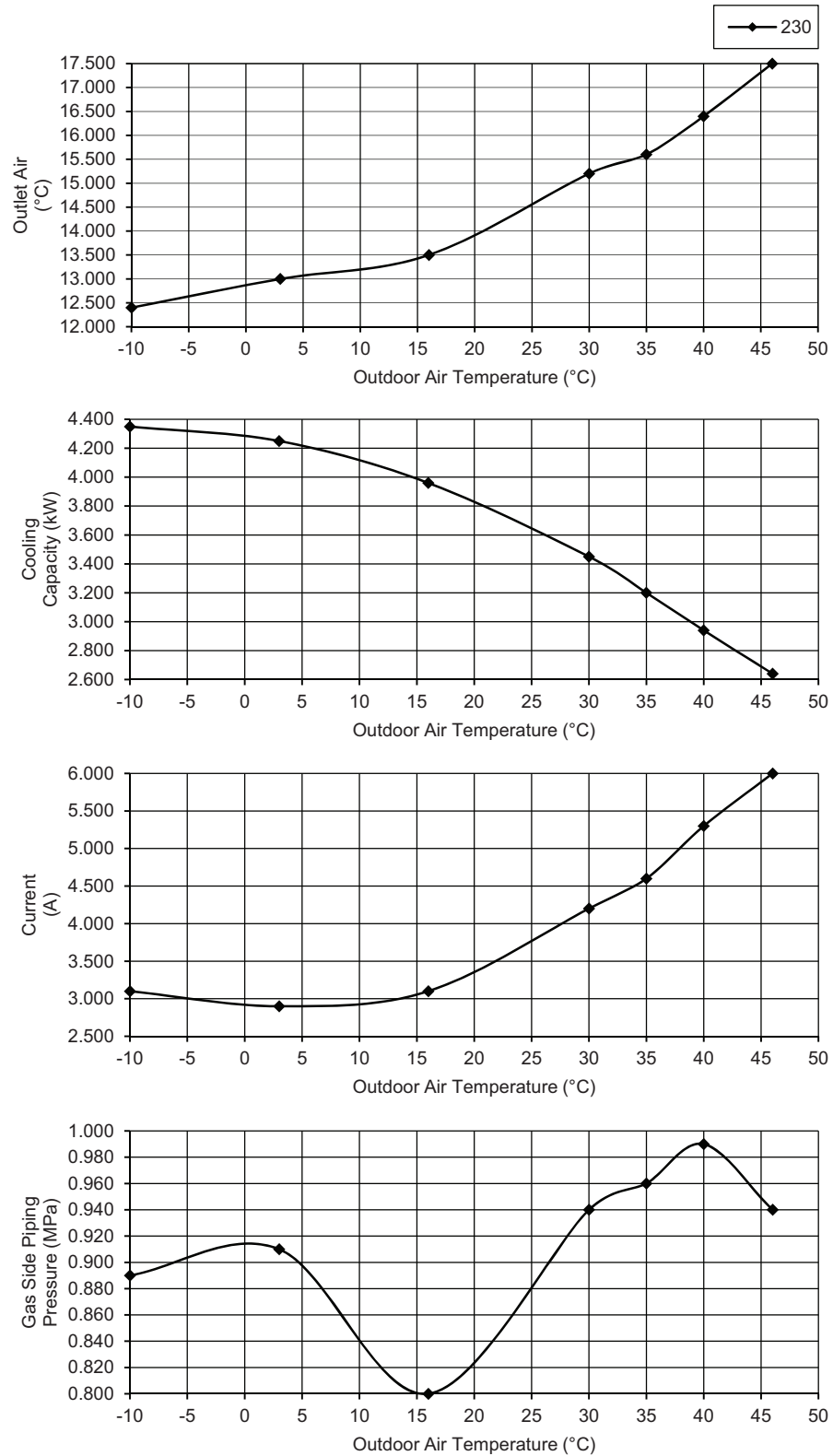
- Cooling Characteristic
- [Condition] Room temperature: 27°C (DBT), 19°C (WBT)
 Operation condition: High fan speed
 Piping Length: 5m
 Voltage: 230V, 50Hz

B) Indoor unit capacity: Cooling (2.5), CS-RE9RKEW



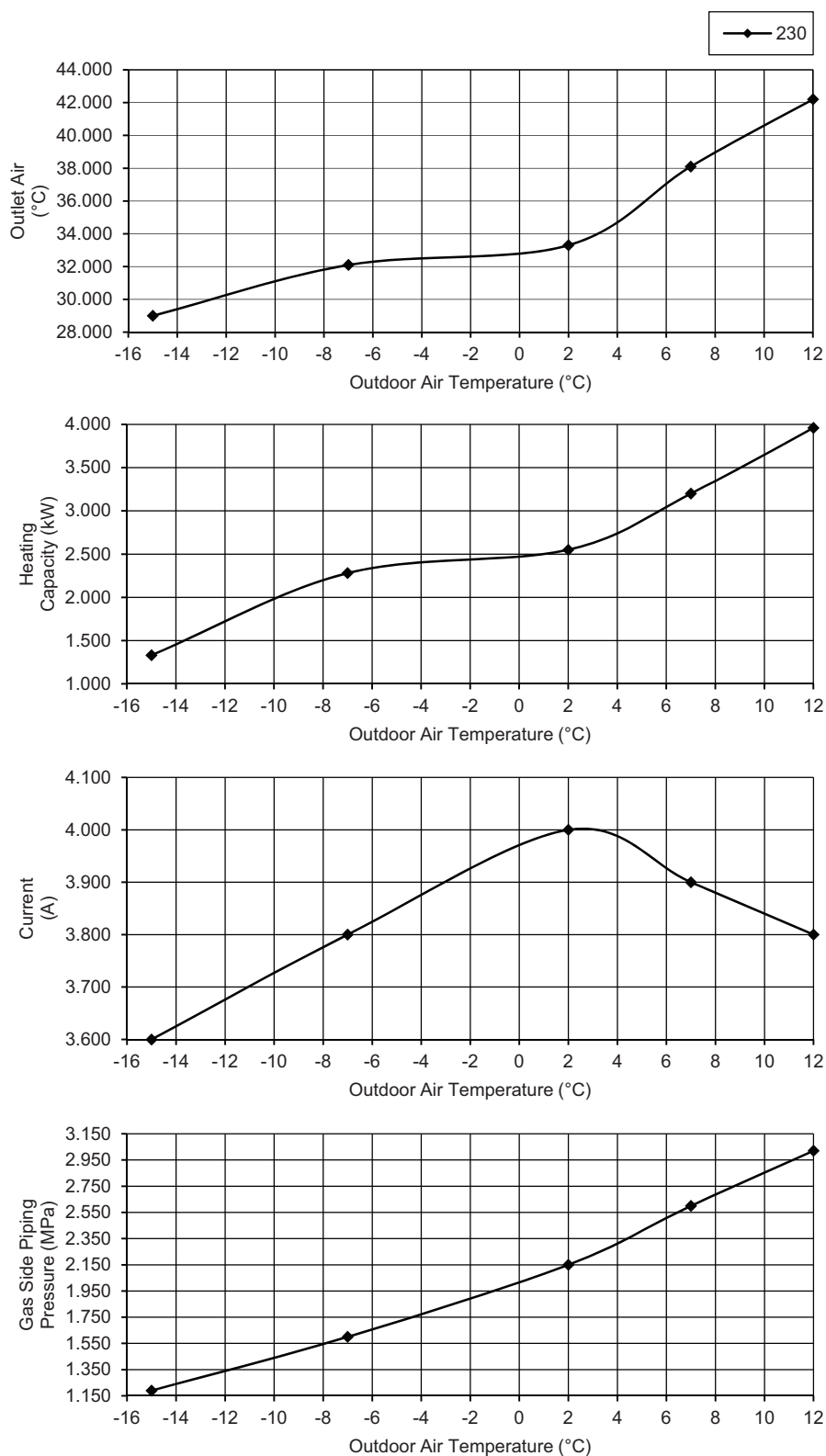
- Cooling Characteristic
- [Condition] Room temperature: 27°C (DBT), 19°C (WBT)
 Operation condition: High fan speed
 Piping Length: 5m
 Voltage: 230V, 50Hz

C) Indoor unit capacity: Cooling (3.2), CS-RE12RKEW



- Heating Characteristic
- [Condition] Room temperature: 20°C (DBT), 12°C (WBT)
 Operation condition: High fan speed
 Piping Length: 5m
 Voltage: 230V, 50Hz

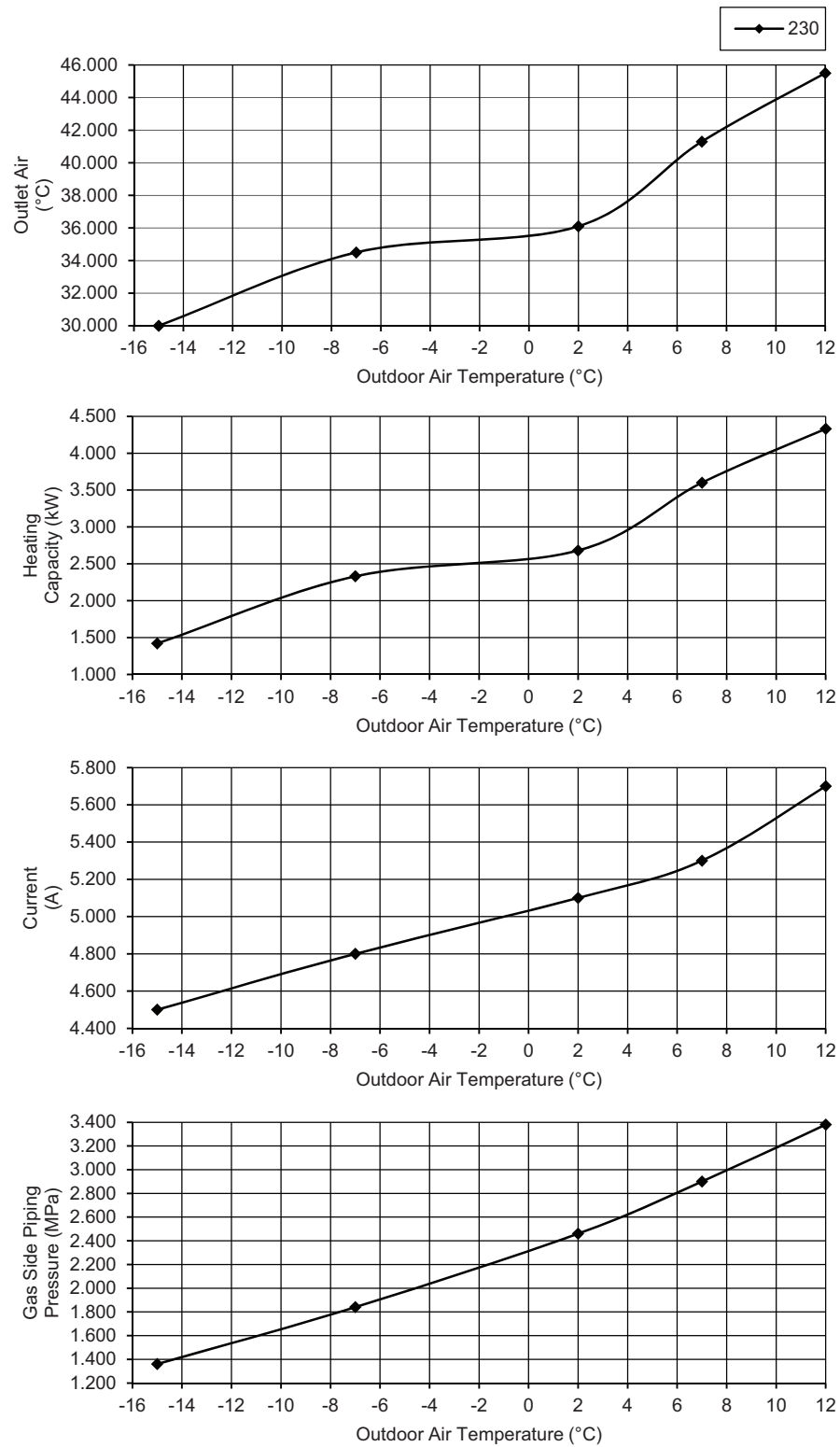
A) Indoor unit capacity: Heating (2.0), CS-MRE7RKE



7°C & 12°C (Outdoor Air Temp.) = Heating Overload Protection activated

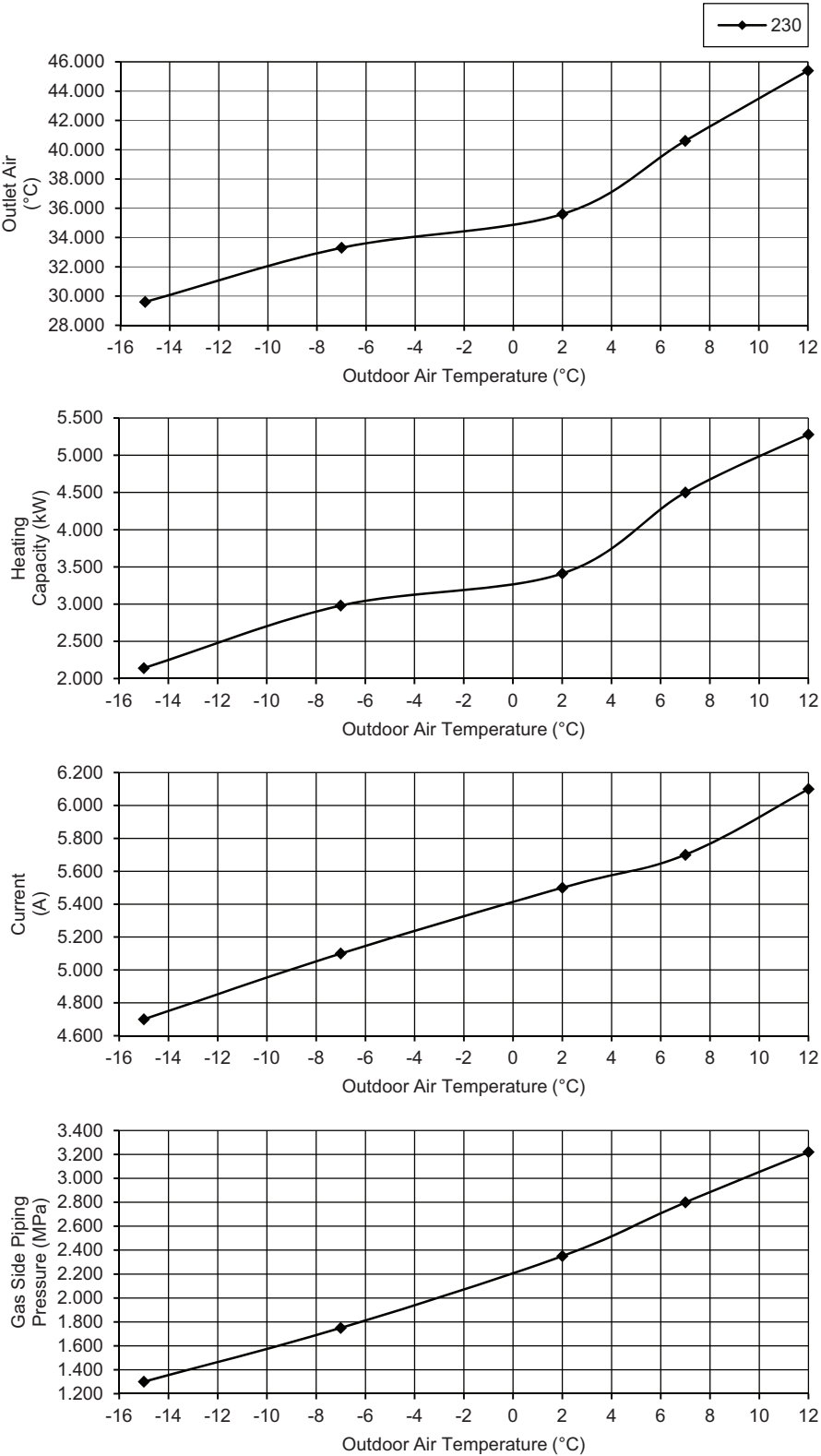
- Heating Characteristic
- [Condition] Room temperature: 20°C (DBT), 12°C (WBT)
 Operation condition: High fan speed
 Piping Length: 5m
 Voltage: 230V, 50Hz

B) Indoor unit capacity: Heating (2.5), CS-RE9RKEW



- Heating Characteristic
- [Condition] Room temperature: 20°C (DBT), 12°C (WBT)
Operation condition: High fan speed
Piping Length: 5m
Voltage: 230V, 50Hz

C) Indoor unit capacity: Heating (3.2), CS-RE12RKEW



20.2.2 Two Indoor Unit Operation

- Cooling Characteristic

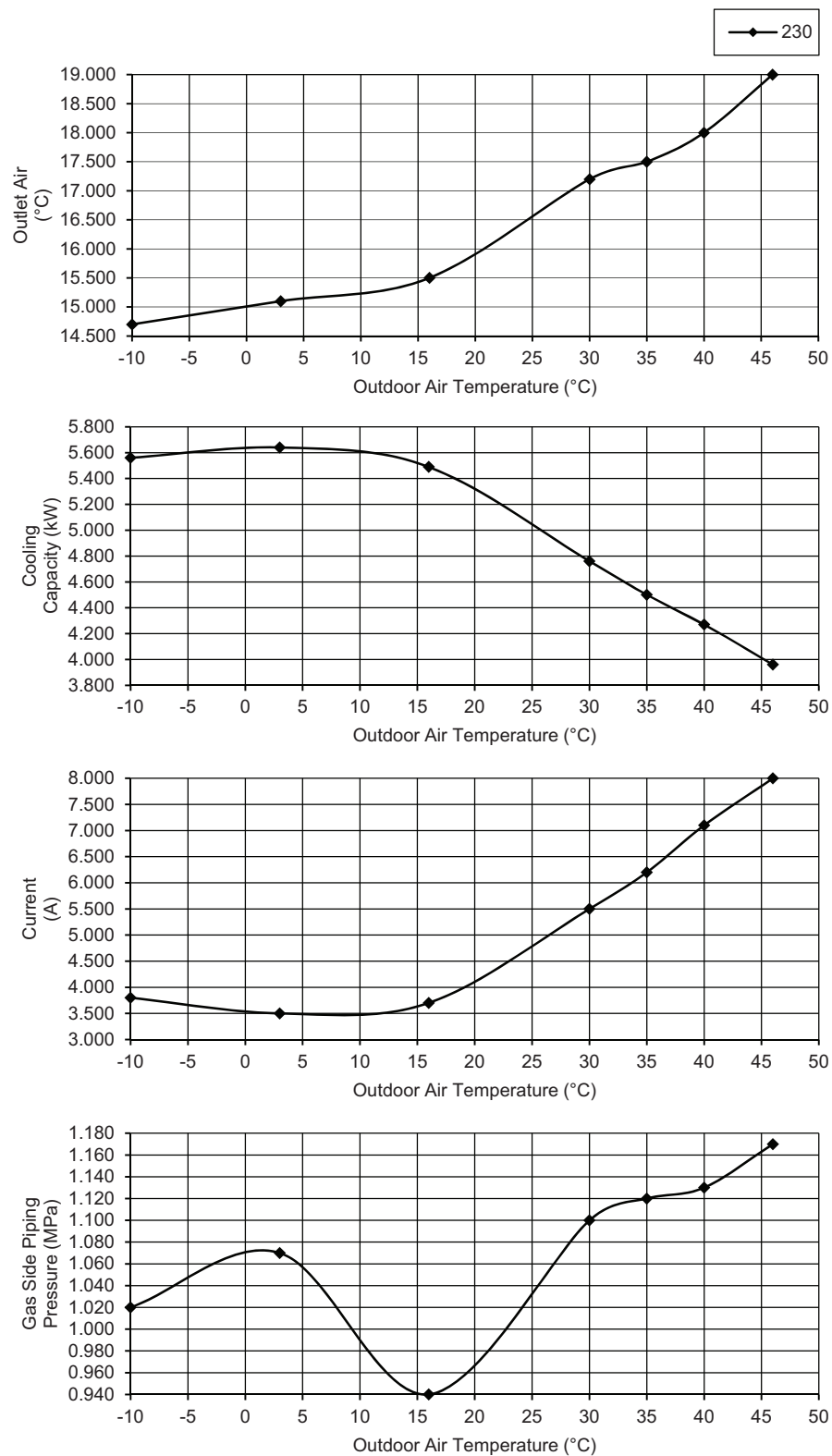
[Condition] Room temperature: 27°C (DBT), 19°C (WBT)

Operation condition: High fan speed

Piping Length: 5m

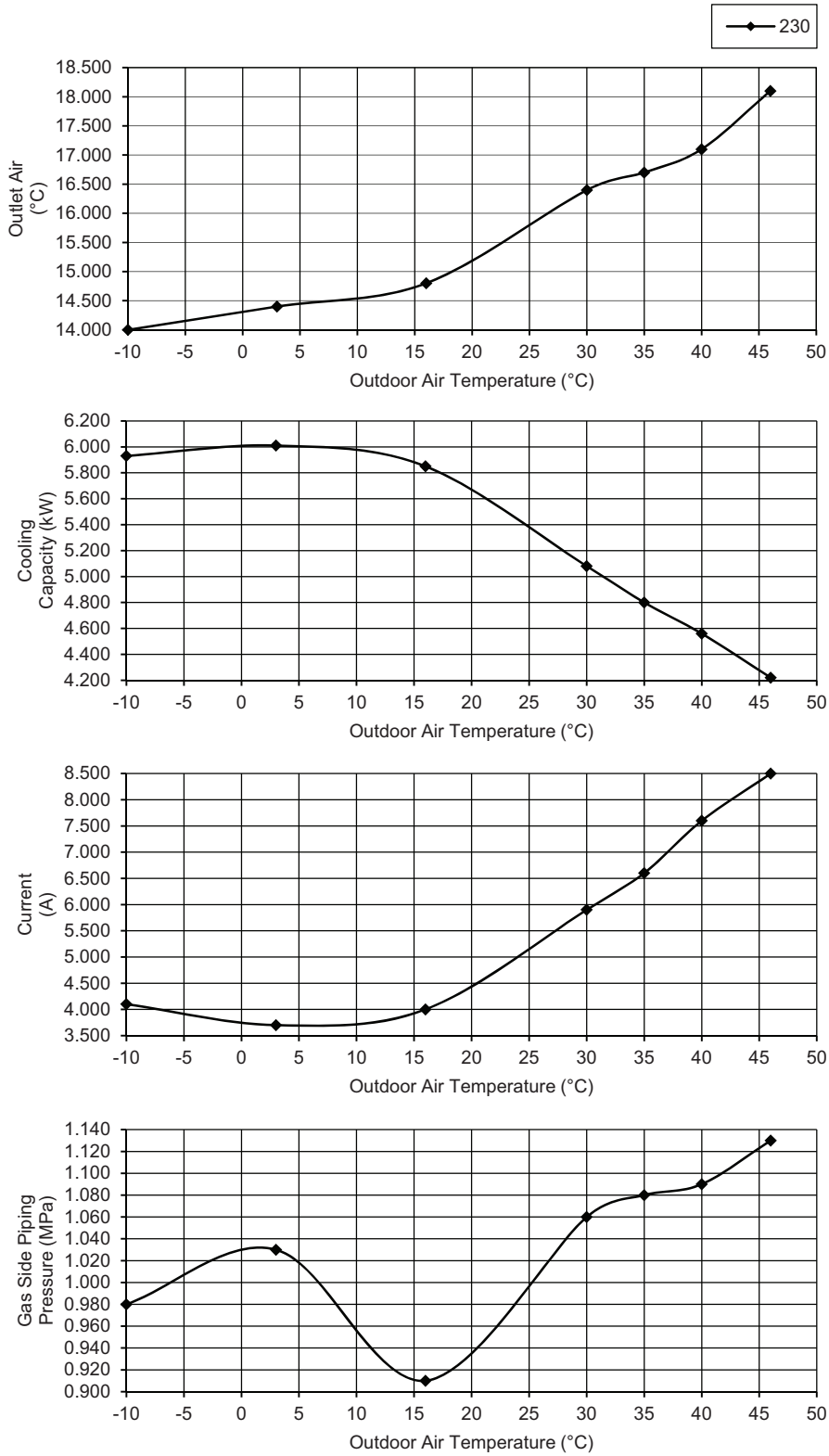
Voltage: 230V, 50Hz

A) Indoor unit capacity: Cooling (2.0 + 2.0), CS-MRE7RKE + CS-MRE7RKE



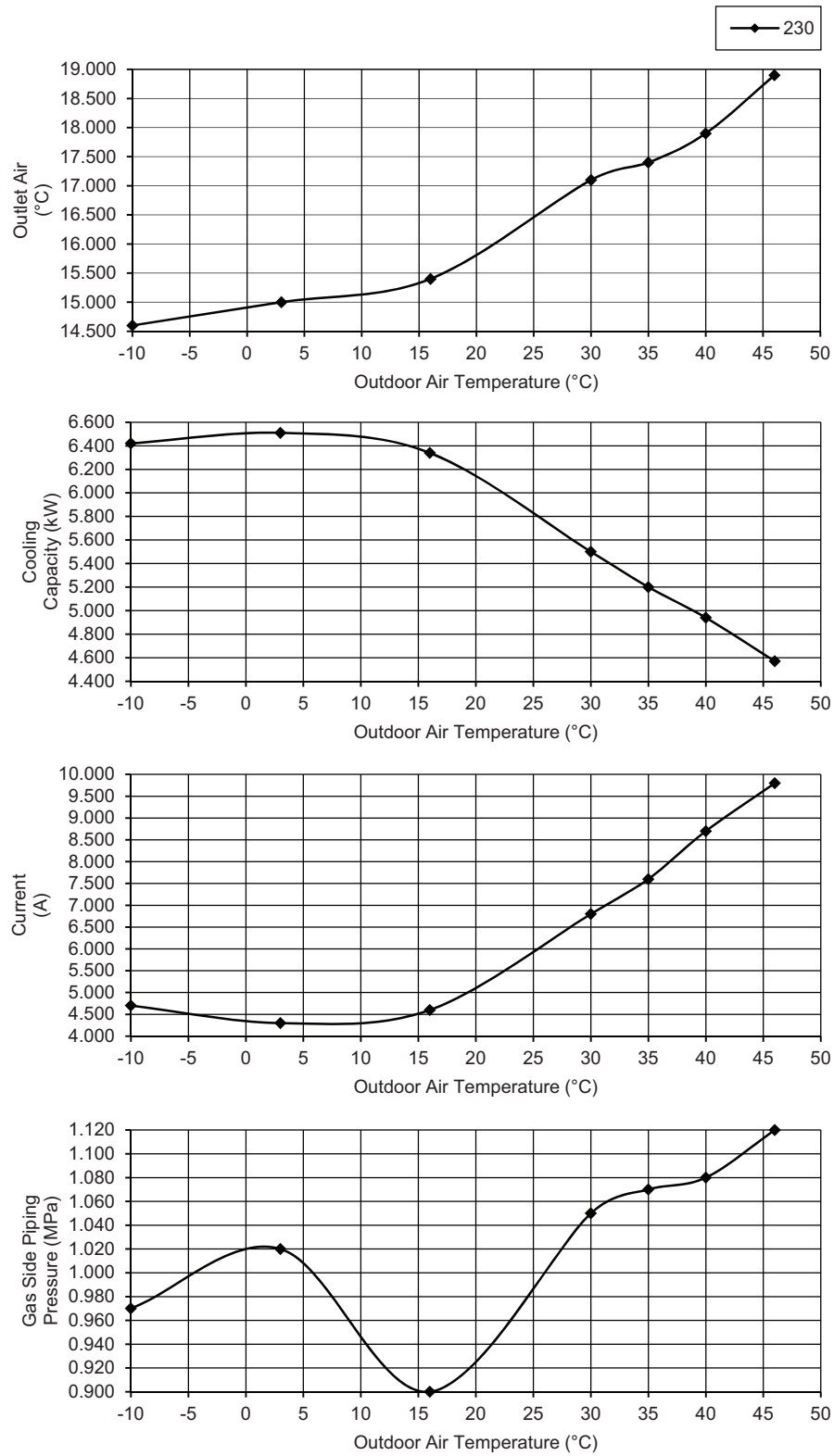
- Cooling Characteristic
- [Condition] Room temperature: 27°C (DBT), 19°C (WBT)
 Operation condition: High fan speed
 Piping Length: 5m
 Voltage: 230V, 50Hz

B) Indoor unit capacity: Cooling (2.5 + 2.5), CS-RE9RKEW + CS-RE9RKEW



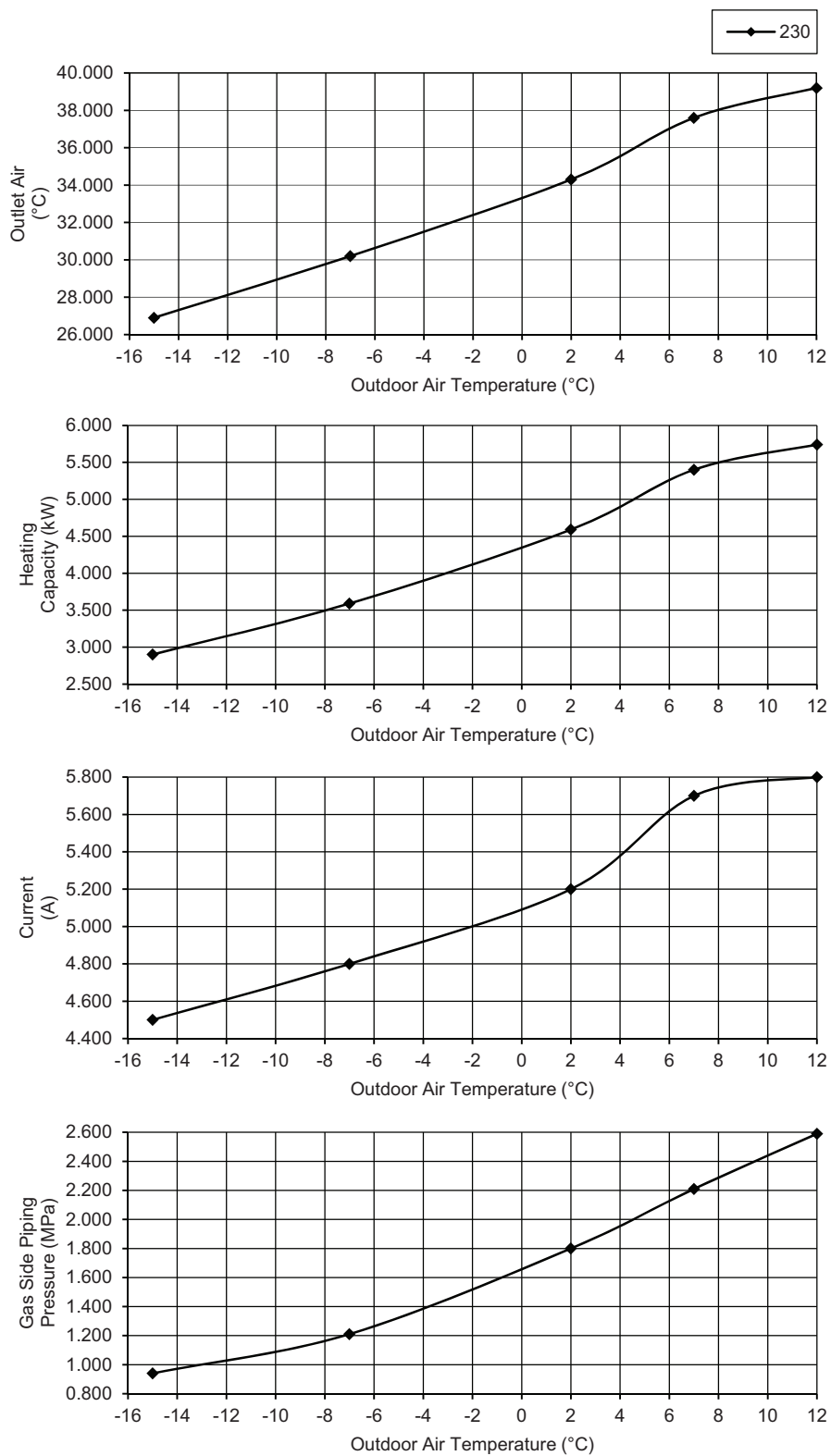
- Cooling Characteristic
- [Condition] Room temperature: 27°C (DBT), 19°C (WBT)
 Operation condition: High fan speed
 Piping Length: 5m
 Voltage: 230V, 50Hz

C) Indoor unit capacity: Cooling (3.2 + 3.2), CS-RE12RKEW + CS-RE12RKEW



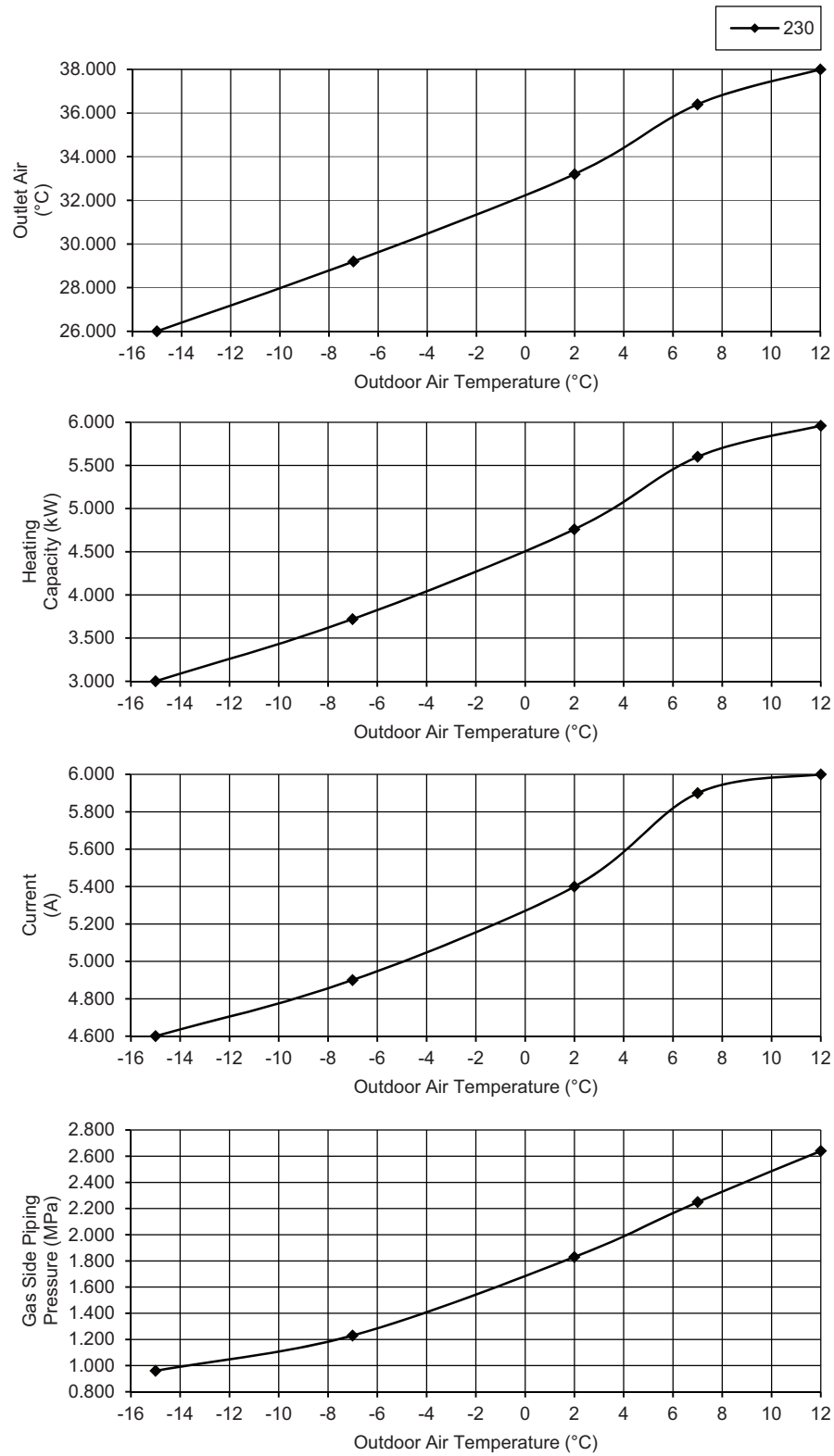
- Heating Characteristic
- [Condition] Room temperature: 20°C (DBT), 12°C (WBT)
 Operation condition: High fan speed
 Piping Length: 5m
 Voltage: 230V, 50Hz

A) Indoor unit capacity: Heating (2.0 + 2.0), CS-MRE7RKE + CS-MRE7RKE



- Heating Characteristic
- [Condition] Room temperature: 20°C (DBT), 12°C (WBT)
 Operation condition: High fan speed
 Piping Length: 5m
 Voltage: 230V, 50Hz

B) Indoor unit capacity: Heating (2.5 + 2.5), CS-RE9RKEW + CS-RE9RKEW



- Heating Characteristic
- [Condition] Room temperature: 20°C (DBT), 12°C (WBT)
Operation condition: High fan speed
Piping Length: 5m
Voltage: 230V, 50Hz

C) Indoor unit capacity: Heating (3.2 + 3.2), CS-RE12RKEW + CS-RE12RKEW

