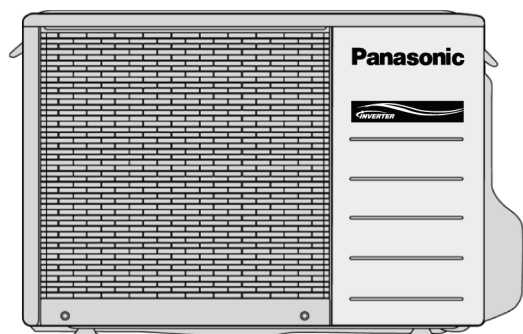


Service Manual

Air Conditioner

CS-E9GFEW CU-E9GFE
CS-E12GFEW CU-E12GFE
CS-E18GFEW CU-E18GFE



Please file and use this manual together with the Service Manual for Model No. CU-2E15GBE, Order No. MAC0704001A2, Model No. CU-3E18EBE, Order No. RAC0602011C2, Model No. CU-3E23CBPG, CU-4E27CBPG, Order No. RAC0209005C2.

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.

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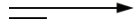
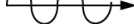
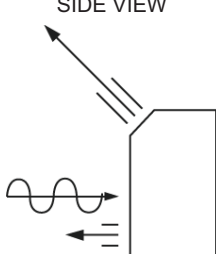
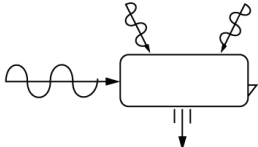
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2 Specifications

2.1. Floor Type

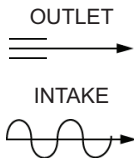
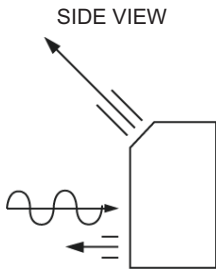
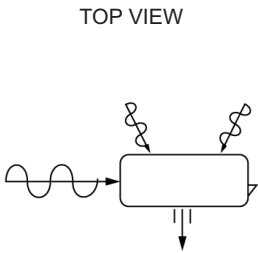
2.1.1. CS-E9GFEW CU-E9GFE

ITEM		UNIT	CS-E9GFEW	CU-E9GFE
Cooling Capacity		kW	2.50 (0.80 ~ 3.00)	
		kCal/h	2,150 (690 ~ 2,580)	
		BTU/h	8,500 (2,700 ~ 10,200)	
Heating Capacity		kW	3.60 (0.80 ~ 5.00)	
		kCal/h	3,100 (690 ~ 4,300)	
		BTU/h	12,300 (2,700 ~ 17,100)	
Moisture Removal		l/h	1.4	
		pt/h	(2.9)	
Power Source		Phase	Single	
		V	220 / 230 / 240	
		Cycle	50	
Airflow Method		OUTLET  INTAKE 	SIDE VIEW 	TOP VIEW 
Air Volume	Indoor Air (Lo)	m ³ /min (cfm)	Cooling; 5.6 (198) Heating; 5.6 (198)	—
	Indoor Air (Me)	m ³ /min (cfm)	Cooling; 7.4 (261) Heating; 7.6 (268)	—
	Indoor Air (Hi)	m ³ /min (cfm)	Cooling; 9.3 (328) Heating; 9.6 (339)	Cooling; 29.8 (1,050) Heating; 29.8 (1,050)
Noise Level		dB (A)	Cooling; High 38, Low 27 Heating; High 38, Low 28	Cooling; 46 Heating; 47
		Power Level dB	Cooling; High 54 Heating; High 54	Cooling; 59 Heating; 60
Electrical Data	Input	W	Cooling; 570 (175 - 780) Heating; 865 (165 - 1,360)	
	Running Current	A	Cooling; 2.75 / 2.70 / 2.65 Heating; 4.20 / 4.05 / 3.90	
	EER	W/W(kcal/hw), BTU/hw	Cooling; 4.39 (3.78), 15.0	
	COP	W/W(kcal/hw), BTU/hw	Heating; 4.16 (3.58), 14.2	
	Starting Current	A	4.20	
Piping Connection Port (Flare piping)		inch	G; Half Union 3/8"	G; 3-way valve 3/8"
		inch	L; Half Union 1/4"	L; 2-way valve 1/4"
Piping Size (Flare piping)		inch	G; (gas side); 3/8"	G; (gas side); 3/8"
		inch	L; (liquid side); 1/4"	L; (liquid side); 1/4"
Drain Hose	Inner diameter	mm	15	—
	Length	mm	220	—
Power Cord Length			—	—
Number of core-wire			—	—
Dimensions	Height	(inch) mm	23-5/8 (600)	21-1/4 (540)
	Width	(inch) mm	27-9/16 (700)	30-23/32 (780)
	Depth	(inch) mm	8-9/32 (210)	11-3/8 (289)
Net Weight		lb (kg)	31 (14)	82 (37)

ITEM		UNIT	CS-E9GFEW	CU-E9GFE
Compressor	Type		—	Hermetic motor (rotary)
	Motor Type		—	Brushless (6-poles)
	Rated Output	W	—	700
Air Circulation	Type		Turbo Fan	Propeller Fan
	Material		ASG	PP
	Motor Type		Transistor (8-poles)	Induction (6-poles)
	Input	W	—	66.0 / 69.1 / 74.1
	Rated Output	W	48	28
	Fan Speed Lo (Cool / Heat)		620 / 630	—
	Me (Cool / Heat)		510 / 520	—
	Hi (Cool / Heat)		410 / 410	770
Heat Exchanger	Description		Evaporator	Condenser
	Tube Material		Copper	Copper
	Fin Material		Aluminium (Pre coat)	Aluminium (Pre coat)
	Fin Type		Slit Fin	Corrugated Fin
	Row / Stage		(Plate fin configuration, forced draft)	
			2 / 22	2 / 24
	FPI		19	17
	Size (W x H x L)	mm	510 x 396 x 24	689.8 x 504 x 36.4 718.4 x 504 x 36.4
Refrigeration Control Device			—	Capillary Tube
Refrigeration Oil		(c.c)	—	RB68A (320)
Refrigerant (R410A)		g (oz)	—	965 (34.0)
Thermostat			Electronic Control	Electronic Control
Protection Device			Electronic Control	Electronic Control
Air Filter	Material		PET	—
	Style		Honeycomb	

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

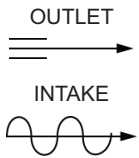
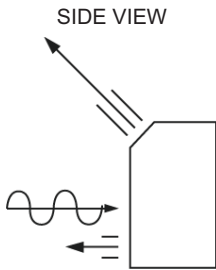
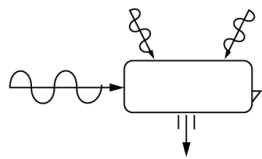
2.1.2. CS-E12GFEW CU-E12GFE

ITEM		UNIT	CS-E12GFEW	CU-E12GFE
Cooling Capacity		kW	3.50 (0.80 ~ 3.80)	
		kCal/h	3,010 (690 ~ 3,270)	
		BTU/h	11,900 (2,700 ~ 13,000)	
Heating Capacity		kW	4.80 (0.80 ~ 6.10)	
		kCal/h	4,130 (690 ~ 5,240)	
		BTU/h	16,400 (2,700 ~ 20,800)	
Moisture Removal		l/h	2.0	
		pt/h	(4.2)	
Power Source		Phase	Single	
		V	220 / 230 / 240	
		Cycle	50	
Airflow Method				
Air Volume	Indoor Air (Lo)	m ³ /min (cfm)	Cooling; 5.9 (208) Heating; 5.6 (198)	—
	Indoor Air (Me)	m ³ /min (cfm)	Cooling; 7.6 (268) Heating; 7.6 (268)	—
	Indoor Air (Hi)	m ³ /min (cfm)	Cooling; 9.5 (335) Heating; 10.0 (353)	Cooling; 31.0 (1,095) Heating; 31.0 (1,095)
Noise Level		dB (A)	Cooling; High 39, Low 28 Heating; High 39, Low 27	Cooling; 48 Heating; 50
		Power Level dB	Cooling; High 55 Heating; High 55	Cooling; 61 Heating; 63
Electrical Data	Input	W	Cooling; 965 (185 - 1,140) Heating; 1,320 (175 - 1,770)	
	Running Current	A	Cooling; 4.60 / 4.40 / 4.25 Heating; 6.25 / 6.00 / 5.80	
	EER	W/W(kcal/hw), BTU/hw	Cooling; 3.63 (3.12), 12.3	
	COP	W/W(kcal/hw), BTU/hw	Heating; 3.64 (3.13), 12.4	
	Starting Current	A	6.25	
Piping Connection Port (Flare piping)		inch	G; Half Union 3/8"	G; 3-way valve 3/8"
		inch	L; Half Union 1/4"	L; 2-way valve 1/4"
Piping Size (Flare piping)		inch	G; (gas side); 3/8"	G; (gas side); 3/8"
		inch	L; (liquid side); 1/4"	L; (liquid side); 1/4"
Drain Hose	Inner diameter	mm	15	—
	Length	mm	220	—
Power Cord Length			—	—
Number of core-wire			—	—
Dimensions	Height	(inch) mm	23-5/8 (600)	21-1/4 (540)
	Width	(inch) mm	27-9/16 (700)	30-23/32 (780)
	Depth	(inch) mm	8-9/32 (210)	11-3/8 (289)
Net Weight		lb (kg)	31 (14)	82 (37)
Compressor	Type		—	Hermetic motor (rotary)
	Motor Type		—	Brushless (6-poles)
	Rated Output	W	—	700

ITEM		UNIT	CS-E12GFEW	CU-E12GFE
Air Circulation	Type		Turbo Fan	Propeller Fan
	Material		ASG	PP
	Motor Type		Transistor (8-poles)	Induction (6-poles)
	Input	W	—	71.3 / 75.1 / 80.7
	Rated Output	W	48	29
	Fan Speed Lo (Cool / Heat)		640 / 650	—
	Me (Cool / Heat)		530 / 530	—
	Hi (Cool / Heat)		430 / 410	830
Heat Exchanger	Description		Evaporator	Condenser
	Tube Material		Copper	Copper
	Fin Material		Aluminium (Pre coat)	Aluminium (Pre coat)
	Fin Type		Slit Fin	Corrugated Fin
	Row / Stage		(Plate fin configuration, forced draft)	
			2 / 22	2 / 24
	FPI		19	17
	Size (W x H x L)	mm	510 x 396 x 24	689.8 x 504 x 36.4 718.4 x 504 x 36.4
Refrigeration Control Device			—	Capillary Tube
Refrigeration Oil		(c.c)	—	RB68A (320)
Refrigerant (R410A)		g (oz)	—	980 (34.6)
Thermostat			Electronic Control	Electronic Control
Protection Device			Electronic Control	Electronic Control
Air Filter	Material		PET	—
	Style		Honeycomb	

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

2.1.3. CS-E18GFEW CU-E18GFE

ITEM		UNIT	CS-E18GFEW	CU-E18GFE
Cooling Capacity		kW	5.00 (0.90 ~ 5.60)	
		kCal/h	4,300 (780 ~ 4,820)	
		BTU/h	17,100 (3,100 ~ 19,100)	
Heating Capacity		kW	5.80 (0.90 ~ 7.10)	
		kCal/h	4,990 (780 ~ 6,100)	
		BTU/h	19,800 (3,100 ~ 24,200)	
Moisture Removal		l/h	2.8	
		pt/h	(5.9)	
Power Source		Phase	Single	
		V	220 / 230 / 240	
		Cycle	50	
Airflow Method				
Air Volume	Indoor Air (Lo)	m ³ /min (cfm)	Cooling; 8.3 (293) Heating; 8.5 (300)	—
	Indoor Air (Me)	m ³ /min (cfm)	Cooling; 9.9 (350) Heating; 10.8 (381)	—
	Indoor Air (Hi)	m ³ /min (cfm)	Cooling; 11.0 (388) Heating; 13.0 (459)	Cooling; 40.0 (1,410) Heating; 40.0 (1,410)
Noise Level		dB (A)	Cooling; High 44, Low 36 Heating; High 44, Low 36	Cooling; 47 Heating; 48
		Power Level dB	Cooling; High 60 Heating; High 62	Cooling; 60 Heating; 61
Electrical Data	Input	W	Cooling; 1,550 (255 - 1,910) Heating; 1,600 (260 - 2,350)	
	Running Current	A	Cooling; 7.20 / 7.00 / 6.90 Heating; 7.35 / 7.10 / 6.95	
	EER	W/W(kcal/hw), BTU/hw	Cooling; 3.23 (2.78), 11.0	
	COP	W/W(kcal/hw), BTU/hw	Heating; 3.63 (3.12), 12.4	
	Starting Current	A	7.35	
Piping Connection Port (Flare piping)		inch	G; Half Union 1/2"	G; 3-way valve 1/2"
		inch	L; Half Union 1/4"	L; 2-way valve 1/4"
Piping Size (Flare piping)		inch	G; (gas side); 1/2"	G; (gas side); 1/2"
		inch	L; (liquid side); 1/4"	L; (liquid side); 1/4"
Drain Hose	Inner diameter	mm	15	—
	Length	mm	220	—
Power Cord Length			—	—
Number of core-wire			—	—
Dimensions	Height	(inch) mm	23-5/8 (600)	29-17/32 (750)
	Width	(inch) mm	27-9/16 (700)	34-7/16 (875)
	Depth	(inch) mm	8-9/32 (210)	13-19/32 (345)
Net Weight		lb (kg)	31 (14)	82 (37)
Compressor	Type		—	Hermetic motor (scroll)
	Motor Type		—	Brushless (4-poles)
	Rated Output	W	—	900

ITEM		UNIT	CS-E18GFEW	CU-E18GFE
Air Circulation	Type		Turbo Fan	Propeller Fan
	Material		ASG	PP
	Motor Type		Transistor (8-poles)	Transistor (8-poles)
	Input	W	—	62.1
	Rated Output	W	48	29
	Fan Speed Lo (Cool / Heat)		760 / 860	—
	Me (Cool / Heat)		660 / 720	—
	Hi (Cool / Heat)		570 / 580	660 / 640
Heat Exchanger	Description		Evaporator	Condenser
	Tube Material		Copper	Copper
	Fin Material		Aluminium (Pre coat)	Aluminium (Pre coat)
	Fin Type		Slit Fin	Corrugated Fin
	Row / Stage		(Plate fin configuration, forced draft)	
			2 / 22	2 / 34
	FPI		19	16
	Size (W x H x L)	mm	4.80 (0.80 - 6.10)	36.4 x 714 x 839.5 36.4 x 714 x 868.0
Refrigeration Control Device			—	Capillary Tube
Refrigeration Oil		(c.c)	—	RB68A (400)
Refrigerant (R410A)		g (oz)	—	980 (34.6)
Thermostat			Electronic Control	Electronic Control
Protection Device			Electronic Control	Electronic Control
Air Filter	Material		PET	—
	Style		Honeycomb	

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

2.2. Outdoor Unit: CU-2E15GBE

Outdoor Unit	Indoor unit combination		Operation mode	Capacity (kW)		Power input (kW)		Current (A)
	Operation	Class (kW)		Rating	mini - max	Rating	mini - max	
CU-2E15GBE	One-room Operation	2.2	Cooling	2.20	1.1 - 2.9	0.52	0.22 - 0.75	2.45
			Heating	3.20	0.7 - 4.8	0.85	0.17 - 1.41	3.75
		2.8	Cooling	2.80	1.1 - 3.5	0.75	0.22 - 1.00	3.50
			Heating	4.00	0.7 - 5.5	1.15	0.17 - 1.70	5.10
		3.2	Cooling	3.20	1.1 - 4.0	0.92	0.22 - 1.22	4.30
			Heating	4.50	0.7 - 6.2	1.25	0.17 - 1.81	5.55
	Two-room Operation	2.2 + 2.2	Cooling	4.50	1.5 - 5.0	1.23	0.25 - 1.35	5.75
			Heating	5.40	1.1 - 7.0	1.17	0.21 - 1.67	5.20
		2.2 + 2.8	Cooling	4.50	1.5 - 5.2	1.25	0.25 - 1.53	5.80
			Heating	5.40	1.1 - 7.0	1.23	0.21 - 1.72	5.45
		2.2 + 3.2	Cooling	4.50	1.5 - 5.2	1.25	0.25 - 1.53	5.80
			Heating	5.40	1.1 - 7.0	1.23	0.21 - 1.72	5.45

2.3. Outdoor Unit: 3E18EBE

Outdoor Unit	Indoor unit combination		Operation mode	Capacity (kW)		Power input (kW)		Current (A)
	Operation	Class (kW)		Rating	mini - max	Rating	mini - max	
CU-3E18EBE	One-room Operation	2.2	Cooling	2.20	1.8 - 2.9	0.50	0.34 - 0.81	2.5
			Heating	3.20	1.2 - 4.1	0.74	0.30 - 1.23	3.7
		2.8	Cooling	2.80	1.8 - 2.9	0.70	0.34 - 0.81	3.3
			Heating	4.00	1.2 - 4.3	1.05	0.30 - 1.23	5.0
		3.2	Cooling	3.20	1.8 - 3.8	0.80	0.34 - 1.36	3.7
			Heating	4.50	1.2 - 5.8	1.23	0.30 - 2.10	5.8
		4.0	Cooling	4.00	1.8 - 4.3	1.24	0.34 - 1.99	5.6
			Heating	5.60	1.2 - 6.8	1.72	0.30 - 2.93	7.7
		5.0	Cooling	5.00	1.9 - 5.7	1.55	0.34 - 2.13	6.8
			Heating	6.80	1.2 - 6.9	2.10	0.30 - 2.52	9.2
	Two-room Operation	2.2 + 2.2	Cooling	4.40	1.9 - 6.2	1.11	0.35 - 2.10	4.9
			Heating	5.80	1.4 - 7.0	1.45	0.31 - 2.55	6.4
		2.2 + 2.8	Cooling	5.00	1.9 - 6.2	1.41	0.35 - 2.10	6.2
			Heating	6.40	1.4 - 7.0	1.72	0.31 - 2.55	7.6
		2.2 + 3.2	Cooling	5.20	1.9 - 6.3	1.49	0.35 - 2.11	6.6
			Heating	6.80	1.4 - 7.3	1.84	0.31 - 2.52	8.2
		2.2 + 4.0	Cooling	5.20	1.9 - 6.4	1.45	0.35 - 2.11	6.4
			Heating	6.80	1.4 - 7.3	1.80	0.31 - 2.51	7.9
		2.2 + 5.0	Cooling	5.20	1.9 - 6.8	1.29	0.36 - 2.15	5.7
			Heating	6.80	1.4 - 8.0	1.52	0.31 - 2.20	6.7
		2.8 + 2.8	Cooling	5.20	1.9 - 6.2	1.54	0.35 - 2.10	6.8
			Heating	6.80	1.4 - 7.0	1.93	0.31 - 2.55	8.5
		2.8 + 3.2	Cooling	5.20	1.9 - 6.3	1.48	0.35 - 2.11	6.5
			Heating	6.80	1.4 - 7.3	1.84	0.31 - 2.52	8.1
		2.8 + 4.0	Cooling	5.20	1.9 - 6.4	1.44	0.35 - 2.11	6.4
			Heating	6.80	1.4 - 7.3	1.80	0.31 - 2.51	8.0
		2.8 + 5.0	Cooling	5.20	1.9 - 6.8	1.29	0.36 - 2.15	5.7
			Heating	6.80	1.4 - 8.0	1.52	0.31 - 2.20	6.7
		3.2 + 3.2	Cooling	5.20	1.9 - 6.4	1.45	0.35 - 2.12	6.4
			Heating	6.80	1.4 - 7.5	1.75	0.31 - 2.49	7.7
		3.2 + 4.0	Cooling	5.20	1.9 - 6.5	1.41	0.35 - 2.12	6.3
			Heating	6.80	1.4 - 7.5	1.75	0.31 - 2.47	7.8
		3.2 + 5.0	Cooling	5.20	1.9 - 6.9	1.25	0.36 - 2.15	5.5
			Heating	6.80	1.4 - 8.0	1.50	0.31 - 2.18	6.6
		4.0 + 4.0	Cooling	5.20	1.9 - 6.5	1.41	0.35 - 2.12	6.2
			Heating	6.80	1.4 - 7.6	1.71	0.31 - 2.47	7.5
		4.0 + 5.0	Cooling	5.20	1.9 - 6.9	1.25	0.36 - 2.16	5.5
			Heating	6.80	1.4 - 8.0	1.50	0.31 - 2.17	6.6
	Three-room Operation	2.2 + 2.2 + 2.2	Cooling	5.20	1.9 - 7.2	1.24	0.36 - 2.17	5.4
			Heating	6.78	1.5 - 8.1	1.53	0.32 - 2.12	6.7
		2.2 + 2.2 + 2.8	Cooling	5.20	1.9 - 7.2	1.24	0.36 - 2.17	5.4
			Heating	6.80	1.5 - 8.1	1.53	0.32 - 2.12	6.7
		2.2 + 2.2 + 3.2	Cooling	5.20	1.9 - 7.2	1.23	0.36 - 2.18	5.4
			Heating	6.80	1.4 - 8.3	1.49	0.32 - 2.11	6.5
		2.2 + 2.2 + 4.0	Cooling	5.20	1.8 - 7.3	1.23	0.36 - 2.18	5.4
			Heating	6.80	1.6 - 8.3	1.46	0.32 - 2.11	6.4
		2.2 + 2.8 + 2.8	Cooling	5.20	1.9 - 7.2	1.24	0.36 - 2.17	5.4
			Heating	6.80	1.5 - 8.1	1.53	0.32 - 2.12	6.7
		2.2 + 2.8 + 3.2	Cooling	5.20	1.9 - 7.2	1.23	0.36 - 2.18	5.4
			Heating	6.80	1.4 - 8.3	1.49	0.32 - 2.11	6.5
		2.2 + 2.8 + 4.0	Cooling	5.20	1.8 - 7.3	1.22	0.36 - 2.18	5.4
			Heating	6.80	1.6 - 8.3	1.42	0.32 - 2.11	6.5
		2.2 + 3.2 + 3.2	Cooling	5.20	1.8 - 7.3	1.22	0.36 - 2.18	5.4
			Heating	6.80	1.6 - 8.3	1.43	0.32 - 2.10	6.3
		2.8 + 2.8 + 2.8	Cooling	5.19	1.9 - 7.2	1.24	0.36 - 2.17	5.4
			Heating	6.80	1.5 - 8.1	1.53	0.32 - 2.12	6.7
		2.8 + 2.8 + 3.2	Cooling	5.20	1.9 - 7.2	1.23	0.36 - 2.18	5.4
			Heating	6.80	1.4 - 8.3	1.49	0.32 - 2.11	6.5

2.4. Outdoor Unit: CU-3E23CBPG CU-4E27CBPG

Outdoor Unit	Indoor unit combination		Operation mode	Capacity (kW)		Power input (kW)		Current (A)
	Operation	Class (kW)		Rating	mini - max	Rating	mini - max	
CU-3E23CBPG	One-room Operation	2.2	Cooling	2.20	1.9 - 2.7	0.45	0.38 - 0.62	2.25
			Heating	3.20	1.7 - 4.1	0.84	0.37 - 1.31	3.85
		2.8	Cooling	2.80	2.0 - 3.4	0.62	0.38 - 0.90	2.95
			Heating	4.00	1.7 - 4.3	1.21	0.37 - 1.40	5.40
		3.2	Cooling	3.20	2.0 - 3.9	0.72	0.38 - 1.09	3.40
			Heating	4.50	1.7 - 5.7	1.31	0.37 - 1.91	5.85
		4.0	Cooling	4.00	2.0 - 4.4	1.03	0.38 - 1.39	4.60
			Heating	5.60	1.8 - 7.2	1.90	0.37 - 2.92	8.35
		5.0	Cooling	5.00	2.1 - 5.2	1.61	0.40 - 1.80	7.15
			Heating	7.10	2.1 - 7.3	2.84	0.43 - 2.89	12.40
	Two-room Operation	2.2 + 2.2	Cooling	4.40	2.1 - 5.0	0.98	0.40 - 1.26	4.45
			Heating	6.30	1.8 - 8.6	1.41	0.40 - 2.57	6.25
		2.2 + 2.8	Cooling	5.00	2.1 - 6.1	1.23	0.40 - 1.88	5.50
			Heating	7.10	2.1 - 8.6	1.70	0.42 - 2.57	7.55
		2.2 + 3.2	Cooling	5.40	2.2 - 7.0	1.37	0.40 - 2.79	6.10
			Heating	7.50	2.2 - 8.7	1.74	0.42 - 2.97	7.75
		2.2 + 4.0	Cooling	6.20	2.2 - 7.1	1.82	0.40 - 2.79	8.00
			Heating	8.20	2.4 - 8.7	2.01	0.44 - 2.97	8.85
		2.2 + 5.0	Cooling	6.80	2.5 - 7.1	2.24	0.46 - 2.80	9.85
			Heating	8.60	3.2 - 9.0	2.16	0.53 - 2.96	9.50
		2.8 + 2.8	Cooling	5.60	2.2 - 6.9	1.55	0.40 - 2.78	6.85
			Heating	7.70	2.3 - 8.7	1.93	0.44 - 3.04	8.45
		2.8 + 3.2	Cooling	6.00	2.2 - 7.0	1.70	0.40 - 2.79	7.55
			Heating	8.00	2.4 - 8.8	1.97	0.44 - 3.02	8.60
		2.8 + 4.0	Cooling	6.80	2.2 - 7.1	2.39	0.46 - 2.79	10.50
			Heating	8.60	2.1 - 9.0	2.175	0.53 - 3.03	9.55
		2.8 + 5.0	Cooling	6.80	2.5 - 7.2	2.23	0.46 - 2.80	9.85
			Heating	8.60	3.2 - 9.0	2.15	0.53 - 3.01	9.50
		3.2 + 3.2	Cooling	6.40	2.2 - 7.3	1.86	0.40 - 2.81	8.15
			Heating	8.40	2.5 - 9.0	2.05	0.47 - 2.97	9.05
		3.2 + 4.0	Cooling	6.80	2.5 - 7.3	2.22	0.46 - 2.81	9.65
			Heating	8.60	3.2 - 9.0	2.09	0.53 - 2.97	9.20
		3.2 + 5.0	Cooling	6.80	2.6 - 7.4	2.12	0.46 - 2.82	9.30
			Heating	8.60	3.2 - 9.0	2.08	0.53 - 2.95	9.15
		4.0 + 4.0	Cooling	6.80	2.5 - 7.3	2.19	0.46 - 2.81	9.65
			Heating	8.60	3.2 - 9.0	2.08	0.53 - 2.97	9.15
		4.0 + 5.0	Cooling	6.80	2.7 - 7.4	2.11	0.48 - 2.82	9.30
			Heating	8.60	3.2 - 9.1	2.07	0.53 - 2.95	9.15
		5.0 + 5.0	Cooling	6.80	2.8 - 7.4	2.07	0.48 - 2.82	9.15
			Heating	8.60	3.5 - 9.1	2.07	0.59 - 2.94	9.15
	Three-room Operation	2.2 + 2.2 + 2.2	Cooling	6.60	2.2 - 7.7	1.85	0.41 - 2.45	8.10
			Heating	8.53	3.1 - 8.9	1.94	0.50 - 2.80	8.50
		2.2 + 2.2 + 2.8	Cooling	6.80	2.5 - 8.1	1.98	0.46 - 2.82	8.70
			Heating	8.60	3.2 - 8.9	1.98	0.51 - 2.80	8.70
		2.2 + 2.2 + 3.2	Cooling	6.80	2.5 - 8.1	1.99	0.46 - 2.79	8.80
			Heating	8.60	3.2 - 9.0	1.96	0.51 - 2.78	8.60
		2.2 + 2.2 + 4.0	Cooling	6.80	2.6 - 8.2	1.97	0.46 - 2.79	8.60
			Heating	8.60	3.2 - 8.8	1.94	0.51 - 2.76	8.50
		2.2 + 2.2 + 5.0	Cooling	6.80	2.8 - 8.3	1.96	0.49 - 2.79	8.60
			Heating	8.60	3.2 - 8.8	1.92	0.51 - 2.76	8.45
		2.2 + 2.8 + 2.8	Cooling	6.80	2.5 - 8.1	1.95	0.46 - 2.78	8.50
			Heating	8.60	3.2 - 9.0	1.93	0.51 - 2.73	8.45
		2.2 + 2.8 + 3.2	Cooling	6.80	2.6 - 8.1	1.98	0.46 - 2.79	8.70
			Heating	8.60	3.2 - 8.8	1.93	0.51 - 2.76	8.45
		2.2 + 2.8 + 4.0	Cooling	6.80	2.7 - 8.2	1.96	0.49 - 2.79	8.60
			Heating	8.60	3.2 - 9.0	1.91	0.51 - 2.76	8.35
		2.2 + 2.8 + 5.0	Cooling	6.80	2.8 - 8.3	1.95	0.49 - 2.79	8.50
			Heating	8.60	3.5 - 9.0	1.92	0.56 - 2.73	8.45
		2.2 + 3.2 + 3.2	Cooling	6.80	2.7 - 8.3	1.97	0.46 - 2.80	8.60
			Heating	8.60	3.2 - 9.1	1.91	0.50 - 2.71	8.35
		2.2 + 3.2 + 4.0	Cooling	6.80	2.8 - 8.3	1.95	0.49 - 2.80	8.50
			Heating	8.60	3.2 - 9.0	1.89	0.50 - 2.71	8.25
		2.8 + 2.8 + 2.8	Cooling	6.78	2.6 - 8.1	1.94	0.46 - 2.82	8.50
			Heating	8.58	3.2 - 9.0	1.91	0.51 - 2.76	8.35

Outdoor Unit	Indoor unit combination		Operation mode	Capacity (kW)		Power input (kW)		Current (A)
	Operation	Class (kW)		Rating	mini - max	Rating	mini - max	
CU-3E23CBPG	Three-room Operation	2.8 + 2.8 + 3.2	Cooling	6.80	2.7 - 8.2	1.96	0.49 - 2.79	8.60
			Heating	8.60	3.2 - 9.0	1.92	0.51 - 2.76	8.45
		2.8 + 2.8 + 4.0	Cooling	6.80	2.8 - 8.2	1.95	0.49 - 2.79	8.50
			Heating	8.60	3.3 - 9.0	1.90	0.53 - 2.76	8.35
		2.8 + 3.2 + 3.2	Cooling	6.80	2.7 - 8.3	1.96	0.49 - 2.80	8.60
			Heating	8.60	3.2 - 9.0	1.90	0.50 - 2.71	8.35
		2.8 + 3.2 + 4.0	Cooling	6.80	2.8 - 8.4	1.95	0.49 - 2.80	8.50
			Heating	8.60	3.5 - 9.1	1.88	0.56 - 2.71	8.30
		3.2 + 3.2 + 3.2	Cooling	6.78	2.8 - 8.5	1.96	0.49 - 2.80	8.60
			Heating	8.58	3.3 - 9.1	1.85	0.52 - 2.67	8.10
CU-4E27CBPG	One-room Operation	2.2	Cooling	2.20	1.9 - 2.7	0.45	0.38 - 0.62	2.25
			Heating	3.20	1.7 - 4.7	0.84	0.37 - 1.83	3.85
		2.8	Cooling	2.80	2.0 - 3.4	0.62	0.38 - 0.90	2.95
			Heating	4.00	1.7 - 4.8	1.21	0.37 - 1.90	5.40
		3.2	Cooling	3.20	2.0 - 3.9	0.72	0.38 - 1.09	3.40
			Heating	4.50	1.7 - 5.8	1.31	0.37 - 2.29	5.85
		4.0	Cooling	4.00	2.0 - 4.4	1.03	0.38 - 1.39	4.60
			Heating	5.60	1.8 - 7.2	1.90	0.37 - 3.56	8.35
		5.0	Cooling	5.00	2.1 - 5.2	1.61	0.40 - 1.80	7.15
			Heating	7.10	2.1 - 7.3	2.84	0.43 - 3.56	12.40
	Two-room Operation	2.2 + 2.2	Cooling	4.40	2.1 - 5.0	0.98	0.40 - 1.26	4.45
			Heating	6.40	1.8 - 9.4	1.48	0.40 - 3.55	6.50
		2.2 + 2.8	Cooling	5.00	2.1 - 6.1	1.23	0.40 - 1.88	5.50
			Heating	7.10	2.1 - 9.4	1.70	0.42 - 3.51	7.55
		2.2 + 3.2	Cooling	5.40	2.2 - 7.0	1.37	0.40 - 2.79	6.10
			Heating	7.50	2.2 - 9.8	1.74	0.42 - 3.49	7.65
		2.2 + 4.0	Cooling	6.20	2.2 - 7.1	1.82	0.40 - 2.79	8.00
			Heating	8.30	2.4 - 9.8	2.06	0.44 - 3.44	9.05
		2.2 + 5.0	Cooling	7.00	2.5 - 7.2	2.50	0.46 - 2.80	11.00
			Heating	8.80	3.2 - 9.9	2.26	0.53 - 3.40	9.90
		2.8 + 2.8	Cooling	5.60	2.2 - 6.9	1.55	0.40 - 2.78	6.85
			Heating	7.70	2.3 - 9.4	2.02	0.44 - 3.48	8.85
		2.8 + 3.2	Cooling	6.00	2.2 - 7.0	1.70	0.40 - 2.79	7.55
			Heating	8.10	2.4 - 9.8	1.98	0.44 - 3.46	8.70
		2.8 + 4.0	Cooling	6.80	2.2 - 7.1	2.28	0.40 - 2.79	10.00
			Heating	8.60	2.1 - 9.8	2.175	0.53 - 3.39	9.65
		2.8 + 5.0	Cooling	7.10	2.5 - 7.2	2.61	0.46 - 2.80	11.50
			Heating	9.00	3.2 - 9.9	2.39	0.53 - 3.37	10.50
		3.2 + 3.2	Cooling	6.40	2.2 - 7.3	1.86	0.40 - 2.81	8.15
			Heating	8.50	2.5 - 10.1	2.11	0.47 - 3.39	9.30
		3.2 + 4.0	Cooling	7.00	2.5 - 7.3	2.41	0.46 - 2.81	10.60
			Heating	8.80	3.2 - 10.1	2.23	0.53 - 3.34	9.85
		3.2 + 5.0	Cooling	7.40	2.6 - 7.4	2.82	0.46 - 2.88	12.30
			Heating	9.20	3.2 - 10.1	2.39	0.53 - 3.30	10.50
		4.0 + 4.0	Cooling	7.20	2.5 - 7.3	2.62	0.46 - 2.81	11.50
			Heating	9.10	3.2 - 10.1	2.36	0.53 - 3.32	10.30
		4.0 + 5.0	Cooling	7.30	2.7 - 7.4	2.67	0.48 - 2.82	11.70
			Heating	9.40	3.2 - 10.2	2.48	0.53 - 3.30	10.90
		5.0 + 5.0	Cooling	7.50	2.8 - 7.6	2.86	0.48 - 2.87	12.50
			Heating	9.40	3.5 - 10.2	2.47	0.59 - 3.29	10.90
	Three-room Operation	2.2 + 2.2 + 2.2	Cooling	6.60	2.2 - 7.8	1.66	0.41 - 2.49	7.40
			Heating	8.61	3.1 - 10.4	1.99	0.50 - 3.25	8.80
		2.2 + 2.2 + 2.8	Cooling	7.00	2.5 - 8.1	1.89	0.46 - 2.85	8.25
			Heating	8.80	3.2 - 10.4	2.01	0.51 - 3.22	8.85
		2.2 + 2.2 + 3.2	Cooling	7.30	2.5 - 8.2	1.98	0.46 - 2.79	8.70
			Heating	8.90	3.2 - 10.4	2.03	0.51 - 3.22	8.95
		2.2 + 2.2 + 4.0	Cooling	7.80	2.6 - 8.2	2.33	0.46 - 2.83	10.30
			Heating	9.20	3.2 - 10.4	2.15	0.51 - 3.18	9.50
		2.2 + 2.2 + 5.0	Cooling	8.00	2.8 - 8.3	2.46	0.49 - 2.82	10.80
			Heating	9.40	3.2 - 10.4	2.12	0.51 - 3.18	9.30
		2.2 + 2.8 + 2.8	Cooling	7.40	2.5 - 8.1	2.14	0.46 - 2.79	9.40
			Heating	9.00	3.2 - 10.4	2.09	0.51 - 3.19	9.20
		2.2 + 2.8 + 3.2	Cooling	7.60	2.6 - 8.2	2.24	0.46 - 2.84	9.85
			Heating	9.20	3.2 - 10.4	2.11	0.51 - 3.18	9.30
		2.2 + 2.8 + 4.0	Cooling	8.00	2.7 - 8.2	2.51	0.49 - 2.80	11.00
			Heating	9.40	3.2 - 10.4	2.16	0.51 - 3.14	9.50

Outdoor Unit	Indoor unit combination		Operation mode	Capacity (kW)		Power input (kW)		Current (A)
	Operation	Class (kW)		Rating	mini - max	Rating	mini - max	
CU-4E27CBPG	Three-room Operation	2.2 + 2.8 + 5.0	Cooling	8.00	2.8 - 8.3	2.46	0.49 - 2.80	10.80
			Heating	9.40	3.5 - 10.4	2.08	0.56 - 3.15	9.15
		2.2 + 3.2 + 3.2	Cooling	7.90	2.7 - 8.3	2.29	0.46 - 2.81	10.10
			Heating	9.30	3.2 - 10.5	2.13	0.50 - 3.18	9.40
		2.2 + 3.2 + 4.0	Cooling	8.00	2.8 - 8.4	2.38	0.49 - 2.84	10.40
			Heating	9.40	3.2 - 10.5	2.15	0.50 - 3.14	9.50
		2.2 + 3.2 + 5.0	Cooling	8.00	2.8 - 8.3	2.47	0.49 - 2.84	10.90
			Heating	9.40	3.7 - 10.5	2.17	0.62 - 3.14	9.55
		2.2 + 4.0 + 4.0	Cooling	8.00	2.8 - 8.4	2.38	0.49 - 2.81	10.40
			Heating	9.40	3.6 - 10.5	2.11	0.62 - 3.11	9.30
		2.2 + 4.0 + 5.0	Cooling	8.00	2.8 - 8.3	2.47	0.49 - 2.81	10.90
			Heating	9.40	3.9 - 10.5	2.12	0.66 - 3.11	9.30
		2.2 + 5.0 + 5.0	Cooling	8.00	2.9 - 8.4	2.43	0.49 - 2.83	10.70
			Heating	9.40	4.1 - 10.5	2.17	0.70 - 3.12	9.55
		2.8 + 2.8 + 2.8	Cooling	7.80	2.6 - 8.1	2.45	0.46 - 2.82	10.80
			Heating	9.24	3.2 - 10.4	2.17	0.51 - 3.16	9.55
		2.8 + 2.8 + 3.2	Cooling	8.00	2.7 - 8.2	2.51	0.49 - 2.81	11.00
			Heating	9.40	3.2 - 10.4	2.19	0.51 - 3.15	9.65
		2.8 + 2.8 + 4.0	Cooling	8.00	2.8 - 8.2	2.51	0.49 - 2.79	11.00
			Heating	9.40	3.3 - 10.4	2.14	0.53 - 3.13	9.40
		2.8 + 2.8 + 5.0	Cooling	8.00	2.8 - 8.3	2.46	0.49 - 2.79	10.80
			Heating	9.40	3.8 - 10.4	2.10	0.64 - 3.12	9.20
		2.8 + 3.2 + 3.2	Cooling	8.00	2.7 - 8.4	2.38	0.49 - 2.85	10.40
			Heating	9.40	3.2 - 10.5	2.17	0.50 - 3.15	9.55
		2.8 + 3.2 + 4.0	Cooling	8.00	2.8 - 8.4	2.38	0.49 - 2.82	10.40
			Heating	9.40	3.5 - 10.5	2.13	0.56 - 3.12	9.40
		2.8 + 3.2 + 5.0	Cooling	8.00	2.8 - 8.4	2.34	0.49 - 2.83	10.30
			Heating	9.40	3.9 - 10.5	2.15	0.66 - 3.12	9.50
		2.8 + 4.0 + 4.0	Cooling	8.00	2.8 - 8.4	2.38	0.49 - 2.80	10.40
			Heating	9.40	3.8 - 10.5	2.06	0.64 - 3.08	9.05
		2.8 + 4.0 + 5.0	Cooling	8.00	2.8 - 8.4	2.34	0.49 - 2.80	10.30
			Heating	9.40	4.0 - 10.5	2.10	0.68 - 3.08	9.20
		2.8 + 5.0 + 5.0	Cooling	8.00	2.9 - 8.5	2.34	0.52 - 2.80	10.30
			Heating	9.40	4.2 - 10.5	2.14	0.70 - 3.08	9.40
		3.2 + 3.2 + 3.2	Cooling	7.98	2.8 - 8.5	2.30	0.49 - 2.83	10.10
			Heating	9.39	3.3 - 10.5	2.16	0.52 - 3.18	9.50
		3.2 + 3.2 + 4.0	Cooling	8.00	2.8 - 8.4	2.39	0.49 - 2.80	10.50
			Heating	9.40	3.7 - 10.5	2.14	0.62 - 3.15	9.40
		3.2 + 3.2 + 5.0	Cooling	8.00	2.8 - 8.4	2.39	0.49 - 2.83	10.50
			Heating	9.40	4.0 - 10.5	2.13	0.68 - 3.12	9.40
		3.2 + 4.0 + 4.0	Cooling	8.00	2.8 - 8.4	2.39	0.49 - 2.82	10.50
			Heating	9.40	3.9 - 10.5	2.12	0.66 - 3.12	9.30
		3.2 + 4.0 + 5.0	Cooling	8.00	2.9 - 8.4	2.35	0.49 - 2.82	10.30
			Heating	9.40	4.1 - 10.5	2.10	0.70 - 3.10	9.20
		3.2 + 5.0 + 5.0	Cooling	8.00	2.9 - 8.5	2.35	0.52 - 2.81	10.30
			Heating	9.40	4.2 - 10.5	2.06	0.70 - 3.08	9.05
		4.0 + 4.0 + 4.0	Cooling	7.98	2.9 - 8.4	2.39	0.49 - 2.84	10.50
			Heating	9.39	4.0 - 10.5	2.10	0.68 - 3.08	9.20
		4.0 + 4.0 + 5.0	Cooling	8.00	2.9 - 8.4	2.39	0.52 - 2.81	10.50
			Heating	9.40	4.2 - 10.5	2.08	0.70 - 3.08	9.15
	Four-room Operation	2.2 + 2.2 + 2.2 + 2.2	Cooling	8.00	2.7 - 8.8	2.15	0.49 - 2.84	9.50
			Heating	9.40	3.2 - 10.5	2.08	0.55 - 3.14	9.15
		2.2 + 2.2 + 2.2 + 2.8	Cooling	8.00	2.8 - 8.8	2.14	0.49 - 2.88	9.40
			Heating	9.40	3.2 - 10.5	2.06	0.55 - 3.12	9.05
		2.2 + 2.2 + 2.2 + 3.2	Cooling	8.00	2.8 - 8.9	2.13	0.49 - 2.88	9.40
			Heating	9.40	3.4 - 10.5	2.12	0.59 - 3.18	9.30
		2.2 + 2.2 + 2.2 + 4.0	Cooling	8.00	2.8 - 8.9	2.11	0.49 - 2.87	9.30
			Heating	9.40	3.8 - 10.5	2.09	0.64 - 3.14	9.20
		2.2 + 2.2 + 2.2 + 5.0	Cooling	8.00	2.8 - 8.9	2.11	0.49 - 2.84	9.30
			Heating	9.40	4.0 - 10.5	2.12	0.68 - 3.11	9.30
		2.2 + 2.2 + 2.8 + 2.8	Cooling	8.00	2.8 - 8.8	2.13	0.49 - 2.87	9.40
			Heating	9.40	3.5 - 10.5	2.05	0.61 - 3.11	9.05
		2.2 + 2.2 + 2.8 + 3.2	Cooling	8.00	2.8 - 8.9	2.12	0.49 - 2.87	9.30
			Heating	9.40	3.7 - 10.5	2.10	0.62 - 3.16	9.20
		2.2 + 2.2 + 2.8 + 4.0	Cooling	8.00	2.8 - 8.9	2.09	0.49 - 2.84	9.20
			Heating	9.40	3.9 - 10.5	2.07	0.66 - 3.11	9.10

Outdoor Unit	Indoor unit combination		Operation mode	Capacity (kW)		Power input (kW)		Current (A)
	Operation	Class (kW)		Rating	mini - max	Rating	mini - max	
CU-4E27CBPG	Four-room Operation	2.2 + 2.2 + 2.8 + 5.0	Cooling	8.00	2.9 - 8.9	2.11	0.52 - 2.88	9.30
			Heating	9.40	4.1 - 10.5	2.09	0.70 - 3.10	9.20
		2.2 + 2.2 + 3.2 + 3.2	Cooling	8.00	2.8 - 8.9	2.09	0.50 - 2.87	9.20
			Heating	9.40	3.8 - 10.5	2.11	0.64 - 3.19	9.30
		2.2 + 2.2 + 3.2 + 4.0	Cooling	8.00	2.8 - 8.9	2.08	0.50 - 2.84	9.15
			Heating	9.40	4.0 - 10.5	2.08	0.68 - 3.15	9.15
		2.2 + 2.2 + 3.2 + 5.0	Cooling	8.00	2.9 - 9.0	2.04	0.52 - 2.86	8.95
			Heating	9.40	4.1 - 10.5	2.11	0.70 - 3.08	9.30
		2.2 + 2.2 + 4.0 + 4.0	Cooling	8.00	2.9 - 9.0	2.06	0.52 - 2.85	9.05
			Heating	9.40	4.1 - 10.5	2.05	0.70 - 3.11	9.05
		2.2 + 2.2 + 4.0 + 5.0	Cooling	8.00	2.9 - 9.0	2.02	0.52 - 2.88	8.85
			Heating	9.40	4.2 - 10.5	2.08	0.70 - 3.06	9.15
		2.2 + 2.8 + 2.8 + 2.8	Cooling	8.00	2.8 - 8.8	2.12	0.49 - 2.85	9.30
			Heating	9.40	3.8 - 10.5	2.04	0.64 - 3.08	8.95
		2.2 + 2.8 + 2.8 + 3.2	Cooling	8.00	2.8 - 8.9	2.10	0.49 - 2.85	9.20
			Heating	9.40	3.9 - 10.5	2.08	0.66 - 3.13	9.15
		2.2 + 2.8 + 2.8 + 4.0	Cooling	8.00	2.8 - 8.9	2.13	0.49 - 2.86	9.40
			Heating	9.40	4.0 - 10.5	2.05	0.68 - 3.08	9.05
		2.2 + 2.8 + 2.8 + 5.0	Cooling	8.00	2.9 - 8.9	2.11	0.52 - 2.86	9.30
			Heating	9.40	4.2 - 10.5	2.08	0.70 - 3.08	9.15
		2.2 + 2.8 + 3.2 + 3.2	Cooling	8.00	2.8 - 8.9	2.13	0.50 - 2.85	9.40
			Heating	9.40	4.0 - 10.5	2.09	0.68 - 3.18	9.20
		2.2 + 2.8 + 3.2 + 4.0	Cooling	8.00	2.9 - 9.0	2.07	0.52 - 2.86	9.15
			Heating	9.40	4.1 - 10.5	2.06	0.70 - 3.12	9.05
		2.2 + 2.8 + 3.2 + 5.0	Cooling	8.00	2.9 - 9.0	2.03	0.52 - 2.84	8.95
			Heating	9.40	4.2 - 10.5	2.09	0.70 - 3.08	9.20
		2.2 + 2.8 + 4.0 + 4.0	Cooling	8.00	2.9 - 9.0	2.04	0.52 - 2.87	8.95
			Heating	9.40	4.2 - 10.5	2.03	0.70 - 3.08	8.95
		2.2 + 3.2 + 3.2 + 3.2	Cooling	8.00	2.8 - 9.1	2.04	0.50 - 2.87	8.95
			Heating	9.40	4.0 - 10.6	2.11	0.68 - 3.12	9.30
		2.2 + 3.2 + 3.2 + 4.0	Cooling	8.00	2.9 - 9.1	2.02	0.52 - 2.84	8.85
			Heating	9.40	4.1 - 10.6	2.08	0.70 - 3.08	9.15
		2.2 + 3.2 + 3.2 + 5.0	Cooling	8.00	3.0 - 9.2	2.00	0.53 - 2.87	8.80
			Heating	9.40	4.2 - 10.6	2.11	0.70 - 3.06	9.30
		2.2 + 3.2 + 4.0 + 4.0	Cooling	8.00	2.9 - 9.1	2.09	0.52 - 2.86	9.20
			Heating	9.40	4.2 - 10.6	2.06	0.70 - 3.06	9.05
		2.8 + 2.8 + 2.8 + 2.8	Cooling	8.00	2.8 - 8.8	2.11	0.49 - 2.84	9.30
			Heating	9.40	3.9 - 10.5	2.03	0.66 - 3.08	8.95
		2.8 + 2.8 + 2.8 + 3.2	Cooling	8.00	2.8 - 8.9	2.09	0.49 - 2.87	9.20
			Heating	9.40	4.0 - 10.5	2.06	0.68 - 3.10	9.05
		2.8 + 2.8 + 2.8 + 4.0	Cooling	8.00	2.9 - 8.9	2.12	0.52 - 2.85	9.30
			Heating	9.40	4.1 - 10.5	2.04	0.70 - 3.07	8.95
		2.8 + 2.8 + 2.8 + 5.0	Cooling	8.00	2.9 - 8.9	2.11	0.52 - 2.85	9.30
			Heating	9.40	4.2 - 10.5	2.07	0.70 - 3.07	9.15
		2.8 + 2.8 + 3.2 + 3.2	Cooling	8.00	2.9 - 9.0	2.08	0.50 - 2.87	9.15
			Heating	9.40	4.0 - 10.5	2.07	0.68 - 3.14	9.15
		2.8 + 2.8 + 3.2 + 4.0	Cooling	8.00	2.9 - 9.0	2.05	0.52 - 2.88	9.05
			Heating	9.40	4.2 - 10.5	2.04	0.70 - 3.08	8.95
		2.8 + 2.8 + 4.0 + 4.0	Cooling	8.00	3.0 - 9.0	2.04	0.52 - 2.86	8.95
			Heating	9.40	4.2 - 10.5	2.02	0.70 - 3.07	8.85
		2.8 + 3.2 + 3.2 + 3.2	Cooling	8.00	2.9 - 9.1	2.03	0.52 - 2.86	8.95
			Heating	9.40	4.1 - 10.6	2.09	0.70 - 3.10	9.20
		2.8 + 3.2 + 3.2 + 4.0	Cooling	8.00	2.9 - 9.1	2.01	0.52 - 2.88	8.85
			Heating	9.40	4.2 - 10.6	2.07	0.70 - 3.08	9.15
		3.2 + 3.2 + 3.2 + 3.2	Cooling	8.00	2.9 - 9.2	2.00	0.53 - 2.85	8.80
			Heating	9.40	4.2 - 10.6	2.11	0.70 - 3.08	9.30
		3.2 + 3.2 + 3.2 + 4.0	Cooling	8.00	3.0 - 9.2	1.98	0.53 - 2.87	8.70
			Heating	9.40	4.2 - 10.6	2.08	0.70 - 3.06	9.10

3 Features

- Product

- A single OUTDOOR unit enable air conditioning of up to two separate rooms for CU-2E15GBE.
- A single OUTDOOR unit enable air conditioning of up to three separate rooms for CU-3E18EBE and CU-3E23CBPG.
- A single OUTDOOR unit enable air conditioning of up to four separate rooms for CU-4E27CBPG.

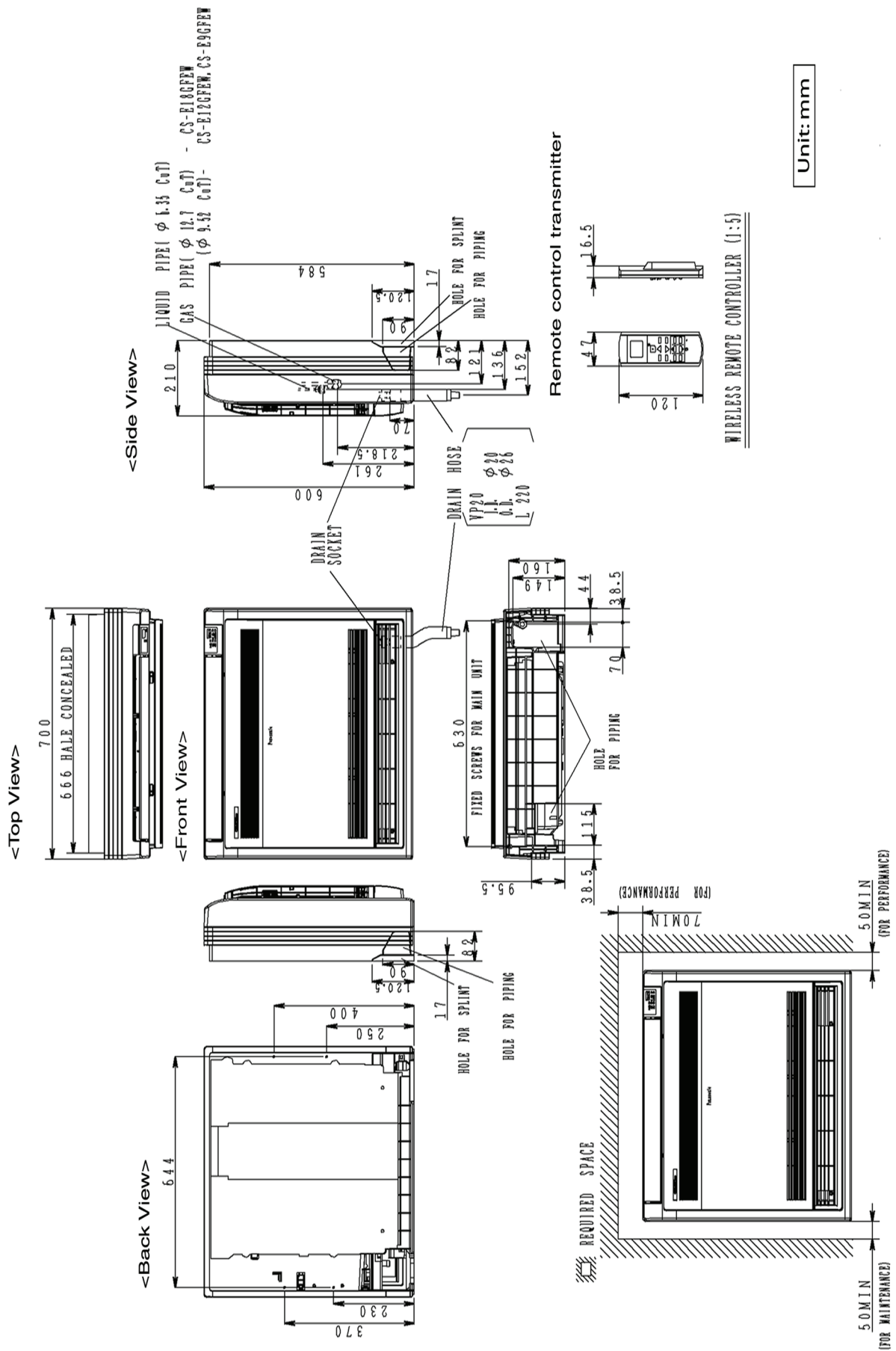
CONNECTABLE INDOOR UNIT			OUTDOOR UNIT											
			CU-2E15GBE		CU-3E18EBE			CU-3E23CBPG			CU-4E27CBPG			
ROOM			A	B	A	B	C	A	B	C	A	B	C	D
Type														
Floor Type	2.8kW	CS-E9GFEW	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙
	3.2kW	CS-E12GFEW	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙
	5.0kW	CS-E18GFEW	—	—	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙
Capacity range of connectable indoor units			From 4.4 to 5.4kW		From 5.0 to 9.0kW			From 5.0 to 10kW			From 5.0 to 13.6kW			
Pipe length	1-room maximum pipe length (m)		20		25			25			25			
	Allowable elevation (m)		10		15			15			15			
	Total allowable pipe length (m)		30		50			50			70			
	Total pipe length for maximum chargeless length (m)		20		30			30			40			
	Additional gas amount over chargeless length (m)		20		20			20			20			

Remarks;

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. (shown in the above table.)

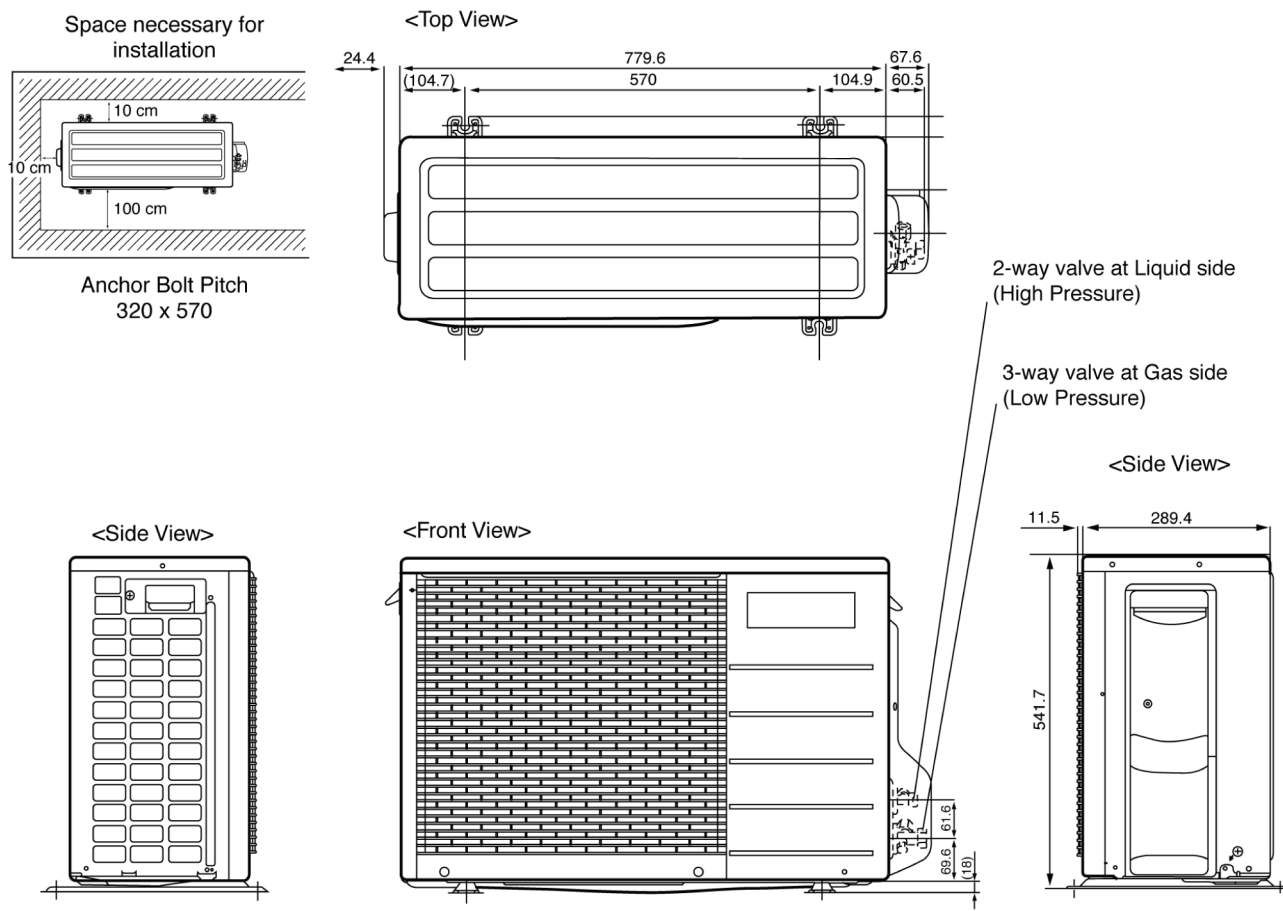
5 Dimensions

5.1. Indoor Unit



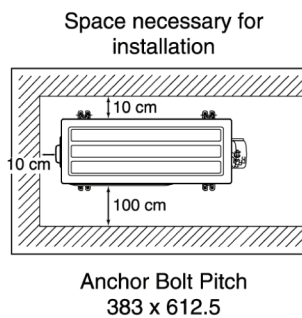
5.2. Outdoor Unit

5.2.1. CU-E9GFE CU-E12GFE

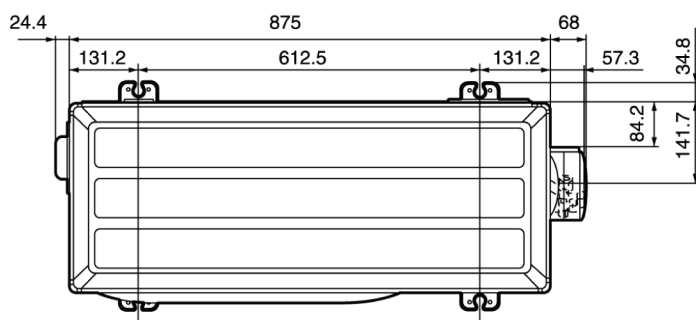


Unit:mm

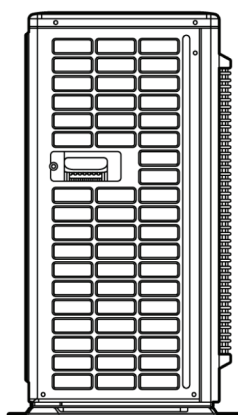
5.2.2. CU-E18GFE



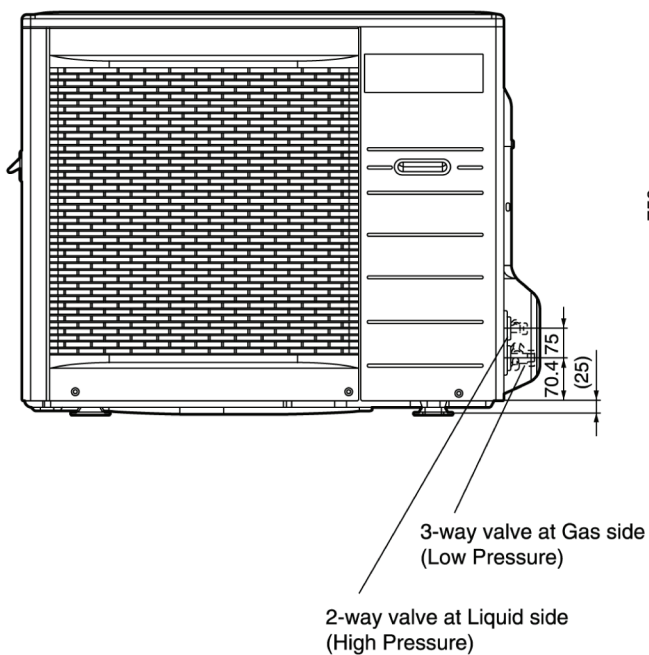
<Top View>



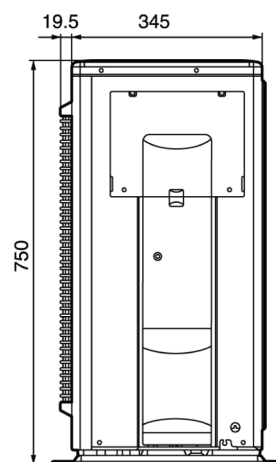
<Side View>



<Front View>



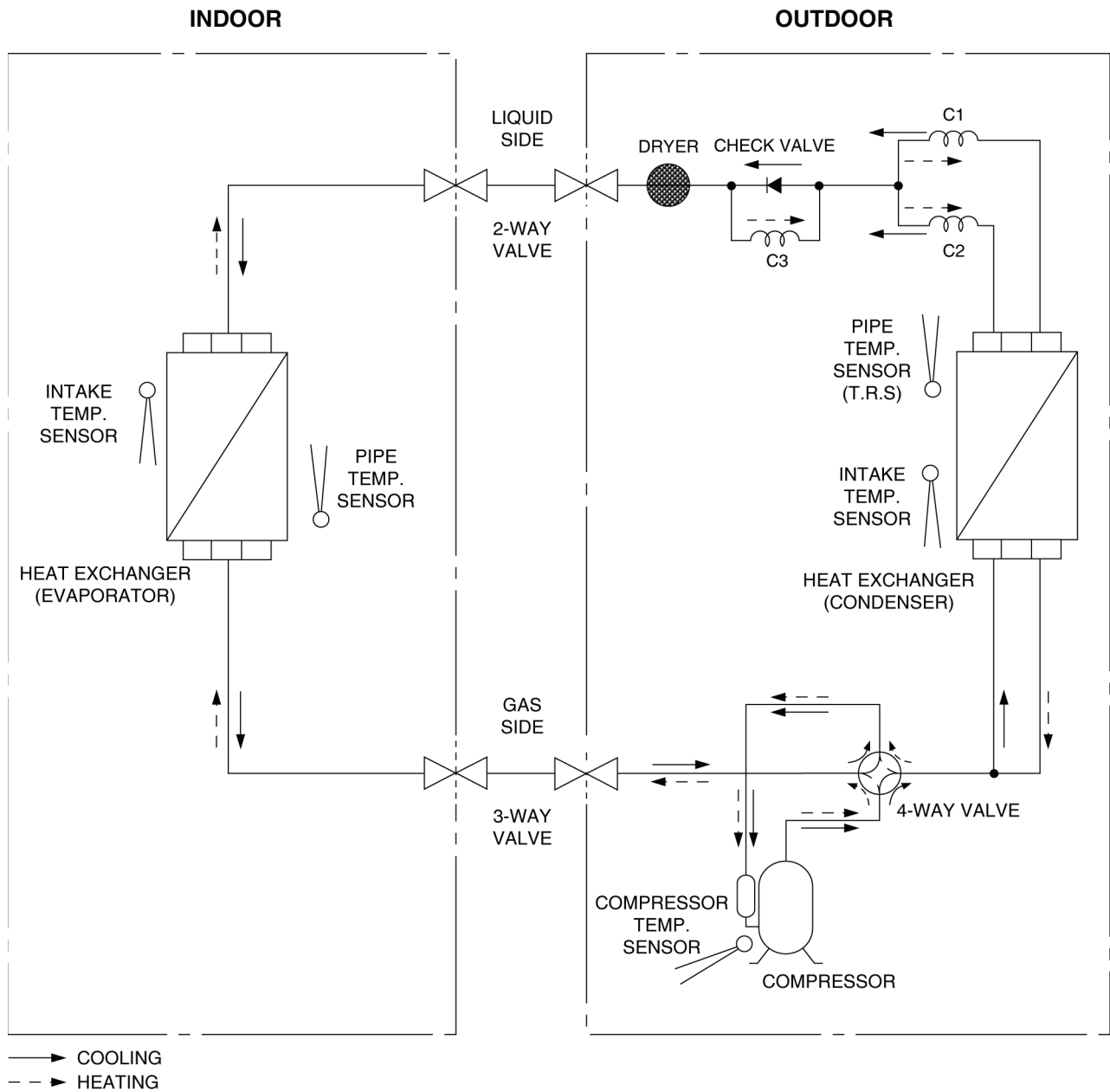
<Side View>



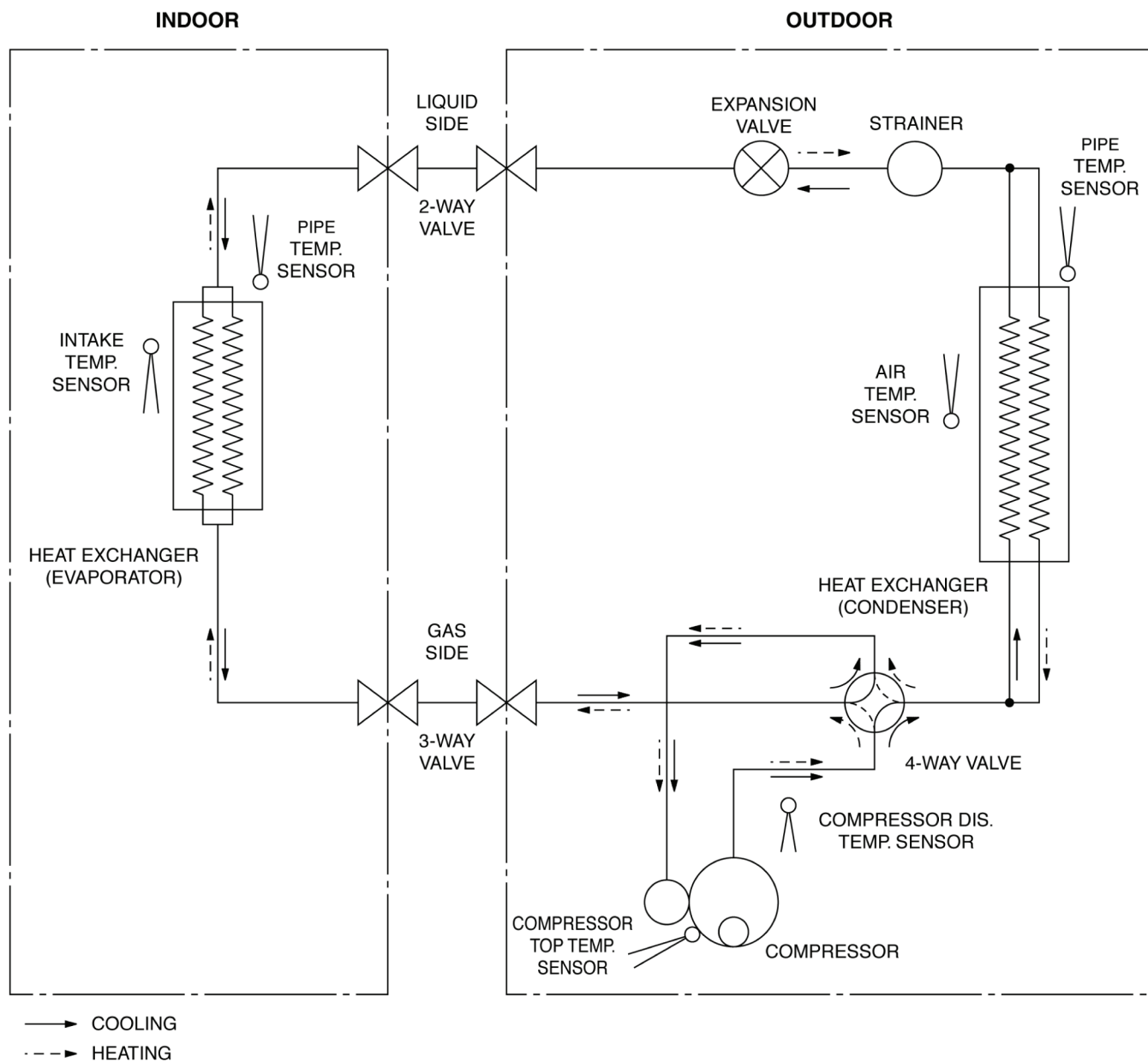
Unit: mm

6 Refrigeration Cycle Diagram

6.1. CS-E9GFEW CU-E9GFE CS-E12GFEW CU-E12GFE

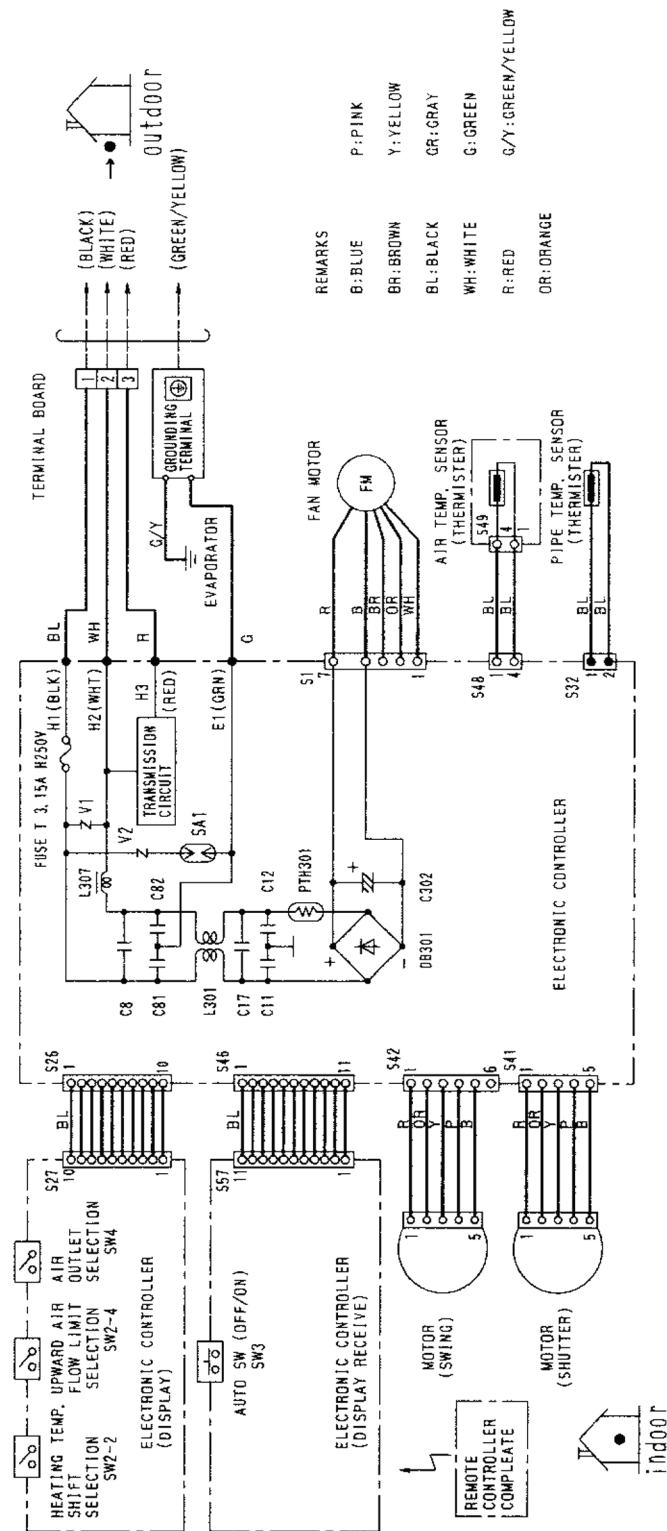


6.2. CS-E18GFEW CU-E18GFE



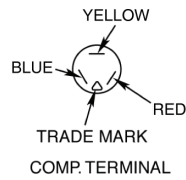
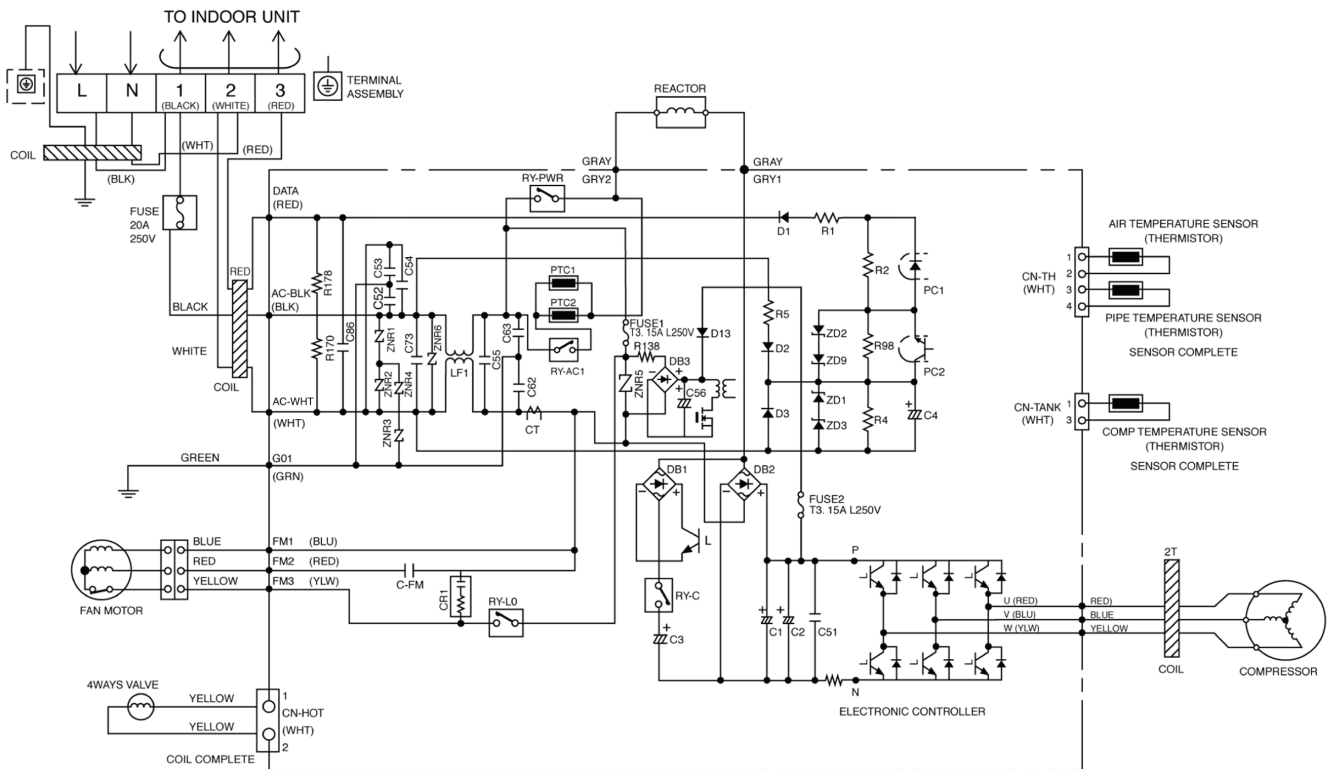
7 Wiring Connection Diagram

7.1. Indoor Unit



7.2. Outdoor Unit

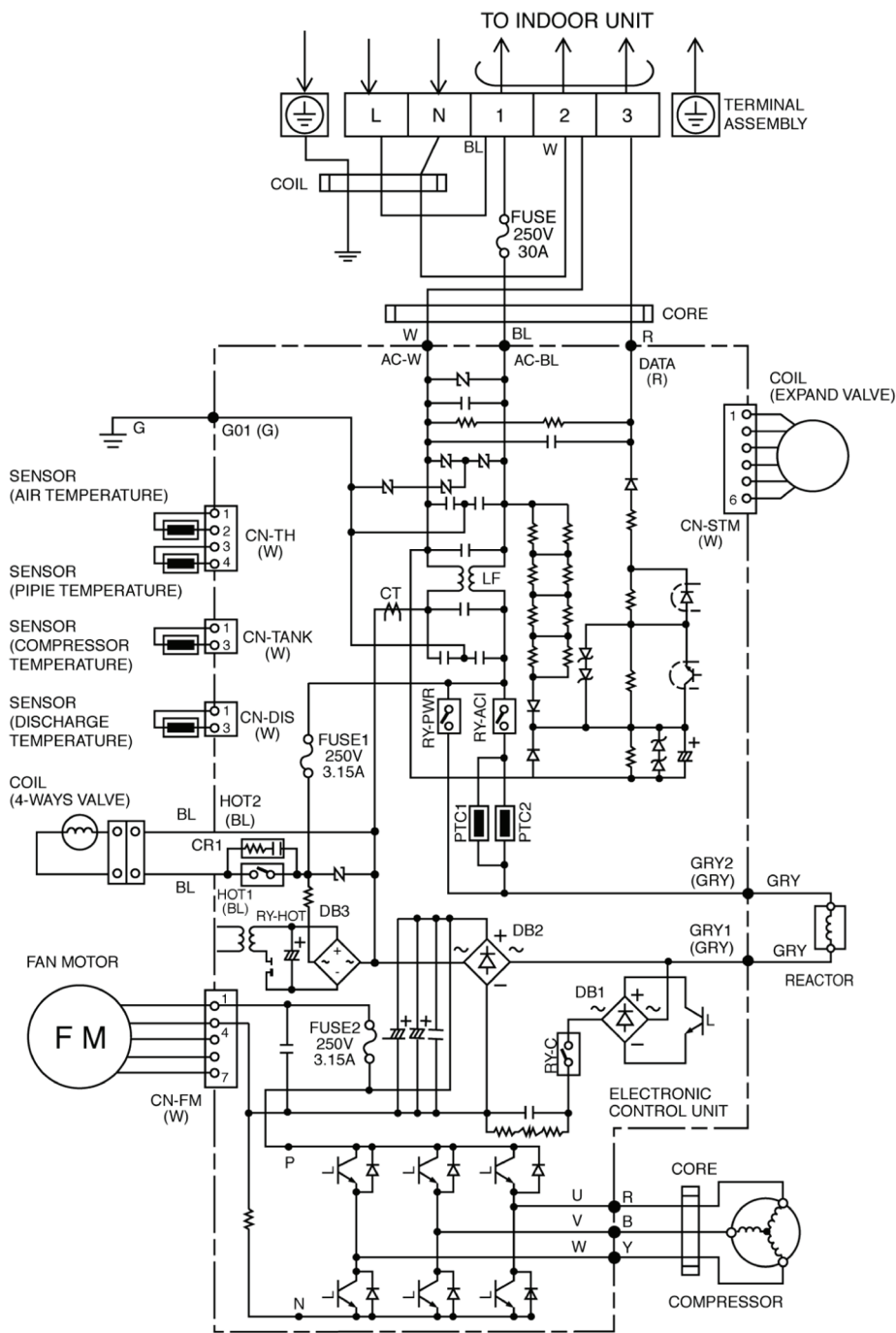
7.2.1. CU-E9GFE CU-E12GFE



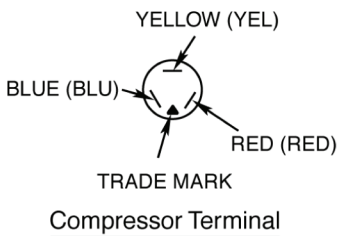
Resistance of Compressor Windings

CONNECTION	5RS102XBC01 (Ω)
U - V	0.858
U - W	0.858
V - W	0.858

7.2.2. CU-E18GFE



- Remarks:**
- B : BLUE
 - BR : BROWN
 - BL : BLACK
 - W : WHITE
 - G : GREEN
 - R : RED
 - O : ORANGE
 - P : PINK
 - VLT : VIOLET
 - GRY : GRAY
 - Y/G : YELLOW / GREEN



Resistance of Compressor Windings

CONNECTION	5CS130XAD04 (Ω)
U - V	0.9
V - W	0.9
U - W	0.9

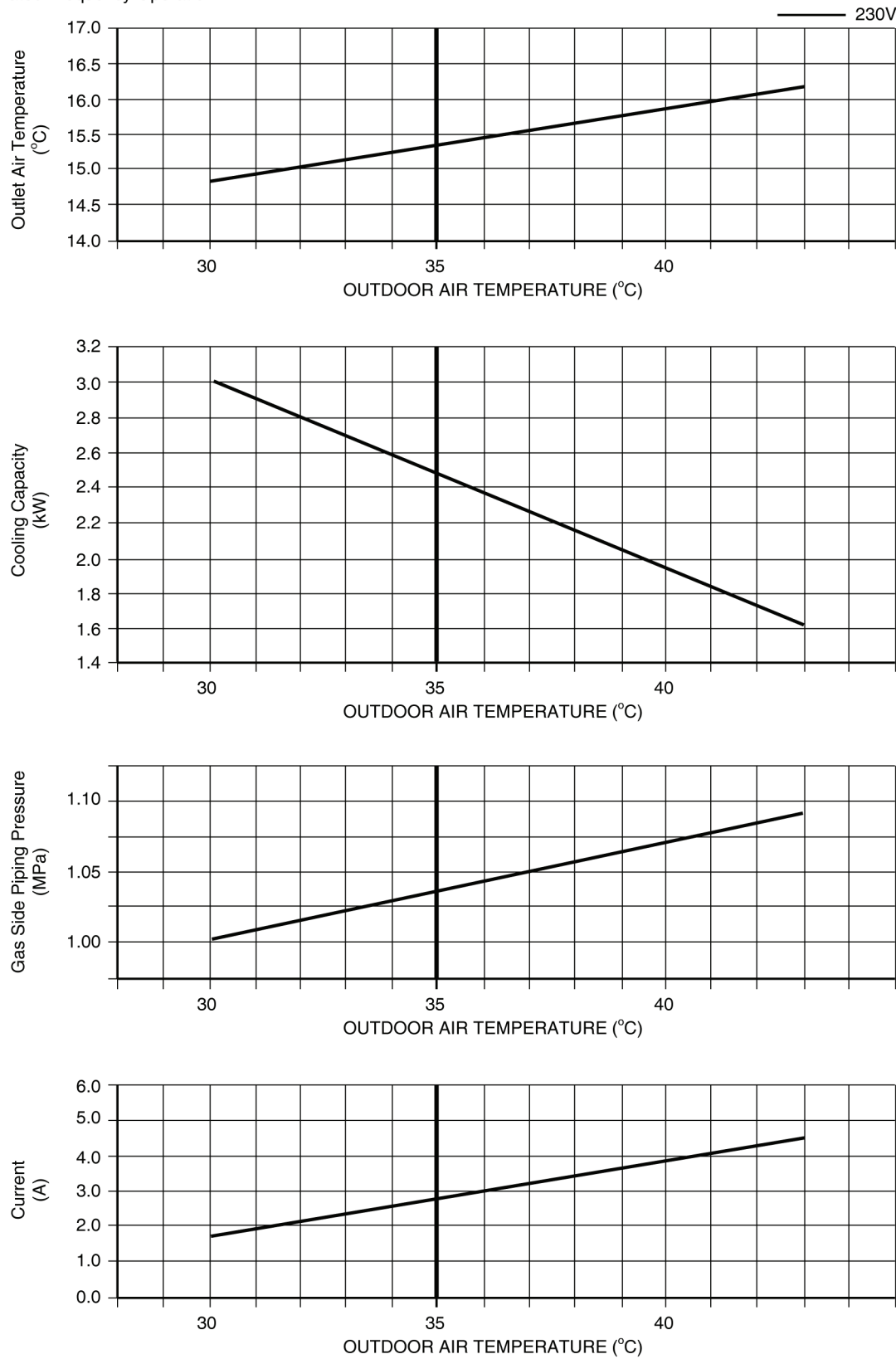
13 Technical Data

13.1. Operation Characteristics

CS-E9GFEW CU-E9GFE

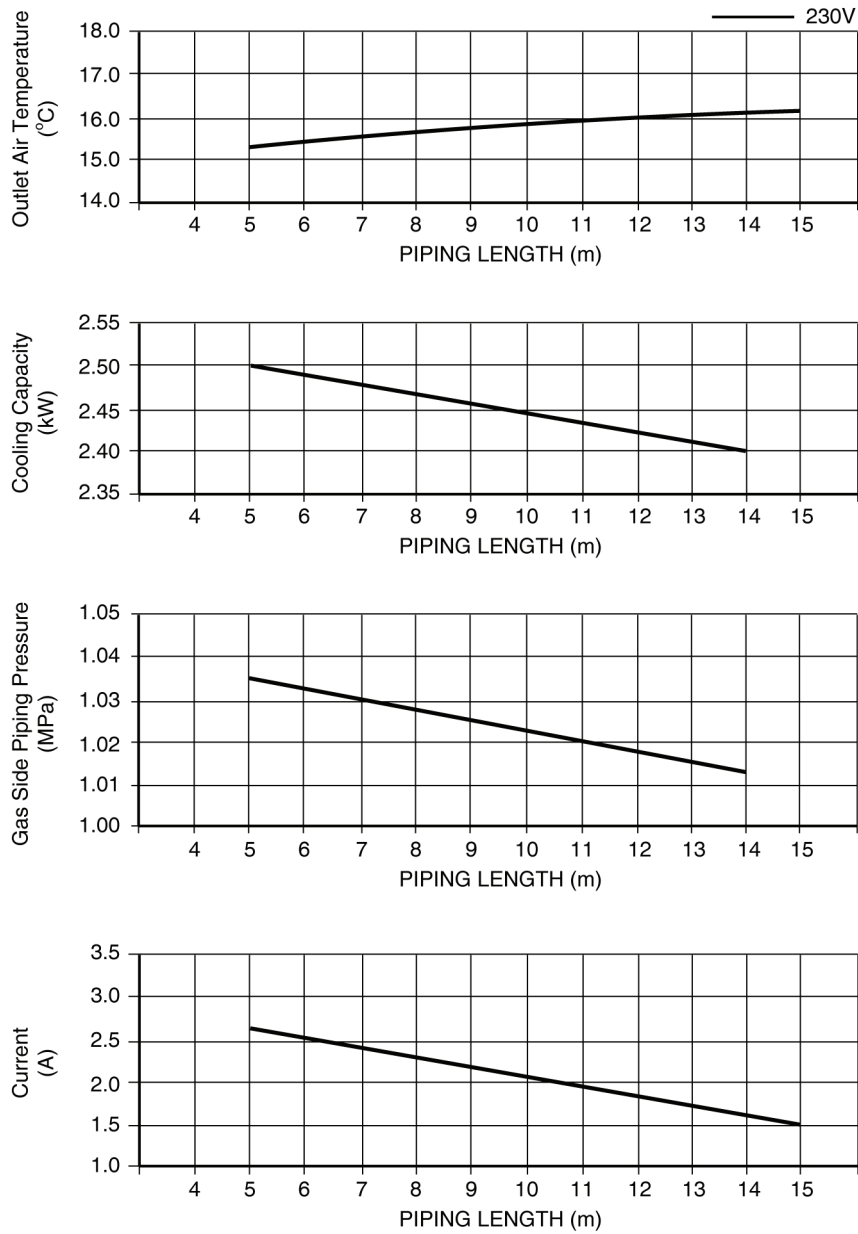
• Cooling Characteristic

[Condition] Room temperature: 27/19°C
Cooling operation: At High Fan
Rated Frequency Operation



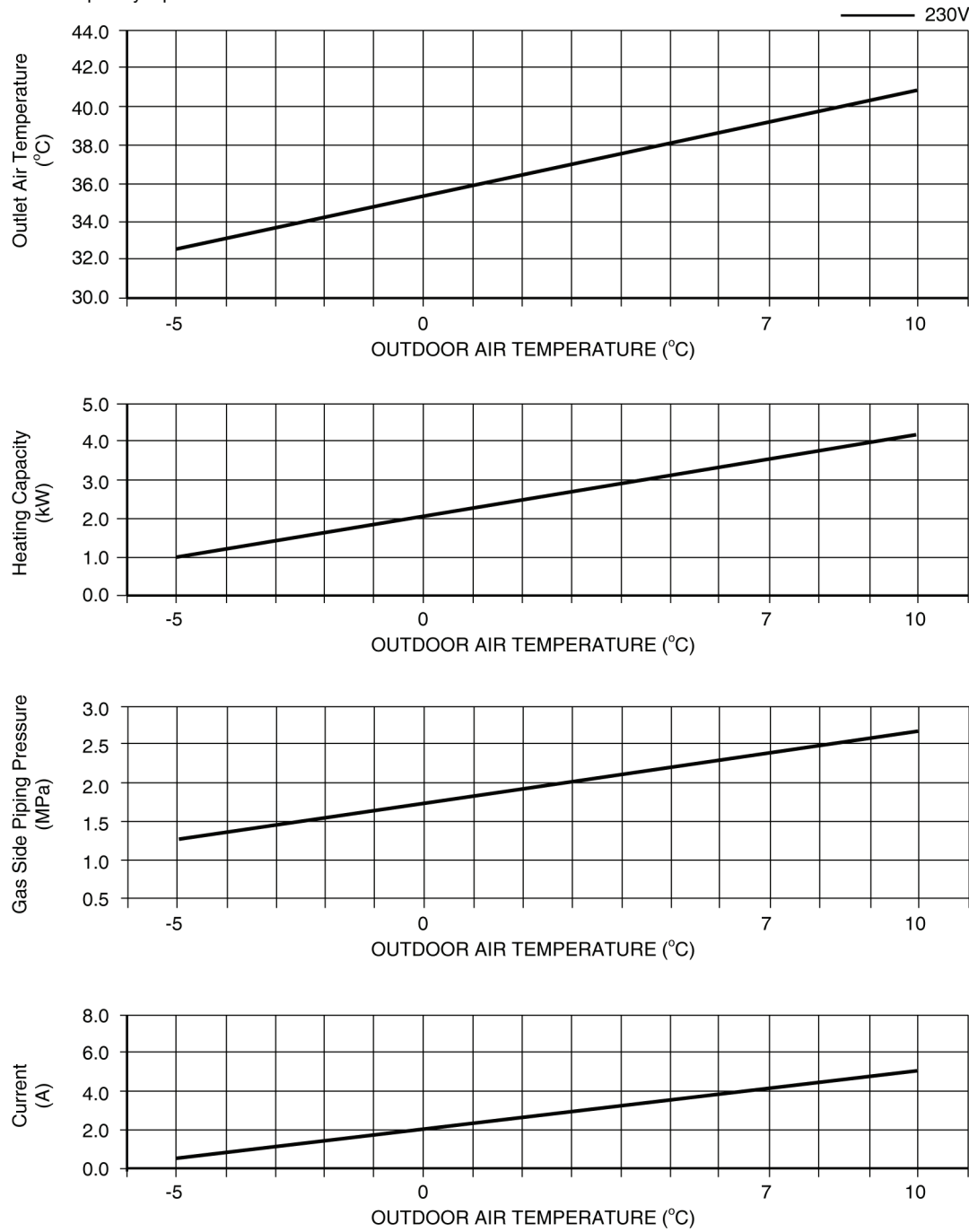
• Piping Length Characteristic (Cooling)

[Condition] Room temperature: 27/19°C
Cooling operation: At High fan
Rated Frequency Operation



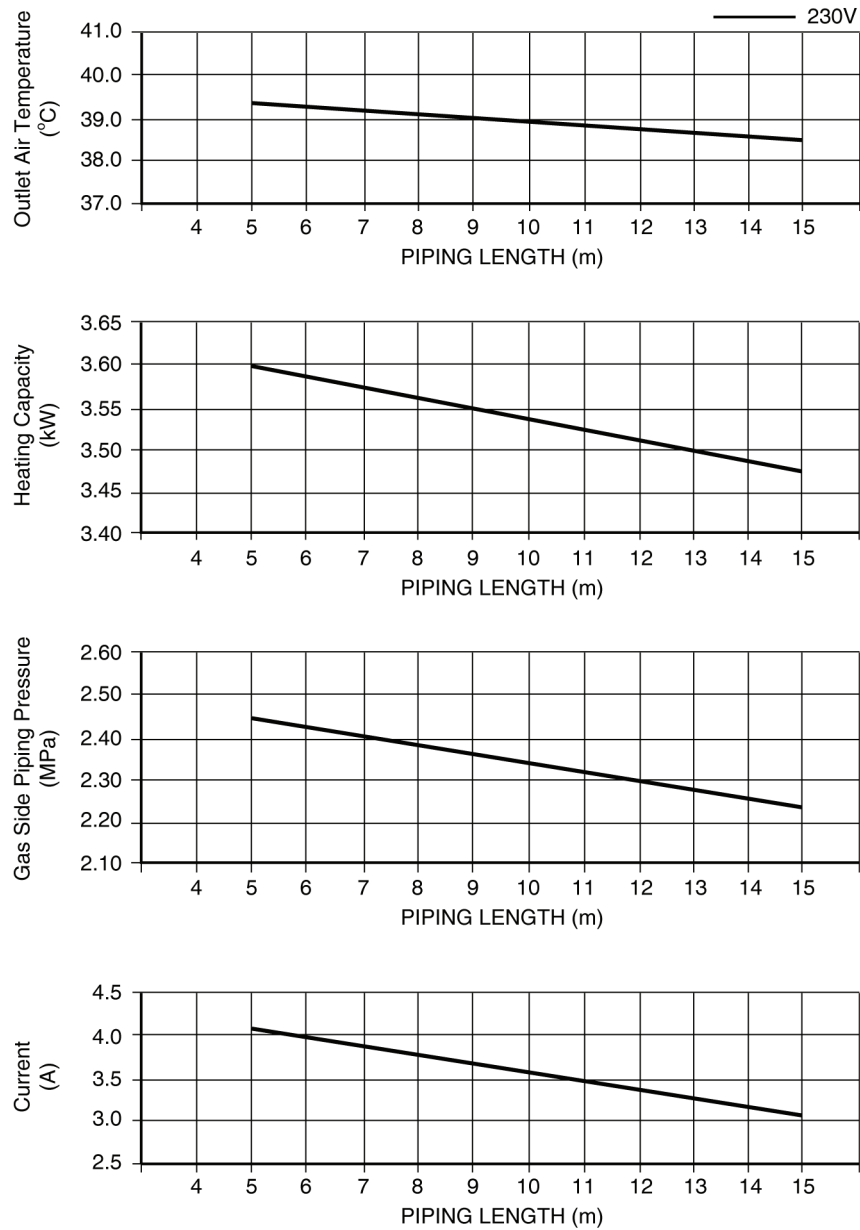
• Heating Characteristic

[Condition] Room temperature: 20°C
Heating operation: At High Fan
Rated Frequency Operation



• Piping Length Characteristic (Heating)

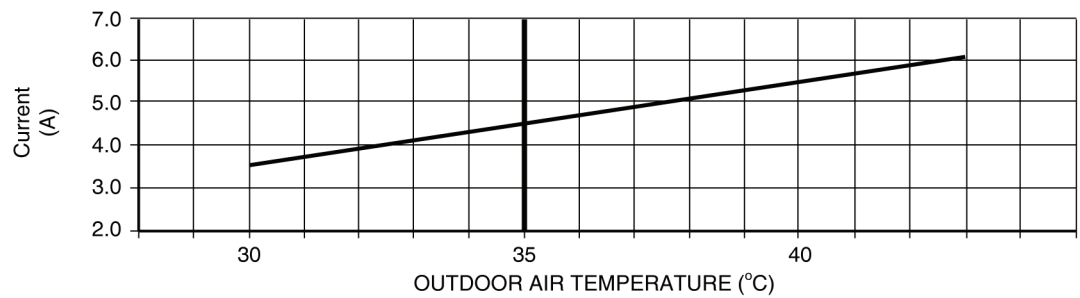
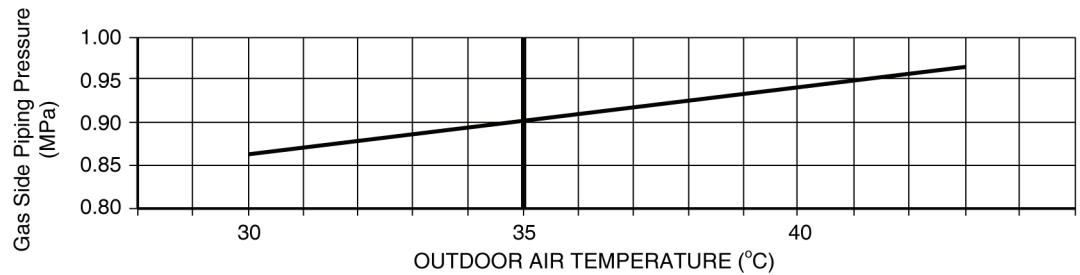
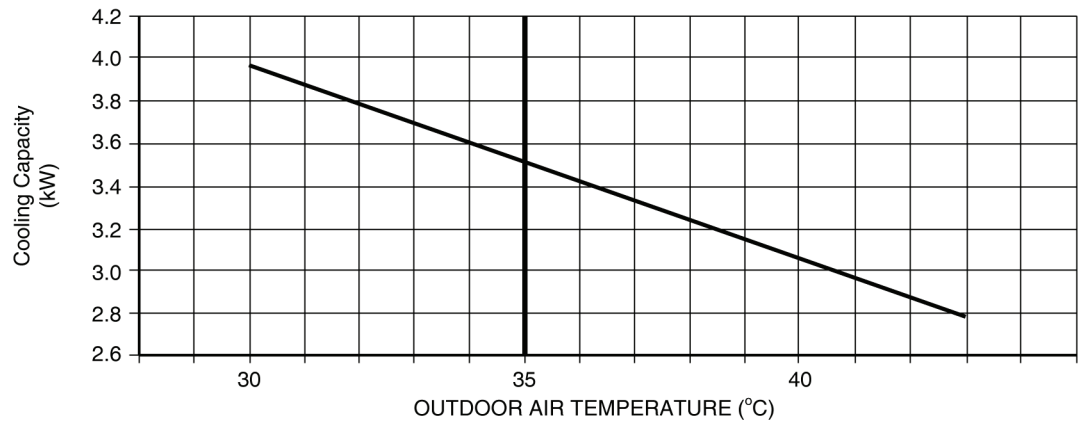
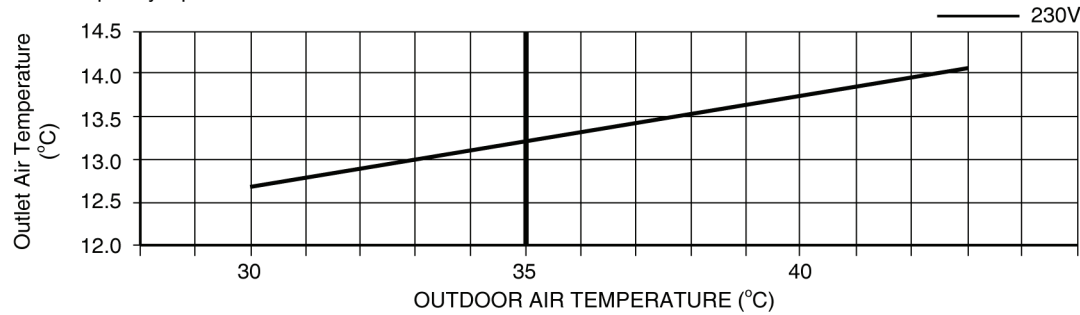
[Condition] Room temperature: 20°C
Heating operation: 7/6°C
Rated Frequency Operation



CS-E12GFEW CU-E12GFE

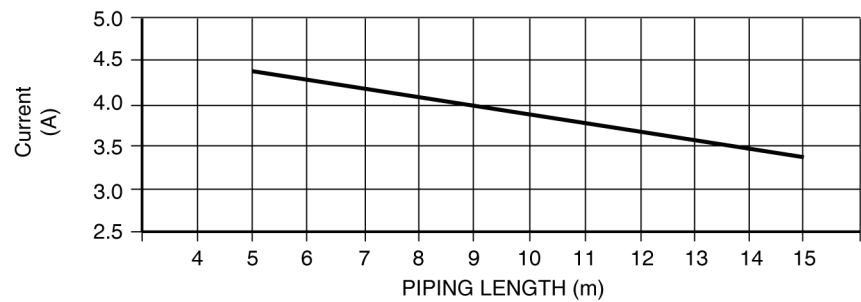
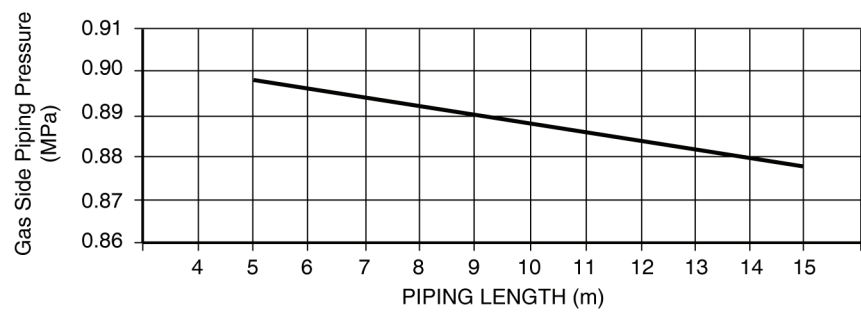
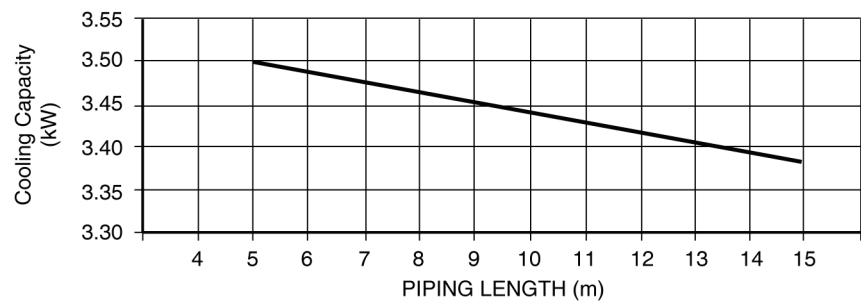
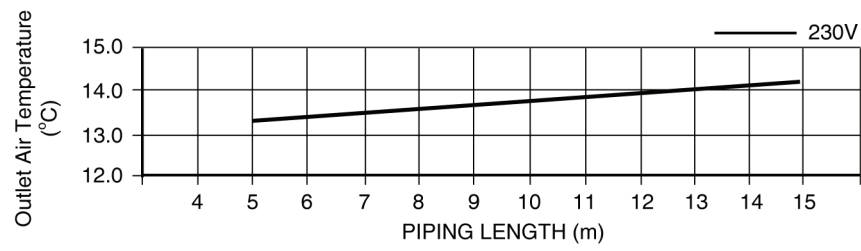
• Cooling Characteristic

[Condition] Room temperature: 27/19°C
Cooling operation: At High Fan
Rated Frequency Operation



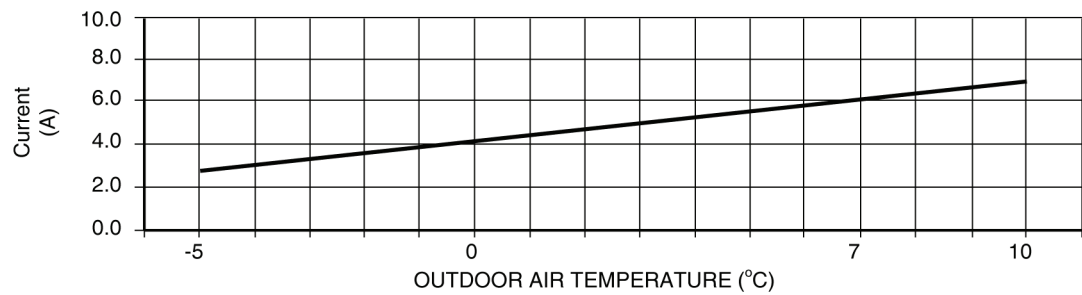
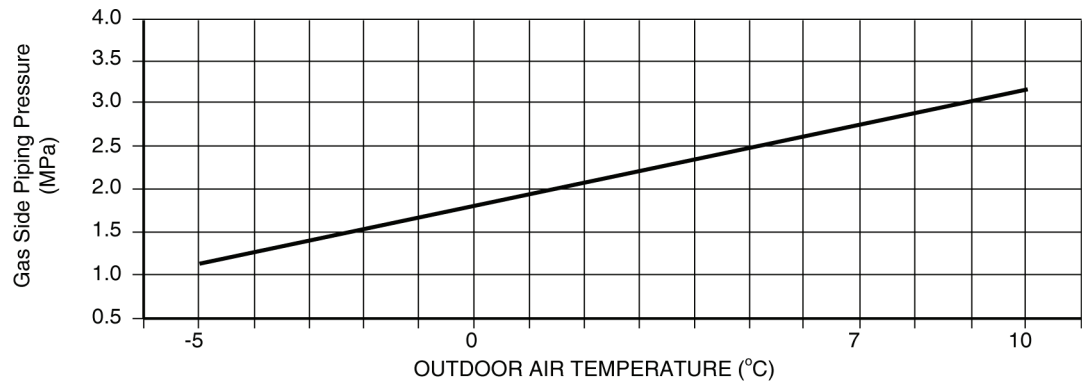
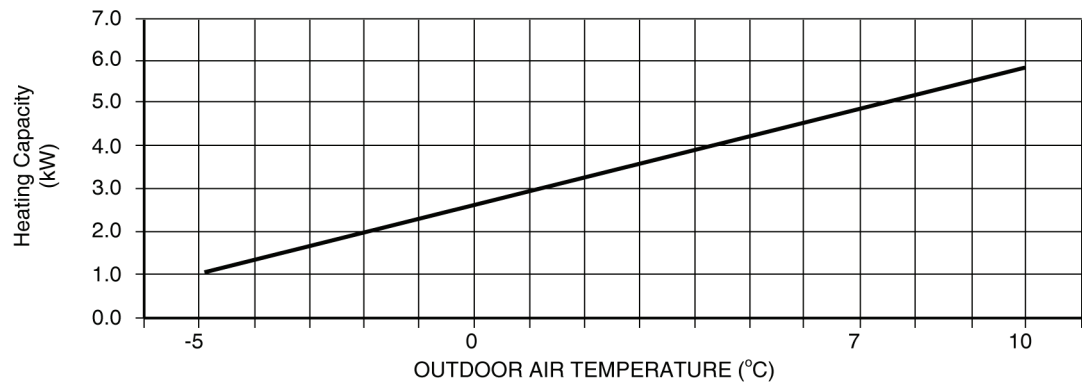
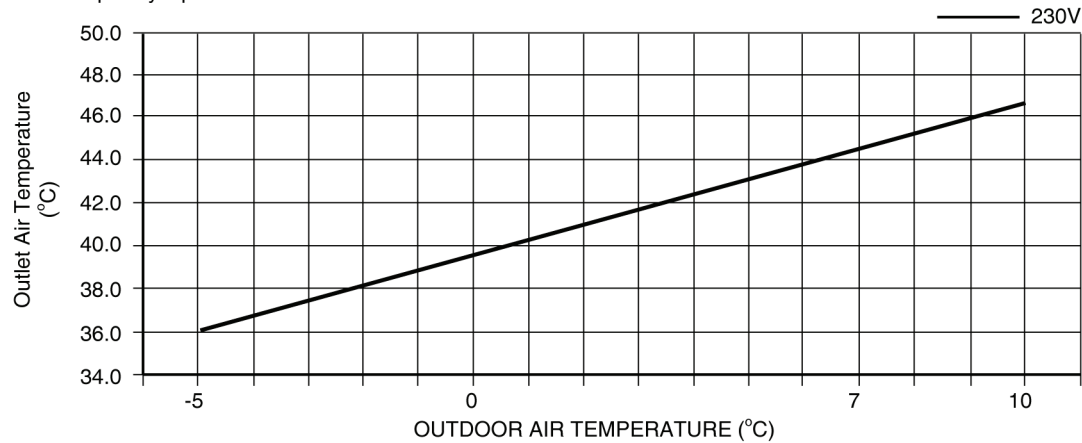
• Piping Length Characteristic (Cooling)

[Condition] Room temperature: 27/19°C
Cooling operation: At High fan
Rated Frequency Operation



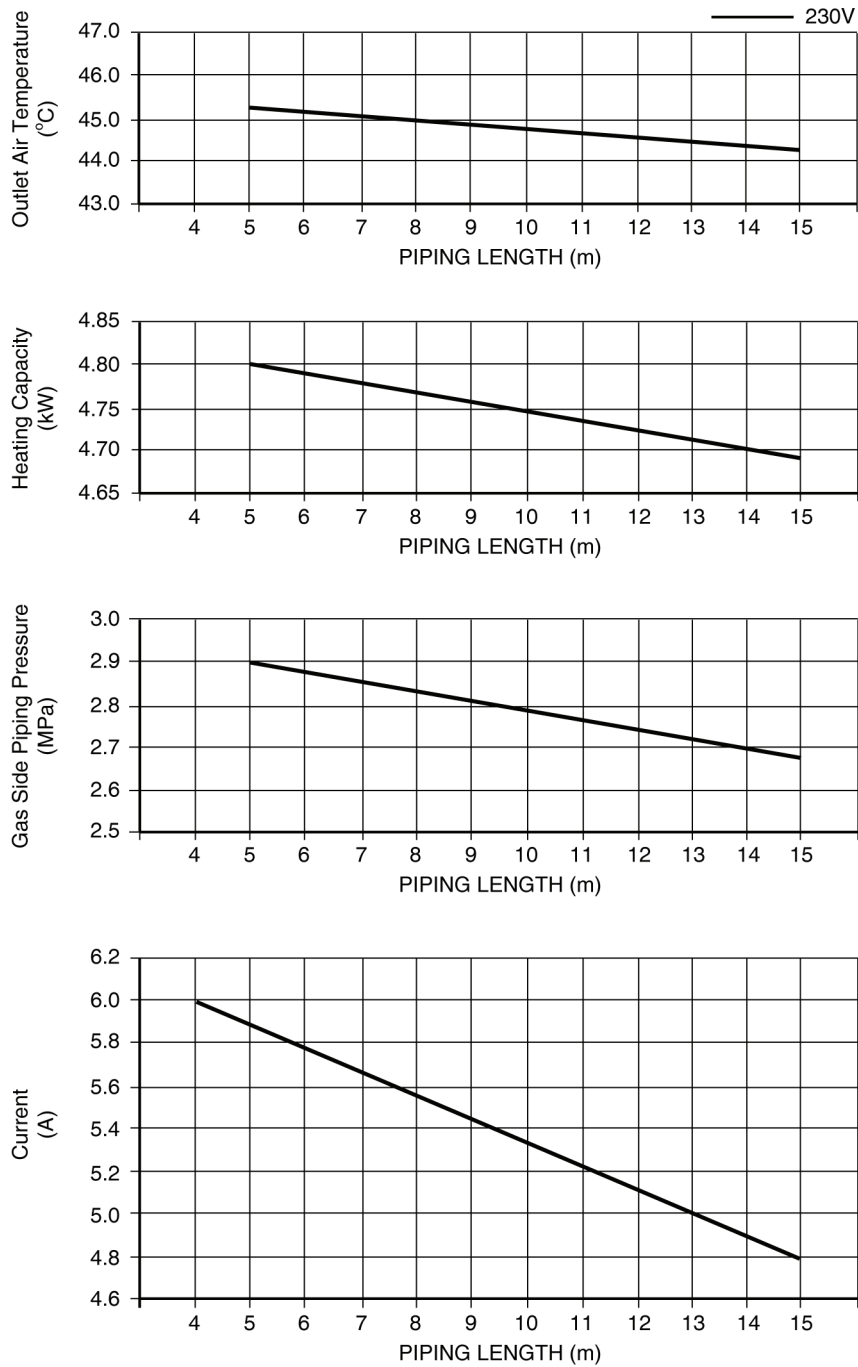
• Heating Characteristic

[Condition] Room temperature: 20°C
Heating operation: At High Fan
Rated Frequency Operation



• Piping Length Characteristic (Heating)

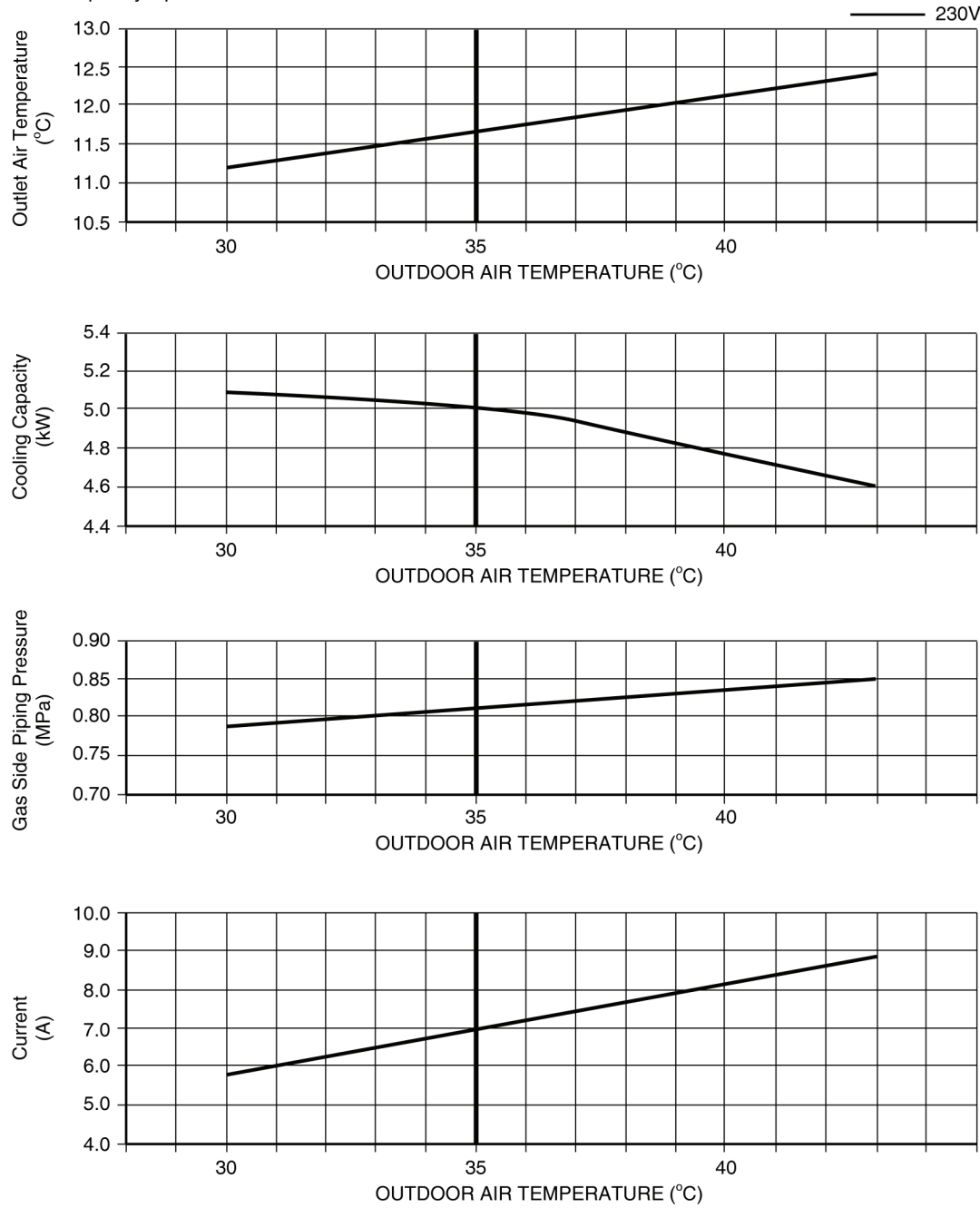
[Condition] Room temperature: 20°C
Heating operation: 7/6°C
Rated Frequency Operation



CS-E18GFEW CU-E18GFE

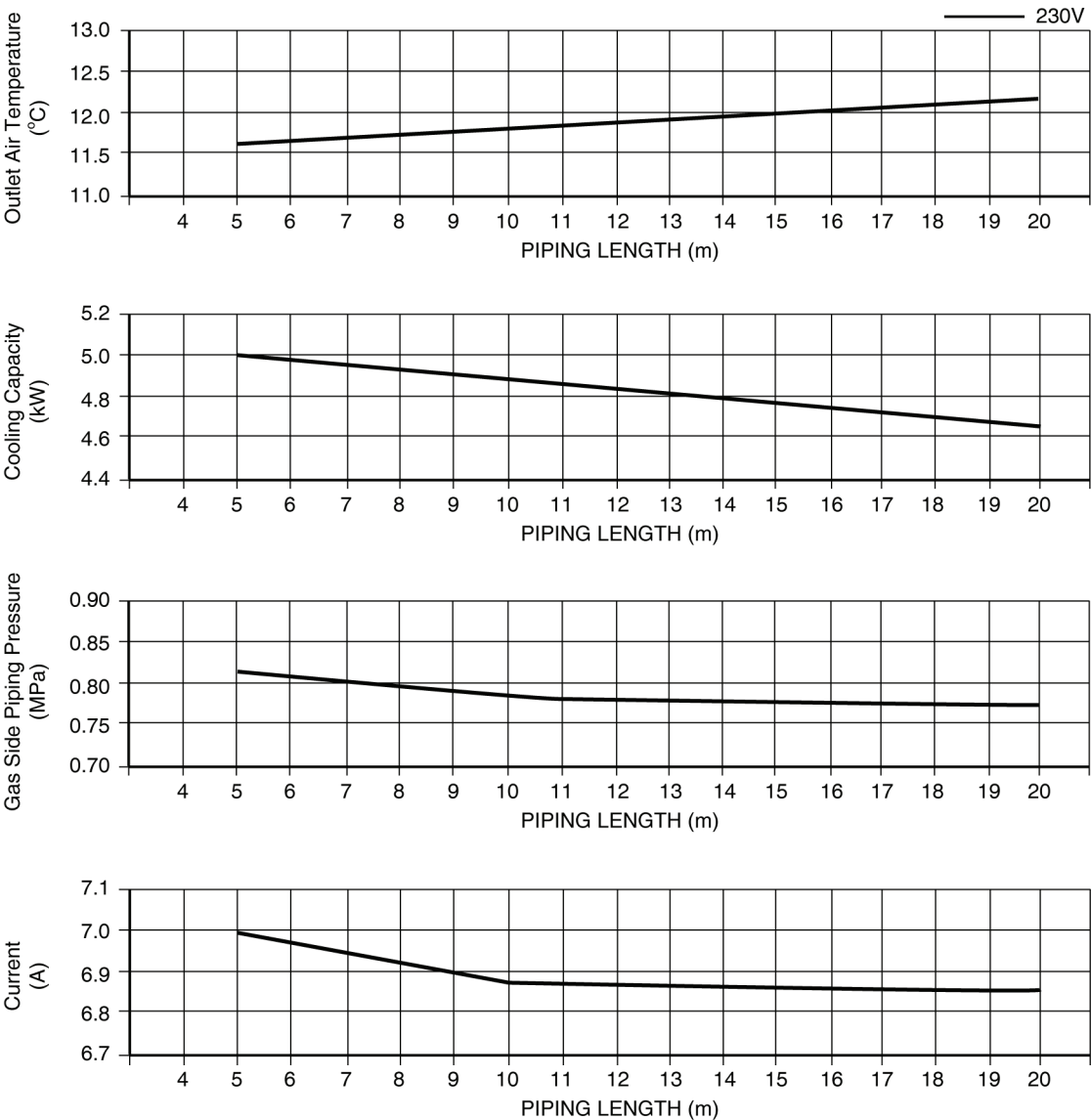
• Cooling Characteristic

[Condition] Room temperature: 27/19°C
Cooling operation: At High Fan
Rated Frequency Operation



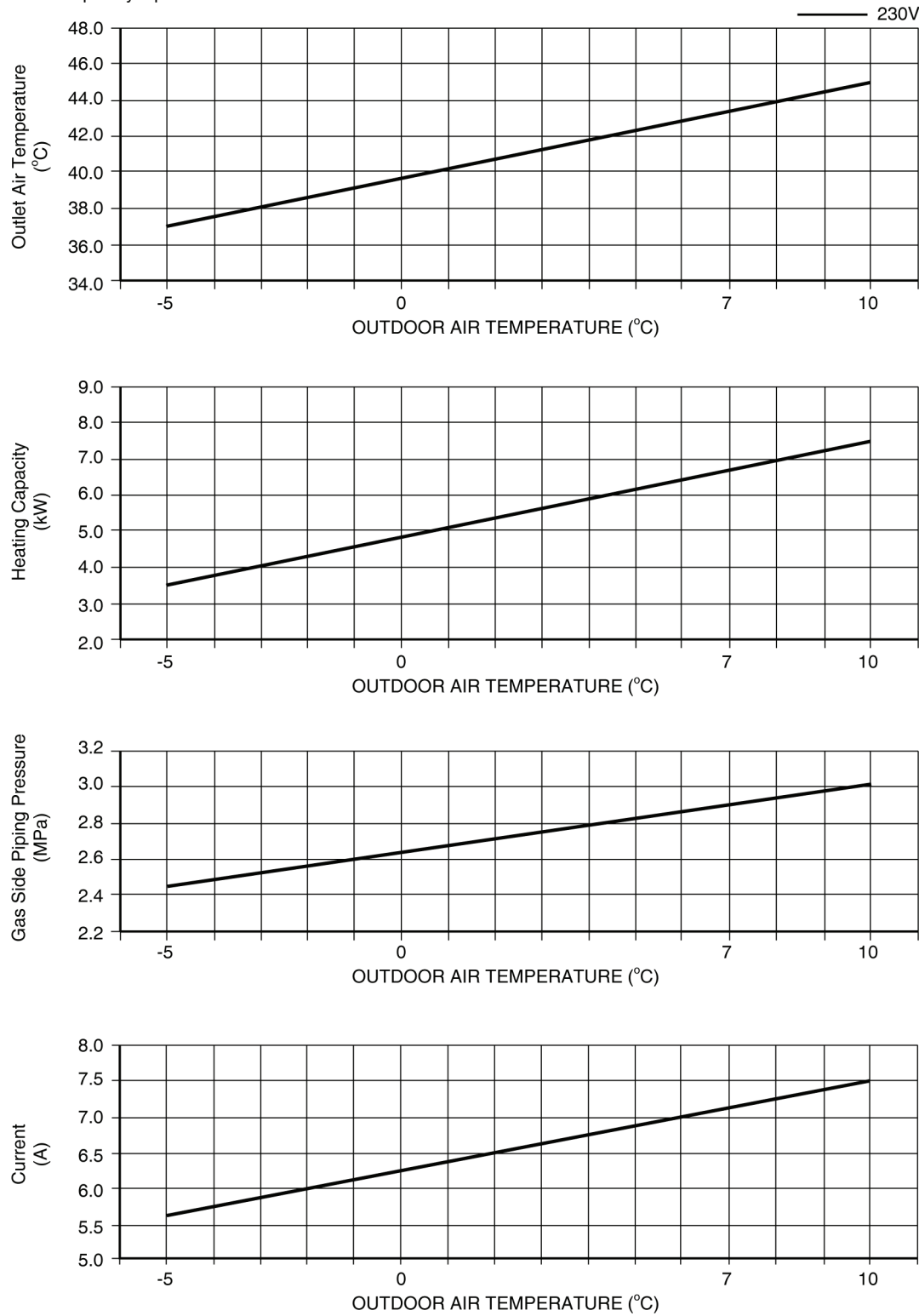
• Piping Length Characteristic (Cooling)

[Condition] Room temperature: 27/19°C
Cooling operation: At High fan
Rated Frequency Operation



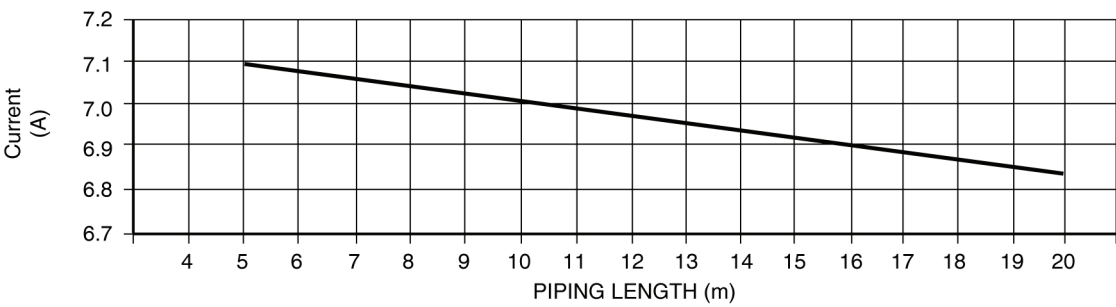
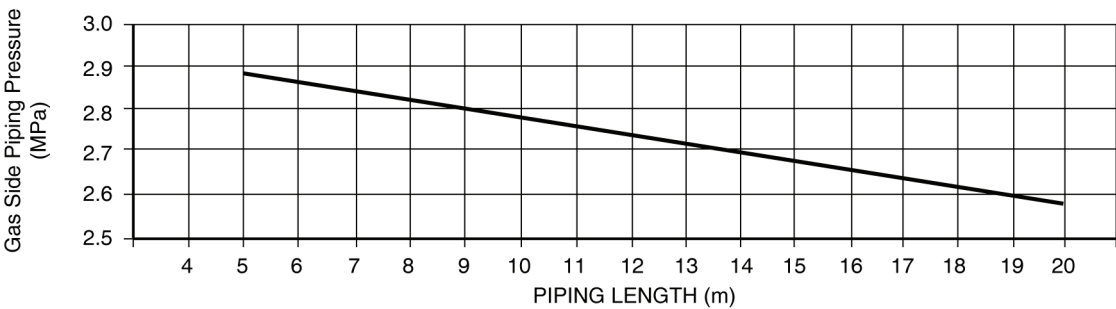
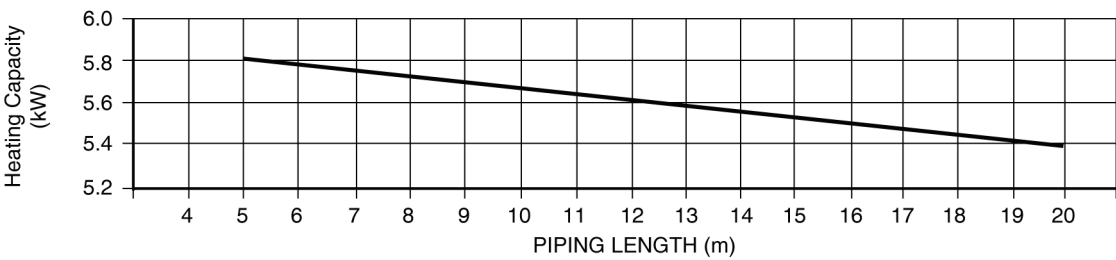
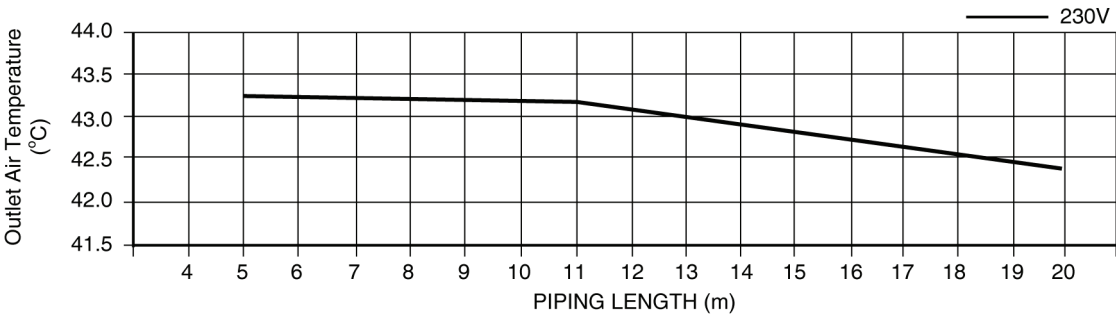
• Heating Characteristic

[Condition] Room temperature: 20°C
Heating operation: At High Fan
Rated Frequency Operation



• Piping Length Characteristic (Heating)

[Condition] Room temperature: 20°C
Heating operation: 7/6°C
Rated Frequency Operation



13.2. Sensible Capacity Chart

● CS-E9GFEW CU-E9GFE

230V		Outdoor Temp. (°C)											
		30°C			35°C			40°C			46°C		
		TC	SHC	IP	TC	SHC	IP	TC	SHC	IP	TC	SHC	IP
D.B.	W.B.	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW
27	17.0	2.48	2.13	0.52	2.32	2.05	0.56	2.16	1.97	0.60	1.96	1.88	0.65
	19.0				2.50		0.57						
	19.5	2.72	2.23	0.53	2.55	2.15	0.57	2.37	2.06	0.61	2.15	1.97	0.66
	22.0	2.96	2.31	0.54	2.77	2.22	0.58	2.58	2.13	0.62	2.34	2.03	0.67

● CS-E12GFEW CU-E12GFE

230V		Outdoor Temp. (°C)											
		30°C			35°C			40°C			46°C		
		TC	SHC	IP	TC	SHC	IP	TC	SHC	IP	TC	SHC	IP
D.B.	W.B.	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW
27	17.0	3.47	2.49	0.89	3.25	2.40	0.96	3.02	2.30	1.03	2.74	2.20	1.11
	19.0				3.50		0.97						
	19.5	3.81	2.61	0.90	3.57	2.51	0.97	3.32	2.41	1.04	3.02	2.30	1.12
	22.0	4.15	2.70	0.92	3.88	2.60	0.98	3.61	2.49	1.06	3.28	2.38	1.14

● CS-E18GFEW CU-E18GFE

230V		Outdoor Temp. (°C)											
		30°C			35°C			40°C			46°C		
		TC	SHC	IP	TC	SHC	IP	TC	SHC	IP	TC	SHC	IP
D.B.	W.B.	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW
27	17.0	4.96	3.26	1.44	4.64	3.14	1.54	4.32	3.01	1.65	3.92	2.87	1.78
	19.0				5.00		1.56						
	19.5	5.45	3.41	1.45	5.10	3.28	1.56	4.74	3.15	1.67	4.31	3.01	1.80
	22.0	5.92	3.53	1.47	5.55	3.40	1.58	5.16	3.26	1.70	4.69	3.11	1.83

TC - Total Cooling Capacity (kW)
 SHC - Sensible Heat Capacity (kW)
 IP - Input Power (kW)

Indoor 27°C/19°C
 Outdoor 35°C/24°C