



Midea 50Hz AC Fan Coil Unit 2-Pipe Wall-mounted Series

Technical Service Manual

Wall-mounted AC Fan Coil Unit

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1. Introduction

MKG fan coil is a kind of newly designed fan coil units, which is mounted on the wall. It has two kinds of body, both have 3-way valve inside the body. In addition, it has panels of different color can be optional.

MKG series fan coil is designed and manufactured on the base of fully adoption advanced technology. The acute and thin body makes it save a lot of space and easy for installation. Quality materials and state-of-the-art technology ensure optimal performance with virtually imperceptible noise levels and keep running smoothly.

Midea MKG series fan coil unit has been tested by national AC quality supervise testing center, as low noise level, high efficiency, stable operation and low power consumption make it as the advanced production in the world, Due to their reduced dimensions and pleasing design, these units are ideally suited for Commercial and Residential environments.

2. Nomenclature

M K G – 250 - B

Design Serial Number *S panel була в поставках 2015-2021 рр в нас лишилось декілька MKG-600B*
B: S type panel
C: A type panel

Air Flow (250CFM)

Type Code

G: Wall-mounted FCU

Chilled Water Fan Coil Unit

Midea

3. Product Details

Series	Model	Air volume(CFM)	Power supply
		250	220~240V-1Ph-50Hz
		300	
		400	
		500	
		600	
A type panel	MKG-250-C	250	220~240V-1Ph-50Hz
	MKG-300-C	300	
	MKG-400-C	400	
	MKG-500-C	500	
	MKG-600-C	600	
		250	220~240V-1Ph-50Hz
		300	
		400	
		500	
		600	

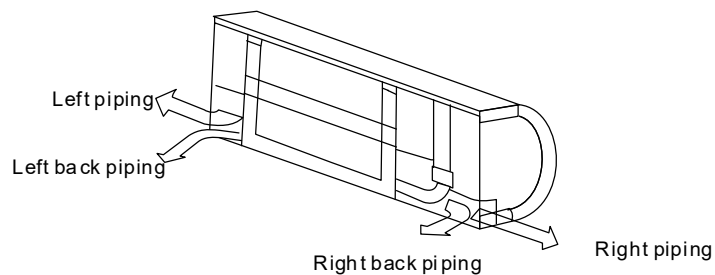
4. External Appearance



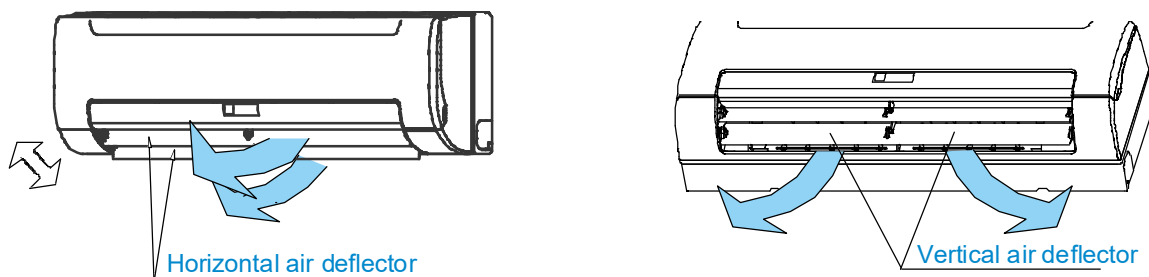
A panel

5. Feature

- ◆ Multi-connection outlet pipe method: left/right/rear, more flexible for installation.



- ◆ Wind direction adjustment can be in horizontal and vertical way for auto swing louver



- ◆ Built-in 3-way electromagnetic valve.
- ◆ Cross flow fan creates quiet and comfortable environment.
- ◆ Easy maintenance has been realized as the front panel can be removed for easy access.



- ◆ Remote controller with LCD display is standard, wired controller and central controller are optional.

6. Specifications

6.1 S type panel

MKG-250-B / MKG-300-B / MKG-400-B

Model			MKG-250-B	MKG-300-B	MKG-400-B
Power supply		V/Ph/Hz	220-240/1/50		
Air flow (H/M/L)		m3/h	425/390/350	510/470/390	680/550/460
		CFM	250/230/205	300/275/230	400/325/270
Cooling	Capacity (H/M/L)	kW	2.63/2.41/2.16	2.97/2.47/2.12	3.28/2.83/2.41
	Water flow rate	L/h	452	511	564
	Water pressure drop	kPa	29.4	35.6	43.5
Heating	Capacity (H/M/L)	kW	3.36/3.1/2.79	3.91/3.26/2.77	4.37/3.73/3.17
	Water pressure drop	kPa	27.3	32.9	40.8
Power input		W	24	37	40
Current input		H	A	0.12	0.18
Sound pressure level		dB(A)	30/24/20	35/29/24	37/31/26
Fan motor	Type		Low noise 4-speed fan motor		
	Quantity		1		
Fan	Type		Tangential fan		
	Quantity		1		
Coil	Row		2		
	Diameter	mm	Φ7		
	Tube pitch(a) × rowpitch(b)	mm	21×13.37		
	Dimension (W×H×D)	mm	635×315×26.74		
	Fin spacing	mm	1.5		
	Fin type		Hydrophilic aluminum		
	Circuit		5		
	Max. working pressure	MPa	1.6		
Body	Net dimensions (W×H×D)	mm	915×290×230		
	Packing size (W×H×D)	mm	1020×390×315		
	Net weight	kg	13	13	13.3
	Gross weight	kg	16.3	16.3	16.7
Pipe connections	Water inlet/outlet pipe	inch	G3/4		
	Drain pipe	mm	ODΦ20		

Notes:

1. H: high fan speed; M: medium fan speed; L: low fan speed
2. Cooling Conditions: Entering Water 7°C, Temperature Rise 5°C, Entering Air Temperature 27°C DB, 19°C WB.
Heating Conditions: Entering Water 50°C, Enter air temperature 20°C, and water flow is same to the cooling conditions.
3. Noise is tested in semi-anechoic test room.

AC Fan Coil Unit Two-pipe Wall-mounted Series



MKG-500-B / MKG-600-B

Model			MKG-500-B	MKG-600-B
Power supply		V/Ph/Hz	220-240/1/50	
Air flow (H/M/L)		m ³ /h	850/745/620	1020/915/780
		CFM	500/440/365	600/540/460
Cooling	Capacity (H/M/L)	kW	4.25/3.85/3.32	5/4.47/3.97
	Water flow rate	L/h	731	860
	Water pressure drop	kPa	31.8	42.5
Heating	Capacity (H/M/L)	kW	5.81/5.17/4.43	6.7/6/5.28
	Water pressure drop	kPa	30.2	39.7
Power input		W	50	66
Current input		A	0.22	0.29
Sound pressure level		dB(A)	39/33/28	40/34/29
Fan motor	Type		Low noise 4-speed fan motor	
	Quantity		1	
Fan	Type		Tangential fan	
	Quantity		1	
Coil	Row		2	
	Diameter	mm	Φ7	
	Tube pitch(a) × row pitch(b)		21×13.37	
	Dimension (W×H×D)	mm	785×315×26.74	
	Fin spacing	mm	1.5	
	Fin type		Hydrophilic aluminum	
	Circuit		5	
	Max. working pressure	MPa	1.6	
Body	Net dimensions (W×H×D)	mm	1072×315×230	
	Packing size (W×H×D)	mm	1180×415×315	
	Net weight	kg	15.8	15.8
	Gross weight	kg	19.4	19.4
Pipe connections	Water inlet/outlet pipe	inch	G3/4	
	Drain pipe	mm	ODΦ20	

Notes:

1. H: high fan speed; M: medium fan speed; L: low fan speed
2. Cooling Conditions: Entering Water 7°C, Temperature Rise 5°C, Entering Air Temperature 27°C DB, 19°C WB.
Heating Conditions: Entering Water 50°C, Enter air temperature 20°C, and water flow is same to the cooling conditions.
3. Noise is tested in semi-anechoic test room.

6.2 A type panel

MKG-250-C / MKG-300-C / MKG-400-C

Model			MKG-250-C	MKG-300-C	MKG-400-C
Power supply		V/Ph/Hz	220-240/1/50		
Air flow (H/M/L)		m³/h	435/396/342	523/426/351	660/534/480
		CFM	256/233/201	308/251/206	388/314/282
Cooling	Capacity (H/M/L)	kW	1.94/1.84/1.68	2.64/2.4/1.99	2.94/2.58/2.34
	Water flow rate(H/M/L)	m³/h	0.35/0.33/0.3	0.47/0.43/0.36	0.53/0.46/0.42
	Water pressure drop(H/M/L)	kPa	31.6/28.6/25.2	37.5/30/24	57.2/47.6/38.7
Heating	Capacity (H/M/L)	kW	2.34/2.15/1.94	2.9/2.6/2.22	3.46/2.75/2.52
	Water flow rate(H/M/L)	m³/h	0.43/0.39/0.35	0.53/0.47/0.4	0.63/0.5/0.46
	Water pressure drop(H/M/L)	kPa	35.2/34.9/30	39.3/31.5/25	70.8/55.1/46.2
Power input (H/M/L)		W	35/32/31	47/43/39	50/51/47
Current Input		A	0.11	0.17	0.18
Sound pressure level		dB(A)	30/24/20	35/29/24	37/31/26
Fan motor	Type	Low noise 3-speed fan motor			
	Quantity		1	1	1
Fan	Type	Tangential fan			
	Quantity		1	1	1
Coil	Row		2	2	2
	Diameter	mm	Φ7	Φ7	Φ7
	Tube pitch(a)xrow pitch(b)	mm	21×13.37	21×13.37	21×13.37
	Dimension (W×H×D)	mm	635×315×26.74	635×315×26.74	635×315×26.74
	Fin spacing	mm	1.5	1.5	1.5
	Fin type	Hydrophilic aluminium			
	Circuit		5	5	5
	Max. working pressure	MPa	1.6	1.6	1.6
Body	Net dimensions (W×H×D)	mm	915×290×233	915×290×233	915×290×233
	Packing size (W×H×D)	mm	1020×390×315	1020×390×315	1020×390×315
	Net weight	kg	13	13	13.3
	Gross weight	kg	16.3	16.3	16.7
Pipe connections	Water inlet/outlet pipe	inch	G3/4	G3/4	G3/4
	Drain pipe	mm	ODΦ20	ODΦ20	ODΦ20

Notes:

1. H: high fan speed; M: medium fan speed; L: low fan speed
2. Cooling Conditions: Entering Water 7°C, Temperature Rise 5°C, Entering Air Temperature 27°C DB, 19°C WB.
Heating Conditions: Entering Water 50°C, Enter air temperature 20°C, and water flow is same to the cooling conditions.
3. Noise is tested in semi-anechoic test room.

AC Fan Coil Unit Two-pipe Wall-mounted Series



MKG-500-C / MKG-600-C

Model			MKG-500-C	MKG-600-C
Power supply		V/Ph/Hz	220-240/1/50	
Air flow (H/M/L)		m3/h	841/723/594	915/836/714
		CFM	495/425/349	538/492/420
Cooling	Capacity (H/M/L)	kW	4.01/3.61/3.1	4.61/4.33/3.84
	Water flow rate(H/M/L)	m3/h	0.72/0.65/0.56	0.83/0.78/0.69
	Water pressure drop(H/M/L)	kPa	47.1/33.5/29.7	51/39.5/34
Heating	Capacity (H/M/L)	kW	4.39/3.8/3.27	4.55/4.2/3.82
	Water flow rate(H/M/L)	m3/h	0.8/0.69/0.6	0.83/0.76/0.69
	Water pressure drop(H/M/L)	kPa	48.6/40.8/31.7	48/43/33
Power input (H/M/L)		W	60/54/48	72/60/55
Current Input		A	0.22	0.29
Sound pressure level		dB(A)	39/33/28	40/34/29
Fan motor	Type		Low noise 3-speed fan motor	Low noise 3-speed fan motor
	Quantity		1	1
Fan	Type		Tangential fan	Tangential fan
	Quantity		1	1
Coil	Row		2	2
	Diameter	mm	Φ7	Φ7
	Tube pitch(a)×row pitch(b)	mm	21×13.37	21×13.37
	Dimension (W×H×D)	mm	785×315×26.74	785×315×26.74
	Fin spacing	mm	1.5	1.5
	Fin type		Hydrophilic aluminium	Hydrophilic aluminium
	Circuit		5	5
	Max. working pressure	MPa	1.6	1.6
Body	Net dimensions (W×H×D)	mm	1072×315×237	1072×315×237
	Packing size (W×H×D)	mm	1180×415×315	1180×415×315
	Net weight	kg	15.8	15.8
	Gross weight	kg	19.4	19.4
Pipe connections	Water inlet/outlet pipe	inch	G3/4	G3/4
	Drain pipe	mm	ODΦ20	ODΦ20

Notes:

1. H: high fan speed; M: medium fan speed; L: low fan speed
2. Cooling Conditions: Entering Water 7°C, Temperature Rise 5°C, Entering Air Temperature 27°C DB, 19°C WB.
Heating Conditions: Entering Water 50°C, Enter air temperature 20°C, and water flow is same to the cooling conditions.
3. Noise is tested in semi-anechoic test room.

6.3 P type panel

MKG-250-D / MKG-300-D / MKG-400-D

Model			MKG-250-D	MKG-300-D	MKG-400-D
Power supply		V/Ph/Hz	220-240/1/50		
Air flow (H/M/L)		m³/h	435/396/342	523/426/351	660/534/480
		CFM	256/233/201	308/251/206	388/314/282
Cooling	Capacity (H/M/L)	kW	1.94/1.84/1.68	2.64/2.4/1.99	2.94/2.58/2.34
	Water flow rate(H/M/L)	m³/h	0.35/0.33/0.3	0.47/0.43/0.36	0.53/0.46/0.42
	Water pressure drop(H/M/L)	kPa	31.6/28.6/25.2	37.5/30/24	57.2/47.6/38.7
Heating	Capacity (H/M/L)	kW	2.34/2.15/1.94	2.9/2.6/2.22	3.46/2.75/2.52
	Water flow rate(H/M/L)	m³/h	0.43/0.39/0.35	0.53/0.47/0.4	0.63/0.5/0.46
	Water pressure drop(H/M/L)	kPa	35.2/34.9/30	39.3/31.5/25	70.8/55.1/46.2
Power input (H/M/L)		W	35/32/31	47/43/39	50/51/47
Current Input		A	0.11	0.17	0.18
Sound pressure level		dB(A)	30/24/20	35/29/24	37/31/26
Fan motor	Type	Low noise 3-speed fan motor			
	Quantity		1	1	1
Fan	Type	Tangential fan			
	Quantity		1	1	1
Coil	Row		2	2	2
	Diameter	mm	Φ7	Φ7	Φ7
	Tube pitch(a)xrow pitch(b)	mm	21×13.37	21×13.37	21×13.37
	Dimension (W×H×D)	mm	635×315×26.74	635×315×26.74	635×315×26.74
	Fin spacing	mm	1.5	1.5	1.5
	Fin type	Hydrophilic aluminium			
	Circuit		5	5	5
	Max. working pressure	MPa	1.6	1.6	1.6
Body	Net dimensions (W×H×D)	mm	915×290×229	915×290×229	915×290×229
	Packing size (W×H×D)	mm	1020×390×315	1020×390×315	1020×390×315
	Net weight	kg	13	13	13.3
	Gross weight	kg	16.3	16.3	16.7
Pipe connections	Water inlet/outlet pipe	inch	G3/4	G3/4	G3/4
	Drain pipe	mm	ODΦ20	ODΦ20	ODΦ20

Notes:

1. H: high fan speed; M: medium fan speed; L: low fan speed
2. Cooling Conditions: Entering Water 7°C, Temperature Rise 5°C, Entering Air Temperature 27°C DB, 19°C WB.
Heating Conditions: Entering Water 50°C, Enter air temperature 20°C, and water flow is same to the cooling conditions.
3. Noise is tested in semi-anechoic test room.

AC Fan Coil Unit Two-pipe Wall-mounted Series



MKG-500-D / MKG-600-D

Model			MKG-500-D	MKG-600-D
Power supply		V/Ph/Hz	220-240/1/50	
Air flow (H/M/L)		m3/h	841/723/594	915/836/714
		CFM	495/425/349	538/492/420
Cooling	Capacity (H/M/L)	kW	4.01/3.61/3.1	4.61/4.33/3.84
	Water flow rate(H/M/L)	m3/h	0.72/0.65/0.56	0.83/0.78/0.69
	Water pressure drop(H/M/L)	kPa	47.1/33.5/29.7	51/39.5/34
Heating	Capacity (H/M/L)	kW	4.39/3.8/3.27	4.55/4.2/3.82
	Water flow rate(H/M/L)	m3/h	0.8/0.69/0.6	0.83/0.76/0.69
	Water pressure drop(H/M/L)	kPa	48.6/40.8/31.7	48/43/33
Power input (H/M/L)		W	60/54/48	72/60/55
Current Input		A	0.22	0.29
Sound pressure level		dB(A)	39/33/28	40/34/29
Fan motor	Type		Low noise 3-speed fan motor	Low noise 3-speed fan motor
	Quantity		1	1
Fan	Type		Tangential fan	Tangential fan
	Quantity		1	1
Coil	Row		2	2
	Diameter	mm	Φ7	Φ7
	Tube pitch(a)×row pitch(b)	mm	21×13.37	21×13.37
	Dimension (W×H×D)	mm	785×315×26.74	785×315×26.74
	Fin spacing	mm	1.5	1.5
	Fin type		Hydrophilic aluminium	Hydrophilic aluminium
	Circuit		5	5
	Max. working pressure	MPa	1.6	1.6
Body	Net dimensions (W×H×D)	mm	1072×315×232	1072×315×232
	Packing size (W×H×D)	mm	1180×415×315	1180×415×315
	Net weight	kg	15.8	15.8
	Gross weight	kg	19.4	19.4
Pipe connections	Water inlet/outlet pipe	inch	G3/4	G3/4
	Drain pipe	mm	ODΦ20	ODΦ20

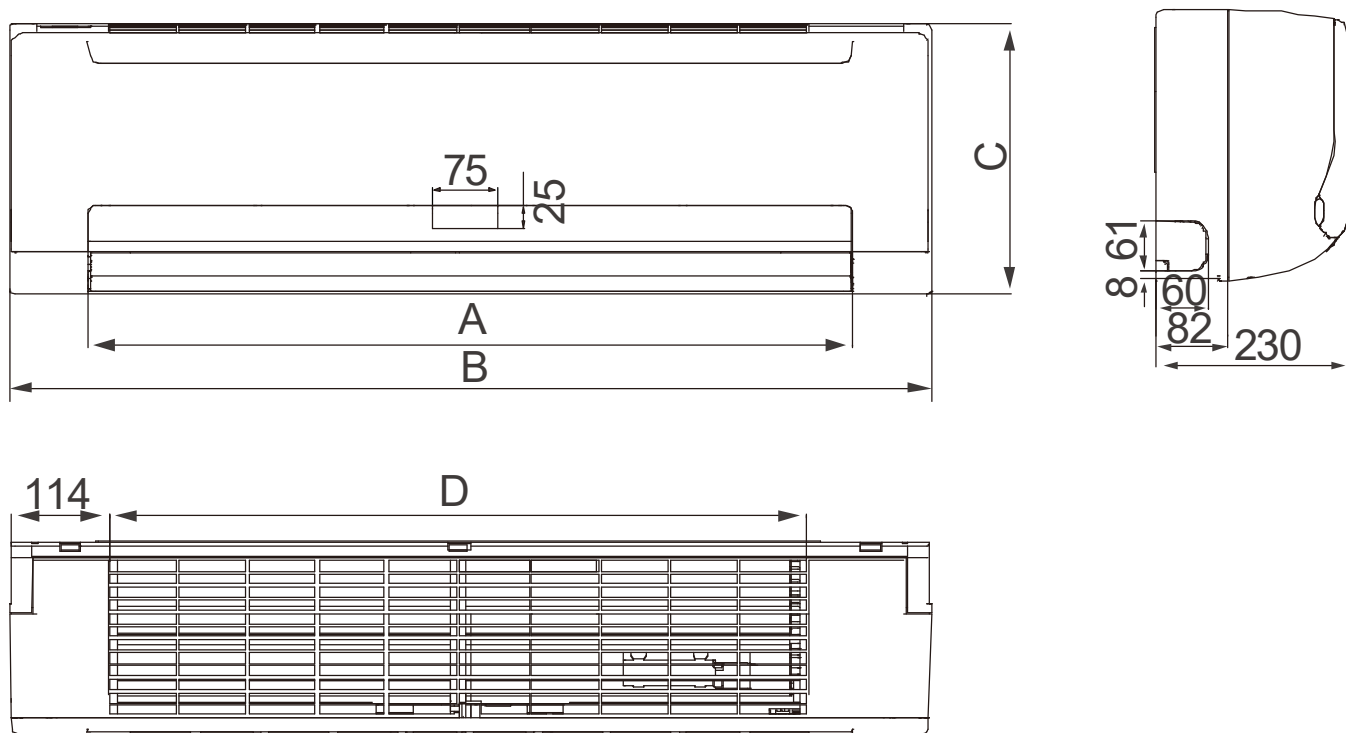
Notes:

1. H: high fan speed; M: medium fan speed; L: low fan speed
2. Cooling Conditions: Entering Water 7°C, Temperature Rise 5°C, Entering Air Temperature 27°C DB, 19°C WB.
Heating Conditions: Entering Water 50°C, Enter air temperature 20°C, and water flow is same to the cooling conditions.
3. Noise is tested in semi-anechoic test room.

7. Dimensions

7.1 S type panel

MKG-250-B, MKG-300-B, MKG-400-B, MKG-500-B, MKG-600-B



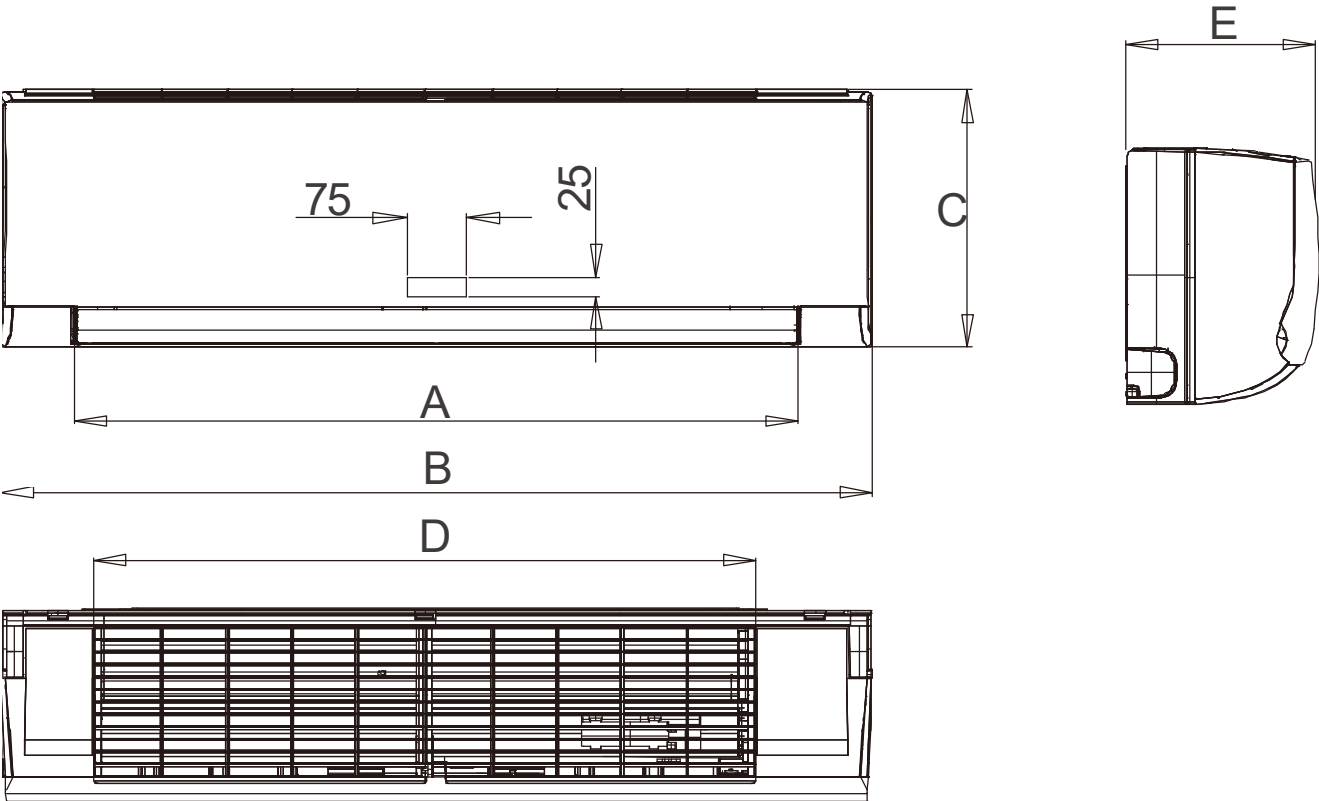
Model	A	B	C	D
MKG-250(300,400)-B	732	915	290	663
MKG-500(600)-B	892	1072	315	813

AC Fan Coil Unit Two-pipe Wall-mounted Series



7.2 A type panel

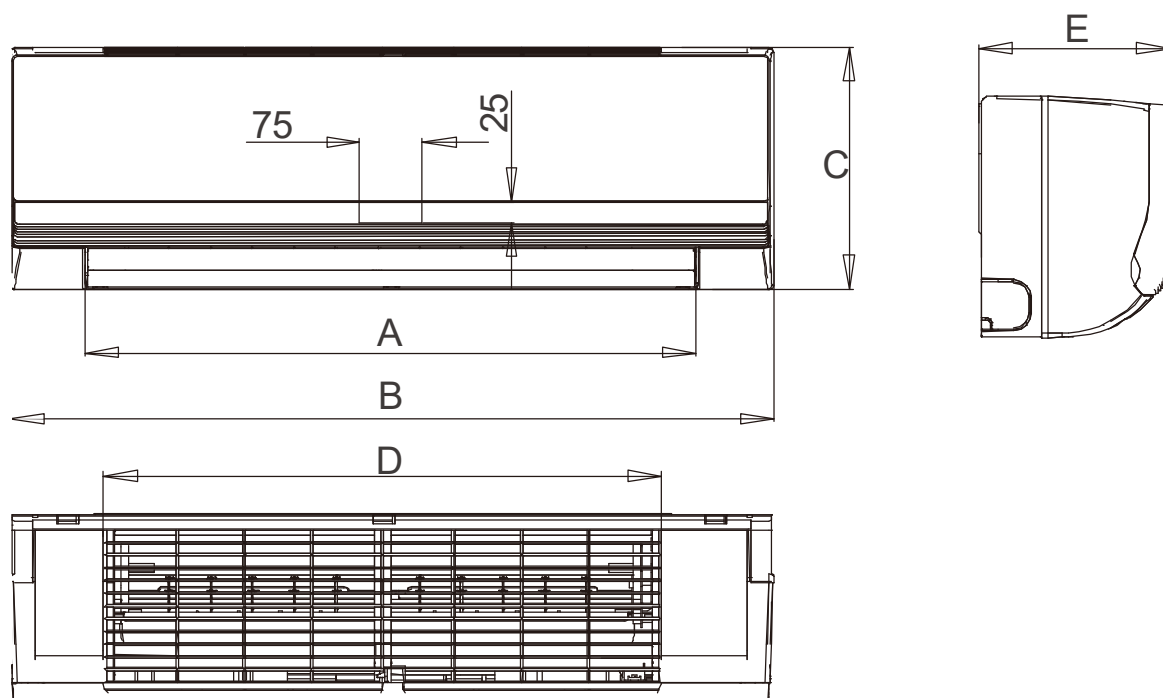
MKG-250-C, MKG-300-C, MKG-400-C, MKG-500-C, MKG-600-C



Model	A	B	C	D	E
MKG-250(300,400)-C	732	915	290	663	233
MKG-500(600)-C	892	1072	315	813	237

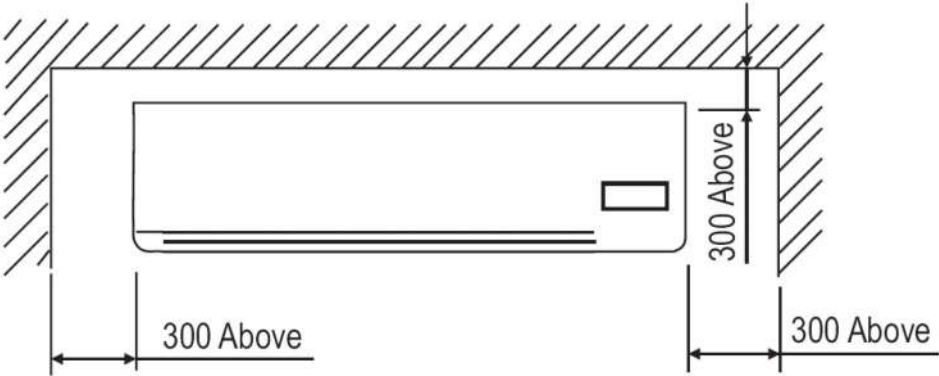
7.3 P type panel

MKG-250-D, MKG-300-D, MKG-400-D, MKG-500-D, MKG-600-D

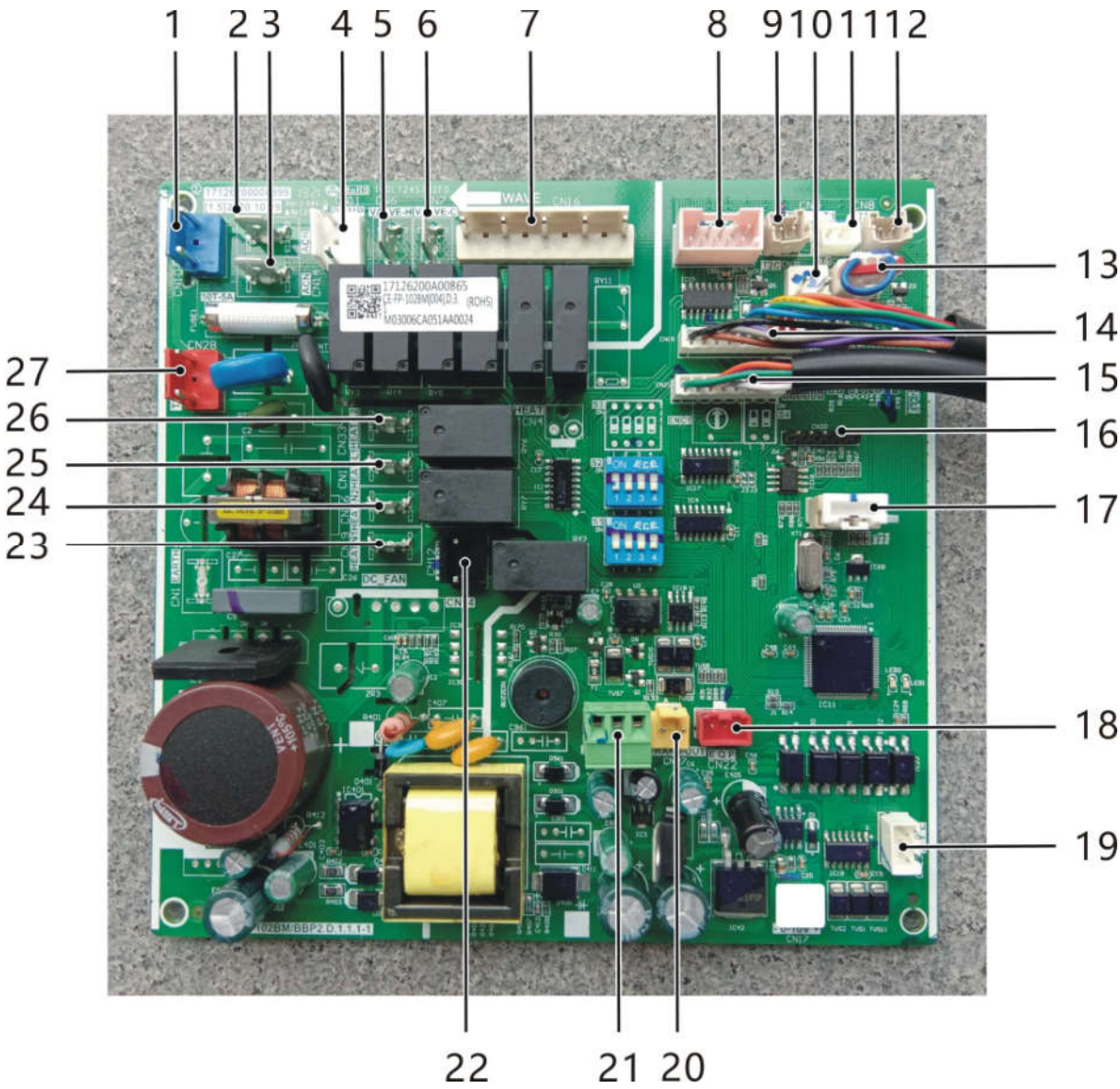


Model	A	B	C	D	E
MKG-250(300,400)-D	732	915	290	663	229
MKG-500(600)-D	892	1072	315	813	232

8. Service Spaces



9. Main PCB ports



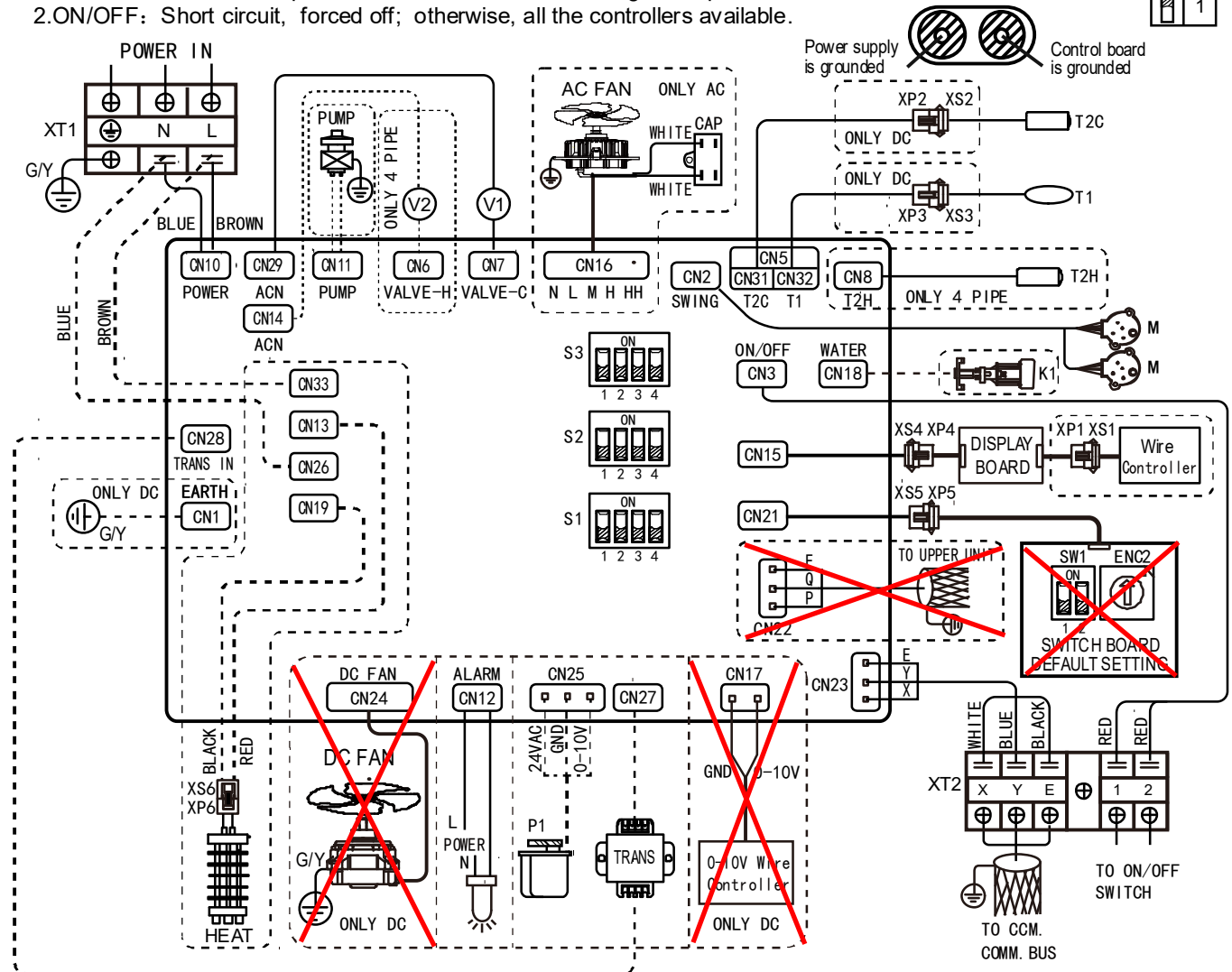
Main PCB port description:

No.	Bit No.	Description	Remarks
1	CN10	POWER: Mains input	Standard
2	CN29	CAN: Cooling and heating 2-way/3-way valve null line	Standard
3	CN14	ACN: Cooling and heating 2-way/3-way valve null line	Reserved
4	CN11	PUMP: Water pump output port	Reserved (the whole machine cannot be realized)
5	CN6	VALVE-H: Heating 2-way/3-way valve live line	Customized
6	CN7	VALVE-C: Cooling 2-way/3-way valve live line	Standard
7	CN16	N: Null line output port for AC fan	Standard
		L: Low fan speed output port for AC fan	
		M: Medium fan speed output port for AC fan	
		H: High fan speed output port for AC fan	
		HH: Super-high wind profile reserved port for AC fan	
8	CN2	SWING: Swing motor port	Standard
9	CN31	T2C: Refrigerating pipe temperature sensor port	Standard
10	CN3	ON/OFF: Remote on/off port	Standard
11	CN32	T1: Room temperature sensor port	Standard
12	CN8	T2H: Heating pipe temperature sensor port	Customized
13	CN18	WATER: Water level switch port	Reserved (the whole machine cannot be realized)
14	CN15	DISPLAY: Display panel docking port (nine pin)	Standard
15	CN21	Dial code small board docking port	Standard
16	CN20	E - side program burning port	Standard
17	CN9	DEBUG: Main control program burn port	Standard
18	CN22	PQE: Modbus communication port <i>в наших моделях -</i>	<i>ВІДСУТНІЙ</i>
19	CN23	XYE: Centralized control communication port	Standard
20	CN27	TRANS OUT: 0-10V value powered linear transformer secondary	Customized
21	CN25	0-10V valve control signal output	Customized
22	CN12	ALARM: Fault alarm output	Customized
23	CN19	Electrically heated N-wire control port 1	Customized
24	CN26	Electrically heated N-wire control port 2	Customized
25	CN13	Electrically heated L-wire control port 1	Customized
26	CN33	Electrically heated L-wire control port 2	Customized
27	CN28	TRANS IN: 0-10V valve powered linear transformer primary	Customized

10. Wiring Diagrams

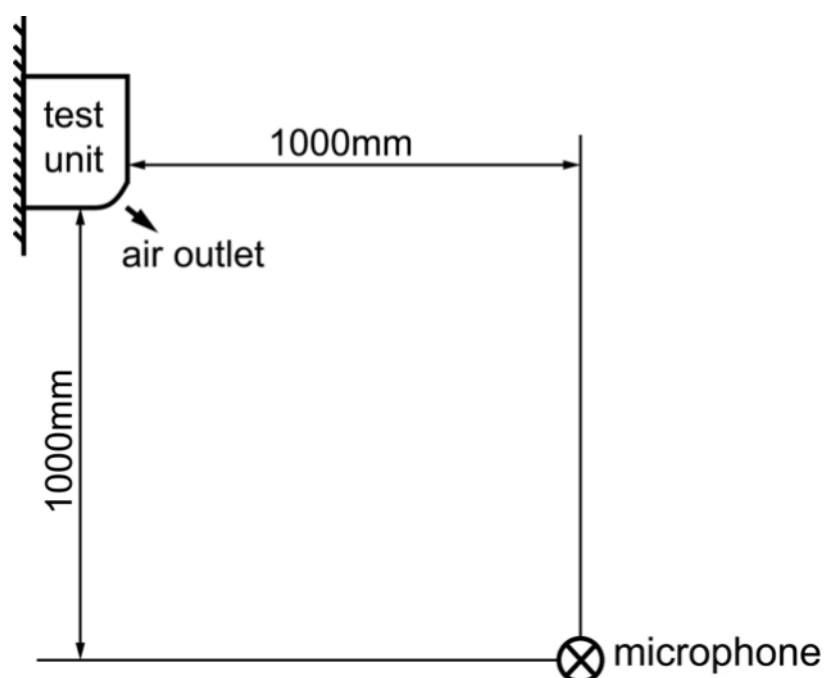
NOTE:

- 1.ALARM: Error codes or protections occurred , a closed signal output.
- 2.ON/OFF: Short circuit, forced off; otherwise, all the controllers available.



S1	S1-1		Turn on E-heater and heating valve (default)
			Turn on E-heater, turn off heating valve
	S1-2		Normal anti-cold wind(default)
			High temperature anti-cold wind
	S1-3		Without force blowing(default)
			Force Blowing
	S1-4		2 pipe
			4 pipe
	S2		Temp.compensation value is 0 under cool mode(default)
			Temp.compensation value is 1 under cool mode
			emp.compensation value is 2 under cool mode
			Temp.compensation value is 3 under cool mode
			Temp.compensation value is 3 under heat mode(default)
			Temp.compensation value is 1 under heat mode
S3	ENC2 & SW1		250CFM
			300CFM
			400CFM
			500CFM
			600CFM

11. Sound Levels

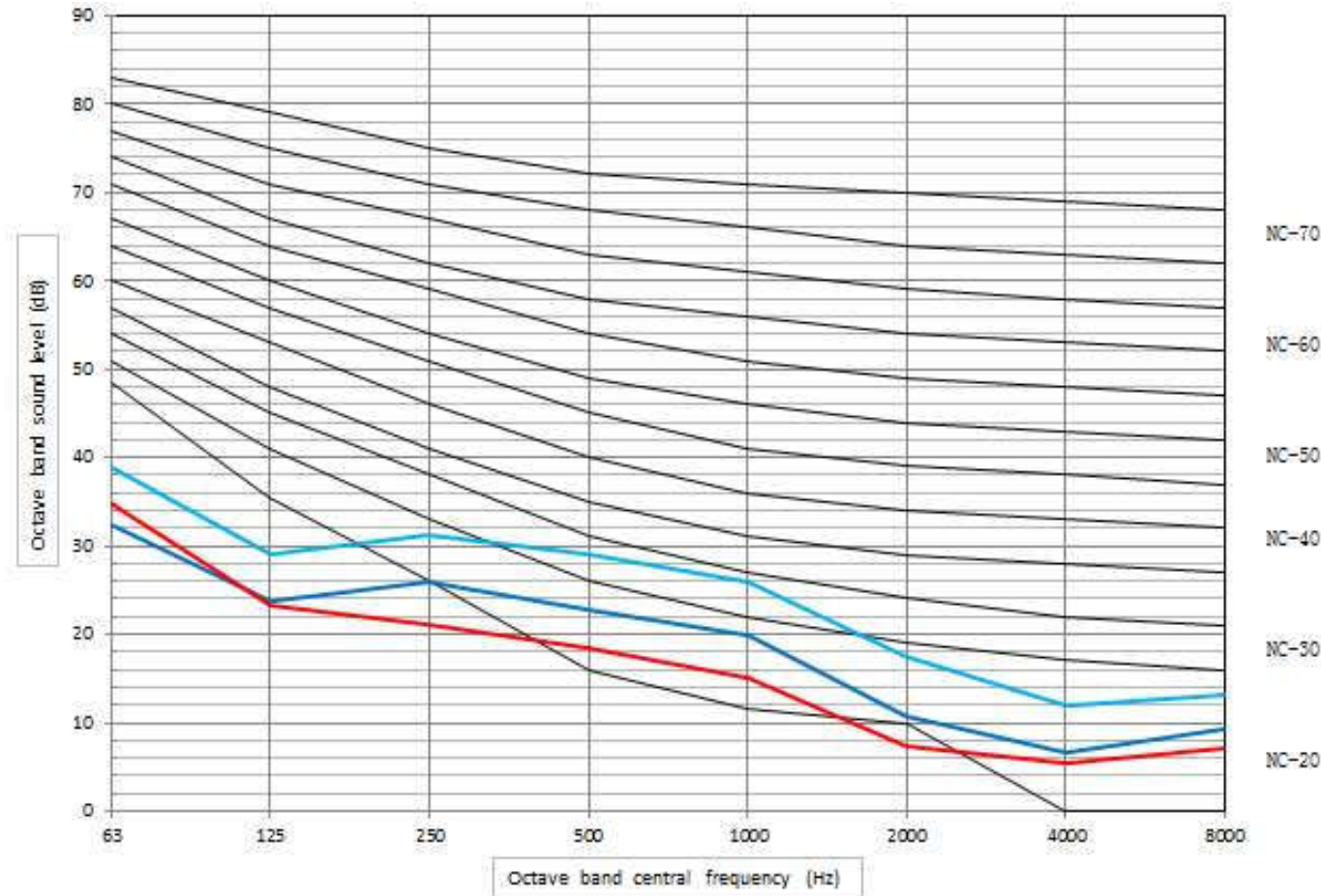


Series	Model	Noise level under three speeds of fan [dB(A)]		
		H	M	L
S panel	MKG-250-B	30	24	20
	MKG-300-B	35	29	24
	MKG-400-B	37	31	26
	MKG-500-B	39	33	28
	MKG-600-B	40	34	29
A panel	MKG-250-C	30	24	20
	MKG-300-C	35	29	24
	MKG-400-C	37	31	26
	MKG-500-C	39	33	28
	MKG-600-D	40	34	29
P panel	MKG-250-D	30	24	20
	MKG-300-D	35	29	24
	MKG-400-D	37	31	26
	MKG-500-D	39	33	28
	MKG-600-D	40	34	29

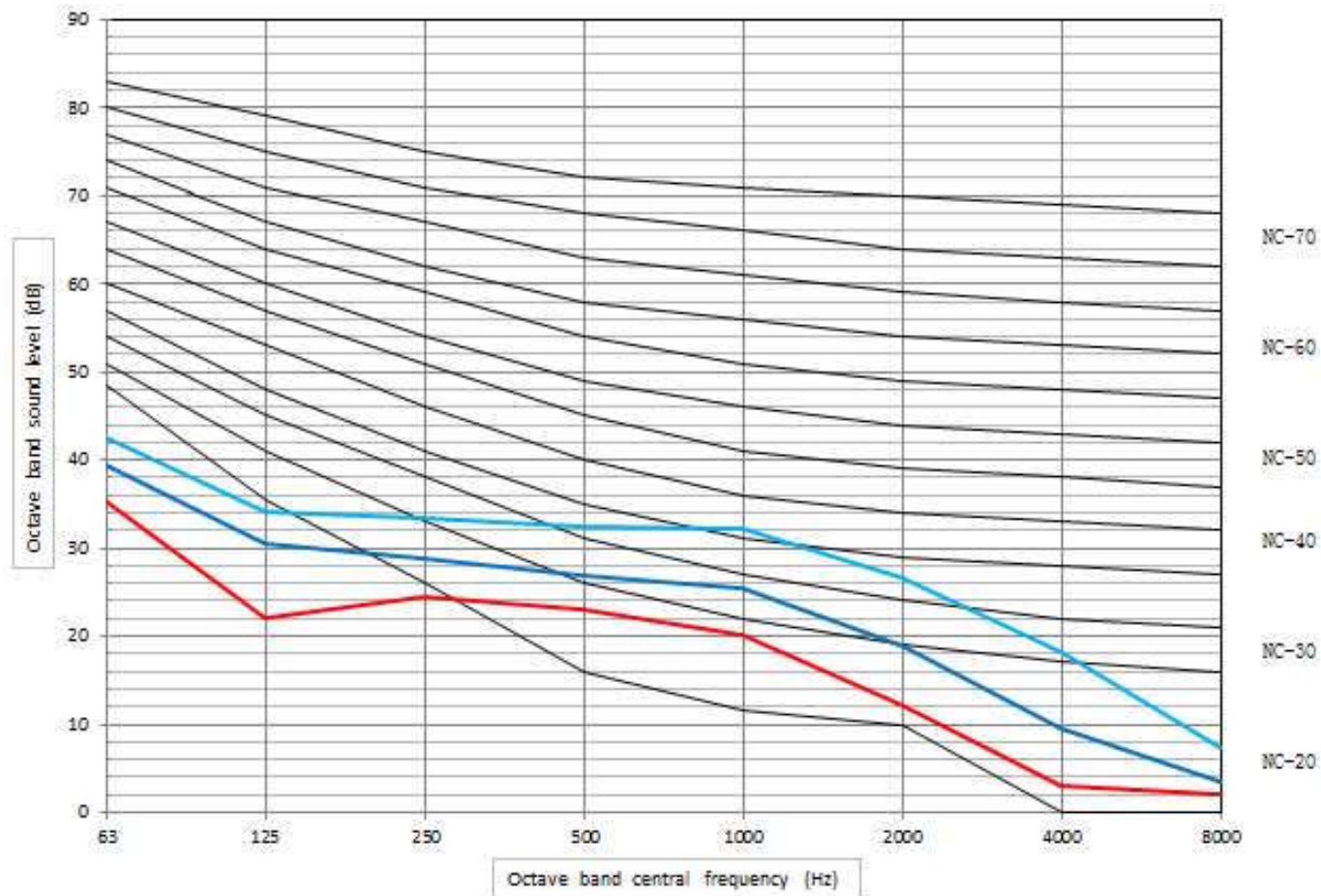
AC Fan Coil Unit Two-pipe Wall-mounted Series



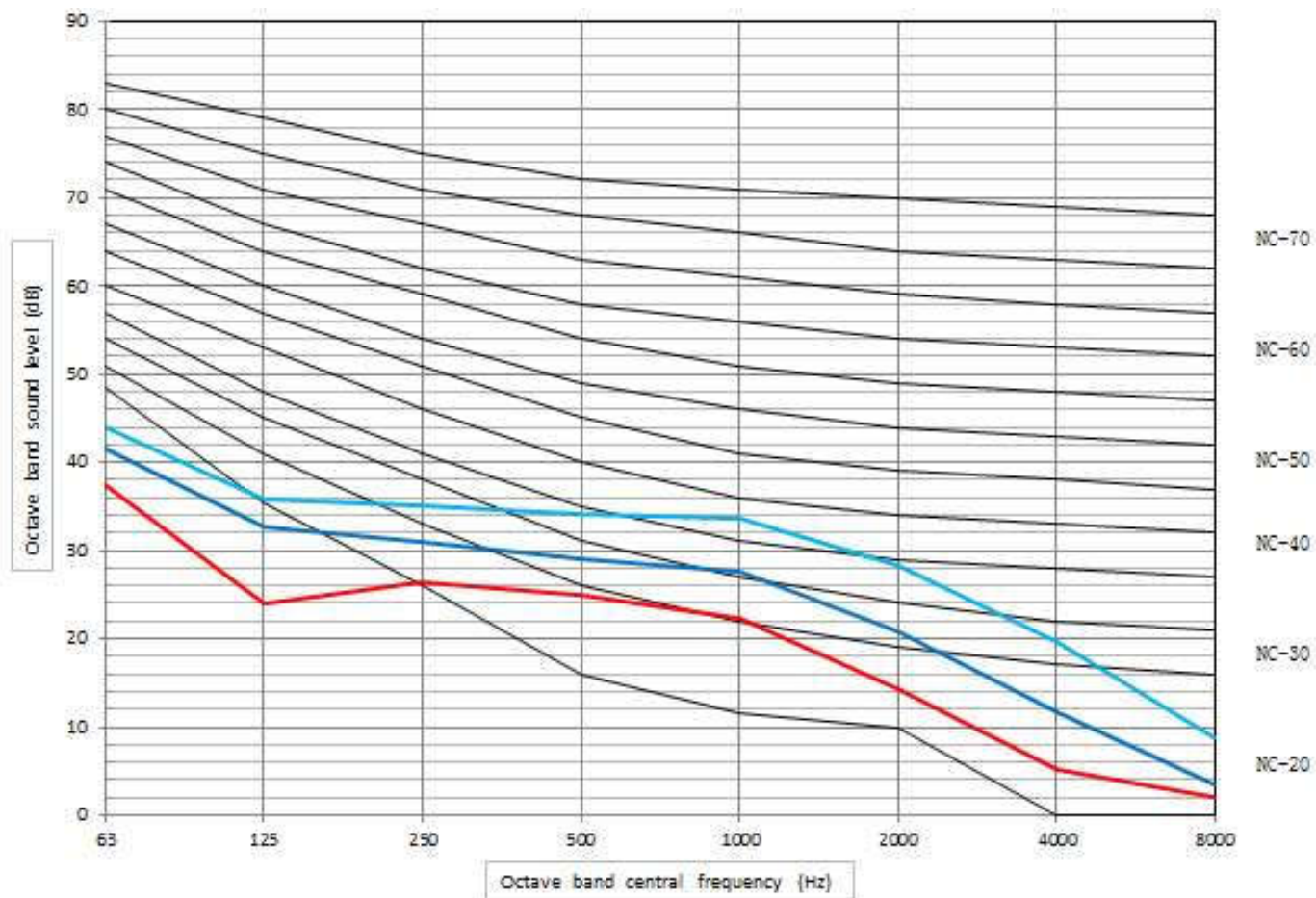
MKG-250-B / MKG-250-C / MKG-250-D



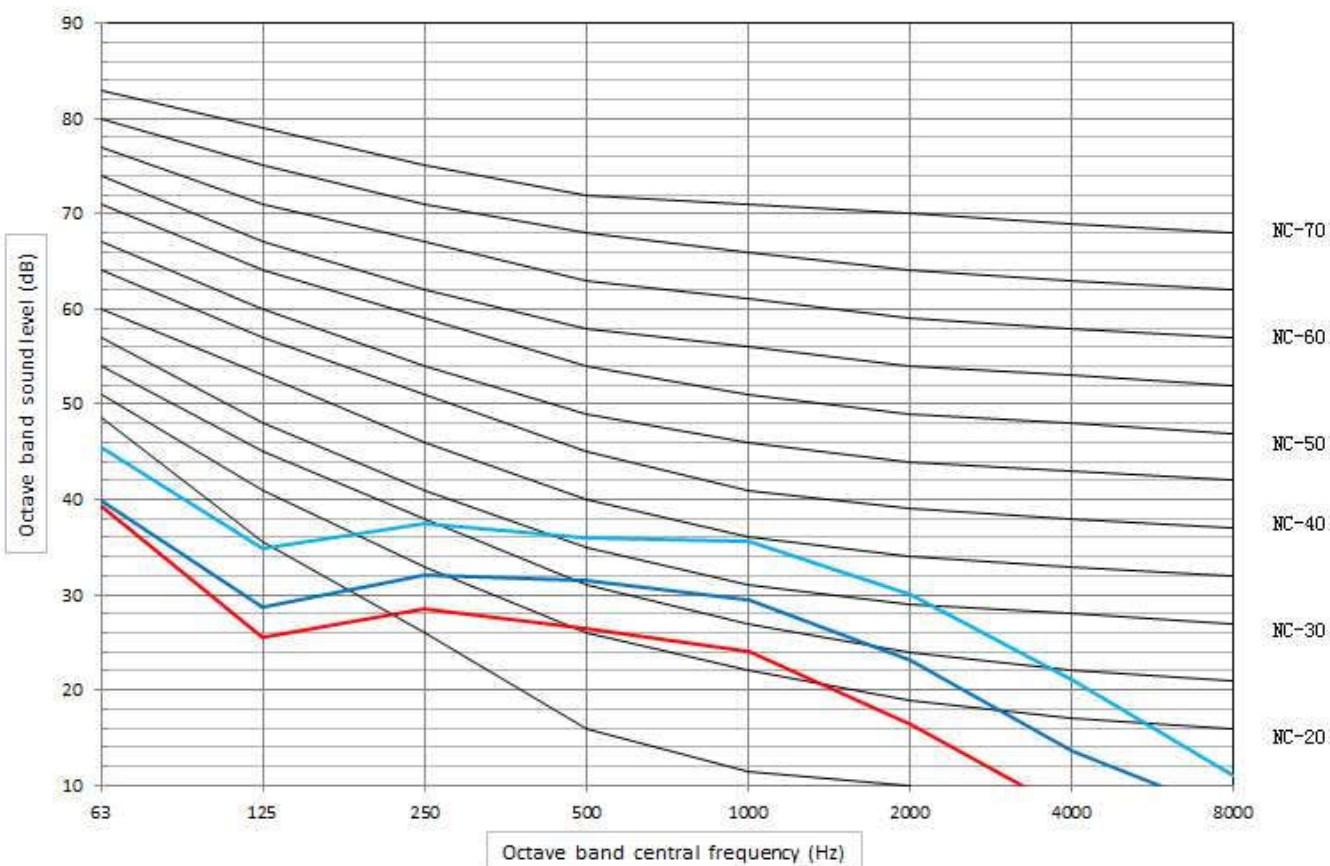
MKG-300-B / MKG-300-C / MKG-300-D



MKG-400-B / MKG-400-C / MKG-400-D

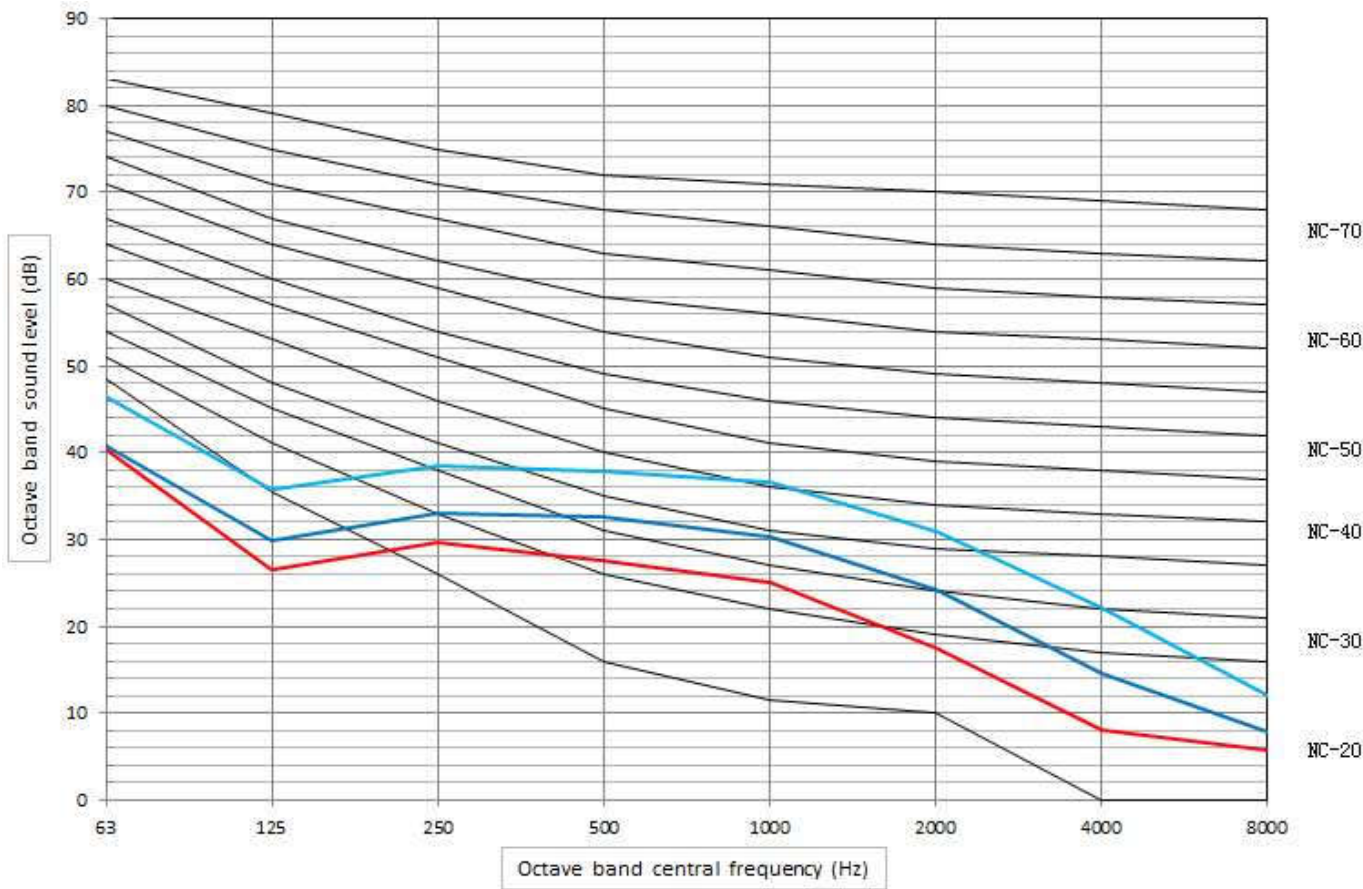


MKG-500-B / MKG-500-C / MKG-500-D





MKG-600-B / MKG-600-C / MKG-600-D



12. Installation

12.1 Installation Attention

1. Warning:

- **Be sure only trained and qualified service personnel to install, repair or service the equipment.**
Improper installation, repair, and maintenance may result in electric shocks, short-circuit, leaks, fire or other damage to the equipment.
 - **Install according to this installation instruction strictly.**
 - **If installation is defective, it will cause water leakage, electrical shock and fire.**
 - **When installing the unit in a small room, take measures against to keep water concentration from exceeding allowable safety limits in the event of water leakage.**
Contact the place of purchase for more information.
 - **Use the attached accessories parts and specified parts for installation.**
Otherwise, it will cause the set to fall, water leakage and electrical shock fire.
 - **Install at a strong and firm location which is able to withstand the set's weight.**
If the strength is not enough or installation is not properly done, the set will drop to cause injury.
 - **The appliance must be installed 2.3m above floor.**
 - **The appliance shall not be installed in the laundry.**
 - **Before obtaining access to terminals, all supply circuits must be disconnected.**
 - **The appliance must be positioned so that the plug is accessible.**
 - **The enclosure of the appliance shall be marked by word, or by symbols, with the direction of the fluid flow.**
 - **For electrical work, follow the local national wiring standard, regulation and this installation instruction. An independent circuit and single outlet must be used.**
If electrical circuit capacity is not enough or defect in electrical work, it will cause electrical shock fire.
 - **Use the specified cable and connect tightly and clamp the cable so that no external force will be acted on the terminal.**
If connection or fixing is not perfect, it will cause heat-up or fire at the connection.
 - **Wiring routing must be properly arranged so that control board cover is fixed properly.**
 - **If control board cover is not fixed perfectly, it will cause heat-up at connection point of terminal, fire or electrical shock.**
If the supply cord is damaged, it must be replaced by the manufacture or its service agent or a similarly qualified person in order to avoid a hazard.
 - **An all-pole disconnection switch having a contact separation of at least 3mm in all poles should be connected in fixed wiring.**
 - **Do not modify the length of the power supply cord or use of extension cord, and do not share the single outlet with other electrical appliances.**
Otherwise, it will cause fire or electrical shock.
 - **Carry out the specified installation work after taking into account strong winds, typhoons or earthquakes.**
Improper installation work may result in the equipment falling and causing accidents.
 - **If the water leaks during installation, ventilate the area immediately.**
 - **After completing the installation work, check that water does not leak.**
- #### 2. Caution:
- **Ground the air conditioner.**
Do not connect the ground wire to gas or water pipes, lightning rod or a telephone ground wire. Incomplete grounding may result in electric shocks.
 - **Be sure to install an earth leakage breaker.**
Failure to install an earth leakage breaker may result in electric shocks.

AC Fan Coil Unit Two-pipe Wall-mounted Series

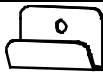
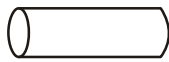


- **Connect the outdoor unit wires, then connect the indoor unit wires.**
You are not allowed to connect the air conditioner with the power source until wiring and piping the air conditioner is done.
- **While following the instructions in this installation manual, install drain piping in order to ensure proper drainage and insulate piping in order to prevent condensation.**
Improper drain piping may result in water leakage and property damage.
- **Install the indoor and outdoor units, power supply wiring and connecting wires at least 1 meter away from televisions or radios in order to prevent image interference or noise.**
Depending on the radio waves, a distance of 1 meter may not be sufficient enough to eliminate the noise.
- **The appliance is not intended for use by young children or infirm persons without supervision.**
- **Don't install the air conditioner in the following locations:**
 - There is petrolatum existing.
 - There is salty air surrounding (near the coast).
 - There is caustic gas (the sulfide, for example) existing in the air (near a hot spring).
 - The Volt vibrates violently (in the factories).
 - In buses or cabinets.
 - In kitchen where it is full of oil gas.
 - There is strong electromagnetic wave existing.
 - There are inflammable materials or gas.
 - There is acid or alkaline liquid evaporating.
 - Other special conditions.

3. Installation Order:

- Select the location;
- Install the indoor unit;
- Install the outdoor unit;
- Connect the drain pipe;
- Wiring;
- Test operation.

12.2 Accessory

Name	Shape	Quantity	Function
Installation board		2	_____
Screw ST3.9x25 for installation board		3	Secure the installation board
Plastic expanded tube		3	_____
Wrapping tape		1	_____
Drain pipe		2	_____
Sealing clay		2	_____
Wall conduit cover		1	_____
Remote controller (including operation manual)		1	_____
Frame		1	Hold the remote controller
Mounting screw(ST2.9×10-C-H)		2	Insulation Holder for remote controller
Alkaline dry batteries (AM4)		2	_____
Owner's manual	_____	1	_____
Installation manual	_____	1	_____
12. seal gasket		4	For connecting water pipe

12.3 Inspecting and Handling the unit

At delivery, the package should be checked and any damage should be reported immediately to the carrier claims agent.

When handling the unit, take into account the following:

-  Fragile, handle the unit with care.
-  Keep the unit upright in order to avoid compressor damage.
- Choose on beforehand the path along which the unit is to be brought in.
- Move this unit as originally package as possible.
- When lifting the unit, always use protectors to prevent belt damage and pay attention to the position of the unit's center of gravity.

12.4 Indoor Unit Installation

12.4.1 Installation place

Installation in the following places may cause trouble. If it is unavoidable, please consult with the local dealer.

- A place full of machine oil.
- A saline place such as coast.
- A place full of sulfide gas such as hot-spring resort.
- Places where there are high frequency machines such as wireless equipment, welding

AC Fan Coil Unit Two-pipe Wall-mounted Series



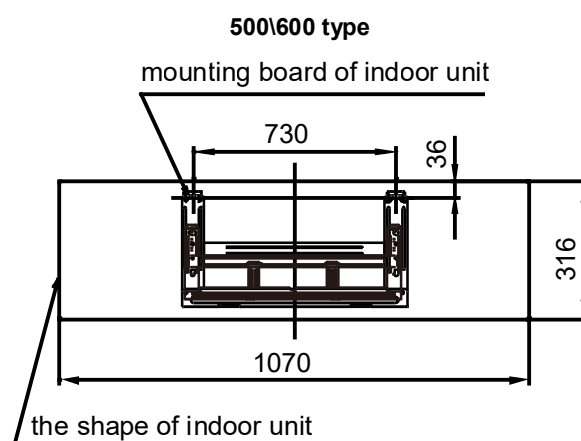
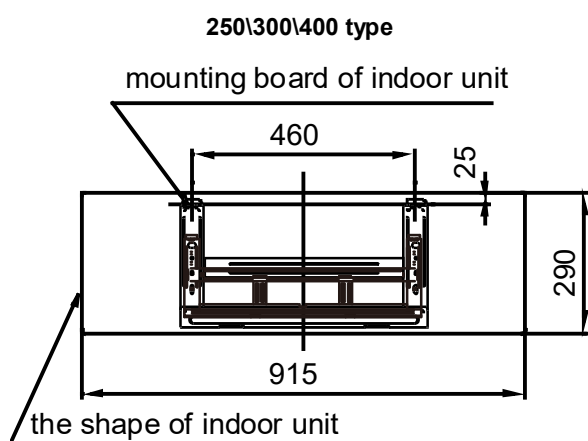
- Machine and medical facility.
- A place there is no combustive gases and volatile matter.
- A place of special environmental conditions.

Installation in the following places:

- A place where is no obstacle near the inlet and outlet area.
- A place which can bear the indoor unit.
- A place which is convenient to maintenance.
- A place which provides the space around the indoor unit as required right in the diagram.
- There is strong electromagnetic wave existing.
- A place which is far from heat, steam and inflammable gas.

12.4.2 Drilling A Hole and Mounting Installation Board

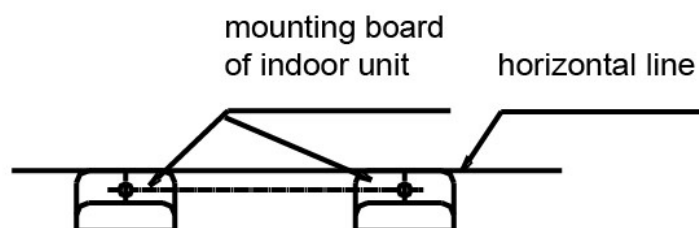
Installation Board and Its Direction (unit: mm)



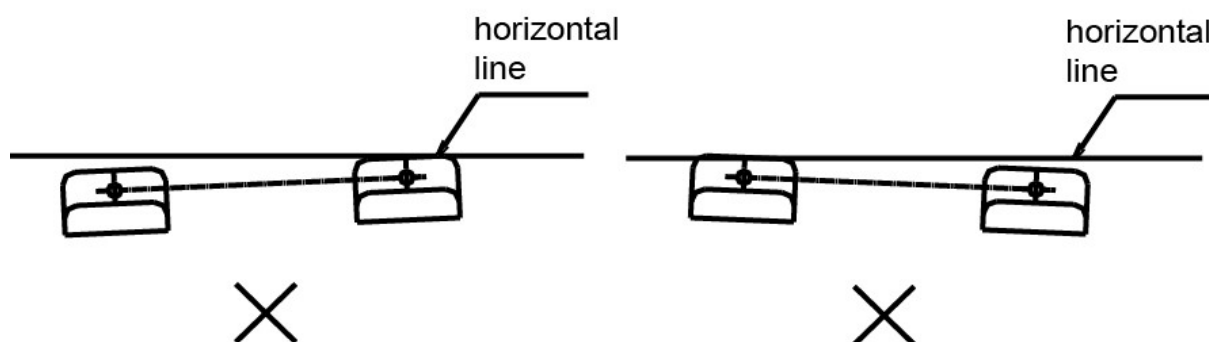
1. Fix the installation board

- Install the installation board horizontally on structural parts on the wall with the spaces provided around the plate.
- In case of brick, concrete or similar type walls, make 5mm dia. holes on the wall. Insert clip anchors for appropriate mounting screws.
- Fix the installation board on the wall.

Right installation



False installation



2. Drilling a hole

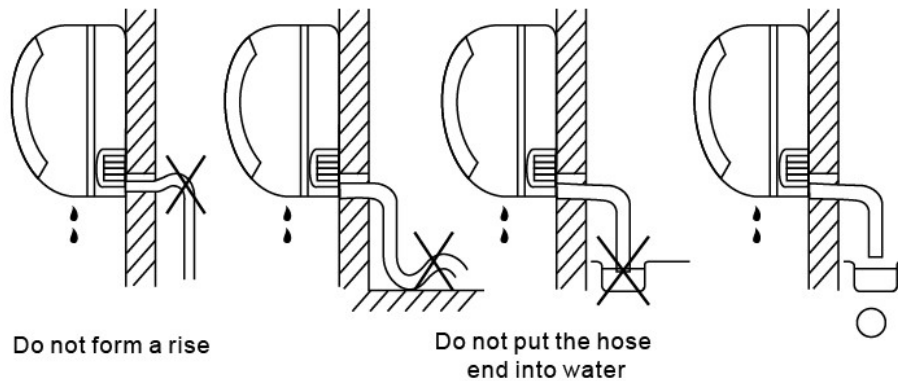
- Determine the pipe hole position using the installation board, and drill the pipe hole (N95mm) so it slants slightly downward.

- Always use a wall hole conduit when piercing metal lath, ply wood or metal plate.

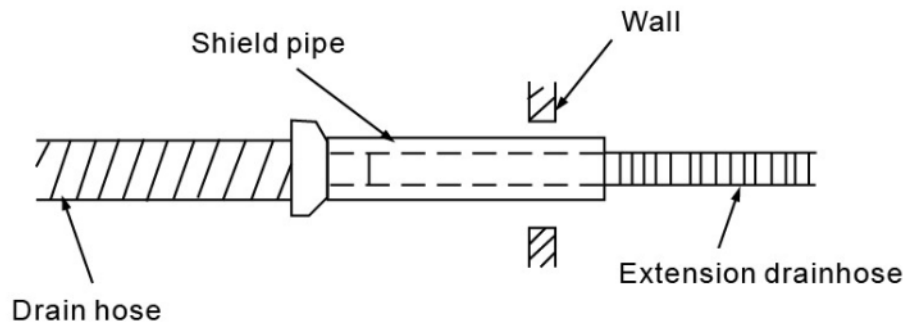
12.4.3 Connective Pipe and Drainage Installation

1. Drainage

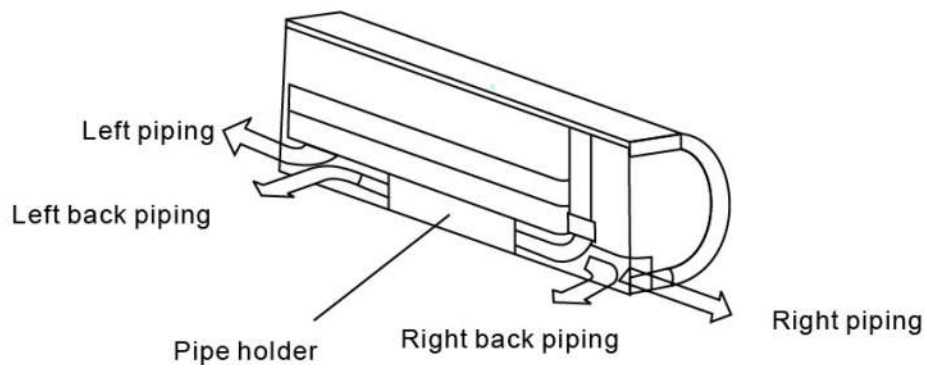
Run the drain hose sloping downward. Do not install the drain hose as illustrated below.



When connection extension drain hose, insulate the connecting part of extension drain hose with a shield pipe.

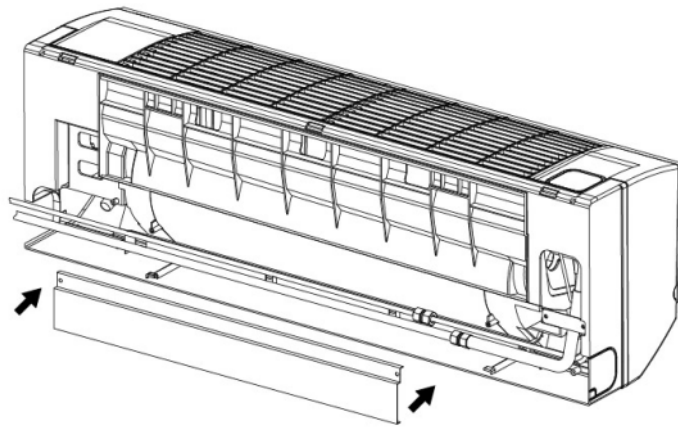


2. Connection pipe

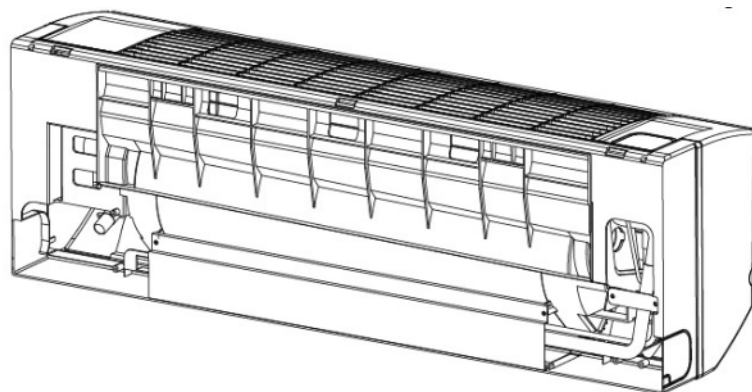


1) When install the water pipe of G unit, please following it

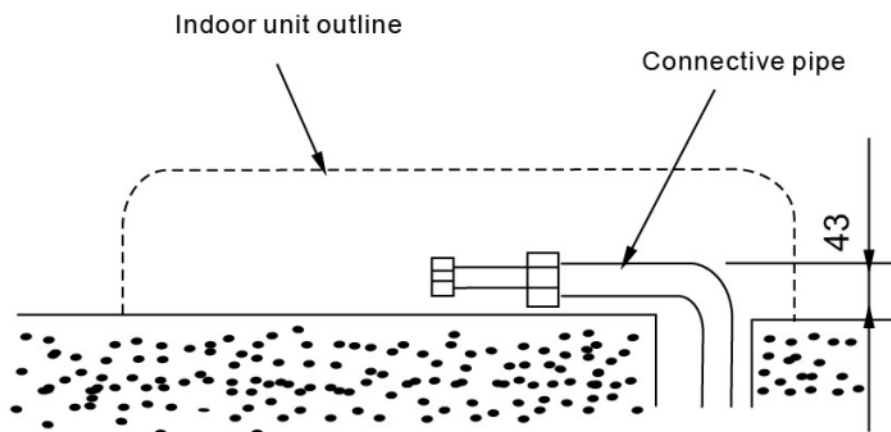
- a) Put down two screws between the pipe holder and unit, and then get down pipe holder. (Refer to the following fig)



- b) Connect pipe.
c) Install the pipe holder. (Refer to the following fig)



2) For the left-hand and rear-left-hand piping, install the piping as shown. Bend the connective pipe to be laid at 43mm height or less from the wall.



3) Fix the end of the connective pipe.

Caution:

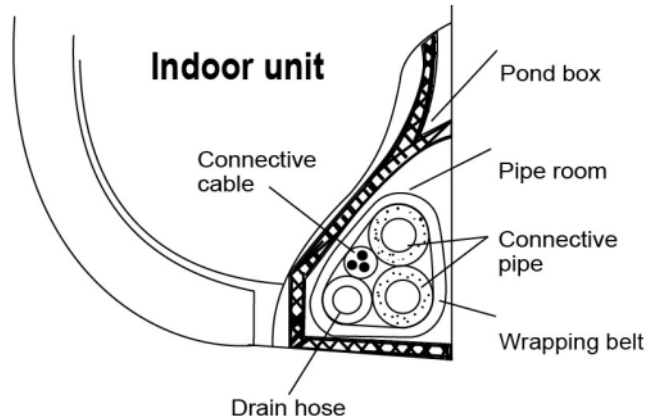
- Connect the indoor unit first then the outdoor unit and bend and arrange the pipe carefully.
- Do not allow the piping to let out from the back of the indoor unit.
- Be careful not to let the drain hose slack.
- Insulate both of the auxiliary piping.
- Banding the drain hose under the auxiliary pipe.
- Do not allow the piping to let out from the back of the indoor unit.

3. Piping and bandaging

Wind the connective cable, drain hose and wiring with tape securely, evenly as shown below.

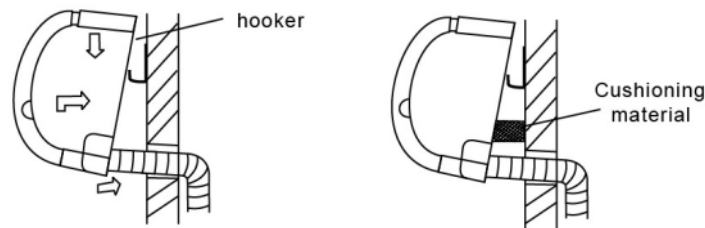
Because the condensed water from rear of the indoor unit is gathered in Pond Box and is piped out of room. Do not

put anything else in the box.

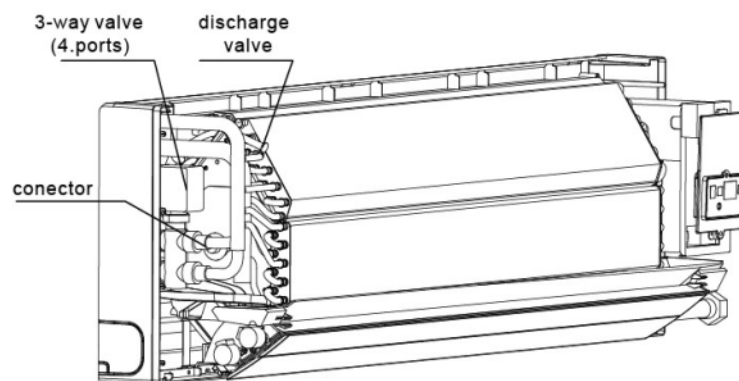


12.4.4 Indoor Unit Installation

- Pass the piping through the hole in the wall.
- Put the claw at the back of the indoor unit on the hook of the installation board, move the Indoor Unit from side to side to see that it is securely hooked.
- Piping can easily be made by lifting the indoor unit with a cushioning material between the indoor unit and the wall. Get it out after finish piping.
- Push the lower part of the Indoor Unit up to the wall, then move the Indoor Unit from side to side, up and down to check if it is hooked securely.



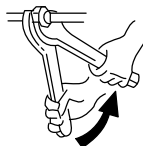
12.5 Water Pipe Installation



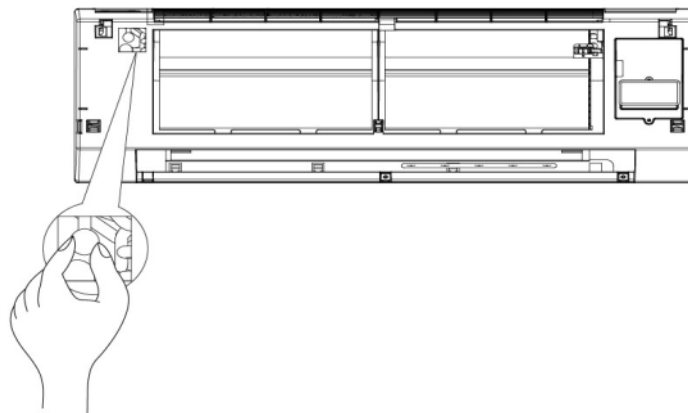
Material and Size of the Piping

Pipe material	Copper Pipe for Air Conditioner	
Model	250/300/400	500/600
Coil connections (flat plate)	3/4"	3/4"
	3/4"	3/4"

Connection of the water pipe should be done by professionals. Double-span should be used when connecting pipes of Indoor Unit.



At the first debugging, completely expel air from coils via expelling valve.

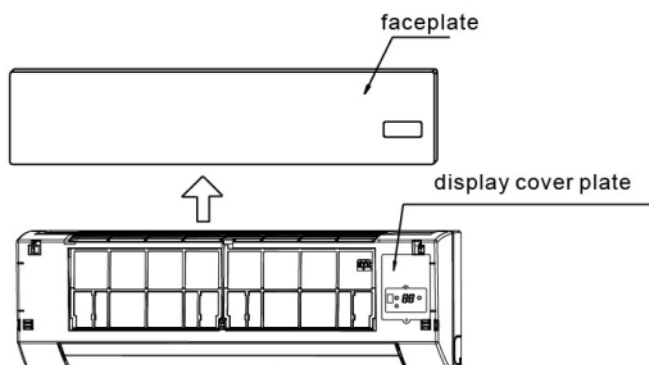


12.6 Wiring

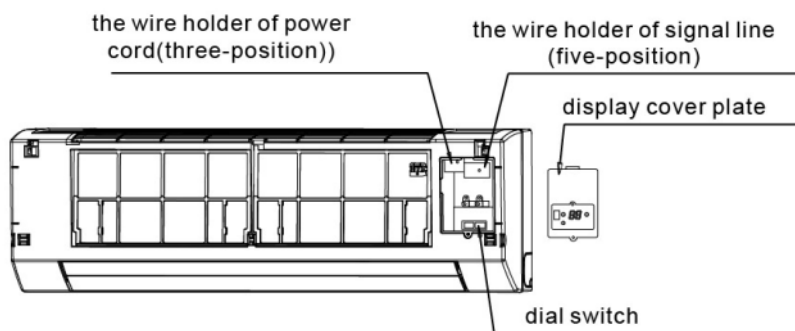
Cautions:

- The reserved function is indicated in broken line table, users can select it when necessary.
- An all-pole disconnection device which has at least 3mm separation distance in all pole and a residual current device (RCD) with the rating of above 10mA shall be incorporated in the fixed wiring according to the national rule.
- The appliance shall be installed in accordance with national wiring regulations.

Take out the faceplate, and then dismantle the display cover.



Individual connect the power cord and signal line, adjust the dial switch.

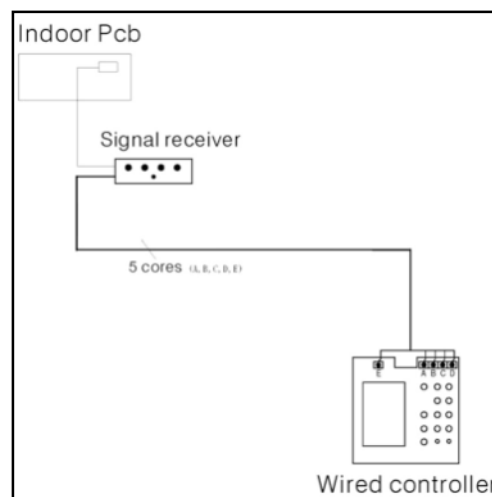
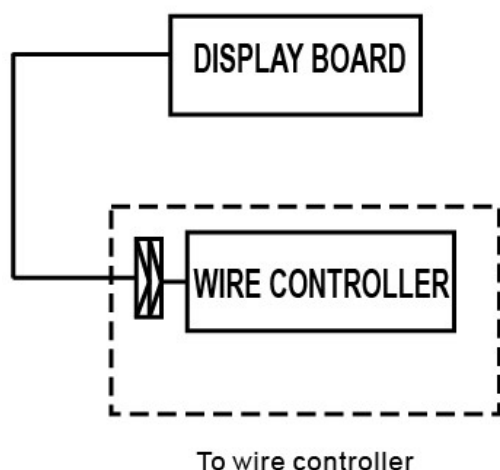


12.6.1 Terminal Board Diagram

The wiring diagram please refers to chapter 9.

Note:

The air-conditioners can connect with Central Control Monitor (CCM). Before operation, please wiring correctly and set system address and network address of indoor units.



Insert 2 & 3 together is OK

The reserved wire control function is indicated in broken line table, users can purchase the wire controller when necessary.

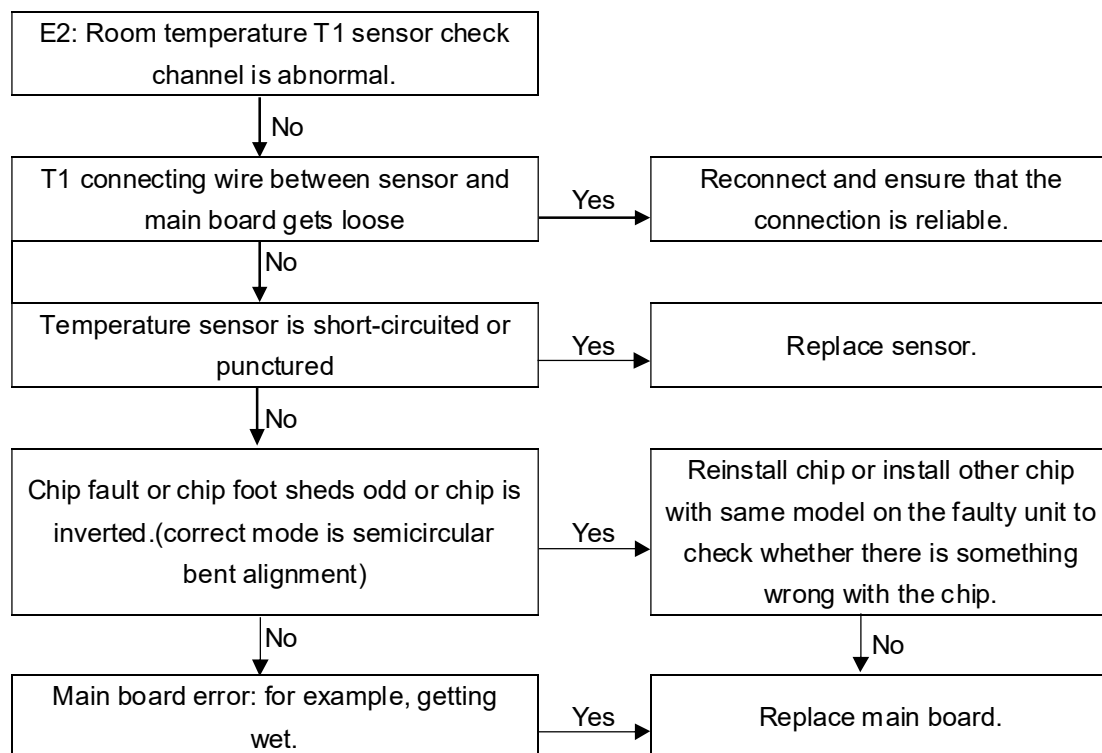
12.7 Trouble-shooting

Malfunction code	Malfunction
E2	Room temperature T1 sensor check channel is abnormal.
E3	Evaporator sensor checking channel is abnormal.(T2C)
E4	Evaporator sensor checking channel is abnormal.(T2H)
E7	EEprom malfunction.
E8	Fan failure.
P0	Anti-freezing protection
P1	Excess water temperature protection
EE	Water-level switch malfunction.
PF	Not set models
---	Indoor unit switch at long-range controller is dialed to OFF

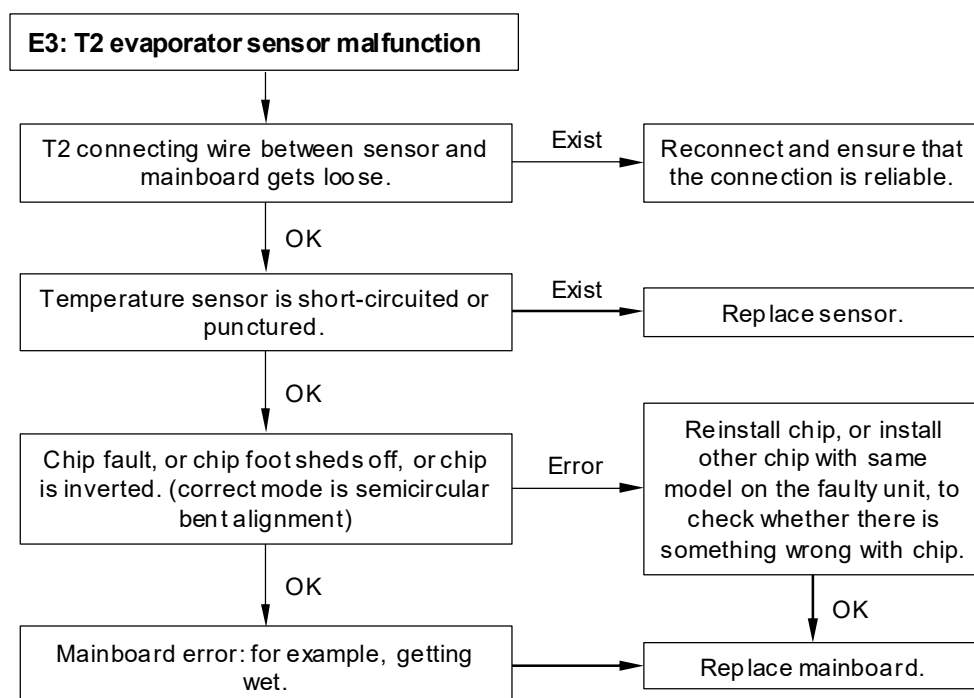
AC Fan Coil Unit Two-pipe Wall-mounted Series



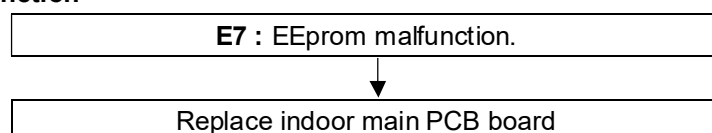
12.7.1 E2: Room temperature T1 sensor check channel is abnormal.



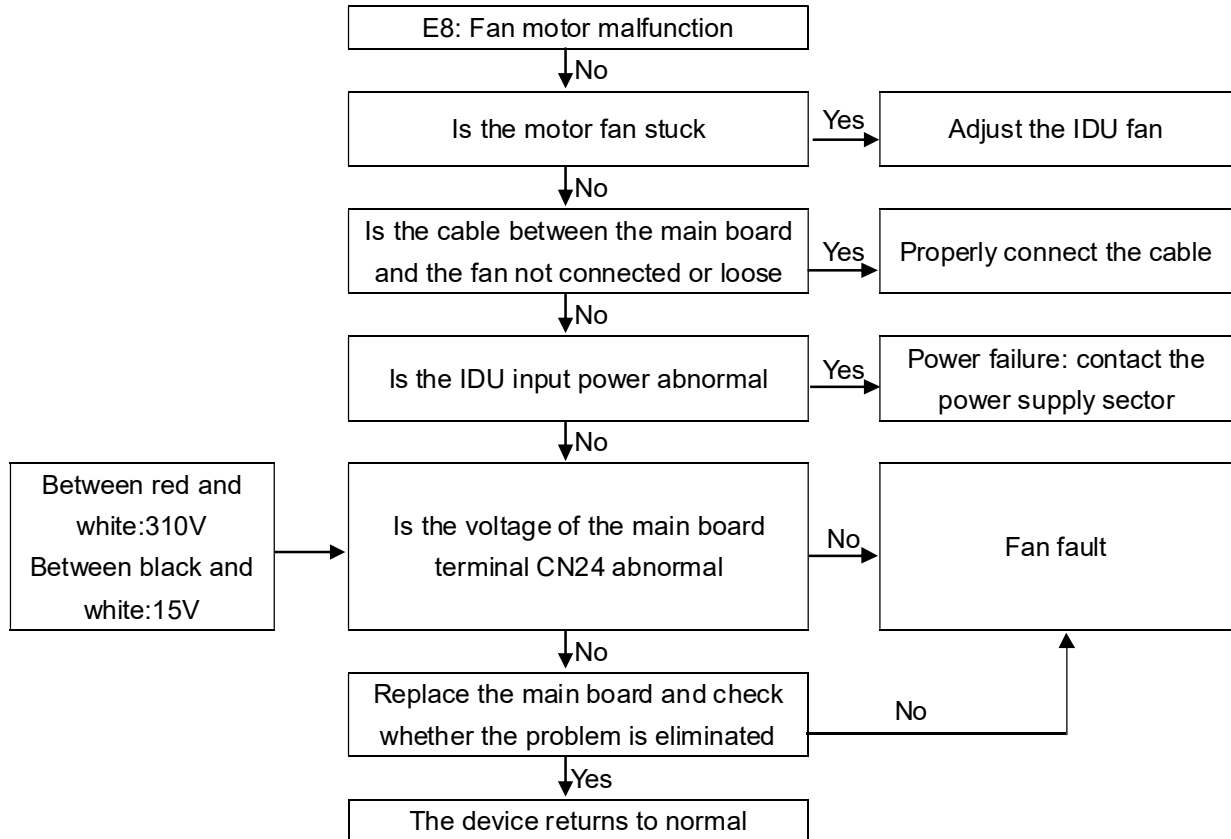
12.7.2 E3: T2 evaporator sensor malfunction



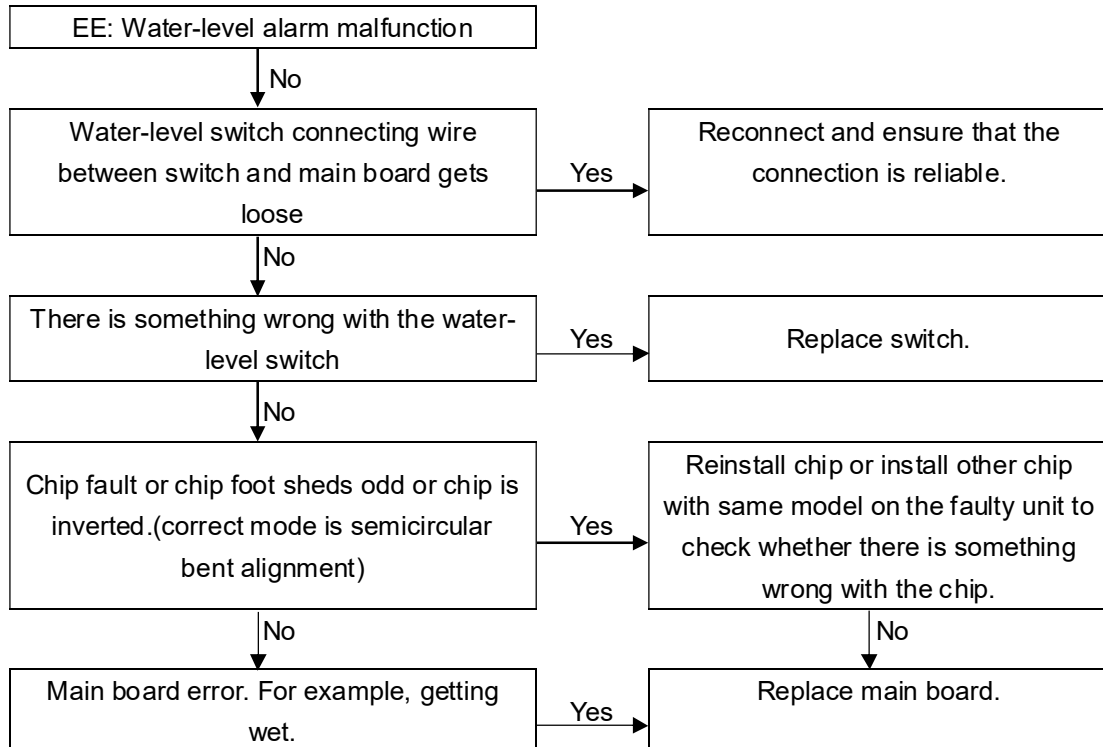
12.7.3 E7: EEprom malfunction



12.7.4 E8: Fan motor malfunction



12.7.5 EE: Water-level switch malfunction



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12.8 Troubles and causes of air conditioner

If one of the following malfunctions occur, stop operation, shut off the power, and contact with your dealer.

- The operation lamp is flashing rapidly (twice every second)
- This lamp is still flashing rapidly after turn off the power and turn on again.
- Remote controller receives malfunction or the button does not work well.
- A safety device such as a fuse, a breaker frequently actuates.
- Water leaks from indoor unit.
- Other malfunctions.

Symptoms	Causes	Solution
Unit does not start	• Power failure; • Power switch is off; • Fuse of power switch may have burned; • Batteries of remote controller exhausted or other problem of controller.	• Wait for the comeback of power; • Switch on the power; • Replace the fuse; • Replace the batteries or check the controller.
Air flowing normally but completely can't cooling	• Temperature is not set correctly.	• Set the temperature properly.
Low cooling effect	• Indoor unit heat exchanger is dirty; • The air filter is dirty; • Inlet of indoor unit is blocked; • Doors and windows are open; • Sunlight shine directly; • Too many heat resources; • Outdoor temperature is too high.	• Clean the heat exchanger; • Clean the air filter; • Eliminate all dirties and make air smooth; • Close doors and windows; • Make curtains in order to shelter from sunshine; • Reduce heat resource; • AC cooling capacity reduces (normal).
Low heating effect	• Outdoor temperature is lower than 7°C; • Doors and windows are not completely closed.	• Use heating device; • Close doors and windows.

12.9 Troubles and causes of remote controller

Before asking for serving or repairing, check the following points.

Symptoms	Causes	Solution
The fan speed cannot be changed.	• Check whether the MODE indicated on the display is "AUTO".	When the automatic mode is selected, the air conditioner will automatically change the fan speed.
	• Protection against hot wind in cooling mode. • Protection against cold wind in heating mode.	Reduce the temperature of inlet in cooling mode rise the temperature of inlet in heating mode.
The remote controller signal is not transmitted even when the ON/OFF button is pushed.	• Check whether the batteries in the remote controller are exhausted.	The power supply is off.
The TEMP. indicator does not come on.	• Check whether the MODE indicated on the display is "FAN ONLY".	The temperature cannot be set during FAN mode.
The indication on the display disappears after a lapse of time.	• Check whether the timer operation has come to an end when the "TIMER OFF" is indicated on the display.	The air conditioner operation will stop up to the set time.
The TIMER ON indicator goes off after a lapse of certain time.	• Check whether the timer operation is started when the "TIME ON" is indicated on the display.	Up to the set time, the air conditioner will automatically start and the appropriate indicator will go off.
No receiving tone sounds from the indoor unit even when the ON/OFF button is pressed.	• Check whether the signal transmitter of the remote controller is properly directed to the infrared signal receiver of the indoor unit when the ON/OFF button is pressed.	Directly transmit the signal transmitter of the remote controller to the infrared signal receiver of the indoor unit, and then repeat pushing the ON/OFF button twice.

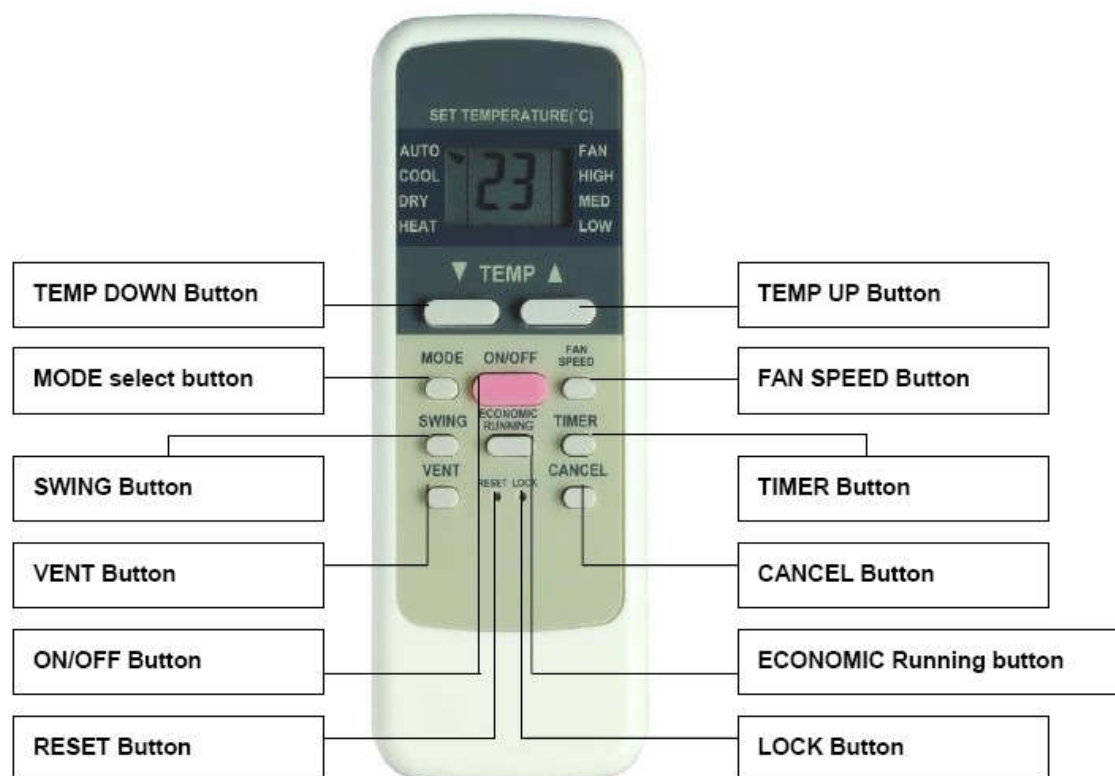
13. Controller

13.1 Wireless remote controller R51/E

13.1.1 Remote Controller Specifications

Model	R51/E
Rated Voltage	3.0V
Lowest Voltage of CPU Emitting Signal	2.0V
Reaching Distance	8m (when using 3.0 voltage, it can get 11m)
Environment Temperature Range	-5°C~60°C

13.1.2 Introduction of Function Buttons on the Remote Controller



1 TEMP DOWN Button:

Push the TEMP DOWN button to decrease the indoor temperature setting or to adjust the timer in a counter-clockwise direction.

2 MODLE Select Button:

Each time you push the button, a mode is selected in a sequence that goes from AUTO, COOL, DRY, HEAT and FAN as the following figure indicates:



Note: HEAT only for Heat Pump.

3 SWING Button:

Push this switch button to change the louver angle.

4 RESET Button:

When the RESET button is pushed, all of the current settings are cancelled and the control will return to the initial settings.

5 ECONOMIC Running Button:

Push this button to go into the Energy-Saving operation mode.

6 LOCK Button:

Push this button to lock in all the current settings. To release settings, push again.

7 CANCEL Button:

Push this button to cancel the TIMER settings.

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8 TIMER Button:

This button is used to preset the time ON (start to operate) and the time OFF (turn off the operation)

9 ON/OFF Button:

Push this button to start the unit operation. Push the button again to stop the unit operation.

10 FAN Speed Button:

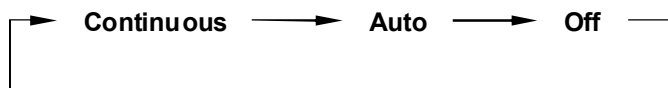
This button is used for setting fan speed in the sequence that goes from AUTO, LOW, MED to HIGH, and then back to Auto.

11 TEMP UP Button:

Push this button to increase the indoor temperature setting or to adjust the timer in a counter-clockwise direction.

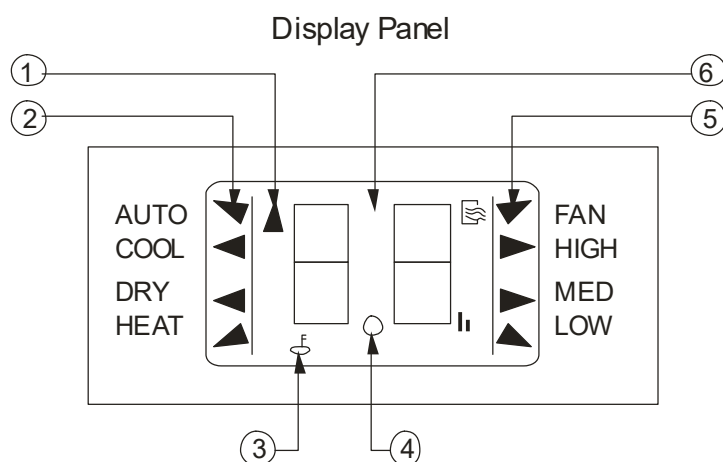
12 VENT Button:

Push this button to set the ventilating mode. The ventilating mode will operate in the following sequence:



Note: Ventilation Function is available for the Fresh Star Series.

13.1.3 Introduction of Indicators



1 TRANSMISSION Indicator:

This indicator lights when remote controller transmits signals to indoor unit.

2 MODE Display:

Shows the current operation mode - AUTO, COOL, DRY or HEAT. HEAT only available for heat pump model.

3 HEAT PUMP ONLY- LOCK display:

This function is displayed by pushing the LOCK button. Push the LOCK button again to clear display.

4 TIMER Display:

This display area shows the settings of TIMER. That is, if only the starting time of operation is set, it will display the TIMER ON. If only the turning off time of operation is set, it will display the TIMER OFF. If both operations are set, it will show TIMER ON OFF which indicates you have chosen to set both the starting time and off time.

5 FAN Display:

When the FAN button is pushed, this signal indicator lights.

6 Digital Display Area:

This area will show the temperature, and if in the TIMER mode, it will show the ON and OFF settings of the TIMER.

Note: All items are shown in the Fig for the purpose of clear presentation, But during the actual operation only the relative functional items are shown on the display panel.

13.1.4 Operational Guidelines

1 Install / Replace Batteries

The Remote Controller uses two alkaline dry batteries(R03/Ir03×2).

1) To install batteries, slide back the cover of the battery compartment and install the batteries according to the directions (+and -) shown on the Remote Controller.

2) To replace the old batteries , use the same method as mentioned above.

Note:

1. When replacing batteries, do not use old batteries or a different type battery. This may cause the remote controller to malfunction.
2. If you do not use the remote controller for several weeks remove the batteries. Otherwise battery leakage may damage the remote controller.
3. The average battery life under normal use is about 6 months.
4. Replace the batteries when there is no answering beep from the indoor unit or if the Transmission Indicator light fails to appear.

2 Automatic Operation

When the Air Conditioner is ready for use, switch on the power and the OPERATION indicator lamp on the display panel of the indoor unit starts flashing.

- 1) Use the MODE select button to select AUTO.
- 2) Push the TEMP button to set the desired room temperature. The most comfortable temperature settings are between 21°C to 28°C.
- 3) Push the ON/OFF button to start the air conditioner. The OPERATION lamp on the display panel of the indoor unit lights. The operating mode of AUTO FAN SPEED is automatically set and there are no indicators shown on the display panel of the remote controller.
- 4) Push the ON/OFF button again to stop the unit.

Notes:

1. In the AUTO mode, the air conditioner can logically choose the mode of COOL, FAN, HEAT and DRY by sensing the difference between the actual ambient room temperature and the set temperature on the remote controller.
2. If the AUTO mode is not comfortable for you, the desired mode can be selected manually.

3 COOL, HEAT, and FAN ONLY Operation

- 1) If the AUTO mode is not comfortable, you may manually override the settings by using COOL, DRY, HEAT(HEAT PUMP units only), or FAN ONLY modes.
- 2) Push the TEMP button to set the desired room temperature. When in COOLING mode, the most comfortable settings are 21°C or above. When in HEATING mode, the most comfortable settings are 28°C or below.
- 3) Push the FAN SPEED to select the FAN mode of AUTO, HIGH, MED or LOW.
- 4) Push the ON/OFF button. The operation lamp lights and the air conditioner starts to run according to your settings.
- 5) Push the ON/OFF button again to stop.

Note: The FAN ONLY mode cannot be used to control the temperature. While in this mode, only steps 1, 3 and 4 may be performed.

4 Dry Operation

- 1) Push the MODE button to select DRY.
- 2) Push the TEMP button to set the desired temperature from 21°C to 28°C.
- 3) Push the ON/OFF button. The operation lamp lights and the air conditioner starts to run in the DRY mode.
- 4) Push the ON/OFF button again to stop the unit.

Note: Due to the difference of the set temperature of the unit and the actual indoor temperature, the Air Conditioner when in DRY mode will automatically operate many times without running the COOL and FAN mode.

5 Time Operation

PUSH TIMER button to set the on and off times of the unit.

6 To set the STARTING time.

- 1) Please push the CANCEL button to cancel any former settings.
- 2) Push the TIMER button. The remote controller will show the TIMER and the signal "h" is shown on the display panel. The control is now ready to reset the TIMER ON to start the operation.
- 3) Push the TEMP button (▼ or ▲) to set desired unit START time.
- 4) After setting the TIMER there will be a one-half second delay before the remote controller transmits the signal to the Air Conditioner. Then, after approximately another 2 seconds, the set temperature will re-appear on the digital display.

7 To set the STOPPING time.

- 1) Please press the CANCEL button to cancel any former settings.
- 2) Push the TIMER button and the remote controller will show the last set time for the START operation and the signal "h" will be shown on the display panel. You are now ready to re-adjust the TIMER OFF to stop the operation.
- 3) Push the TEMP button to cancel the TIMER ON setting. The digital area will show "00".

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- 4) Push the TIMER button and the remote controller will show the last set time for the STOP operation and the signal "h" will be shown on the display panel. You are now ready to reset the time of the STOP operation.
- 5) Push the TEMP button (▼ or ▲) to set the time you want to stop the operation.
- 6) After setting the TIMER there will be a one-half second delay before the remote controller transmits the signals to the Air Conditioner. Then after approximately another 2 seconds, the set temperature will re-appear on the digital display.

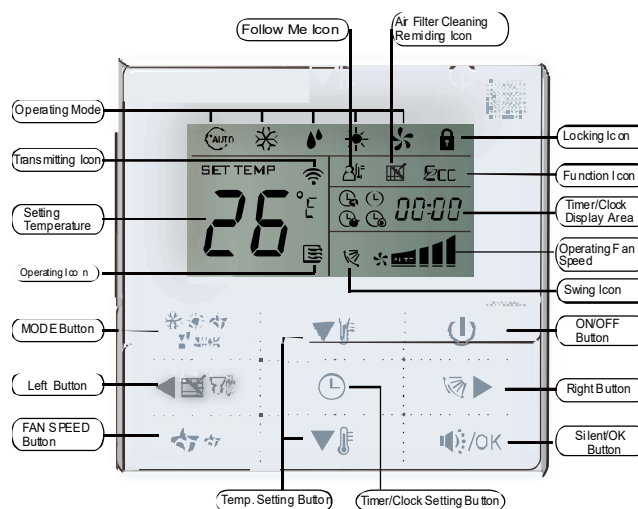
8 Set the STARTING & STOPPING time

- 1) Please press the CANCEL button to cancel any former settings.
- 2) Push the TIMER button and the remote controller will show the last setting time for START operation and the signal "h" will be shown on the display panel. You are now ready to readjust the TIMER ON to start the operation.
- 3) Push the TEMP button (▼ or ▲) to set the time you want to start the operation.
- 4) Push the TIMER button and the remote controller will show the last set time for STOP operation and the signal "h" will be shown on the display panel. You are now ready to reset the time of the STOP operation.
- 5) Push the TEMP button (▼ or ▲) to set the time you want to stop the operation.
- 6) After setting the TIMER there will be a one-half second delay before the remote controller transmits the signal to the Air Conditioner. Then, after approximately another 2 seconds, the set temperature will re-appear on the digital display.

Notes:

1. Please reset the TIMER after cancelling the former time settings.
2. The setting time is relative time. That is the time set is based on the delay of the current time.

13.2 Wired Controller KJR-29B



The Performance features of wired controller are as follows:

1. Operating mode: cool, heat, dry, fan and auto.
2. Set the mode through buttons.
3. Indoor setting temperature range: 17°C ~30°C.
4. LCD (Liquid Crystal Display).
5. Touch key.
6. Can switch Fahrenheit degree and Centigrade degree.

13.2.1 Wired Controller Specifications

Model	KJR-29B/BK-E
Power Supply Voltage	DC 5.0 V
Ambient Temperature Range	-5°C ~+43°C
Ambient Humidity Range	RH40%~RH90%

13.2.2 Function summarize

New function	Basic function
Air filter cleaning reminding function	ON and OFF the air-conditioner
Indoor unit address setting function	Auto-restart function
Remote control receiver function	Time ON and Time OFF setting
Lock the wired controller	Clock setting
Silent mode	Setting the Operating mode, Temperature
Follow me	Fan speed and Swing functions

1 Remote signal receiving function

There is the signal receiver for wireless remote controller on the KJR-29B. You can use the wireless remote controller to control the air-conditioner through the wired controller when the system has been powered on.

Note: The wired controller will not receive the swing controlling instruction. For the indoor unit with swinging function, you can directly use the remote controller to control swinging through the display panel of the indoor unit, or use the swing button on the wired remote controller to control the indoor unit for swinging.

2 ON/OFF button

Press the ON/OFF button to control the indoor unit on and off state. When the unit is turned off, press the ON/OFF button, the unit will be turned on and the operating icon lights up. When the unit is turned on, press the ON/OFF button, the unit will be turned off and the operating icon lights off.

3 Mode button

Press the mode button to set the operating mode, after each button press the operation mode will circle as follow:



When the controller has been set to cool-only, then there is no HEAT mode.

4 Fan speed setting

Under COOL, HEAT and FAN modes, press the fan speed button can adjust the fan speed setting. After each fan speed button press will circle as follow:

AUTO → LOW → MID → HIGH → AUTO

Under AUTO and DRY modes, the fan speed is not adjustable and the default fan speed is auto.

5 Temperature setting

Under AUTO, COOL, DRY, HEAT modes, press the Temp adjust Up/Down buttons to set the temperature, the adjusting range is 17°C~30°C (or 62°F~88°F). The setting temperature cannot be adjusted under FAN mode.

6 Timer on and Timer off setting

Press the timer/clock setting button, then enter into the timer on setting state, and the screen will display timer icon



You can press Temperature setting buttons to adjust the time. When the time setting is less than 10 hours, each press the Temp setting buttons will increase or decrease 0.5 hour. When the timer setting is more than 10 hours, each press Temp setting buttons will increase or decrease 1 hour, the maximum timer setting is 24 hours. After finish adjusting the time on setting, press the Silent/OK button or wait for 5 seconds to confirm and exit the time on setting.

Notes: If the wired controller has been set timer on/ off, press the ON/OFF button to turn on/ turn off the unit then the timer will be canceled simultaneously.

7 Clock setting

Long press the timer/clock setting button for 3 seconds, and then enter into the clock setting state. The hour position of the clock will flash, and can press Temp setting buttons to adjust the hour value.

After finish the hour setting, press left button or right button to switch to minute position setting, then the minute position will flash, press Temp setting buttons to adjust the minute value. After finish the clock setting, press the button or wait for 5seconds to confirm and exit the setting state.

8 Silent/OK button

Under the cooling, heating and auto mode, when operate the silent mode, it can reduce the running noise through setting the fan speed to low. This will help you bring a quieter environment.

Under AUTO, DRY mode, the fan speed is auto and the Silent /OK button doesn't work.

9 Wired controller locking

Short press the temperature adjusting UP and DOWN buttons simultaneously, the wired controller enters into locking state, and the locking icon will be lighted up. Under the locking state, the wired controller will not respond to buttons by pressing and the control instruction from the wireless remote controller. Simultaneously press temperature adjusting buttons again will cancel the locking state.

10 Air filter cleaning reminding function

The wired controller records the total running time of the indoor unit, when the accumulated running time reaches the pre-set value, air filter cleaning reminding icon will be lighted up, to remind that the air filter of the indoor unit needs to be cleaned. Long press left button for 3 seconds, and clear the reminding icon and the wired controller will re-accumulate the total running time of the indoor unit.

Notes: The default setting value of reminding function is 2500 hours, and it can change to be 1250 hours, 5000 hours or 10000 hours.

11 Swing function

If the indoor unit supports swing function, press the right button to adjust the air outlet direction of the indoor unit. Long press this button for 3 seconds can turn on or turn off the auto-swing function. When the auto-swing function is turned on, the swing icon will be lighted up.

12 Follow me function

When the system is running and the operating mode is Cooling, Heating or Auto, press the left button will activate the Follow Me function. Press left button again will cancel follow me function. When the operating mode is changed, and then will cancel this function as well. When the Follow Me function is activated, the icon will be light up, and the wired controller will display room temperature read from the local sensor, and transmit the temperature value to the indoor unit every 3 minutes.

13 Setting addresses

Press the Temp. UP and DOWN button simultaneously for more than 8 seconds, then the controller gets into address setting mode.

In the address setting mode, there are 2 main functions:

Querying address: press MODE button, the corresponding indoor unit will display its address.

Setting address: use the UP and DOWN buttons to choose an address you want. Then press the FAN button to set the indoor unit's address. The corresponding indoor unit will display the new address and record it. After about 4 seconds, this displaying will fade out and indoor units turn to normal display mode.

After setting addresses, users can press the Silent/OK button can exit the address setting mode.

After re-power, users can query the indoor address again: long press the UP and DOWN button simultaneously will enter the address setting page, press ON/OFF button and then press MODE button, the indoor address will be displayed on the indoor display board.

In the address setting mode, wired controller does not respond to any command from remote controller.

13.2.3 Installations

1. Safety precaution

Stated below are important safety issues that must be obeyed. Confirm there is no abnormal phenomena during test operation after complete.

Installation by other persons may lead to imperfect installation, electric shock or fire. Improper installation may lead to electric shock or fire. A random disassembly may cause abnormal operation or heating, which may result in fire.

Do not install the controller in a place vulnerable to leakage of flammable gases. Once flammable gases are leaked and left around the wired controller, fire may occur.

The wiring should adapt to the wired controller current. Otherwise, electric leakage or heating may occur and result

in fire. The specified cables shall be applied in the wiring. No external force may be applied to the terminal. Otherwise, wire cut and heating may occur and result in fire.

Don't place the wired controller near the lamps, to avoid the remote signal of the controller to be disturbed. Do not install the unit and controller in a place with much oil, steam, sulfide gas. Otherwise, the product may deform and fail.

2. Preparation before Installation:

Make sure the following parts have been prepared :

Name	Qty.	Remarks
Wired controller	1	\
Cross round head wood mounting screw	3	M4×20 (For mounting on the wall.)
Cross round head mounting screw	2	M4×25 (For mounting on the electrical switch box.)
Installation manual	1	\
Owner's manual	1	\
Plastic expansion pipe	3	For mounting on the wall
Plastic screw bar	2	For fixing on the 86 electrician box.
Switching wires for signal receiving board	1	For connecting the signal receiving board and 4-core shield wire.
Switching wires for wired controller signal	1	(If needed) For connecting the main control panel and 4-core shielding wire.

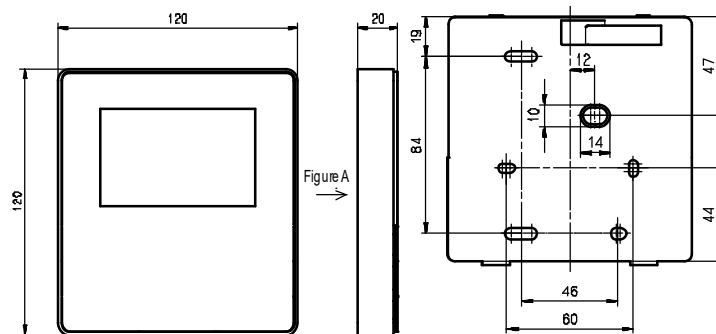
3. Prepare for the following at installation site

Name	Qty.(embedded into wall)	Specification remarks (only for reference)	Remarks
4-core shield cable	1	RVVP-0.5 mm ² ×4	The longest is 15M
86 electrician box	1	/	/
Wiring tube (insulating sleeve and tightening screw)	1	/	/

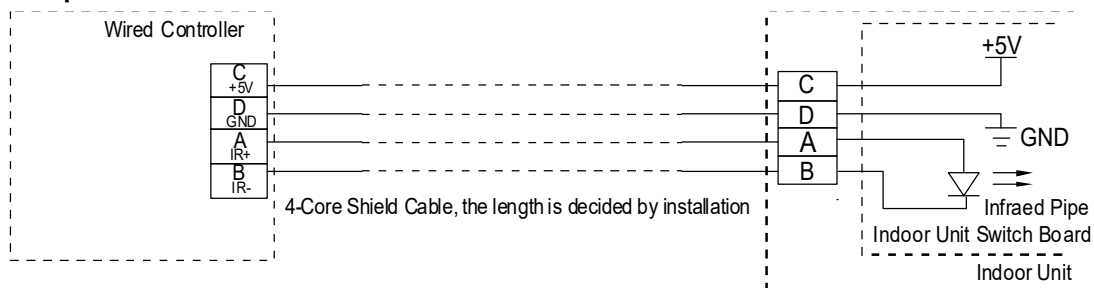
4. Installation procedure

- 1) Circuit of wired controller is low voltage circuit. Never connect it with a standard 220V or 380V circuit or put it into a same wiring tube with the circuit.
- 2) The shield cable must be connected stable to the ground, or transmission may fail.
- 3) Don not attempt to extend the shield cable by cutting, if it is necessary, use terminal connection block to connect.
- 4) After finishing connection, do not use mugger to have the insulation check to the signal wire.

5. Dimensions: 120*120*20mm



6. Wiring principle sketch

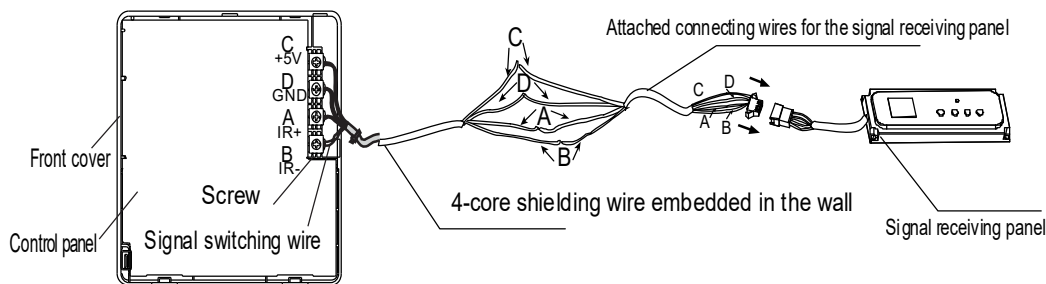


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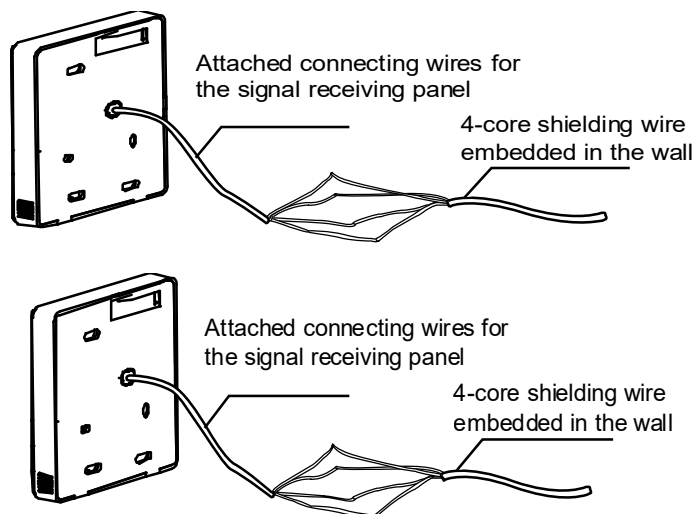


7. Wiring figure

1) Connect two terminals of embedded 4-core shielding wire with the switching wires of wired remote controller and signal receiving board. Make sure the sequence of 4 terminals (A, B, C and D) should correspond to the wire sequence of signal switching wires (A, B, C and D).

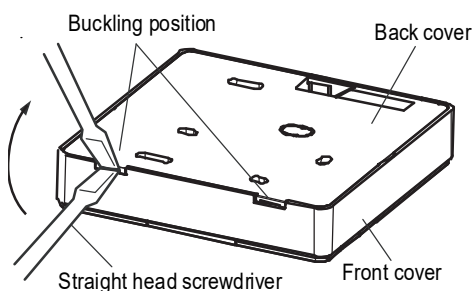


2) If embedded 4-core shielding wire cannot go through the wired controller, it can use signal switching for connection and make sure the wires are reliable and firm. The tightening torque range of the screw is 0.8~1.2N .m (8~12 kgf.cm).

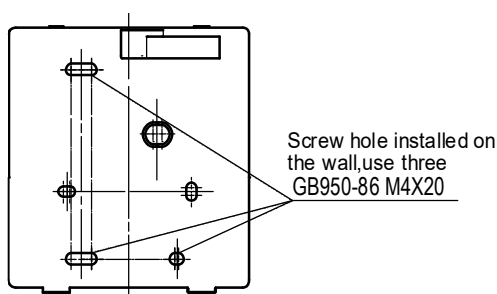


8. Back cover installation

1) Use straight head screwdriver to insert into the buckling position in the bottom of a wired controller, and spin the screwdriver to take down the back cover. (Pay attention to spinning direction, if not you maybe damage the back cover.)

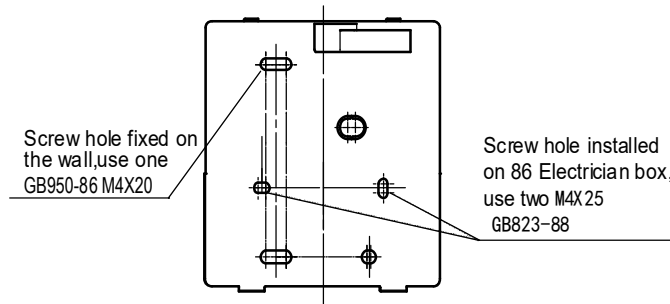


2) Use three GB950-86 M4X20 screws to directly install the back cover on the wall.

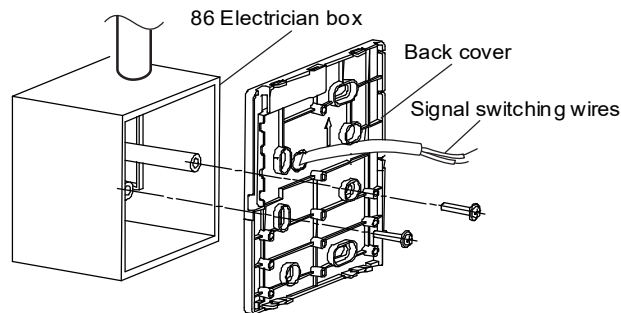


3) Use two M4X25 GB823-88screws to install the back cover on the 86 electrician box, and use one GB950-86

M4X20 screw for fixing the wall.



4) Adjust the length of two plastic screw bars in the accessory to be the standard length from the electrical box screw bar to the wall. Make sure when install the screw bar to the electrical box screw bar, make it as flat as the wall.

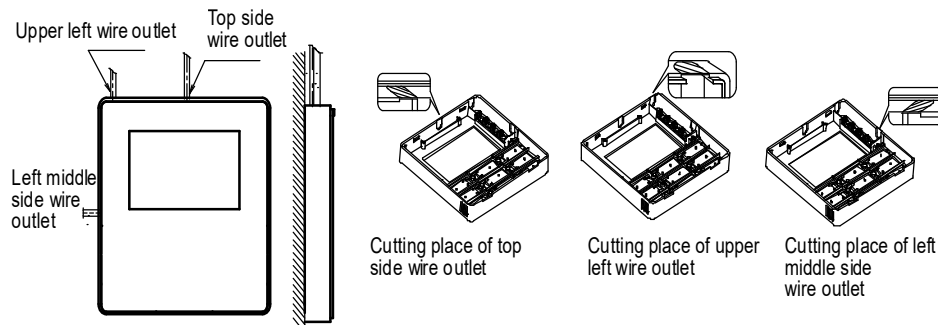


Notes:

1. Use cross head screws to fix the wired controller bottom cover in the electric control box through the screw bar. Make sure the wired controller bottom cover is on the same level after installation, and then install the wired controller back to the bottom cover.
2. Over fasten the screw will lead to deformation of the back cover.

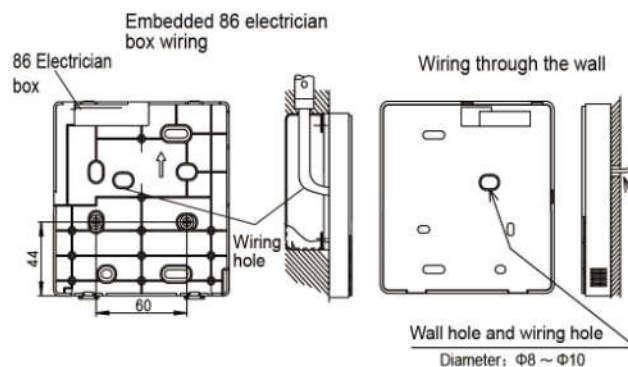
9. Neaten the wires

1) There are three positions of signal wire outlet around the wired controller, when the wired controller directly is installed on the flat wall.

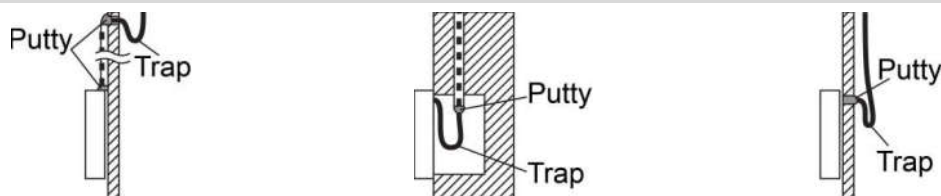


2) Shielded wiring

When the wired controller is stalled with electrician box, the back cover of wired controller is already reserved one hole for wire outlet. It is also available for the shielded wire passing by the wall.

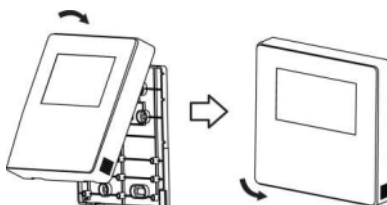


3) Avoid the water enter into the wired controller, use trap and putty to seal the connectors of wires during wiring installation. When under installation, reserve certain length of the connecting wire for convenient to take down the wired controller while during maintenance.

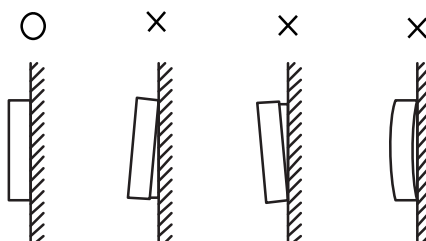


10. Front cover installation

1) After adjusting the front cover and then buckle the front cover; avoid clamping the communication switching wire during installation.



2) Correct install the back cover and firmly buckle the front cover and back cover, if not you maybe make the front cover drop off.



11. Wired controller initial parameters setting

1. Change the related functions of the controller through adjusting the initial parameters, details refer to table.
2. The wired controller initial parameter includes two codes "XY", the first code "X" means functions class, and the second code "Y" means the detailed configuration of this function.
3. Setting method:
 - 1) Press "Mode" and "Fan" button simultaneously for 5 seconds to enter the parameter setting state;
 - 2) The value of this first code "X" is "0"; press the temperature setting button UP and DOWN to adjust the second code value;
 - 3) After setting the second code value, press Silent/OK button to switch the first code to the next value;
 - 4) When the first code value is "6", press Silent /OK button again to exit the parameters setting.
4. The parameters setting function only under the situation which needs to adjust the default functions' setting states; otherwise do not need to be set.

First code	Functions	Second code				
		0	1	2	3	4
0	Cool-only/ Cool-Heat selection	Cool-Heat (Default)	Cool-only	/		/
1	Indoor unit communication address setting	Yes(Default)	None	/	/	/
2	Auto-restart	Yes(Default)	None	/	/	/
3	Air filter cleaning reminding function	Cancel the reminding function	1250 hours	2500 hours (Default)	5000hours	10000 hours
5	Remote receiving function	Yes(Default)	None	/	/	/
6	Centigrade/ Fahrenheit display	Centigrade	Fahrenheit	/	/	/

Notes: The second code of the filter cleaning reminding is 2500 hours, which as default.

14. Capacity Tables

14.1 S panel Cooling Capacity

MKG-250-B																						
EWT	ΔT	Indoor	Indoor temperature (D.B.)																			
		temp (W.B.)	21				23				25				27				29			
			TC	SC	WF	WPD	TC	SC	WF	WPD	TC	SC	WF	WPD	TC	SC	WF	WPD	TC	SC	WF	WPD
°C	°C	°C	kW	kW	m³/h	kPa	kW	kW	m³/h	kPa	kW	kW	m³/h	kPa	kW	kW	m³/h	kPa	kW	kW	m³/h	kPa
5	4	15	2.05	1.49	0.44	27.79	2.03	1.49	0.44	27.39	2.02	1.48	0.43	26.98	2.01	1.47	0.43	26.58	2.00	1.47	0.43	26.17
		17	2.60	1.77	0.56	47.12	2.59	1.76	0.56	46.70	2.58	1.75	0.55	46.27	2.57	1.75	0.55	45.84	2.55	1.74	0.55	45.41
		19	-	-	-	-	3.18	2.03	0.68	67.15	3.17	2.04	0.68	66.92	3.17	2.05	0.68	66.69	3.16	2.04	0.68	66.24
	5	15	1.89	1.43	0.33	15.18	1.88	1.42	0.32	14.94	1.87	1.42	0.32	14.69	1.85	1.41	0.32	14.45	1.84	1.40	0.32	14.20
		17	2.45	1.70	0.42	26.91	2.44	1.70	0.42	26.66	2.43	1.69	0.42	26.40	2.41	1.68	0.42	26.14	2.40	1.68	0.41	25.88
		19	-	-	-	-	3.03	1.96	0.52	39.11	3.03	1.97	0.52	38.95	3.02	1.98	0.52	38.79	3.01	1.97	0.52	38.51
7	4	15	1.61	1.34	0.35	17.28	1.60	1.34	0.34	16.94	1.59	1.33	0.34	16.59	1.58	1.33	0.34	16.25	1.57	1.32	0.34	15.90
		17	2.18	1.61	0.47	33.75	2.17	1.60	0.47	33.38	2.16	1.60	0.46	33.02	2.14	1.59	0.46	32.65	2.13	1.58	0.46	32.29
		19	-	-	-	-	2.77	1.86	0.60	50.99	2.76	1.87	0.59	50.70	2.76	1.87	0.59	50.42	2.74	1.87	0.59	50.03
	5	15	1.46	1.28	0.25	9.03	1.45	1.27	0.25	8.82	1.43	1.27	0.25	8.61	1.42	1.26	0.24	8.39	1.41	1.26	0.24	8.18
		17	2.04	1.54	0.35	19.15	2.03	1.54	0.35	18.93	2.01	1.53	0.35	18.71	2.00	1.53	0.34	18.48	1.99	1.52	0.34	18.26
		19	-	-	-	-	2.64	1.79	0.45	29.66	2.64	1.80	0.45	29.53	2.63	1.81	0.45	29.40	2.62	1.80	0.45	29.16
9	4	15	1.20	1.15	0.26	9.49	1.18	1.14	0.25	9.21	1.17	1.13	0.25	8.93	1.16	1.13	0.25	8.65	1.15	1.12	0.25	8.37
		17	1.77	1.43	0.38	22.87	1.75	1.42	0.38	22.58	1.74	1.42	0.37	22.28	1.73	1.41	0.37	21.98	1.71	1.40	0.37	21.69
		19	-	-	-	-	2.36	1.70	0.51	36.88	2.35	1.71	0.51	36.65	2.34	1.72	0.50	36.41	2.33	1.71	0.50	36.10
	5	15	1.10	1.07	0.19	5.18	1.09	1.06	0.19	5.02	1.08	1.06	0.19	4.86	1.07	1.05	0.18	4.70	1.06	1.05	0.18	4.54
		17	1.66	1.36	0.28	12.95	1.64	1.36	0.28	12.78	1.63	1.35	0.28	12.61	1.62	1.34	0.28	12.43	1.61	1.34	0.28	12.26
		19	-	-	-	-	2.23	1.64	0.38	21.09	2.22	1.65	0.38	20.95	2.21	1.66	0.38	20.81	2.20	1.65	0.38	20.62
11	4	15	0.94	0.94	0.20	5.84	0.93	0.93	0.20	5.65	0.92	0.92	0.20	5.46	0.91	0.91	0.20	5.27	0.90	0.90	0.19	5.08
		17	1.42	1.25	0.30	14.91	1.41	1.24	0.30	14.72	1.40	1.23	0.30	14.51	1.39	1.23	0.30	14.31	1.38	1.22	0.30	14.11
		19	-	-	-	-	1.92	1.54	0.41	24.53	1.91	1.55	0.41	24.32	1.91	1.56	0.41	24.11	1.89	1.56	0.41	23.89
	5	15	0.81	0.81	0.14	2.80	0.80	0.80	0.14	2.70	0.79	0.79	0.14	2.59	0.78	0.78	0.13	2.49	0.77	0.77	0.13	2.38
		17	1.28	1.17	0.22	7.88	1.27	1.16	0.22	7.76	1.26	1.15	0.22	7.65	1.25	1.14	0.21	7.54	1.24	1.14	0.21	7.43
		19	-	-	-	-	1.77	1.50	0.30	13.27	1.76	1.51	0.30	13.14	1.75	1.53	0.30	13.01	1.74	1.52	0.30	12.89
13	4	15	0.66	0.66	0.14	2.93	0.66	0.66	0.14	2.81	0.65	0.65	0.14	2.70	0.64	0.64	0.14	2.58	0.63	0.63	0.14	2.46
		17	1.06	1.05	0.23	8.52	1.05	1.04	0.23	8.40	1.04	1.03	0.22	8.27	1.03	1.02	0.22	8.15	1.03	1.01	0.22	8.02
		19	-	-	-	-	1.47	1.41	0.32	14.39	1.47	1.42	0.32	14.29	1.46	1.43	0.31	14.18	1.45	1.43	0.31	14.05
	5	15	0.48	0.48	0.08	0.97	0.47	0.47	0.08	0.90	0.46	0.46	0.08	0.83	0.45	0.45	0.08	0.76	0.44	0.44	0.08	0.68
		17	0.92	0.92	0.16	4.43	0.91	0.91	0.16	4.36	0.90	0.90	0.15	4.28	0.89	0.89	0.15	4.20	0.88	0.88	0.15	4.13
		19	-	-	-	-	1.36	1.36	0.23	7.90	1.36	1.36	0.23	7.92	1.37	1.37	0.23	7.93	1.36	1.36	0.23	7.85
15	4	15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		17	0.83	0.84	0.18	2.12	0.82	0.84	0.18	2.07	0.82	0.83	0.18	2.01	0.81	0.82	0.17	1.96	0.80	0.81	0.17	1.90
		19	-	-	-	-	1.18	1.22	0.25	3.41	1.19	1.23	0.26	4.00	1.20	1.23	0.26	4.59	1.19	1.22	0.26	4.53
	5	15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		17	0.72	0.72	0.12	1.15	0.72	0.72	0.12	1.12	0.71	0.71	0.12	1.09	0.70	0.70	0.12	1.06	0.69	0.69	0.12	1.04
		19	-	-	-	-	1.14	1.15	0.20	2.99	1.13	1.13	0.19	2.70	1.12	1.12	0.19	2.42	1.11	1.11	0.19	2.39

Abbreviations: EWT: Enter Water Temp. (°C) Δt: Temperature Difference. (°C) DB: Dry Bulb Temp. (°C) WF: Water Flow. (m³/h)

WB: Wet Bulb Temp. (°C) TC: Total Cooling Capacity. (kW) SC: Sensible Cooling Capacity. (kW) WPD: Water Pressure Drop. (kPa)



AC Fan Coil Unit Two-pipe Wall-mounted Series

Cooling Capacity

MKG-300-B																							
EWT	ΔT	Indoor temp (W.B.)	Indoor temperature (D.B.)																				
			21				23				25				27				29				
			TC	SC	WF	WPD	TC	SC	WF	WPD	TC	SC	WF	WPD	TC	SC	WF	WPD	TC	SC	WF	WPD	
°C	°C	°C	kW	kW	m³/h	kPa	kW	kW	m³/h	kPa	kW	kW	m³/h	kPa	kW	kW	m³/h	kPa	kW	kW	m³/h	kPa	
5	4	15	2.31	1.68	0.50	33.65	2.30	1.68	0.49	33.16	2.28	1.67	0.49	32.68	2.27	1.66	0.49	32.19	2.26	1.66	0.49	31.69	
		17	2.94	2.00	0.63	57.06	2.93	1.99	0.63	56.54	2.91	1.98	0.63	56.03	2.90	1.97	0.62	55.51	2.88	1.97	0.62	54.99	
		19	-	-	-	-	3.59	2.29	0.77	81.31	3.58	2.30	0.77	81.04	3.58	2.31	0.77	80.76	3.56	2.30	0.77	80.20	
	5	15	2.13	1.61	0.37	18.38	2.12	1.60	0.36	18.09	2.11	1.60	0.36	17.79	2.09	1.59	0.36	17.50	2.08	1.59	0.36	17.20	
		17	2.77	1.92	0.48	32.59	2.76	1.92	0.47	32.28	2.74	1.91	0.47	31.96	2.73	1.90	0.47	31.65	2.71	1.89	0.47	31.33	
		19	-	-	-	-	3.43	2.22	0.59	47.36	3.42	2.23	0.59	47.16	3.41	2.24	0.59	46.97	3.40	2.23	0.58	46.63	
7	4	15	1.82	1.52	0.39	20.92	1.81	1.51	0.39	20.51	1.79	1.50	0.39	20.09	1.78	1.50	0.38	19.67	1.77	1.49	0.38	19.26	
		17	2.46	1.82	0.53	40.86	2.45	1.81	0.53	40.42	2.43	1.80	0.52	39.98	2.42	1.80	0.52	39.54	2.41	1.79	0.52	39.10	
		19	-	-	-	-	3.13	2.10	0.67	61.75	3.12	2.11	0.67	61.40	3.11	2.12	0.67	61.05	3.10	2.11	0.67	60.58	
	5	15	1.65	1.44	0.28	10.93	1.63	1.44	0.28	10.68	1.62	1.43	0.28	10.42	1.60	1.43	0.28	10.16	1.59	1.42	0.27	9.91	
		17	2.30	1.74	0.40	23.19	2.29	1.74	0.39	22.92	2.27	1.73	0.39	22.65	2.26	1.72	0.39	22.38	2.25	1.72	0.39	22.11	
		19	-	-	-	-	2.98	2.02	0.51	35.92	2.98	2.03	0.51	35.76	2.97	2.04	0.51	35.60	2.95	2.04	0.51	35.31	
9	4	15	1.35	1.29	0.29	11.49	1.34	1.29	0.29	11.16	1.32	1.28	0.28	10.82	1.31	1.27	0.28	10.48	1.30	1.27	0.28	10.14	
		17	1.99	1.61	0.43	27.69	1.98	1.61	0.43	27.34	1.96	1.60	0.42	26.98	1.95	1.59	0.42	26.62	1.94	1.59	0.42	26.26	
		19	-	-	-	-	2.66	1.92	0.57	44.66	2.65	1.93	0.57	44.38	2.64	1.94	0.57	44.09	2.63	1.93	0.57	43.71	
	5	15	1.25	1.21	0.21	6.28	1.23	1.20	0.21	6.08	1.22	1.19	0.21	5.89	1.21	1.19	0.21	5.69	1.20	1.18	0.21	5.49	
		17	1.87	1.54	0.32	15.68	1.86	1.53	0.32	15.47	1.84	1.52	0.32	15.26	1.83	1.52	0.31	15.06	1.81	1.51	0.31	14.85	
		19	-	-	-	-	2.52	1.85	0.43	25.54	2.51	1.86	0.43	25.37	2.50	1.87	0.43	25.20	2.48	1.87	0.43	24.97	
11	4	15	1.06	1.06	0.23	7.07	1.05	1.05	0.23	6.84	1.04	1.04	0.22	6.61	1.02	1.02	0.22	6.38	1.01	1.01	0.22	6.15	
		17	1.60	1.41	0.34	18.06	1.59	1.40	0.34	17.82	1.58	1.39	0.34	17.58	1.57	1.39	0.34	17.33	1.55	1.38	0.33	17.09	
		19	-	-	-	-	2.17	1.74	0.47	29.70	2.16	1.76	0.46	29.44	2.15	1.77	0.46	29.19	2.14	1.76	0.46	28.93	
	5	15	0.92	0.92	0.16	3.39	0.91	0.91	0.16	3.27	0.90	0.90	0.15	3.14	0.88	0.88	0.15	3.01	0.87	0.87	0.15	2.88	
		17	1.44	1.32	0.25	9.54	1.43	1.31	0.25	9.40	1.42	1.30	0.24	9.27	1.41	1.29	0.24	9.13	1.40	1.28	0.24	8.99	
		19	-	-	-	-	1.99	1.70	0.34	16.07	1.99	1.71	0.34	15.91	1.98	1.72	0.34	15.75	1.96	1.71	0.34	15.61	
13	4	15	0.75	0.75	0.16	3.55	0.74	0.74	0.16	3.41	0.73	0.73	0.16	3.27	0.72	0.72	0.16	3.12	0.71	0.71	0.15	2.98	
		17	1.20	1.18	0.26	10.32	1.19	1.17	0.26	10.17	1.18	1.16	0.25	10.02	1.17	1.15	0.25	9.87	1.16	1.14	0.25	9.72	
		19	-	-	-	-	1.66	1.60	0.36	17.43	1.66	1.61	0.36	17.30	1.65	1.62	0.35	17.17	1.64	1.61	0.35	17.01	
	5	15	0.54	0.54	0.09	1.18	0.53	0.53	0.09	1.09	0.52	0.52	0.09	1.00	0.51	0.51	0.09	0.91	0.50	0.50	0.09	0.83	
		17	1.04	1.04	0.18	5.37	1.03	1.03	0.18	5.27	1.02	1.02	0.17	5.18	1.01	1.01	0.17	5.09	0.99	0.99	0.17	5.00	
		19	-	-	-	-	1.54	1.53	0.26	9.56	1.54	1.54	0.27	9.59	1.54	1.54	0.27	9.61	1.53	1.53	0.26	9.51	
15	4	15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
		17	0.94	0.95	0.20	2.57	0.93	0.94	0.20	2.50	0.92	0.94	0.20	2.44	0.91	0.93	0.20	2.37	0.90	0.92	0.19	2.30	
		19	-	-	-	-	1.33	1.38	0.29	4.13	1.34	1.38	0.29	4.84	1.36	1.39	0.29	5.56	1.35	1.38	0.29	5.49	
	5	15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
		17	0.82	0.82	0.14	1.39	0.81	0.81	0.14	1.36	0.80	0.80	0.14	1.32	0.79	0.79	0.14	1.29	0.78	0.78	0.13	1.26	
		19	-	-	-	-	1.29	1.30	0.22	3.62	1.28	1.28	0.22	3.27	1.26	1.26	0.22	2.93	1.25	1.25	0.22	2.89	

Abbreviations:

EWT: Enter Water Temp. (°C) Δt: Temperature Difference. (°C) DB: Dry Bulb Temp. (°C) WF: Water Flow. (m³/h)
 WB: Wet Bulb Temp. (°C) TC: Total Cooling Capacity. (kW) SC: Sensible Cooling Capacity. (kW) WPD: Water Pressure Drop. (kPa)

AC Fan Coil Unit Two-pipe Wall-mounted Series



Cooling Capacity

MKG-400-B																							
EWT	ΔT	Indoor	Indoor temperature (D.B.)																				
		temp (W.B.)	21				23				25				27				29				
			TC	SC	WF	WPD	TC	SC	WF	WPD	TC	SC	WF	WPD	TC	SC	WF	WPD	TC	SC	WF	WPD	
°C	°C	°C	kW	kW	m³/h	kPa	kW	kW	m³/h	kPa	kW	kW	m³/h	kPa	kW	kW	m³/h	kPa	kW	kW	m³/h	kPa	
5	4	15	2.55	1.86	0.55	41.12	2.54	1.85	0.55	40.52	2.52	1.85	0.54	39.93	2.51	1.84	0.54	39.33	2.49	1.83	0.54	38.73	
		17	3.25	2.20	0.70	69.72	3.23	2.20	0.69	69.09	3.22	2.19	0.69	68.46	3.20	2.18	0.69	67.83	3.19	2.17	0.68	67.19	
		19	-	-	-	-	3.97	2.53	0.85	99.36	3.96	2.54	0.85	99.02	3.95	2.55	0.85	98.68	3.94	2.54	0.85	98.00	
	5	15	2.36	1.78	0.41	22.46	2.34	1.77	0.40	22.10	2.33	1.77	0.40	21.74	2.31	1.76	0.40	21.38	2.30	1.75	0.40	21.01	
		17	3.06	2.12	0.53	39.82	3.04	2.12	0.52	39.44	3.03	2.11	0.52	39.06	3.01	2.10	0.52	38.67	3.00	2.09	0.52	38.29	
		19	-	-	-	-	3.78	2.45	0.65	57.87	3.78	2.46	0.65	57.63	3.77	2.47	0.65	57.39	3.75	2.46	0.65	56.98	
7	4	15	2.01	1.68	0.43	25.56	2.00	1.67	0.43	25.06	1.98	1.66	0.43	24.55	1.97	1.65	0.42	24.04	1.95	1.65	0.42	23.53	
		17	2.72	2.00	0.58	49.93	2.70	2.00	0.58	49.39	2.69	1.99	0.58	48.86	2.67	1.98	0.57	48.32	2.66	1.98	0.57	47.77	
		19	-	-	-	-	3.46	2.31	0.74	75.45	3.45	2.33	0.74	75.02	3.44	2.34	0.74	74.60	3.42	2.33	0.74	74.02	
	5	15	1.82	1.60	0.31	13.36	1.80	1.59	0.31	13.05	1.79	1.58	0.31	12.73	1.77	1.57	0.30	12.42	1.76	1.57	0.30	12.10	
		17	2.54	1.92	0.44	28.34	2.53	1.92	0.43	28.01	2.51	1.91	0.43	27.68	2.50	1.90	0.43	27.34	2.48	1.90	0.43	27.01	
		19	-	-	-	-	3.29	2.23	0.57	43.89	3.29	2.25	0.57	43.69	3.28	2.26	0.56	43.50	3.26	2.25	0.56	43.15	
9	4	15	1.49	1.43	0.32	14.04	1.48	1.42	0.32	13.63	1.46	1.41	0.31	13.22	1.45	1.41	0.31	12.81	1.43	1.40	0.31	12.39	
		17	2.20	1.78	0.47	33.84	2.19	1.77	0.47	33.40	2.17	1.77	0.47	32.97	2.15	1.76	0.46	32.53	2.14	1.75	0.46	32.09	
		19	-	-	-	-	2.94	2.12	0.63	54.57	2.93	2.13	0.63	54.22	2.92	2.14	0.63	53.88	2.90	2.13	0.62	53.41	
	5	20	-	-	-	-	3.18	1.97	0.68	63.97	3.17	1.97	0.68	63.55	3.16	1.97	0.68	63.14	3.15	1.98	0.68	62.72	
		15	1.38	1.33	0.24	7.67	1.36	1.33	0.23	7.43	1.35	1.32	0.23	7.19	1.33	1.31	0.23	6.95	1.32	1.30	0.23	6.71	
		17	2.06	1.70	0.36	19.16	2.05	1.69	0.35	18.91	2.03	1.68	0.35	18.65	2.02	1.68	0.35	18.40	2.00	1.67	0.34	18.14	
19	-	-	-	-	2.78	2.04	0.48	31.20	2.77	2.06	0.48	31.00	2.76	2.07	0.47	30.79	2.74	2.06	0.47	30.52			
11	4	15	1.17	1.17	0.25	8.63	1.16	1.16	0.25	8.36	1.14	1.14	0.25	8.08	1.13	1.13	0.24	7.79	1.12	1.12	0.24	7.51	
		17	1.77	1.56	0.38	22.07	1.76	1.55	0.38	21.77	1.74	1.54	0.37	21.48	1.73	1.53	0.37	21.18	1.72	1.52	0.37	20.88	
		19	-	-	-	-	2.40	1.93	0.52	36.29	2.39	1.94	0.51	35.98	2.38	1.95	0.51	35.67	2.36	1.94	0.51	35.35	
	5	15	1.01	1.01	0.17	4.15	1.00	1.00	0.17	3.99	0.99	0.99	0.17	3.84	0.98	0.98	0.17	3.68	0.96	0.96	0.17	3.52	
		17	1.59	1.46	0.27	11.65	1.58	1.45	0.27	11.49	1.57	1.44	0.27	11.32	1.56	1.43	0.27	11.16	1.54	1.42	0.27	10.99	
		19	-	-	-	-	2.20	1.87	0.38	19.63	2.19	1.89	0.38	19.44	2.18	1.90	0.38	19.25	2.17	1.89	0.37	19.07	
13	4	15	0.83	0.83	0.18	4.33	0.82	0.82	0.18	4.16	0.81	0.81	0.17	3.99	0.80	0.80	0.17	3.82	0.79	0.79	0.17	3.64	
		17	1.32	1.31	0.28	12.61	1.31	1.30	0.28	12.42	1.30	1.28	0.28	12.24	1.29	1.27	0.28	12.06	1.28	1.26	0.27	11.87	
		19	-	-	-	-	1.84	1.76	0.39	21.30	1.83	1.78	0.39	21.14	1.82	1.79	0.39	20.98	1.81	1.78	0.39	20.78	
	5	15	0.60	0.60	0.10	1.44	0.58	0.58	0.10	1.33	0.57	0.57	0.10	1.22	0.56	0.56	0.10	1.12	0.55	0.55	0.09	1.01	
		17	1.15	1.15	0.20	6.56	1.13	1.13	0.20	6.44	1.12	1.12	0.19	6.33	1.11	1.11	0.19	6.22	1.10	1.10	0.19	6.10	
		19	-	-	-	-	1.70	1.69	0.29	11.69	1.70	1.70	0.29	11.71	1.70	1.70	0.29	11.74	1.69	1.69	0.29	11.62	
15	4	15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
		17	1.04	1.05	0.22	3.14	1.03	1.04	0.22	3.06	1.02	1.03	0.22	2.98	1.01	1.02	0.22	2.90	1.00	1.01	0.21	2.82	
		19	-	-	-	-	1.47	1.53	0.32	5.05	1.48	1.53	0.32	5.92	1.50	1.53	0.32	6.79	1.49	1.52	0.32	6.71	
	5	15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
		17	0.90	0.90	0.16	1.70	0.89	0.89	0.15	1.66	0.88	0.88	0.15	1.62	0.87	0.87	0.15	1.58	0.86	0.86	0.15	1.53	
		19	-	-	-	-	1.42	1.43	0.24	4.42	1.41	1.41	0.24	4.00	1.39	1.39	0.24	3.58	1.38	1.38	0.24	3.53	

Abbreviations:

EWT: Enter Water Temp. (°C) Δt: Temperature Difference. (°C) DB: Dry Bulb Temp. (°C) WF: Water Flow. (m³/h)
 WB: Wet Bulb Temp. (°C) TC: Total Cooling Capacity. (kW) SC: Sensible Cooling Capacity. (kW) WPD: Water Pressure Drop. (kPa)

Cooling Capacity

MKG-500-B																							
EWT	ΔT	Indoor temp (W.B.)	Indoor temperature (D.B.)																				
			21				23				25				27				29				
			TC	SC	WF	WPD	TC	SC	WF	WPD	TC	SC	WF	WPD	TC	SC	WF	WPD	TC	SC	WF	WPD	
°C	°C	°C	kW	kW	m³/h	kPa	kW	kW	m³/h	kPa	kW	kW	m³/h	kPa	kW	kW	m³/h	kPa	kW	kW	m³/h	kPa	
5	4	15	3.31	2.41	0.71	30.06	3.29	2.40	0.71	29.62	3.27	2.39	0.70	29.19	3.25	2.38	0.70	28.75	3.23	2.37	0.69	28.31	
		17	4.21	2.86	0.90	50.97	4.19	2.85	0.90	50.51	4.17	2.84	0.90	50.05	4.15	2.83	0.89	49.58	4.13	2.82	0.89	49.12	
		19	-	-	-	-	5.14	3.28	1.10	72.63	5.13	3.29	1.10	72.39	5.12	3.31	1.10	72.14	5.10	3.30	1.10	71.64	
	5	15	3.05	2.31	0.53	16.42	3.04	2.30	0.52	16.16	3.02	2.29	0.52	15.89	3.00	2.28	0.52	15.63	2.98	2.27	0.51	15.36	
		17	3.96	2.75	0.68	29.11	3.94	2.74	0.68	28.83	3.92	2.73	0.67	28.55	3.90	2.72	0.67	28.27	3.88	2.71	0.67	27.99	
		19	-	-	-	-	4.90	3.17	0.84	42.30	4.89	3.19	0.84	42.13	4.88	3.20	0.84	41.96	4.86	3.19	0.84	41.66	
7	4	15	2.61	2.17	0.56	18.69	2.59	2.16	0.56	18.32	2.57	2.15	0.55	17.95	2.55	2.14	0.55	17.57	2.53	2.14	0.54	17.20	
		17	3.52	2.60	0.76	36.50	3.50	2.59	0.75	36.11	3.48	2.58	0.75	35.72	3.46	2.57	0.74	35.32	3.44	2.56	0.74	34.92	
		19	-	-	-	-	4.48	3.00	0.96	55.15	4.46	3.01	0.96	54.84	4.45	3.03	0.96	54.53	4.43	3.02	0.95	54.11	
	5	15	2.35	2.07	0.41	9.76	2.34	2.06	0.40	9.54	2.32	2.05	0.40	9.31	2.30	2.04	0.39	9.08	2.28	2.03	0.39	8.85	
		17	3.30	2.49	0.57	20.72	3.28	2.48	0.56	20.47	3.26	2.47	0.56	20.23	3.23	2.47	0.56	19.99	3.21	2.46	0.55	19.75	
		19	-	-	-	-	4.27	2.89	0.73	32.08	4.26	2.91	0.73	31.94	4.25	2.93	0.73	31.80	4.23	2.92	0.73	31.54	
9	4	15	1.93	1.85	0.42	10.27	1.91	1.84	0.41	9.97	1.89	1.83	0.41	9.66	1.87	1.82	0.40	9.36	1.85	1.81	0.40	9.06	
		17	2.85	2.31	0.61	24.74	2.83	2.30	0.61	24.42	2.81	2.29	0.60	24.10	2.79	2.28	0.60	23.78	2.77	2.27	0.60	23.46	
		19	-	-	-	-	3.81	2.74	0.82	39.89	3.80	2.76	0.82	39.64	3.78	2.77	0.81	39.39	3.76	2.76	0.81	39.05	
	5	15	1.78	1.73	0.31	5.61	1.77	1.72	0.30	5.43	1.75	1.71	0.30	5.26	1.73	1.70	0.30	5.08	1.71	1.69	0.29	4.91	
		17	2.67	2.20	0.46	14.01	2.65	2.19	0.46	13.82	2.64	2.18	0.45	13.63	2.62	2.17	0.45	13.45	2.60	2.16	0.45	13.26	
		19	-	-	-	-	3.60	2.65	0.62	22.81	3.59	2.66	0.62	22.66	3.58	2.68	0.61	22.51	3.55	2.67	0.61	22.31	
11	4	15	1.51	1.51	0.33	6.31	1.50	1.50	0.32	6.11	1.48	1.48	0.32	5.90	1.47	1.47	0.32	5.70	1.45	1.45	0.31	5.49	
		17	2.29	2.02	0.49	16.13	2.27	2.01	0.49	15.92	2.26	2.00	0.49	15.70	2.24	1.98	0.48	15.48	2.22	1.97	0.48	15.26	
		19	-	-	-	-	3.10	2.50	0.67	26.53	3.09	2.51	0.66	26.30	3.08	2.53	0.66	26.07	3.06	2.51	0.66	25.84	
	5	15	1.31	1.31	0.23	3.03	1.30	1.30	0.22	2.92	1.28	1.28	0.22	2.80	1.27	1.27	0.22	2.69	1.25	1.25	0.21	2.57	
		17	2.07	1.89	0.36	8.52	2.05	1.87	0.35	8.40	2.03	1.86	0.35	8.28	2.02	1.85	0.35	8.16	2.00	1.83	0.34	8.03	
		19	-	-	-	-	2.85	2.43	0.49	14.35	2.84	2.45	0.49	14.21	2.83	2.47	0.49	14.07	2.81	2.45	0.48	13.94	
13	4	15	1.07	1.07	0.23	3.17	1.06	1.06	0.23	3.04	1.05	1.05	0.23	2.92	1.03	1.03	0.22	2.79	1.02	1.02	0.22	2.66	
		17	1.71	1.69	0.37	9.22	1.70	1.68	0.37	9.08	1.69	1.66	0.36	8.95	1.67	1.65	0.36	8.81	1.66	1.64	0.36	8.68	
		19	-	-	-	-	2.38	2.29	0.51	15.57	2.37	2.30	0.51	15.45	2.36	2.32	0.51	15.34	2.35	2.30	0.50	15.19	
	5	15	0.77	0.77	0.13	1.05	0.76	0.76	0.13	0.97	0.74	0.74	0.13	0.90	0.73	0.73	0.13	0.82	0.71	0.71	0.12	0.74	
		17	1.49	1.49	0.26	4.79	1.47	1.47	0.25	4.71	1.45	1.45	0.25	4.63	1.44	1.44	0.25	4.55	1.42	1.42	0.24	4.46	
		19	-	-	-	-	2.20	2.19	0.38	8.54	2.21	2.20	0.38	8.56	2.21	2.21	0.38	8.58	2.19	2.19	0.38	8.49	
15	4	15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
		17	1.34	1.37	0.29	2.29	1.33	1.35	0.29	2.23	1.32	1.34	0.28	2.18	1.30	1.32	0.28	2.12	1.29	1.31	0.28	2.06	
		19	-	-	-	-	1.90	1.98	0.41	3.69	1.92	1.98	0.41	4.33	1.94	1.99	0.42	4.96	1.93	1.97	0.41	4.90	
	5	15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
		17	1.17	1.17	0.20	1.24	1.16	1.16	0.20	1.21	1.14	1.14	0.20	1.18	1.13	1.13	0.19	1.15	1.11	1.11	0.19	1.12	
		19	-	-	-	-	1.85	1.86	0.32	3.23	1.83	1.83	0.31	2.92	1.81	1.81	0.31	2.62	1.79	1.79	0.31	2.58	

Abbreviations:

EWT: Enter Water Temp. (°C) Δt: Temperature Difference. (°C) DB: Dry Bulb Temp. (°C) WF: Water Flow. (m³/h)
 WB: Wet Bulb Temp. (°C) TC: Total Cooling Capacity. (kW) SC: Sensible Cooling Capacity. (kW) WPD: Water Pressure Drop. (kPa)

AC Fan Coil Unit Two-pipe Wall-mounted Series



Cooling Capacity

MKG-600-B																							
EWT	ΔT	Indoor temp (W.B.)	Indoor temperature (D.B.)																				
			21				23				25				27				29				
			TC	SC	WF	WPD	TC	SC	WF	WPD	TC	SC	WF	WPD	TC	SC	WF	WPD	TC	SC	WF	WPD	
°C	°C	°C	kW	kW	m³/h	kPa	kW	kW	m³/h	kPa	kW	kW	m³/h	kPa	kW	kW	m³/h	kPa	kW	kW	m³/h	kPa	
5	4	15	3.89	2.84	0.84	40.17	3.87	2.82	0.83	39.59	3.84	2.81	0.83	39.01	3.82	2.80	0.82	38.42	3.80	2.79	0.82	37.84	
		17	4.95	3.36	1.06	68.12	4.93	3.35	1.06	67.50	4.90	3.34	1.05	66.89	4.88	3.32	1.05	66.27	4.86	3.31	1.04	65.65	
		19	-	-	-	-	6.05	3.85	1.30	97.07	6.03	3.87	1.30	96.74	6.02	3.89	1.30	96.41	6.00	3.88	1.29	95.75	
	5	15	3.59	2.71	0.62	21.95	3.57	2.70	0.61	21.60	3.55	2.69	0.61	21.24	3.53	2.68	0.61	20.89	3.50	2.67	0.60	20.53	
		17	4.66	3.24	0.80	38.91	4.64	3.22	0.80	38.53	4.61	3.21	0.79	38.16	4.59	3.20	0.79	37.78	4.57	3.19	0.79	37.41	
		19	-	-	-	-	5.77	3.73	0.99	56.54	5.75	3.75	0.99	56.31	5.74	3.77	0.99	56.07	5.72	3.75	0.98	55.67	
7	4	15	3.07	2.55	0.66	24.98	3.04	2.54	0.65	24.48	3.02	2.53	0.65	23.99	3.00	2.52	0.64	23.49	2.98	2.51	0.64	22.99	
		17	4.15	3.06	0.89	48.78	4.12	3.05	0.89	48.26	4.10	3.03	0.88	47.73	4.07	3.02	0.88	47.21	4.05	3.01	0.87	46.68	
		19	-	-	-	-	5.27	3.53	1.13	73.71	5.25	3.55	1.13	73.30	5.24	3.56	1.13	72.88	5.21	3.55	1.12	72.32	
	5	15	2.77	2.43	0.48	13.05	2.75	2.42	0.47	12.75	2.72	2.41	0.47	12.44	2.70	2.40	0.46	12.13	2.68	2.39	0.46	11.83	
		17	3.88	2.93	0.67	27.69	3.85	2.92	0.66	27.36	3.83	2.91	0.66	27.04	3.81	2.90	0.65	26.72	3.78	2.89	0.65	26.39	
		19	-	-	-	-	5.02	3.40	0.86	42.88	5.01	3.42	0.86	42.69	5.00	3.44	0.86	42.50	4.97	3.43	0.86	42.15	
9	4	15	2.27	2.18	0.49	13.72	2.25	2.17	0.48	13.32	2.23	2.16	0.48	12.92	2.21	2.14	0.47	12.51	2.18	2.13	0.47	12.10	
		17	3.36	2.72	0.72	33.06	3.33	2.70	0.72	32.64	3.31	2.69	0.71	32.21	3.28	2.68	0.71	31.78	3.26	2.67	0.70	31.35	
		19	-	-	-	-	4.48	3.23	0.96	53.31	4.47	3.24	0.96	52.98	4.45	3.26	0.96	52.64	4.43	3.25	0.95	52.18	
	5	15	2.10	2.03	0.36	7.49	2.08	2.02	0.36	7.26	2.06	2.01	0.35	7.03	2.03	2.00	0.35	6.79	2.01	1.99	0.35	6.56	
		17	3.15	2.59	0.54	18.72	3.12	2.58	0.54	18.47	3.10	2.57	0.53	18.22	3.08	2.55	0.53	17.97	3.05	2.54	0.53	17.72	
		19	-	-	-	-	4.23	3.11	0.73	30.49	4.22	3.13	0.73	30.28	4.21	3.15	0.72	30.08	4.18	3.14	0.72	29.81	
11	4	15	1.78	1.78	0.38	8.44	1.76	1.76	0.38	8.16	1.74	1.74	0.37	7.89	1.72	1.72	0.37	7.62	1.71	1.71	0.37	7.34	
		17	2.70	2.37	0.58	21.56	2.68	2.36	0.58	21.27	2.66	2.35	0.57	20.98	2.64	2.33	0.57	20.69	2.62	2.32	0.56	20.40	
		19	-	-	-	-	3.65	2.94	0.79	35.45	3.64	2.95	0.78	35.15	3.62	2.97	0.78	34.85	3.60	2.96	0.77	34.54	
	5	15	1.54	1.54	0.27	4.05	1.53	1.53	0.26	3.90	1.51	1.51	0.26	3.75	1.49	1.49	0.26	3.59	1.47	1.47	0.25	3.44	
		17	2.43	2.22	0.42	11.39	2.41	2.20	0.41	11.22	2.39	2.19	0.41	11.06	2.37	2.17	0.41	10.90	2.35	2.16	0.40	10.74	
		19	-	-	-	-	3.36	2.86	0.58	19.18	3.34	2.88	0.57	19.00	3.33	2.90	0.57	18.81	3.31	2.88	0.57	18.63	
13	4	15	1.26	1.26	0.27	4.23	1.25	1.25	0.27	4.07	1.23	1.23	0.26	3.90	1.22	1.22	0.26	3.73	1.20	1.20	0.26	3.56	
		17	2.02	1.99	0.43	12.32	2.00	1.97	0.43	12.14	1.98	1.96	0.43	11.96	1.97	1.94	0.42	11.78	1.95	1.93	0.42	11.60	
		19	-	-	-	-	2.80	2.69	0.60	20.81	2.79	2.71	0.60	20.65	2.78	2.73	0.60	20.50	2.76	2.71	0.59	20.31	
	5	15	0.91	0.91	0.16	1.40	0.89	0.89	0.15	1.30	0.87	0.87	0.15	1.20	0.86	0.86	0.15	1.09	0.84	0.84	0.14	0.99	
		17	1.75	1.75	0.30	6.41	1.73	1.73	0.30	6.30	1.71	1.71	0.29	6.19	1.69	1.69	0.29	6.07	1.67	1.67	0.29	5.96	
		19	-	-	-	-	2.59	2.58	0.45	11.42	2.59	2.59	0.45	11.44	2.60	2.60	0.45	11.47	2.58	2.58	0.44	11.35	
15	4	15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
		17	1.58	1.61	0.34	3.06	1.57	1.59	0.34	2.99	1.55	1.57	0.33	2.91	1.53	1.56	0.33	2.83	1.52	1.54	0.33	2.75	
		19	-	-	-	-	2.24	2.33	0.48	4.93	2.26	2.33	0.49	5.78	2.29	2.34	0.49	6.64	2.27	2.32	0.49	6.55	
	5	15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
		17	1.38	1.38	0.24	1.66	1.36	1.36	0.23	1.62	1.34	1.34	0.23	1.58	1.33	1.33	0.23	1.54	1.31	1.31	0.23	1.50	
		19	-	-	-	-	2.17	2.18	0.37	4.32	2.15	2.15	0.37	3.91	2.12	2.12	0.37	3.50	2.11	2.11	0.36	3.45	

Abbreviations:

EWT: Enter Water Temp. (°C) Δt: Temperature Difference. (°C) DB: Dry Bulb Temp. (°C) WF: Water Flow. (m³/h)
 WB: Wet Bulb Temp. (°C) TC: Total Cooling Capacity. (kW) SC: Sensible Cooling Capacity. (kW) WPD: Water Pressure Drop. (kPa)

Heating Capacity

MKG-250-B													
EWT	ΔT	Indoor temperature (W.B.)											
		16			18			20			22		
		TH	WF	WPD	TH	WF	WPD	TH	WF	WPD	TH	WF	WPD
°C	°C	kW	m³/h	kPa	kW	m³/h	kPa	kW	m³/h	kPa	kW	m³/h	kPa
40	8	2.66	0.29	8.61	2.33	0.25	6.96	2.01	0.22	5.44	1.69	0.18	4.09
	10	2.69	0.23	5.11	2.32	0.20	4.00	1.95	0.17	3.01	1.58	0.14	2.13
	12	-	-	-	-	-	-	-	-	-	-	-	-
	14	-	-	-	-	-	-	-	-	-	-	-	-
	16	-	-	-	-	-	-	-	-	-	-	-	-
45	8	3.26	0.35	13.54	2.95	0.32	11.51	2.65	0.28	9.62	2.35	0.25	7.89
	10	3.13	0.27	7.92	2.81	0.24	6.63	2.49	0.21	5.43	2.17	0.19	4.34
	12	3.01	0.22	5.05	2.67	0.19	4.14	2.33	0.17	3.30	1.99	0.14	2.55
	14	2.85	0.17	3.27	2.48	0.15	2.61	2.12	0.13	2.01	1.76	0.11	1.48
	16	2.52	0.14	1.80	2.15	0.12	1.39	1.78	0.10	1.02	1.41	0.08	0.69
50	8	3.90	0.42	19.66	3.60	0.39	17.25	3.31	0.36	14.97	3.01	0.32	12.85
	10	3.75	0.32	11.61	3.45	0.30	10.08	3.14	0.27	8.65	2.84	0.24	7.32
	12	3.64	0.26	7.56	3.32	0.24	6.48	3.00	0.21	5.48	2.68	0.19	4.56
	14	3.50	0.22	5.09	3.16	0.19	4.30	2.83	0.17	3.57	2.49	0.15	2.90
	16	3.36	0.18	3.57	3.00	0.16	2.96	2.64	0.14	2.40	2.29	0.12	1.89
55	8	4.52	0.49	26.72	4.23	0.45	23.93	3.94	0.42	21.28	3.65	0.39	18.78
	10	4.39	0.38	16.09	4.09	0.35	14.32	3.80	0.33	12.64	3.50	0.30	11.06
	12	4.27	0.31	10.48	3.96	0.28	9.25	3.65	0.26	8.09	3.35	0.24	7.01
	14	4.13	0.25	7.17	3.81	0.23	6.27	3.49	0.21	5.43	3.17	0.19	4.64
	16	3.99	0.21	5.15	3.66	0.20	4.46	3.32	0.18	3.81	2.99	0.16	3.20
60	8	5.16	0.55	35.04	4.87	0.52	31.83	4.58	0.49	28.80	4.30	0.46	25.91
	10	5.06	0.43	21.46	4.76	0.41	19.42	4.46	0.38	17.47	4.17	0.36	15.63
	12	4.94	0.35	14.13	4.64	0.33	12.72	4.33	0.31	11.37	4.03	0.29	10.10
	14	4.81	0.30	9.82	4.50	0.28	8.78	4.18	0.26	7.80	3.87	0.24	6.87
	16	4.68	0.25	7.12	4.35	0.23	6.32	4.03	0.22	5.56	3.71	0.20	4.85

Abbreviations:

Δt: Temperature Difference. (°C) **TH:** Total Heating Capacity. (kW) **WF:** Water Flow. (m³/h) **WPD:** Water Pressure Drop. (kPa)

AC Fan Coil Unit Two-pipe Wall-mounted Series



Heating Capacity

MKG-300-B													
EWT	ΔT	Indoor temperature (W.B.)											
		16			18			20			22		
		TH	WF	WPD	TH	WF	WPD	TH	WF	WPD	TH	WF	WPD
$^{\circ}\text{C}$	$^{\circ}\text{C}$	kW	m ³ /h	kPa	kW	m ³ /h	kPa	kW	m ³ /h	kPa	kW	m ³ /h	kPa
40	8	3.09	0.33	11.32	2.71	0.29	9.12	2.34	0.25	7.12	1.96	0.21	5.33
	10	3.15	0.27	6.74	2.71	0.23	5.26	2.27	0.20	3.94	1.84	0.16	2.77
	12	-	-	-	-	-	-	-	-	-	-	-	-
	14	-	-	-	-	-	-	-	-	-	-	-	-
	16	-	-	-	-	-	-	-	-	-	-	-	-
45	8	3.78	0.41	17.79	3.43	0.37	15.10	3.07	0.33	12.61	2.72	0.29	10.31
	10	3.64	0.31	10.42	3.26	0.28	8.70	2.89	0.25	7.12	2.51	0.22	5.67
	12	3.51	0.25	6.70	3.10	0.22	5.47	2.70	0.19	4.36	2.30	0.17	3.35
	14	3.32	0.20	4.34	2.89	0.18	3.45	2.46	0.15	2.65	2.03	0.12	1.93
	16	2.94	0.16	2.40	2.50	0.13	1.84	2.06	0.11	1.34	1.62	0.09	0.90
50	8	4.52	0.49	25.81	4.18	0.45	22.61	3.83	0.41	19.62	3.49	0.38	16.81
	10	4.36	0.37	15.25	4.00	0.34	13.22	3.64	0.31	11.33	3.29	0.28	9.57
	12	4.23	0.30	9.98	3.86	0.28	8.55	3.48	0.25	7.21	3.11	0.22	5.98
	14	4.07	0.25	6.71	3.67	0.23	5.66	3.28	0.20	4.69	2.88	0.18	3.80
	16	3.91	0.21	4.73	3.49	0.19	3.91	3.07	0.16	3.16	2.65	0.14	2.48
55	8	5.25	0.56	35.06	4.91	0.53	31.37	4.57	0.49	27.89	4.23	0.46	24.60
	10	5.10	0.44	21.12	4.75	0.41	18.77	4.40	0.38	16.56	4.06	0.35	14.47
	12	4.96	0.36	13.81	4.60	0.33	12.17	4.24	0.30	10.63	3.88	0.28	9.19
	14	4.80	0.29	9.44	4.42	0.27	8.25	4.05	0.25	7.13	3.67	0.23	6.08
	16	4.64	0.25	6.79	4.25	0.23	5.87	3.86	0.21	5.00	3.47	0.19	4.20
60	8	5.99	0.64	45.92	5.65	0.61	41.75	5.31	0.57	37.73	4.98	0.54	33.93
	10	5.87	0.50	28.15	5.52	0.47	25.46	5.17	0.45	22.90	4.83	0.42	20.46
	12	5.74	0.41	18.58	5.38	0.39	16.71	5.03	0.36	14.94	4.67	0.33	13.25
	14	5.59	0.34	12.91	5.22	0.32	11.54	4.85	0.30	10.23	4.49	0.28	9.00
	16	5.43	0.29	9.37	5.05	0.27	8.31	4.67	0.25	7.30	4.30	0.23	6.36

Abbreviations:

Δt : Temperature Difference. ($^{\circ}\text{C}$) **TH:** Total Heating Capacity. (kW) **WF:** Water Flow. (m³/h) **WPD:** Water Pressure Drop. (kPa)

Heating Capacity

MKG-400-B													
EWT	ΔT	Indoor temperature (W.B.)											
		16			18			20			22		
		TH	WF	WPD	TH	WF	WPD	TH	WF	WPD	TH	WF	WPD
$^{\circ}\text{C}$	$^{\circ}\text{C}$	kW	m ³ /h	kPa	kW	m ³ /h	kPa	kW	m ³ /h	kPa	kW	m ³ /h	kPa
40	8	3.51	0.38	15.58	3.07	0.33	12.50	2.64	0.28	9.72	2.20	0.24	7.24
	10	3.60	0.31	9.33	3.09	0.27	7.25	2.58	0.22	5.38	2.07	0.18	3.75
	12	-	-	-	-	-	-	-	-	-	-	-	-
	14	-	-	-	-	-	-	-	-	-	-	-	-
	16	-	-	-	-	-	-	-	-	-	-	-	-
45	8	4.27	0.46	24.44	3.86	0.42	20.71	3.46	0.37	17.26	3.05	0.33	14.07
	10	4.11	0.35	14.35	3.67	0.32	11.95	3.25	0.28	9.74	2.82	0.24	7.73
	12	3.97	0.28	9.34	3.51	0.25	7.60	3.04	0.22	6.02	2.59	0.19	4.60
	14	3.77	0.23	6.05	3.27	0.20	4.79	2.77	0.17	3.65	2.28	0.14	2.64
	16	3.35	0.18	3.36	2.84	0.15	2.55	2.33	0.12	1.84	1.82	0.10	1.22
50	8	5.10	0.55	35.41	4.70	0.51	30.99	4.31	0.46	26.85	3.92	0.42	22.98
	10	4.91	0.42	20.95	4.50	0.39	18.13	4.10	0.35	15.51	3.69	0.32	13.07
	12	4.78	0.34	13.81	4.35	0.31	11.81	3.92	0.28	9.94	3.49	0.25	8.21
	14	4.60	0.28	9.30	4.14	0.25	7.82	3.69	0.23	6.45	3.24	0.20	5.20
	16	4.43	0.24	6.57	3.94	0.21	5.42	3.45	0.19	4.36	2.97	0.16	3.40
55	8	5.91	0.64	48.06	5.52	0.59	42.98	5.14	0.55	38.16	4.76	0.51	33.62
	10	5.75	0.49	28.97	5.35	0.46	25.73	4.95	0.43	22.66	4.56	0.39	19.77
	12	5.60	0.40	19.05	5.18	0.37	16.77	4.77	0.34	14.62	4.36	0.31	12.62
	14	5.42	0.33	13.02	4.98	0.31	11.35	4.55	0.28	9.78	4.13	0.25	8.32
	16	5.25	0.28	9.40	4.79	0.26	8.09	4.34	0.23	6.88	3.89	0.21	5.75
60	8	6.74	0.72	62.93	6.36	0.68	57.14	5.98	0.64	51.64	5.60	0.60	46.41
	10	6.61	0.57	38.60	6.21	0.53	34.87	5.82	0.50	31.33	5.44	0.47	27.97
	12	6.47	0.46	25.59	6.06	0.43	22.99	5.66	0.41	20.52	5.26	0.38	18.18
	14	6.30	0.39	17.78	5.88	0.36	15.86	5.46	0.34	14.04	5.05	0.31	12.33
	16	6.13	0.33	12.91	5.69	0.31	11.43	5.26	0.28	10.03	4.83	0.26	8.71

Abbreviations:

Δt : Temperature Difference. ($^{\circ}\text{C}$) **TH**: Total Heating Capacity. (kW) **WF**: Water Flow. (m³/h) **WPD**: Water Pressure Drop. (kPa)

AC Fan Coil Unit Two-pipe Wall-mounted Series



Heating Capacity

MKG-500-B													
EWT	ΔT	Indoor temperature (W.B.)											
		16			18			20			22		
		TH	WF	WPD	TH	WF	WPD	TH	WF	WPD	TH	WF	WPD
$^{\circ}\text{C}$	$^{\circ}\text{C}$	kW	m ³ /h	kPa	kW	m ³ /h	kPa	kW	m ³ /h	kPa	kW	m ³ /h	kPa
40	8	4.57	0.49	11.80	4.03	0.43	9.56	3.48	0.37	7.53	2.94	0.32	5.69
	10	4.60	0.40	6.95	3.98	0.34	5.48	3.36	0.29	4.14	2.74	0.24	2.96
	12	-	-	-	-	-	-	-	-	-	-	-	-
	14	-	-	-	-	-	-	-	-	-	-	-	-
	16	-	-	-	-	-	-	-	-	-	-	-	-
45	8	5.65	0.61	18.57	5.13	0.55	15.83	4.61	0.50	13.27	4.09	0.44	10.91
	10	5.42	0.47	10.85	4.87	0.42	9.10	4.33	0.37	7.49	3.79	0.33	6.02
	12	5.19	0.37	6.81	4.61	0.33	5.61	4.04	0.29	4.51	3.47	0.25	3.50
	14	4.90	0.30	4.41	4.29	0.26	3.54	3.68	0.23	2.75	3.07	0.19	2.04
	16	4.31	0.23	2.41	3.70	0.20	1.87	3.09	0.17	1.39	2.47	0.13	0.96
50	8	6.77	0.73	27.03	6.26	0.67	23.75	5.75	0.62	20.65	5.25	0.56	17.75
	10	6.51	0.56	15.93	5.98	0.51	13.87	5.46	0.47	11.93	4.94	0.43	10.12
	12	6.30	0.45	10.29	5.75	0.41	8.85	5.21	0.37	7.51	4.67	0.33	6.27
	14	6.05	0.37	6.93	5.48	0.34	5.88	4.91	0.30	4.91	4.34	0.27	4.01
	16	5.79	0.31	4.82	5.19	0.28	4.02	4.59	0.25	3.29	3.99	0.21	2.61
55	8	7.85	0.84	36.78	7.35	0.79	32.97	6.85	0.74	29.35	6.36	0.68	25.93
	10	7.63	0.66	22.12	7.11	0.61	19.71	6.60	0.57	17.43	6.10	0.52	15.28
	12	7.41	0.53	14.33	6.88	0.49	12.67	6.35	0.46	11.11	5.83	0.42	9.65
	14	7.16	0.44	9.80	6.61	0.41	8.60	6.07	0.37	7.46	5.53	0.34	6.40
	16	6.91	0.37	7.02	6.34	0.34	6.09	5.78	0.31	5.22	5.22	0.28	4.41
60	8	8.97	0.96	48.22	8.47	0.91	43.85	7.97	0.86	39.72	7.48	0.80	35.78
	10	8.78	0.76	29.54	8.27	0.71	26.75	7.76	0.67	24.10	7.26	0.62	21.58
	12	8.58	0.61	19.37	8.05	0.58	17.45	7.53	0.54	15.63	7.02	0.50	13.91
	14	8.34	0.51	13.46	7.81	0.48	12.06	7.27	0.45	10.73	6.75	0.41	9.47
	16	8.10	0.44	9.73	7.55	0.41	8.66	7.00	0.38	7.65	6.46	0.35	6.69

Abbreviations:

Δt : Temperature Difference. ($^{\circ}\text{C}$) **TH**: Total Heating Capacity. (kW) **WF**: Water Flow. (m³/h) **WPD**: Water Pressure Drop. (kPa)

Heating Capacity

MKG-600-B													
EWT	ΔT	Indoor temperature (W.B.)											
		16			18			20			22		
		TH	WF	WPD	TH	WF	WPD	TH	WF	WPD	TH	WF	WPD
$^{\circ}\text{C}$	$^{\circ}\text{C}$	kW	m ³ /h	kPa	kW	m ³ /h	kPa	kW	m ³ /h	kPa	kW	m ³ /h	kPa
40	8	5.28	0.57	14.79	4.65	0.50	11.96	4.01	0.43	9.39	3.38	0.36	7.08
	10	5.33	0.46	8.74	4.61	0.40	6.86	3.88	0.33	5.17	3.16	0.27	3.68
	12	-	-	-	-	-	-	-	-	-	-	-	-
	14	-	-	-	-	-	-	-	-	-	-	-	-
	16	-	-	-	-	-	-	-	-	-	-	-	-
45	8	6.51	0.70	23.27	5.90	0.63	19.80	5.30	0.57	16.59	4.70	0.51	13.61
	10	6.24	0.54	13.61	5.61	0.48	11.40	4.98	0.43	9.37	4.35	0.37	7.50
	12	5.99	0.43	8.60	5.32	0.38	7.07	4.65	0.33	5.66	3.98	0.29	4.38
	14	5.66	0.35	5.57	4.95	0.30	4.46	4.24	0.26	3.45	3.53	0.22	2.55
	16	4.99	0.27	3.05	4.27	0.23	2.36	3.55	0.19	1.74	2.83	0.15	1.20
50	8	7.79	0.84	33.85	7.20	0.77	29.70	6.61	0.71	25.81	6.03	0.65	22.17
	10	7.49	0.64	19.96	6.89	0.59	17.36	6.28	0.54	14.91	5.68	0.49	12.63
	12	7.26	0.52	12.94	6.63	0.47	11.12	5.99	0.43	9.42	5.37	0.38	7.85
	14	6.98	0.43	8.71	6.31	0.39	7.38	5.65	0.35	6.15	4.99	0.31	5.01
	16	6.68	0.36	6.08	5.98	0.32	5.06	5.28	0.28	4.12	4.58	0.25	3.27
55	8	9.04	0.97	46.00	8.46	0.91	41.23	7.88	0.85	36.69	7.31	0.79	32.42
	10	8.78	0.76	27.70	8.18	0.70	24.66	7.59	0.65	21.79	7.01	0.60	19.09
	12	8.53	0.61	17.99	7.92	0.57	15.90	7.31	0.52	13.93	6.70	0.48	12.07
	14	8.24	0.51	12.31	7.61	0.47	10.78	6.98	0.43	9.35	6.35	0.39	8.00
	16	7.96	0.43	8.82	7.30	0.39	7.64	6.65	0.36	6.54	5.99	0.32	5.52
60	8	10.31	1.11	60.33	9.74	1.05	54.85	9.17	0.99	49.65	8.60	0.92	44.70
	10	10.10	0.87	36.94	9.51	0.82	33.45	8.93	0.77	30.13	8.35	0.72	26.96
	12	9.87	0.71	24.28	9.27	0.66	21.87	8.66	0.62	19.58	8.07	0.58	17.41
	14	9.61	0.59	16.88	8.98	0.55	15.11	8.37	0.51	13.43	7.75	0.48	11.85
	16	9.33	0.50	12.22	8.69	0.47	10.86	8.05	0.43	9.57	7.42	0.40	8.37

Abbreviations:

Δt : Temperature Difference. ($^{\circ}\text{C}$) **TH**: Total Heating Capacity. (kW) **WF**: Water Flow. (m³/h) **WPD**: Water Pressure Drop. (kPa)

AC Fan Coil Unit Two-pipe Wall-mounted Series



14.2 A / P panel

Cooling capacity

MKG-250-C/ MKG-250-D																							
EWT	ΔT	Indoor	Indoor temperature (D.B.)																				
		temp (W.B.)	21				23				25				27				29				
			TC	SC	WF	WPD	TC	SC	WF	WPD	TC	SC	WF	WPD	TC	SC	WF	WPD	TC	SC	WF	WPD	
°C	°C	°C	kW	kW	m³/h	kPa	kW	kW	m³/h	kPa	kW	kW	m³/h	kPa	kW	kW	m³/h	kPa	kW	kW	m³/h	kPa	
5	4	15	1.44	1.23	0.31	6.48	1.46	1.44	0.31	6.71	1.64	1.64	0.35	9.07	1.84	1.84	0.39	11.53	2.04	2.04	0.44	13.87	
		17	2.05	1.23	0.44	13.88	2.03	1.44	0.44	13.73	2.02	1.64	0.43	13.58	2.00	1.85	0.43	13.39	2.05	2.05	0.44	13.95	
		19	-	-	-	-	2.70	1.45	0.58	22.44	2.68	1.65	0.58	22.22	2.67	1.86	0.58	22.01	2.65	2.06	0.57	21.79	
	5	15	1.23	1.13	0.21	2.54	1.34	1.34	0.23	2.99	1.53	1.53	0.26	4.24	1.73	1.73	0.30	5.84	1.93	1.93	0.33	7.79	
		17	1.78	1.11	0.30	6.29	1.76	1.32	0.30	6.18	1.75	1.53	0.30	6.04	1.77	1.73	0.30	6.23	1.93	1.93	0.33	7.82	
		19	-	-	-	-	2.42	1.33	0.42	12.58	2.41	1.53	0.41	12.45	2.39	1.74	0.41	12.31	2.38	1.94	0.41	12.18	
7	4	15	1.05	1.04	0.23	2.90	1.23	1.23	0.27	4.47	1.43	1.43	0.31	6.71	1.64	1.64	0.35	9.24	1.84	1.84	0.40	11.61	
		17	1.56	1.02	0.34	8.30	1.55	1.23	0.33	8.13	1.54	1.44	0.33	8.00	1.64	1.64	0.35	9.27	1.85	1.85	0.40	11.64	
		19	-	-	-	-	2.22	1.24	0.48	15.90	2.21	1.45	0.48	15.74	2.19	1.65	0.47	15.57	2.18	1.85	0.47	15.37	
	5	15	0.94	0.94	0.16	1.77	1.14	1.14	0.20	2.21	1.34	1.34	0.23	3.06	1.53	1.53	0.26	4.42	1.73	1.73	0.30	6.13	
		17	1.32	0.92	0.23	2.97	1.31	1.13	0.23	2.91	1.37	1.34	0.23	3.24	1.54	1.54	0.26	4.44	1.73	1.73	0.30	6.16	
		19	-	-	-	-	1.92	1.12	0.33	7.98	1.91	1.32	0.33	7.86	1.94	1.66	0.35	31.60	1.88	1.73	0.32	7.59	
9	4	15	0.84	0.84	0.18	1.92	1.04	1.04	0.22	2.93	1.23	1.23	0.27	4.62	1.43	1.43	0.31	6.89	1.64	1.64	0.35	9.23	
		17	1.07	0.83	0.23	3.20	1.09	1.04	0.24	3.34	1.23	1.23	0.27	4.64	1.44	1.44	0.31	6.92	1.64	1.64	0.35	9.26	
		19	-	-	-	-	1.70	1.03	0.36	9.82	1.68	1.24	0.36	9.68	1.67	1.44	0.36	9.50	1.69	1.65	0.36	9.71	
	5	15	0.73	0.73	0.13	1.31	0.94	0.94	0.16	1.67	1.14	1.14	0.20	2.16	1.34	1.34	0.23	3.17	1.53	1.53	0.26	4.61	
		17	0.83	0.73	0.14	1.47	0.95	0.94	0.16	1.69	1.14	1.14	0.20	2.17	1.34	1.34	0.23	3.19	1.53	1.53	0.26	4.63	
		19	-	-	-	-	1.41	0.92	0.24	3.70	1.40	1.13	0.24	3.60	1.41	1.34	0.24	3.72	1.54	1.54	0.26	4.65	
11	4	15	0.63	0.63	0.13	1.35	0.84	0.84	0.18	1.83	1.03	1.03	0.22	2.95	1.23	1.23	0.26	4.75	1.43	1.43	0.31	6.97	
		17	0.64	0.63	0.14	1.38	0.84	0.84	0.18	1.83	1.04	1.04	0.22	2.96	1.23	1.23	0.26	4.77	1.44	1.44	0.31	6.99	
		19	-	-	-	-	1.15	0.82	0.25	3.90	1.14	1.03	0.24	3.88	1.24	1.24	0.27	4.83	1.44	1.44	0.31	7.02	
	5	15	0.53	0.53	0.09	0.90	0.74	0.74	0.13	1.24	0.94	0.94	0.16	1.59	1.14	1.14	0.20	2.18	1.34	1.34	0.23	3.31	
		17	0.53	0.53	0.09	0.90	0.74	0.74	0.13	1.25	0.94	0.94	0.16	1.59	1.14	1.14	0.20	2.19	1.34	1.34	0.23	3.32	
		19	-	-	-	-	0.89	0.73	0.15	1.50	0.98	0.94	0.17	1.66	1.14	1.14	0.20	2.20	1.34	1.34	0.23	3.34	
13	4	15	0.43	0.43	0.09	0.87	0.63	0.63	0.14	1.29	0.84	0.84	0.18	1.82	1.03	1.03	0.22	3.11	1.23	1.23	0.27	5.00	
		17	0.43	0.43	0.09	0.87	0.63	0.63	0.14	1.29	0.84	0.84	0.18	1.83	1.04	1.04	0.22	3.12	1.23	1.23	0.27	5.02	
		19	-	-	-	-	0.67	0.63	0.14	1.36	0.84	0.84	0.18	1.83	1.04	1.04	0.22	3.14	1.24	1.24	0.27	5.04	
	5	15	0.32	0.32	0.06	0.52	0.53	0.53	0.09	0.85	0.73	0.73	0.13	1.17	0.94	0.94	0.16	1.51	1.14	1.14	0.20	2.20	
		17	0.32	0.32	0.06	0.52	0.53	0.53	0.09	0.85	0.74	0.74	0.13	1.17	0.94	0.94	0.16	1.52	1.14	1.14	0.20	2.21	
		19	-	-	-	-	0.53	0.53	0.09	0.85	0.74	0.74	0.13	1.18	0.94	0.94	0.16	1.52	1.14	1.14	0.20	2.22	
15	4	15	0.22	0.22	0.05	0.42	0.43	0.43	0.09	0.82	0.63	0.63	0.14	1.22	0.83	0.83	0.18	1.81	1.03	1.03	0.22	3.17	
		17	0.22	0.22	0.05	0.42	0.43	0.43	0.09	0.82	0.63	0.63	0.14	1.22	0.84	0.84	0.18	1.81	1.03	1.03	0.22	3.18	
		19	-	-	-	-	0.43	0.43	0.09	0.82	0.63	0.63	0.14	1.22	0.84	0.84	0.18	1.82	1.03	1.03	0.22	3.20	
	5	15	0.12	0.12	0.02	0.17	0.33	0.33	0.06	0.50	0.53	0.53	0.09	0.81	0.74	0.74	0.13	1.12	0.94	0.94	0.16	1.49	
		17	0.12	0.12	0.02	0.18	0.33	0.33	0.06	0.50	0.53	0.53	0.09	0.81	0.74	0.74	0.13	1.13	0.94	0.94	0.16	1.49	
		19	-	-	-	-	0.33	0.33	0.06	0.50	0.53	0.53	0.09	0.81	0.74	0.74	0.13	1.13	0.94	0.94	0.16	1.50	

Abbreviations:

EWT: Enter Water Temp. (°C) Δt: Temperature Difference. (°C) DB: Dry Bulb Temp. (°C) WF: Water Flow. (m³/h)
 WB: Wet Bulb Temp. (°C) TC: Total Cooling Capacity. (kW) SC: Sensible Cooling Capacity. (kW) WPD: Water Pressure Drop. (kPa)

Cooling capacity

MKG-300-C/ MKG-300-D																							
EWT	ΔT	Indoor	Indoor temperature (D.B.)																				
		temp (W.B.)	21				23				25				27				29				
			TC	SC	WF	WPD	TC	SC	WF	WPD	TC	SC	WF	WPD	TC	SC	WF	WPD	TC	SC	WF	WPD	
°C	°C	°C	kW	kW	m³/h	kPa	kW	kW	m³/h	kPa	kW	kW	m³/h	kPa	kW	kW	m³/h	kPa	kW	kW	m³/h	kPa	
5	4	15	1.97	1.64	0.42	13.00	1.98	1.92	0.43	13.17	2.18	2.18	0.47	15.47	2.45	2.45	0.53	19.00	2.71	2.71	0.58	22.41	
		17	2.78	1.66	0.60	23.29	2.76	1.92	0.59	23.02	2.74	2.19	0.59	22.73	2.72	2.45	0.58	22.44	2.76	2.71	0.59	23.04	
		19	-	-	-	-	3.61	1.93	0.78	36.62	3.59	2.20	0.77	36.23	3.57	2.46	0.77	35.84	3.55	2.72	0.76	35.46	
	5	15	1.67	1.51	0.29	5.33	1.78	1.78	0.31	6.36	2.04	2.04	0.35	8.94	2.30	2.30	0.40	11.53	2.57	2.57	0.44	13.90	
		17	2.45	1.51	0.42	12.82	2.43	1.78	0.42	12.65	2.41	2.04	0.41	12.45	2.42	2.31	0.42	12.57	2.57	2.57	0.44	13.95	
		19	-	-	-	-	3.29	1.79	0.57	21.21	3.27	2.06	0.56	20.97	3.26	2.32	0.56	20.88	3.23	2.58	0.56	20.71	
7	4	15	1.41	1.38	0.30	6.46	1.64	1.64	0.35	9.32	1.92	1.92	0.41	12.37	2.18	2.18	0.47	15.42	2.44	2.44	0.53	18.51	
		17	2.16	1.38	0.47	15.09	2.13	1.65	0.46	14.84	2.12	1.92	0.46	14.70	2.21	2.19	0.48	15.73	2.45	2.45	0.53	18.57	
		19	-	-	-	-	2.99	1.66	0.64	26.19	2.97	1.93	0.64	25.88	2.95	2.19	0.64	25.58	2.93	2.45	0.63	25.22	
	5	15	1.26	1.25	0.22	2.64	1.51	1.51	0.26	4.27	1.77	1.77	0.30	6.56	2.04	2.04	0.35	9.11	2.30	2.30	0.40	11.41	
		17	1.79	1.23	0.31	6.76	1.78	1.50	0.31	6.62	1.84	1.78	0.32	7.19	2.04	2.04	0.35	9.15	2.31	2.31	0.40	11.44	
		19	-	-	-	-	2.65	1.52	0.46	14.47	2.63	1.78	0.45	14.28	2.64	2.10	0.47	37.50	2.59	2.31	0.45	13.92	
9	4	15	1.11	1.11	0.24	3.54	1.37	1.37	0.30	6.18	1.64	1.64	0.35	9.27	1.91	1.91	0.41	12.02	2.18	2.18	0.47	14.99	
		17	1.46	1.10	0.31	7.17	1.47	1.37	0.32	7.37	1.65	1.64	0.35	9.30	1.92	1.92	0.41	12.06	2.18	2.18	0.47	15.04	
		19	-	-	-	-	2.33	1.39	0.50	16.79	2.30	1.65	0.50	16.52	2.28	1.92	0.49	16.26	2.30	2.19	0.50	16.51	
	5	15	0.98	0.98	0.17	1.75	1.25	1.25	0.21	2.66	1.51	1.51	0.26	4.43	1.77	1.77	0.30	6.75	2.04	2.04	0.35	9.09	
		17	1.15	0.98	0.20	2.21	1.28	1.25	0.22	2.85	1.51	1.51	0.26	4.46	1.77	1.77	0.31	6.78	2.04	2.04	0.35	9.12	
		19	-	-	-	-	1.94	1.24	0.33	8.29	1.92	1.51	0.33	8.11	1.93	1.78	0.33	8.23	2.07	2.05	0.36	9.33	
11	4	15	0.84	0.84	0.18	1.86	1.11	1.11	0.24	3.56	1.37	1.37	0.29	6.28	1.64	1.64	0.35	9.07	1.91	1.91	0.41	11.71	
		17	0.88	0.85	0.19	2.01	1.11	1.11	0.24	3.58	1.37	1.37	0.29	6.31	1.64	1.64	0.35	9.10	1.91	1.91	0.41	11.74	
		19	-	-	-	-	1.58	1.11	0.34	8.50	1.58	1.38	0.34	8.46	1.68	1.65	0.36	9.46	1.92	1.92	0.41	11.78	
	5	15	0.72	0.72	0.12	1.20	0.98	0.98	0.17	1.68	1.25	1.25	0.21	2.76	1.51	1.51	0.26	4.61	1.77	1.77	0.30	6.88	
		17	0.72	0.72	0.12	1.21	0.99	0.99	0.17	1.68	1.25	1.25	0.22	2.77	1.51	1.51	0.26	4.63	1.77	1.77	0.31	6.91	
		19	-	-	-	-	1.23	0.97	0.21	2.65	1.32	1.25	0.23	3.23	1.51	1.51	0.26	4.66	1.78	1.78	0.31	6.94	
13	4	15	0.57	0.57	0.12	1.16	0.84	0.84	0.18	1.85	1.11	1.11	0.24	3.74	1.37	1.37	0.29	6.37	1.64	1.64	0.35	8.91	
		17	0.57	0.57	0.12	1.17	0.85	0.85	0.18	1.86	1.11	1.11	0.24	3.76	1.37	1.37	0.29	6.40	1.64	1.64	0.35	8.93	
		19	-	-	-	-	0.91	0.85	0.20	2.24	1.11	1.11	0.24	3.78	1.37	1.37	0.29	6.43	1.65	1.65	0.35	8.96	
	5	15	0.44	0.44	0.08	0.70	0.71	0.71	0.12	1.13	0.98	0.98	0.17	1.61	1.24	1.24	0.21	2.80	1.50	1.50	0.26	4.69	
		17	0.44	0.44	0.08	0.70	0.71	0.71	0.12	1.13	0.98	0.98	0.17	1.62	1.24	1.24	0.21	2.82	1.51	1.51	0.26	4.71	
		19	-	-	-	-	0.73	0.72	0.12	1.16	0.99	0.99	0.17	1.62	1.25	1.25	0.21	2.83	1.51	1.51	0.26	4.73	
15	4	15	0.30	0.30	0.06	0.57	0.57	0.57	0.12	1.10	0.84	0.84	0.18	1.84	1.10	1.10	0.24	3.81	1.37	1.37	0.29	6.42	
		17	0.30	0.30	0.06	0.57	0.57	0.57	0.12	1.10	0.84	0.84	0.18	1.85	1.10	1.10	0.24	3.82	1.37	1.37	0.29	6.44	
		19	-	-	-	-	0.57	0.57	0.12	1.10	0.84	0.84	0.18	1.86	1.11	1.11	0.24	3.84	1.38	1.38	0.29	6.47	
	5	15	0.16	0.16	0.03	0.24	0.44	0.44	0.08	0.67	0.71	0.71	0.12	1.08	0.98	0.98	0.17	1.61	1.24	1.24	0.21	2.94	
		17	0.16	0.16	0.03	0.24	0.44	0.44	0.08	0.67	0.72	0.72	0.12	1.09	0.98	0.98	0.17	1.62	1.24	1.24	0.21	2.95	
		19	-	-	-	-	0.44	0.44	0.08	0.67	0.72	0.72	0.12	1.09	0.99	0.99	0.17	1.62	1.25	1.25	0.21	2.97	

Abbreviations:

EWT: Enter Water Temp. ($^{\circ}\text{C}$) Δt : Temperature Difference. ($^{\circ}\text{C}$) DB: Dry Bulb Temp. ($^{\circ}\text{C}$) WF: Water Flow. (m³/h)
 WB: Wet Bulb Temp. ($^{\circ}\text{C}$) TC: Total Cooling Capacity. (kW) SC: Sensible Cooling Capacity. (kW) WPD: Water Pressure Drop. (kPa)

AC Fan Coil Unit Two-pipe Wall-mounted Series



Cooling capacity

MKG-400-C/ MKG-400-D																							
EWT	ΔT	Indoor	Indoor temperature (D.B.)																				
		temp (W.B.)	21				23				25				27				29				
			TC	SC	WF	WPD	TC	SC	WF	WPD	TC	SC	WF	WPD	TC	SC	WF	WPD	TC	SC	WF	WPD	
°C	°C	°C	kW	kW	m³/h	kPa	kW	kW	m³/h	kPa	kW	kW	m³/h	kPa	kW	kW	m³/h	kPa	kW	kW	m³/h	kPa	
5	4	15	2.17	1.81	0.46	15.29	2.19	2.11	0.47	15.60	2.42	2.41	0.52	18.57	2.71	2.71	0.58	22.40	3.00	3.00	0.64	26.63	
		17	3.06	1.82	0.66	27.49	3.04	2.12	0.65	27.22	3.02	2.42	0.65	26.94	3.00	2.71	0.64	26.60	3.06	3.01	0.66	27.48	
		19	-	-	-	-	3.99	2.13	0.86	43.44	3.97	2.43	0.85	43.02	3.94	2.72	0.85	42.63	3.92	3.01	0.84	42.25	
	5	15	1.81	1.65	0.31	6.60	1.96	1.95	0.34	8.11	2.25	2.25	0.39	11.03	2.55	2.55	0.44	13.74	2.85	2.85	0.49	16.70	
		17	2.70	1.66	0.46	15.24	2.68	1.96	0.46	15.08	2.66	2.26	0.46	14.86	2.68	2.56	0.46	15.09	2.85	2.85	0.49	16.77	
		19	-	-	-	-	3.63	1.97	0.62	25.06	3.61	2.27	0.62	24.82	3.59	2.56	0.62	24.57	3.57	2.86	0.61	24.33	
7	4	15	1.55	1.51	0.33	8.16	1.82	1.82	0.39	11.25	2.12	2.12	0.46	14.68	2.41	2.41	0.52	18.15	2.71	2.71	0.58	22.09	
		17	2.36	1.52	0.51	17.52	2.34	1.82	0.50	17.27	2.33	2.12	0.50	17.12	2.44	2.42	0.53	18.53	2.71	2.71	0.58	22.15	
		19	-	-	-	-	3.31	1.83	0.72	31.44	3.29	2.13	0.71	31.12	3.27	2.43	0.71	30.80	3.25	2.72	0.70	30.43	
	5	15	1.38	1.38	0.24	3.32	1.66	1.66	0.29	5.50	1.95	1.95	0.34	8.31	2.25	2.25	0.39	11.01	2.55	2.55	0.44	13.59	
		17	1.96	1.35	0.34	8.35	1.94	1.65	0.33	8.19	2.02	1.96	0.35	8.98	2.26	2.26	0.39	11.04	2.56	2.56	0.44	13.62	
		19	-	-	-	-	2.92	1.67	0.50	17.13	2.90	1.97	0.50	16.95	2.94	2.35	0.53	57.16	2.86	2.56	0.49	16.57	
9	4	15	1.22	1.22	0.26	4.46	1.51	1.51	0.33	7.83	1.82	1.82	0.39	11.05	2.12	2.12	0.46	14.31	2.42	2.42	0.52	17.97	
		17	1.60	1.21	0.34	8.79	1.62	1.52	0.35	9.07	1.82	1.82	0.39	11.10	2.12	2.12	0.46	14.35	2.42	2.42	0.52	18.02	
		19	-	-	-	-	2.57	1.53	0.55	19.92	2.55	1.83	0.55	19.68	2.52	2.12	0.54	19.38	2.55	2.42	0.55	19.76	
	5	15	1.08	1.08	0.19	1.99	1.37	1.37	0.24	3.42	1.66	1.66	0.29	5.73	1.96	1.96	0.34	8.44	2.26	2.26	0.39	10.88	
		17	1.25	1.07	0.22	2.68	1.40	1.37	0.24	3.63	1.66	1.66	0.29	5.75	1.96	1.96	0.34	8.46	2.26	2.26	0.39	10.91	
		19	-	-	-	-	2.14	1.36	0.37	9.89	2.11	1.66	0.36	9.71	2.14	1.96	0.37	9.91	2.30	2.27	0.40	11.18	
11	4	15	0.93	0.93	0.20	2.24	1.22	1.22	0.26	4.60	1.52	1.52	0.32	7.85	1.82	1.82	0.39	10.80	2.12	2.12	0.45	13.98	
		17	0.97	0.93	0.21	2.48	1.22	1.22	0.26	4.62	1.52	1.52	0.33	7.87	1.82	1.82	0.39	10.83	2.12	2.12	0.45	14.01	
		19	-	-	-	-	1.75	1.22	0.37	10.06	1.74	1.52	0.37	10.02	1.87	1.83	0.40	11.29	2.12	2.12	0.46	14.05	
	5	15	0.79	0.79	0.14	1.33	1.09	1.09	0.19	1.97	1.37	1.37	0.24	3.57	1.66	1.66	0.29	5.94	1.96	1.96	0.34	8.44	
		17	0.80	0.79	0.14	1.34	1.09	1.09	0.19	1.98	1.38	1.38	0.24	3.59	1.67	1.67	0.29	5.96	1.97	1.97	0.34	8.46	
		19	-	-	-	-	1.33	1.07	0.23	3.29	1.44	1.37	0.25	4.11	1.67	1.67	0.29	5.99	1.97	1.97	0.34	8.49	
13	4	15	0.63	0.63	0.14	1.29	0.93	0.93	0.20	2.33	1.22	1.22	0.26	4.86	1.52	1.52	0.33	7.82	1.82	1.82	0.39	10.64	
		17	0.64	0.64	0.14	1.29	0.93	0.93	0.20	2.34	1.22	1.22	0.26	4.88	1.52	1.52	0.33	7.84	1.82	1.82	0.39	10.66	
		19	-	-	-	-	1.00	0.93	0.22	2.85	1.22	1.22	0.26	4.89	1.52	1.52	0.33	7.86	1.83	1.83	0.39	10.69	
	5	15	0.49	0.49	0.08	0.78	0.79	0.79	0.14	1.26	1.08	1.08	0.19	1.96	1.37	1.37	0.24	3.65	1.66	1.66	0.29	6.01	
		17	0.49	0.49	0.08	0.78	0.79	0.79	0.14	1.26	1.09	1.09	0.19	1.97	1.37	1.37	0.24	3.67	1.67	1.67	0.29	6.03	
		19	-	-	-	-	0.81	0.79	0.14	1.28	1.09	1.09	0.19	1.97	1.37	1.37	0.24	3.69	1.67	1.67	0.29	6.05	
15	4	15	0.33	0.33	0.07	0.64	0.63	0.63	0.14	1.22	0.93	0.93	0.20	2.37	1.22	1.22	0.26	4.93	1.52	1.52	0.33	7.74	
		17	0.33	0.33	0.07	0.64	0.64	0.64	0.14	1.22	0.93	0.93	0.20	2.38	1.22	1.22	0.26	4.95	1.52	1.52	0.33	7.76	
		19	-	-	-	-	0.64	0.64	0.14	1.22	0.93	0.93	0.20	2.39	1.22	1.22	0.26	4.97	1.53	1.53	0.33	7.78	
	5	15	0.18	0.18	0.03	0.27	0.49	0.49	0.08	0.75	0.79	0.79	0.14	1.21	1.09	1.09	0.19	2.04	1.37	1.37	0.24	3.85	
		17	0.18	0.18	0.03	0.27	0.49	0.49	0.08	0.75	0.79	0.79	0.14	1.21	1.09	1.09	0.19	2.05	1.37	1.37	0.24	3.87	
		19	-	-	-	-	0.49	0.49	0.09	0.75	0.80	0.80	0.14	1.21	1.09	1.09	0.19	2.06	1.38	1.38	0.24	3.88	

Abbreviations:

EWT: Enter Water Temp. (°C) Δt: Temperature Difference. (°C) DB: Dry Bulb Temp. (°C) WF: Water Flow. (m³/h)
 WB: Wet Bulb Temp. (°C) TC: Total Cooling Capacity. (kW) SC: Sensible Cooling Capacity. (kW) WPD: Water Pressure Drop. (kPa)

Cooling capacity

MKG-500-C/ MKG-500-D																						
EWT	ΔT	Indoor	Indoor temperature (D.B.)																			
		temp (W.B.)	21				23				25				27				29			
			TC	SC	WF	WPD	TC	SC	WF	WPD	TC	SC	WF	WPD	TC	SC	WF	WPD	TC	SC	WF	WPD
°C	°C	°C	kW	kW	m³/h	kPa	kW	kW	m³/h	kPa	kW	kW	m³/h	kPa	kW	kW	m³/h	kPa	kW	kW	m³/h	kPa
5	4	15	2.95	2.42	0.63	35.89	2.98	2.81	0.64	36.52	3.20	3.20	0.69	41.31	3.58	3.58	0.77	50.05	3.96	3.96	0.85	59.84
		17	4.11	2.43	0.89	64.15	4.09	2.82	0.88	63.52	4.06	3.20	0.88	62.84	4.03	3.58	0.87	62.09	4.09	3.96	0.88	63.73
		19	-	-	-	-	5.31	2.83	1.15	100.34	5.28	3.21	1.14	99.39	5.26	3.60	1.14	98.45	5.22	3.97	1.12	96.28
	5	15	2.52	2.22	0.43	18.87	2.68	2.62	0.46	20.88	3.00	3.00	0.52	25.17	3.39	3.39	0.58	31.21	3.77	3.77	0.65	37.44
		17	3.67	2.24	0.63	35.74	3.65	2.62	0.63	35.36	3.62	3.01	0.62	34.87	3.65	3.39	0.63	35.36	3.83	3.78	0.66	38.34
		19	-	-	-	-	4.88	2.64	0.84	58.13	4.85	3.02	0.84	57.54	4.83	3.40	0.83	56.97	4.80	3.78	0.83	56.37
7	4	15	2.14	2.02	0.46	20.53	2.42	2.42	0.52	25.30	2.81	2.81	0.61	32.99	3.19	3.19	0.69	41.10	3.58	3.58	0.77	49.88
		17	3.21	2.04	0.70	41.49	3.19	2.42	0.69	40.94	3.17	2.81	0.69	40.59	3.29	3.20	0.71	43.22	3.58	3.58	0.78	50.01
		19	-	-	-	-	4.42	2.44	0.96	71.83	4.39	2.82	0.95	71.06	4.37	3.20	0.95	70.29	4.34	3.58	0.94	69.44
	5	15	1.86	1.83	0.32	10.22	2.22	2.22	0.38	14.93	2.62	2.62	0.45	19.65	3.00	3.00	0.52	24.86	3.39	3.39	0.59	30.79
		17	2.73	1.83	0.47	21.04	2.70	2.22	0.47	20.77	2.80	2.62	0.48	22.03	3.03	3.01	0.52	25.23	3.39	3.39	0.59	30.87
		19	-	-	-	-	3.96	2.24	0.68	39.79	3.93	2.63	0.68	39.35	4.01	3.30	0.72	47.13	3.88	3.39	0.67	38.53
9	4	15	1.63	1.63	0.35	12.67	2.03	2.03	0.44	18.55	2.42	2.42	0.52	25.18	2.80	2.80	0.60	32.08	3.19	3.19	0.69	39.97
		17	2.23	1.63	0.48	21.69	2.26	2.03	0.49	22.22	2.46	2.43	0.53	25.93	2.81	2.81	0.61	32.16	3.20	3.20	0.69	40.54
		19	-	-	-	-	3.47	2.04	0.75	46.60	3.44	2.43	0.75	46.00	3.41	2.81	0.74	45.32	3.45	3.20	0.75	46.14
	5	15	1.44	1.44	0.25	5.46	1.83	1.83	0.32	10.12	2.23	2.23	0.38	14.80	2.62	2.62	0.45	19.37	3.00	3.00	0.52	24.48
		17	1.72	1.43	0.30	8.72	1.92	1.83	0.33	11.19	2.23	2.23	0.39	14.85	2.62	2.62	0.45	19.42	3.01	3.01	0.52	24.54
		19	-	-	-	-	2.95	1.84	0.51	23.79	2.93	2.23	0.50	23.39	2.96	2.62	0.51	23.85	3.12	3.01	0.54	26.19
11	4	15	1.24	1.24	0.26	6.66	1.63	1.63	0.35	12.46	2.03	2.03	0.43	17.99	2.42	2.42	0.52	24.28	2.80	2.80	0.60	31.46
		17	1.32	1.23	0.28	7.91	1.64	1.63	0.35	12.50	2.03	2.03	0.44	18.04	2.42	2.42	0.52	24.34	2.81	2.81	0.60	31.55
		19	-	-	-	-	2.40	1.63	0.52	24.05	2.40	2.03	0.52	24.03	2.55	2.42	0.55	26.54	2.82	2.81	0.61	31.75
	5	15	1.07	1.07	0.18	2.63	1.45	1.45	0.25	5.71	1.83	1.83	0.32	10.29	2.23	2.23	0.38	14.38	2.62	2.62	0.45	19.10
		17	1.09	1.07	0.19	2.76	1.45	1.45	0.25	5.73	1.84	1.84	0.32	10.33	2.23	2.23	0.38	14.42	2.62	2.62	0.45	19.15
		19	-	-	-	-	1.85	1.43	0.32	10.52	2.01	1.84	0.35	12.16	2.27	2.24	0.39	14.99	2.63	2.63	0.45	19.21
13	4	15	0.85	0.85	0.18	2.63	1.23	1.23	0.26	6.86	1.63	1.63	0.35	12.27	2.03	2.03	0.44	17.91	2.42	2.42	0.52	24.14
		17	0.85	0.85	0.18	2.64	1.24	1.24	0.26	6.89	1.64	1.64	0.35	12.30	2.03	2.03	0.44	17.96	2.42	2.42	0.52	24.20
		19	-	-	-	-	1.37	1.23	0.29	8.91	1.66	1.64	0.36	12.61	2.04	2.04	0.44	18.01	2.42	2.42	0.52	24.27
	5	15	0.66	0.66	0.11	1.46	1.06	1.06	0.18	2.59	1.44	1.44	0.25	5.83	1.83	1.83	0.31	10.17	2.23	2.23	0.38	14.18
		17	0.67	0.67	0.11	1.46	1.06	1.06	0.18	2.60	1.44	1.44	0.25	5.85	1.84	1.84	0.32	10.20	2.23	2.23	0.38	14.22
		19	-	-	-	-	1.11	1.06	0.19	2.90	1.45	1.44	0.25	5.87	1.84	1.84	0.32	10.23	2.23	2.23	0.38	14.26
15	4	15	0.45	0.45	0.10	1.20	0.85	0.85	0.18	2.63	1.24	1.24	0.26	7.08	1.64	1.64	0.35	12.25	2.02	2.02	0.43	17.43
		17	0.45	0.45	0.10	1.20	0.85	0.85	0.18	2.64	1.24	1.24	0.27	7.11	1.64	1.64	0.35	12.29	2.03	2.03	0.43	17.47
		19	-	-	-	-	0.85	0.85	0.18	2.65	1.24	1.24	0.27	7.14	1.64	1.64	0.35	12.32	2.03	2.03	0.44	17.52
	5	15	0.25	0.25	0.04	0.52	0.67	0.67	0.11	1.40	1.06	1.06	0.18	2.68	1.44	1.44	0.25	6.11	1.84	1.84	0.32	10.16
		17	0.25	0.25	0.04	0.52	0.67	0.67	0.12	1.41	1.06	1.06	0.18	2.69	1.45	1.45	0.25	6.13	1.84	1.84	0.32	10.19
		19	-	-	-	-	0.67	0.67	0.12	1.41	1.07	1.07	0.18	2.70	1.45	1.45	0.25	6.16	1.84	1.84	0.32	10.22

Abbreviations:

EWT: Enter Water Temp. (°C) Δt: Temperature Difference. (°C) DB: Dry Bulb Temp. (°C) WF: Water Flow. (m³/h)
 WB: Wet Bulb Temp. (°C) TC: Total Cooling Capacity. (kW) SC: Sensible Cooling Capacity. (kW) WPD: Water Pressure Drop. (kPa)

AC Fan Coil Unit Two-pipe Wall-mounted Series



Cooling capacity

MKG-600-C/ MKG-600-D																							
EWT	ΔT	Indoor	Indoor temperature (D.B.)																				
		temp (W.B.)	21				23				25				27				29				
			TC	SC	WF	WPD	TC	SC	WF	WPD	TC	SC	WF	WPD	TC	SC	WF	WPD	TC	SC	WF	WPD	
°C	°C	°C	kW	kW	m³/h	kPa	kW	kW	m³/h	kPa	kW	kW	m³/h	kPa	kW	kW	m³/h	kPa	kW	kW	m³/h	kPa	
5	4	15	3.42	2.79	0.73	46.32	3.46	3.23	0.74	47.16	3.69	3.68	0.80	53.10	4.12	4.12	0.89	64.31	4.55	4.55	0.98	76.42	
		17	4.74	2.80	1.02	81.35	4.71	3.24	1.01	80.44	4.68	3.68	1.01	79.53	4.65	4.11	1.00	78.59	4.72	4.55	1.01	80.70	
		19	-	-	-	-	6.11	3.26	1.32	127.05	6.08	3.70	1.32	126.54	6.04	4.13	1.31	124.85	6.01	4.56	1.30	123.94	
	5	15	2.95	2.57	0.51	24.31	3.12	3.02	0.54	26.87	3.47	3.47	0.60	32.38	3.90	3.90	0.67	39.69	4.33	4.33	0.74	47.13	
		17	4.25	2.58	0.73	45.56	4.22	3.02	0.72	44.99	4.19	3.46	0.72	44.37	4.23	3.90	0.73	45.10	4.41	4.34	0.76	48.53	
		19	-	-	-	-	5.64	3.04	0.97	74.17	5.60	3.48	0.97	73.63	5.57	3.92	0.96	73.03	5.54	4.35	0.96	72.58	
7	4	15	2.50	2.34	0.54	26.70	2.80	2.79	0.61	32.72	3.24	3.24	0.70	41.98	3.67	3.67	0.80	52.22	4.11	4.11	0.89	63.35	
		17	3.72	2.35	0.81	53.37	3.69	2.79	0.80	52.55	3.67	3.23	0.80	52.20	3.80	3.68	0.82	55.47	4.11	4.11	0.89	63.45	
		19	-	-	-	-	5.10	2.81	1.11	92.56	5.07	3.25	1.10	91.57	5.04	3.69	1.09	90.53	5.00	4.12	1.09	89.31	
	5	15	2.17	2.12	0.37	14.27	2.57	2.57	0.44	19.08	3.02	3.02	0.52	25.06	3.46	3.46	0.60	31.91	3.89	3.89	0.67	38.74	
		17	3.19	2.13	0.55	27.66	3.17	2.57	0.55	27.35	3.27	3.02	0.56	28.89	3.51	3.46	0.60	32.37	3.90	3.90	0.67	38.86	
		19	-	-	-	-	4.58	2.59	0.79	51.13	4.56	3.03	0.79	51.10	4.61	3.68	0.83	51.00	4.50	3.90	0.78	50.09	
9	4	15	1.89	1.89	0.41	16.35	2.34	2.34	0.51	23.79	2.78	2.78	0.60	31.67	3.23	3.23	0.70	41.25	3.66	3.66	0.79	51.31	
		17	2.58	1.88	0.56	27.91	2.63	2.34	0.57	28.61	2.85	2.79	0.61	32.94	3.24	3.23	0.70	41.37	3.67	3.67	0.80	51.46	
		19	-	-	-	-	3.99	2.35	0.86	58.98	3.96	2.79	0.85	58.13	3.94	3.23	0.85	58.17	3.98	3.67	0.86	58.54	
	5	15	1.67	1.67	0.29	8.04	2.12	2.12	0.37	13.54	2.57	2.57	0.44	18.79	3.02	3.02	0.52	24.65	3.45	3.45	0.59	31.07	
		17	2.03	1.66	0.35	12.52	2.25	2.12	0.39	15.07	2.58	2.58	0.45	18.95	3.02	3.02	0.52	24.72	3.46	3.46	0.60	31.16	
		19	-	-	-	-	3.43	2.13	0.59	30.66	3.40	2.57	0.59	30.19	3.44	3.02	0.59	30.86	3.63	3.47	0.63	33.89	
11	4	15	1.43	1.43	0.31	9.59	1.89	1.89	0.40	15.91	2.34	2.34	0.50	22.90	2.78	2.78	0.60	31.04	3.22	3.22	0.69	39.69	
		17	1.55	1.43	0.33	11.37	1.90	1.89	0.41	16.06	2.34	2.34	0.50	22.97	2.79	2.79	0.60	31.14	3.22	3.22	0.69	39.81	
		19	-	-	-	-	2.80	1.89	0.60	31.31	2.80	2.34	0.60	31.38	2.96	2.79	0.64	34.71	3.24	3.23	0.70	40.24	
	5	15	1.23	1.23	0.21	3.65	1.67	1.67	0.29	8.31	2.12	2.12	0.36	13.22	2.57	2.57	0.44	18.51	3.01	3.01	0.52	24.26	
		17	1.26	1.23	0.22	3.97	1.67	1.67	0.29	8.34	2.12	2.12	0.36	13.26	2.58	2.58	0.44	18.57	3.02	3.02	0.52	24.33	
		19	-	-	-	-	2.18	1.66	0.37	13.81	2.36	2.13	0.41	16.00	2.64	2.58	0.46	19.37	3.02	3.02	0.52	24.40	
13	4	15	0.98	0.98	0.21	3.75	1.43	1.43	0.31	9.66	1.89	1.89	0.41	15.85	2.34	2.34	0.50	22.75	2.77	2.77	0.59	30.27	
		17	0.98	0.98	0.21	3.76	1.43	1.43	0.31	9.69	1.89	1.89	0.41	15.89	2.34	2.34	0.50	22.82	2.78	2.78	0.60	30.36	
		19	-	-	-	-	1.62	1.43	0.35	12.15	1.94	1.90	0.42	16.56	2.34	2.34	0.51	22.89	2.78	2.78	0.60	30.46	
	5	15	0.77	0.77	0.13	1.68	1.22	1.22	0.21	3.70	1.66	1.66	0.29	8.35	2.12	2.12	0.36	13.02	2.57	2.57	0.44	18.19	
		17	0.77	0.77	0.13	1.69	1.22	1.22	0.21	3.72	1.67	1.67	0.29	8.38	2.12	2.12	0.36	13.06	2.57	2.57	0.44	18.24	
		19	-	-	-	-	1.29	1.22	0.22	4.29	1.67	1.67	0.29	8.43	2.13	2.13	0.36	13.11	2.58	2.58	0.44	18.30	
15	4	15	0.52	0.52	0.11	1.38	0.98	0.98	0.21	3.81	1.43	1.43	0.31	9.78	1.89	1.89	0.41	15.58	2.33	2.33	0.50	22.13	
		17	0.52	0.52	0.11	1.38	0.98	0.98	0.21	3.82	1.44	1.44	0.31	9.81	1.89	1.89	0.41	15.63	2.33	2.33	0.50	22.20	
		19	-	-	-	-	0.98	0.98	0.21	3.84	1.44	1.44	0.31	9.84	1.89	1.89	0.41	15.68	2.34	2.34	0.50	22.27	
	5	15	0.28	0.28	0.05	0.59	0.77	0.77	0.13	1.61	1.22	1.22	0.21	3.89	1.67	1.67	0.29	8.51	2.12	2.12	0.37	12.93	
		17	0.28	0.28	0.05	0.59	0.77	0.77	0.13	1.62	1.22	1.22	0.21	3.91	1.67	1.67	0.29	8.55	2.12	2.12	0.37	12.96	
		19	-	-	-	-	0.77	0.77	0.13	1.62	1.22	1.22	0.21	3.93	1.67	1.67	0.29	8.58	2.13	2.13	0.37	13.01	

Abbreviations:

EWT: Enter Water Temp. (°C) Δt: Temperature Difference. (°C) DB: Dry Bulb Temp. (°C) WF: Water Flow. (m³/h)
 WB: Wet Bulb Temp. (°C) TC: Total Cooling Capacity. (kW) SC: Sensible Cooling Capacity. (kW) WPD: Water Pressure Drop. (kPa)

Heating Capacity

MKG-250-C/ MKG-250-D													
EWT	ΔT	Indoor temperature (W.B.)											
		16			18			20			22		
		TH	WF	WPD	TH	WF	WPD	TH	WF	WPD	TH	WF	WPD
$^{\circ}\text{C}$	$^{\circ}\text{C}$	kW	m ³ /h	kPa	kW	m ³ /h	kPa	kW	m ³ /h	kPa	kW	m ³ /h	kPa
40	8	1.87	0.20	3.05	1.64	0.18	2.25	1.41	0.15	1.50	1.18	0.13	0.94
	10	1.66	0.14	1.25	1.43	0.12	0.87	1.20	0.10	0.66	0.97	0.08	0.53
	12	1.44	0.10	0.69	1.21	0.09	0.57	0.97	0.07	0.46	0.74	0.05	0.35
	14	1.22	0.07	0.51	0.98	0.06	0.41	0.74	0.05	0.32	0.51	0.03	0.22
	16	0.99	0.05	0.38	0.75	0.04	0.29	0.51	0.03	0.20	0.27	0.01	0.11
45	8	2.48	0.27	4.79	2.23	0.24	4.03	1.99	0.22	3.32	1.76	0.19	2.67
	10	2.24	0.19	2.78	2.00	0.17	2.19	1.77	0.15	1.60	1.54	0.13	1.10
	12	2.02	0.15	1.38	1.79	0.13	0.99	1.56	0.11	0.72	1.33	0.10	0.57
	14	1.81	0.11	0.72	1.57	0.10	0.60	1.34	0.08	0.51	1.10	0.07	0.42
	16	1.58	0.09	0.54	1.35	0.07	0.46	1.11	0.06	0.38	0.87	0.05	0.30
50	8	3.07	0.33	6.75	2.83	0.31	5.86	2.59	0.28	5.04	2.35	0.25	4.27
	10	2.85	0.25	4.09	2.60	0.23	3.52	2.36	0.20	2.98	2.12	0.18	2.49
	12	2.61	0.19	2.60	2.37	0.17	2.15	2.13	0.15	1.68	1.89	0.14	1.24
	14	2.38	0.15	1.49	2.15	0.13	1.13	1.92	0.12	0.83	1.69	0.10	0.62
	16	2.17	0.12	0.80	1.94	0.10	0.63	1.70	0.09	0.53	1.47	0.08	0.46
55	8	3.66	0.39	8.94	3.42	0.37	7.94	3.18	0.34	7.00	2.94	0.32	6.11
	10	3.44	0.30	5.53	3.20	0.28	4.88	2.96	0.26	4.27	2.72	0.23	3.69
	12	3.22	0.23	3.62	2.97	0.21	3.16	2.73	0.20	2.74	2.49	0.18	2.34
	14	2.98	0.18	2.48	2.74	0.17	2.13	2.49	0.15	1.75	2.26	0.14	1.38
	16	2.75	0.15	1.58	2.51	0.14	1.25	2.28	0.12	0.96	2.05	0.11	0.72
60	8	4.26	0.46	11.36	4.01	0.43	10.24	3.77	0.41	9.24	3.53	0.38	8.24
	10	4.04	0.35	7.09	3.79	0.33	6.36	3.55	0.31	5.68	3.31	0.29	5.03
	12	3.82	0.27	4.75	3.57	0.26	4.24	3.33	0.24	3.74	3.08	0.22	3.29
	14	3.59	0.22	3.30	3.34	0.21	2.92	3.10	0.19	2.57	2.86	0.18	2.24
	16	3.36	0.18	2.36	3.11	0.17	2.08	2.86	0.15	1.78	2.62	0.14	1.47

Abbreviations:

Δt : Temperature Difference. ($^{\circ}\text{C}$) **TH:** Total Heating Capacity. (kW) **WF:** Water Flow. (m³/h) **WPD:** Water Pressure Drop. (kPa)

AC Fan Coil Unit Two-pipe Wall-mounted Series



Heating Capacity

MKG-300-C/ MKG-300-D													
EWT	ΔT	Indoor temperature (W.B.)											
		16			18			20			22		
		TH	WF	WPD	TH	WF	WPD	TH	WF	WPD	TH	WF	WPD
$^{\circ}\text{C}$	$^{\circ}\text{C}$	kW	m ³ /h	kPa	kW	m ³ /h	kPa	kW	m ³ /h	kPa	kW	m ³ /h	kPa
40	8	2.35	0.25	4.51	2.05	0.22	3.59	1.76	0.19	2.66	1.47	0.16	1.69
	10	2.06	0.18	2.26	1.78	0.15	1.51	1.49	0.13	0.96	1.21	0.10	0.67
	12	1.80	0.13	0.97	1.51	0.11	0.73	1.22	0.09	0.58	0.93	0.07	0.44
	14	1.53	0.09	0.64	1.23	0.08	0.52	0.93	0.06	0.40	0.64	0.04	0.27
	16	1.24	0.07	0.48	0.95	0.05	0.37	0.64	0.03	0.25	0.33	0.02	0.13
45	8	3.09	0.33	6.98	2.79	0.30	5.87	2.49	0.27	4.85	2.20	0.24	3.92
	10	2.81	0.24	4.09	2.51	0.22	3.38	2.21	0.19	2.71	1.91	0.17	1.97
	12	2.52	0.18	2.43	2.22	0.16	1.79	1.93	0.14	1.23	1.65	0.12	0.81
	14	2.25	0.14	1.19	1.96	0.12	0.84	1.67	0.10	0.64	1.38	0.08	0.53
	16	1.98	0.11	0.69	1.69	0.09	0.58	1.40	0.08	0.48	1.09	0.06	0.38
50	8	3.82	0.41	9.81	3.52	0.38	8.53	3.22	0.35	7.33	2.92	0.32	6.21
	10	3.55	0.31	5.96	3.25	0.28	5.12	2.95	0.25	4.35	2.65	0.23	3.63
	12	3.26	0.23	3.81	2.96	0.21	3.24	2.66	0.19	2.70	2.36	0.17	2.15
	14	2.98	0.18	2.50	2.68	0.17	1.99	2.38	0.15	1.49	2.10	0.13	1.05
	16	2.70	0.15	1.43	2.41	0.13	1.05	2.12	0.11	0.76	1.83	0.10	0.58
55	8	4.55	0.49	12.99	4.24	0.46	11.54	3.95	0.43	10.16	3.65	0.39	8.88
	10	4.28	0.37	8.04	3.98	0.34	7.09	3.68	0.32	6.20	3.38	0.29	5.37
	12	4.01	0.29	5.27	3.70	0.27	4.61	3.40	0.24	3.99	3.10	0.22	3.41
	14	3.73	0.23	3.62	3.43	0.21	3.14	3.13	0.19	2.68	2.82	0.17	2.25
	16	3.44	0.19	2.53	3.14	0.17	2.13	2.84	0.15	1.70	2.54	0.14	1.29
60	8	5.28	0.57	16.60	4.98	0.54	14.97	4.67	0.50	13.35	4.37	0.47	11.90
	10	5.01	0.43	10.30	4.71	0.41	9.25	4.41	0.38	8.25	4.11	0.35	7.30
	12	4.75	0.34	6.90	4.44	0.32	6.16	4.14	0.30	5.46	3.84	0.28	4.80
	14	4.47	0.28	4.80	4.17	0.26	4.26	3.86	0.24	3.74	3.56	0.22	3.26
	16	4.20	0.23	3.46	3.89	0.21	3.03	3.58	0.19	2.64	3.28	0.18	2.28

Abbreviations:

Δt : Temperature Difference. ($^{\circ}\text{C}$) **TH:** Total Heating Capacity. (kW) **WF:** Water Flow. (m³/h) **WPD:** Water Pressure Drop. (kPa)

Heating Capacity

MKG-400-C/ MKG-400-D													
EWT	ΔT	Indoor temperature (W.B.)											
		16			18			20			22		
		TH	WF	WPD	TH	WF	WPD	TH	WF	WPD	TH	WF	WPD
°C	°C	kW	m³/h	kPa	kW	m³/h	kPa	kW	m³/h	kPa	kW	m³/h	kPa
40	8	2.84	0.31	6.23	2.49	0.27	4.97	2.13	0.23	3.83	1.78	0.19	2.74
	10	2.50	0.22	3.46	2.15	0.19	2.49	1.80	0.16	1.57	1.47	0.13	0.92
	12	2.18	0.16	1.57	1.84	0.13	1.00	1.49	0.11	0.71	1.13	0.08	0.54
	14	1.86	0.11	0.79	1.50	0.09	0.63	1.15	0.07	0.49	0.78	0.05	0.33
	16	1.52	0.08	0.58	1.16	0.06	0.45	0.79	0.04	0.31	0.41	0.02	0.16
45	8	3.72	0.40	9.62	3.37	0.36	8.10	3.01	0.32	6.70	2.66	0.29	5.42
	10	3.40	0.29	5.66	3.04	0.26	4.68	2.68	0.23	3.79	2.33	0.20	2.98
	12	3.06	0.22	3.52	2.70	0.19	2.81	2.34	0.17	2.05	2.00	0.14	1.34
	14	2.72	0.17	1.97	2.37	0.15	1.37	2.03	0.13	0.91	1.68	0.10	0.65
	16	2.41	0.13	0.99	2.05	0.11	0.73	1.70	0.09	0.59	1.34	0.07	0.46
50	8	4.60	0.50	13.53	4.24	0.46	11.76	3.88	0.42	10.11	3.53	0.38	8.58
	10	4.28	0.37	8.22	3.92	0.34	7.08	3.57	0.31	6.02	3.21	0.28	5.03
	12	3.95	0.28	5.27	3.59	0.26	4.48	3.23	0.23	3.75	2.88	0.21	3.08
	14	3.62	0.22	3.52	3.26	0.20	2.94	2.89	0.18	2.36	2.54	0.16	1.75
	16	3.27	0.18	2.31	2.92	0.16	1.75	2.57	0.14	1.25	2.23	0.12	0.85
55	8	5.48	0.59	18.01	5.12	0.55	16.00	4.75	0.51	14.03	4.40	0.47	12.26
	10	5.16	0.45	11.10	4.80	0.41	9.79	4.44	0.38	8.57	4.09	0.35	7.42
	12	4.84	0.35	7.27	4.48	0.32	6.37	4.12	0.30	5.52	3.76	0.27	4.73
	14	4.52	0.28	5.01	4.16	0.26	4.35	3.79	0.23	3.72	3.43	0.21	3.15
	16	4.18	0.23	3.51	3.81	0.21	3.01	3.45	0.19	2.54	3.09	0.17	2.06
60	8	6.35	0.68	22.77	5.99	0.65	20.55	5.62	0.61	18.43	5.27	0.57	16.53
	10	6.04	0.52	14.28	5.68	0.49	12.76	5.31	0.46	11.39	4.95	0.43	10.10
	12	5.72	0.41	9.53	5.36	0.39	8.51	5.00	0.36	7.55	4.64	0.33	6.65
	14	5.40	0.33	6.64	5.04	0.31	5.89	4.68	0.29	5.19	4.32	0.27	4.52
	16	5.08	0.27	4.79	4.72	0.25	4.22	4.35	0.23	3.68	3.99	0.21	3.17

Abbreviations:

Δt: Temperature Difference. (°C) **TH:** Total Heating Capacity. (kW) **WF:** Water Flow. (m³/h) **WPD:** Water Pressure Drop. (kPa)

AC Fan Coil Unit Two-pipe Wall-mounted Series



Heating Capacity

MKG-500-C/ MKG-500-D													
EWT	ΔT	Indoor temperature (W.B.)											
		16			18			20			22		
		TH	WF	WPD	TH	WF	WPD	TH	WF	WPD	TH	WF	WPD
$^{\circ}\text{C}$	$^{\circ}\text{C}$	kW	m ³ /h	kPa	kW	m ³ /h	kPa	kW	m ³ /h	kPa	kW	m ³ /h	kPa
40	8	3.63	0.39	13.17	3.18	0.34	10.53	2.74	0.30	8.13	2.29	0.25	6.00
	10	3.22	0.28	7.37	2.77	0.24	5.71	2.32	0.20	4.11	1.88	0.16	2.43
	12	2.79	0.20	4.13	2.35	0.17	2.68	1.91	0.14	1.54	1.47	0.11	0.98
	14	2.39	0.15	1.79	1.94	0.12	1.17	1.49	0.09	0.88	1.02	0.06	0.61
	16	1.97	0.11	1.05	1.51	0.08	0.81	1.04	0.06	0.56	0.54	0.03	0.30
45	8	4.72	0.51	20.14	4.28	0.46	16.97	3.84	0.42	14.14	3.39	0.37	11.39
	10	4.33	0.37	11.89	3.88	0.34	9.87	3.44	0.30	8.01	2.99	0.26	6.32
	12	3.93	0.28	7.45	3.47	0.25	6.05	3.02	0.22	4.78	2.57	0.18	3.51
	14	3.50	0.22	4.74	3.04	0.19	3.59	2.60	0.16	2.42	2.16	0.13	1.47
	16	3.08	0.17	2.63	2.64	0.14	1.73	2.19	0.12	1.12	1.74	0.09	0.84
50	8	5.82	0.63	28.25	5.38	0.58	24.71	4.93	0.53	21.28	4.48	0.48	17.97
	10	5.44	0.47	17.23	4.99	0.43	14.85	4.54	0.39	12.63	4.10	0.35	10.58
	12	5.04	0.36	11.08	4.59	0.33	9.43	4.14	0.30	7.91	3.69	0.27	6.51
	14	4.63	0.29	7.43	4.18	0.26	6.23	3.72	0.23	5.13	3.27	0.20	4.12
	16	4.21	0.23	5.08	3.75	0.20	4.18	3.30	0.18	3.25	2.85	0.15	2.28
55	8	6.93	0.75	37.52	6.47	0.70	33.36	6.02	0.65	29.34	5.58	0.60	25.66
	10	6.54	0.56	23.11	6.09	0.52	20.41	5.64	0.49	17.87	5.19	0.45	15.49
	12	6.15	0.44	15.30	5.70	0.41	13.35	5.24	0.38	11.59	4.80	0.34	9.94
	14	5.76	0.36	10.53	5.30	0.33	9.14	4.85	0.30	7.85	4.40	0.27	6.64
	16	5.35	0.29	7.44	4.89	0.26	6.39	4.44	0.24	5.41	3.98	0.21	4.49
60	8	8.03	0.87	47.79	7.57	0.81	42.90	7.12	0.77	38.60	6.67	0.72	34.43
	10	7.65	0.66	29.77	7.19	0.62	26.81	6.74	0.58	23.95	6.28	0.54	21.23
	12	7.26	0.52	19.89	6.80	0.49	17.76	6.35	0.46	15.83	5.90	0.42	13.93
	14	6.87	0.42	13.91	6.41	0.39	12.36	5.96	0.37	10.89	5.50	0.34	9.51
	16	6.47	0.35	10.07	6.01	0.32	8.87	5.56	0.30	7.75	5.10	0.28	6.70

Abbreviations:

Δt : Temperature Difference. ($^{\circ}\text{C}$) **TH:** Total Heating Capacity. (kW) **WF:** Water Flow. (m³/h) **WPD:** Water Pressure Drop. (kPa)

Heating Capacity

MKG-600-C/ MKG-600-D													
EWT	ΔT	Indoor temperature (W.B.)											
		16			18			20			22		
		TH	WF	WPD	TH	WF	WPD	TH	WF	WPD	TH	WF	WPD
$^{\circ}\text{C}$	$^{\circ}\text{C}$	kW	m ³ /h	kPa	kW	m ³ /h	kPa	kW	m ³ /h	kPa	kW	m ³ /h	kPa
40	8	3.76	0.41	13.99	3.30	0.36	11.20	2.84	0.31	8.68	2.38	0.26	6.40
	10	3.34	0.29	7.84	2.88	0.25	6.09	2.41	0.21	4.46	1.95	0.17	2.70
	12	2.90	0.21	4.49	2.44	0.18	2.97	1.99	0.14	1.71	1.54	0.11	1.03
	14	2.48	0.15	1.99	2.03	0.12	1.25	1.56	0.10	0.91	1.07	0.07	0.64
	16	2.06	0.11	1.10	1.58	0.09	0.84	1.09	0.06	0.59	0.58	0.03	0.31
45	8	4.90	0.53	21.38	4.44	0.48	18.04	3.98	0.43	15.04	3.52	0.38	12.13
	10	4.49	0.39	12.65	4.03	0.35	10.50	3.57	0.31	8.54	3.11	0.27	6.75
	12	4.08	0.29	7.93	3.61	0.26	6.45	3.14	0.23	5.11	2.67	0.19	3.83
	14	3.64	0.22	5.07	3.17	0.20	3.91	2.70	0.17	2.69	2.25	0.14	1.64
	16	3.20	0.17	2.91	2.74	0.15	1.93	2.29	0.12	1.22	1.82	0.10	0.88
50	8	6.03	0.65	29.99	5.57	0.60	26.25	5.11	0.55	22.61	4.65	0.50	19.12
	10	5.64	0.49	18.31	5.17	0.45	15.79	4.71	0.41	13.44	4.25	0.37	11.27
	12	5.23	0.38	11.79	4.76	0.34	10.05	4.30	0.31	8.43	3.83	0.28	6.95
	14	4.81	0.30	7.92	4.34	0.27	6.65	3.87	0.24	5.48	3.41	0.21	4.41
	16	4.38	0.24	5.42	3.91	0.21	4.47	3.44	0.19	3.54	2.97	0.16	2.54
55	8	7.17	0.77	39.92	6.70	0.72	35.42	6.24	0.67	31.18	5.78	0.62	27.29
	10	6.77	0.58	24.55	6.31	0.54	21.69	5.84	0.50	19.01	5.38	0.46	16.49
	12	6.38	0.46	16.27	5.91	0.43	14.27	5.44	0.39	12.34	4.98	0.36	10.60
	14	5.97	0.37	11.21	5.50	0.34	9.74	5.04	0.31	8.37	4.57	0.28	7.10
	16	5.56	0.30	7.93	5.08	0.27	6.82	4.61	0.25	5.78	4.14	0.22	4.80
60	8	8.31	0.90	50.70	7.84	0.84	45.55	7.37	0.79	40.91	6.91	0.74	36.62
	10	7.92	0.68	31.56	7.45	0.64	28.42	6.98	0.60	25.46	6.52	0.56	22.60
	12	7.52	0.54	21.14	7.05	0.51	18.90	6.59	0.47	16.85	6.12	0.44	14.85
	14	7.12	0.44	14.81	6.65	0.41	13.16	6.18	0.38	11.61	5.72	0.35	10.15
	16	6.72	0.36	10.72	6.25	0.34	9.46	5.78	0.31	8.28	5.31	0.29	7.17

Abbreviations:

Δt : Temperature Difference. ($^{\circ}\text{C}$) **TH:** Total Heating Capacity. (kW) **WF:** Water Flow. (m³/h) **WPD:** Water Pressure Drop. (kPa)

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