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Part. 1 General information

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1. Product lineup

Nominal ton	Model	Function	Air outlet	Power supply
7.5	BAP110903CM	Cooling only	Side discharge	220V 3Ph 60Hz
10	BAP111203CM	Cooling only	Side discharge	
15	BAP111803CM	Cooling only	Side discharge	
20	BAP102403CM	Cooling only	Side discharge	
25	BAP103003CM	Cooling only	Side discharge	
30	BAP103603CM	Cooling only	Side discharge	

Notes: Please refer to specification tables for accurate cooling capacity with kW or Btu/h.

2. External Appearances



7.5ton



10ton



15ton



20ton



25&30ton

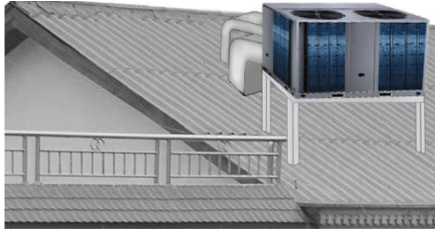
Part. 2 Performances

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1. Features

✧ Design flexibility.

Compact design and flanges of air flow inlet and outlet as standard. It is suitable for installation in rooftop and ground.



✧ Durable construction.

Pre-painted exterior cabinet panels pass 1000 hours salt spray test for durability. Weather-resistant construction with capped steams and sloped top panels design.

The rooftop package air conditioners with special anti-corrosion treatment are suitable for seaside areas or the areas exposed to acidic substances. (It should be customized.)



✧ Reliable scroll compressor.

Famous brand compressor, it is more reliable. No complex internal suction and discharge valves for quieter operation and higher reliability. Compact and light-weight design, fewer moving parts design.

✧ Adjustable pulley

Through changing the working pitch diameter of the pulley mounted on driver shaft, in turn the revolutions per minute of the driven shaft will increase or decrease to change air volume.

✧ Multi-protection design.

Multi-measurement can ensure units operate normally and reliably:

System current protection;

High/low-pressure switch protection;

Temperature sensor on/off protection, etc.

The three-phase protector can be customized.

- ✧ Easy to installation.

Removable access door on the electric box is standard. It is easy to move the cover of the electric box. Only connect the wires of power supply, and no need to connect any signal wires.

Reserved external drainage port, quickly and accurately connect the rubber drainage pipe.



- ✧ The unit provides external pressure gauge ports for convenient and fast checking system pressure without removing the panel.(Only for 7.5Ton-15Ton)



- ✧ System self-diagnostic function.

Press the Check button in Main PCB board, and the LED display of PCB board in unit will display the normal checking code. If the unit is in running with abnormal operation, the LED display will show the error code.

- ✧ EHK (Electrical heater kits) and air intake filter as optional.
- ✧ Wired controller as standard. Besides B-Air controller, other brand thermostat can be matched as optional solution.

2. Specifications

Nominal ton		(Ton)	7.5	10
Model			BAP110903CM	BAP111203CM
Power supply		\	220V, 3Ph, 60Hz	220V, 3Ph, 60Hz
Cooling 1	Cooling capacity	Btu/h	89,000	120,000
		kW	26.1	35.2
	Power input	kW	7.9	10.7
Cooling 2	Cooling capacity	Btu/h	69,600	100,200
		kW	20.4	29.37
	Power input	kW	8.6	12.5
Max. input consumption		kW	11.3	17.5
Max. current		A	42.2	52.3
Performance	Indoor air flow	CFM	2,700	4,120
	ESP	Pa	Default: 80, 0~250	Default: 90, 0~250
	EER 1	Btu/h.W	11.3	11.2
	EER 2	Btu/h.W	8.1	8.0
Indoor coil	Number of rows	\	3	4
	Fin spacing	mm	1.3	1.5
	Fin type	\	Hydrophilic aluminum fin	Hydrophilic aluminum fin
	Tube diameter	mm	Φ7	Φ7
	Tube type	\	Inner grooved copper pipe	Inner grooved copper pipe
Indoor fan	Type / Quantity	\	Centrifugal / 1	Centrifugal / 1
	Drive type	\	Direct	Belt
	Motor quantity	\	1	1
	Motor model	\	YDK750-6E	YE2-100L1-4-2.2KW
	Motor capacitor	\	25μF/450V	\
	Motor speed	RPM	1,080/1,010/930	1,700
Compressor	Type / Quantity	\	Scroll / 1	Scroll / 1
	Model	\	ZP91KCE-TF5-522	ZP122KCE-TF5-522
	Brand	\	Copeland	Copeland
	Capacity	W	26,600	36,400
	Input	W	8,230	11,000
	RLA	A	30.7	37.9
	LRA	A	191	240
	Refrigerant oil	ml	1,774	2,513
Outdoor coil	Number of rows	\	3	2.5
	Fin spacing	mm	1.5	1.5
	Fin type	\	Hydrophilic aluminum fin	Hydrophilic aluminum fin
	Tube diameter	mm	Φ7	Φ7
	Tube type	\	Inner grooved copper pipe	Inner grooved copper pipe

Continued:

Nominal ton		(Ton)	7.5	10
Model			BAP110903CM	BAP111203CM
Outdoor fan	Type / Quantity	\	Axial / 1	Axial / 1
	Drive type	\	Direct	Direct
	Motor model	\	YS1100-6C	YS1100-6C
	Fan speed	RPM	1,100	1,100
Refrigerant	Type / Volume	\	R410A / 3.8kg	R410A / 4.1kg
	Control	\	Throttle valve	Throttle valve
Sound pressure level		dB(A)	75.6	75.7
Wired controller		\	KJR-25B	KJR-12B/dP(T)-E
Centralized controller (Optional)		\	No	Yes
Ambient temperature (Cooling)		℃	10~52	10~52
System stage		\	1	1
Dimensions	Net (W×H×D)	mm	1,475×840×1,130	1,483×1,231×1,138
	Packing (W×H×D)	mm	1,495×870×1,150	1,500×1,255×1,155
Weight	Net	kg	235	325
	Gross	kg	240	335

Notes:

1. Nominal ton only for reference. Cooling capacity as per specifications;

2. Cooling capacity test condition: (1)

Outdoor ambient temperature: 35℃, indoor temperature: 26.7℃DB, 19.4℃WB;

Cooling capacity test condition: (2)

Outdoor ambient temperature: 46.1℃, indoor temperature: 26.7℃DB, 19.4℃WB;

3. Units are suitable for operation to $\pm 20\%$ of nominal indoor air flow.

4. ESP: external static pressure;

5. Specifications are subject to change without prior notice for product improvement.

Nominal ton		(Ton)	15	
Model			BAP111803CM	
Power Supply		\	220V, 3Ph, 60Hz	
Cooling 1	Cooling capacity	Btu/h	180,000	
		kW	52.8	
	Power input	kW	16.7	
Cooling 2	Cooling capacity	Btu/h	146,000	
		kW	42.79	
	Power input	kW	18.5	
Max. input consumption		kW	25.0	
Max. current		A	78.1	
Performance	Indoor air flow	CFM	6,450	
	ESP	Pa	Default: 110; 0~325	
	EER 1	Btu/h.W	10.8	
	EER 2	Btu/h.W	7.9	
Indoor coil	Number of rows	\	4+4	
	Fin spacing	mm	1.3+1.3	
	Fin type	\	Hydrophilic aluminum fin	
	Tube diameter	mm	Φ7	
	Tube type	\	Inner grooved copper pipe	
Indoor fan	Type / Quantity	\	Centrifugal / 1	
	Drive type	\	Belt	
	Motor quantity	\	1	
	Motor model	\	YE2-112M-4-4.0KW	
	Motor capacitor	\	\	
	Motor speed	RPM	1,728	
Compressor	Type / Quantity	\	Scroll / 2	
	Model	\	ZP57K3E-TF5-522	ZP122KCE-TF5-522
	Brand	\	Copeland	Copeland
	Capacity	W	17,000	36,400
	Input	W	5,500	11,000
	RLA	A	22.9	37.9
	LRA	A	155	240
	Refrigerant oil	ml	1,656	2,513
Outdoor coil	Number of rows	\	3.5	
	Fin spacing	mm	1.6	
	Fin type	\	Hydrophilic aluminum fin	
	Tube diameter	mm	Φ8	
	Tube type	\	Inner grooved copper pipe	

Continued:

Nominal ton		(Ton)	15
Model			BAP111803CM
Outdoor fan	Type	\	Axial
	Quantity	\	1
	Drive type	\	Direct
	Motor quantity	\	1
	Motor model	\	YS1100-6C
	Fan speed	RPM	1,100
Refrigerant	Type	\	R410A
	Volume	kg	2.2+4.6
	Control	\	Throttle valve
Sound pressure level		dB(A)	76.8
Wired controller		\	KJR-12B/dP(T)-E
Centralized controller (Optional)		\	Yes
Ambient temperature (Cooling)		℃	10~52
System stage		\	2
Dimensions	Net (W×H×D)	mm	1,965×1,230×1,130
	Packing (W×H×D)	mm	1,995×1,255×1,160
Weight	Net	kg	470
	Gross	kg	485

Notes:

1. Nominal ton only for reference. Cooling capacity as per specifications;
2. Cooling capacity test condition: (1)
Outdoor ambient temperature: 35°C, indoor temperature: 26.7°CDB, 19.4°CWB;
Cooling capacity test condition: (2)
Outdoor ambient temperature: 46.1°C, indoor temperature: 26.7°CDB, 19.4°CWB;
3. Units are suitable for operation to $\pm 20\%$ of nominal indoor air flow.
4. ESP: external static pressure;
5. Specifications are subject to change without prior notice for product improvement.

Nominal ton		(Ton)	20	
Model			BAP102403CM	
Power supply		\	220V, 3Ph, 60Hz	
Cooling 1	Cooling capacity	Btu/h	240,000	
		kW	70.3	
	Power input	kW	22.6	
Cooling 2	Cooling capacity	Btu/h	200,400	
		kW	58.76	
	Power input	kW	25.2	
Max. input consumption		kW	36.0	
Max. current		A	111.3	
Performance	Indoor air flow	CFM	8,580	
	ESP	Pa	Default: 120; 0~400	
	EER 1	Btu/h.W	10.6	
	EER 2	Btu/h.W	8.0	
Indoor coil	Number of rows	\	4	
	Fin spacing	mm	1.3	
	Fin type	\	Hydrophilic aluminum fin	
	Tube diameter	mm	Φ7	
	Tube type	\	Inner grooved copper pipe	
Indoor fan	Type / Quantity	\	Centrifugal / 2	
	Drive type	\	Belt	
	Motor quantity	\	1	
	Motor model	\	YE2-132S-4-5.5KW	
	Motor speed	RPM	1,730	
Compressor	Type / Quantity	\	Scroll / 2	
	Model	\	ZP122KCE-TF5-522	ZP122KCE-TF5-522
	Brand	\	Copeland	Copeland
	Capacity	W	36,400	36,400
	Input	W	11,000	11,000
	RLA	A	37.9	37.9
	LRA	A	240	240
	Refrigerant oil	ml	2,513	2,513
Outdoor coil	Number of rows	\	3+3	
	Fin spacing	mm	1.5+1.5	
	Fin type	\	Hydrophilic aluminum fin	
	Tube diameter	mm	Φ7	
	Tube type	\	Inner grooved copper pipe	

Continued:

Nominal ton		(Ton)	20
Model			BAP102403CM
Outdoor fan	Type	\	Axial
	Quantity	\	2
	Drive type	\	Direct
	Motor quantity	\	2
	Motor model	\	YS2200-6C
	Fan speed	RPM	1,150
Refrigerant	Type	\	R410A
	Volume	kg	5.4+5.4
	Control	\	Throttle valve
Sound pressure level		dB(A)	78.3
Wired controller		\	KJR-12B/dP(T)-E
Centralized controller (Optional)		\	Yes
Ambient temperature (Cooling)		℃	10~52
System stage		\	2
Dimensions	Net (W×H×D)	mm	1,670×1,247×2,192
	Packing (W×H×D)	mm	1,695×1,284×2,212
Weight	Net	kg	670
	Gross	kg	700

Notes:

1. Nominal ton only for reference. Cooling capacity as per specifications;
2. Cooling capacity test condition: (1)
Outdoor ambient temperature: 35°C, indoor temperature: 26.7°CDB, 19.4°CWB;
Cooling capacity test condition: (2)
Outdoor ambient temperature: 46.1°C, indoor temperature: 26.7°CDB, 19.4°CWB;
3. Units are suitable for operation to $\pm 20\%$ of nominal indoor air flow.
4. ESP: external static pressure;
5. Specifications are subject to change without prior notice for product improvement.

Nominal ton		(Ton)	25	
Model			BAP103003CM	
Power supply		\	220V, 3Ph, 60Hz	
Cooling 1	Cooling capacity	Btu/h	300,000	
		kW	87.9	
	Power input	kW	28.0	
Cooling 2	Cooling capacity	Btu/h	251,700	
		kW	73.77	
	Power input	kW	37.9	
Max. input consumption		kW	45.0	
Max. current		A	139.3	
Performance	Indoor air flow	CFM	11,138	
	ESP	Pa	Default: 250; 125~450	
	EER 1	Btu/h.W	10.7	
	EER 2	Btu/h.W	6.6	
Indoor coil	Number of rows	\	4	
	Fin spacing	mm	1.6	
	Fin type	\	Hydrophilic aluminum fin	
	Tube diameter	mm	Φ8	
	Tube type	\	Inner grooved copper pipe	
Indoor fan	Type / Quantity	\	Centrifugal / 2	
	Drive type	\	Belt	
	Motor quantity	\	1	
	Motor model	\	YKSJ-7500-4-7	
	Motor speed	RPM	1,730	
Compressor	Type / Quantity	\	Scroll / 2	
	Model	\	ZP137KCE-TF5-522	ZP137KCE-TF5-522
	Brand	\	Copeland	Copeland
	Capacity	W	40,200	40,200
	Input	W	12,400	12,400
	RLA	A	53.6	53.6
	LRA	A	245	245
	Refrigerant oil	ml	3,253	3,253
Outdoor coil	Number of rows	\	3+2+3+2	
	Fin spacing	mm	1.5+1.5+1.5+1.5	
	Fin type	\	Hydrophilic aluminum fin	
	Tube diameter	mm	Φ7	
	Tube type	\	Inner grooved copper pipe	

Continued:

Nominal ton		(Ton)	25
Model			BAP103003CM
Outdoor fan	Type	\	Axial
	Quantity	\	2
	Drive type	\	Direct
	Motor quantity	\	2
	Motor model	\	YS2200-6
	Fan speed	RPM	1,130
Refrigerant	Type	\	R410A
	Volume	kg	6.7+6.7
	Control	\	Capillary
Sound pressure level		dB(A)	79.2
Wired controller		\	KJR-12B/dP(T)-E
Centralized controller (Optional)		\	Yes
Ambient temperature (Cooling)		℃	10~52
System stage		\	2
Dimensions	Net (W×H×D)	mm	2,320×1,245×2,220
	Packing (W×H×D)	mm	2,330×1,275×2,230
Weight	Net	kg	895
	Gross	kg	925

Notes:

1. Nominal ton only for reference. Cooling capacity as per specifications;
2. Cooling capacity test condition: (1)
Outdoor ambient temperature: 35°C, indoor temperature: 26.7°CDB, 19.4°CWB;
Cooling capacity test condition: (2)
Outdoor ambient temperature: 46.1°C, indoor temperature: 26.7°CDB, 19.4°CWB;
3. Units are suitable for operation to $\pm 20\%$ of nominal indoor air flow.
4. ESP: external static pressure;
5. Specifications are subject to change without prior notice for product improvement.

Nominal ton		(Ton)	30	
Model			BAP103603CM	
Power supply		\	220V, 3Ph, 60Hz	
Cooling 1	Cooling capacity	Btu/h	360,000	
		kW	105.5	
	Power input	kW	36.0	
Cooling 2	Cooling capacity	Btu/h	289,900	
		kW	84.9	
	Power input	kW	44.8	
Max. input consumption		kW	50.1	
Max. current		A	155.2	
Performance	Indoor air flow	CFM	11,000	
	ESP	Pa	Default: 270; 0~500	
	EER 1	Btu/h.W	10.0	
	EER 2	Btu/h.W	6.5	
Indoor coil	Number of rows	\	4	
	Fin spacing	mm	1.6	
	Fin type	\	Hydrophilic aluminum fin	
	Tube diameter	mm	Φ8	
	Tube type	\	Inner grooved copper pipe	
Indoor fan	Type / Quantity	\	Centrifugal / 2	
	Drive type	\	Belt	
	Motor quantity	\	1	
	Motor model	\	YKSJ-7500-4--7	
	Motor speed	RPM	1,730	
Compressor	Type / Quantity	\	Scroll / 2	
	Model	\	SH161A3ALC	SH161A3ALC
	Brand	\	Danfoss	Danfoss
	Capacity	W	41956	41956
	Input	W	13,150	13,150
	RLA	A	49.3	49.3
	LRA	A	315	315
	Refrigerant oil	ml	3,300	3,300
Outdoor coil	Number of rows	\	3+3+3+3	
	Fin spacing	mm	1.5+1.5+1.5+1.5	
	Fin type	\	Hydrophilic aluminum fin	
	Tube diameter	mm	Φ7+Φ7+Φ7+Φ7	
	Tube type	\	Inner grooved copper pipe	

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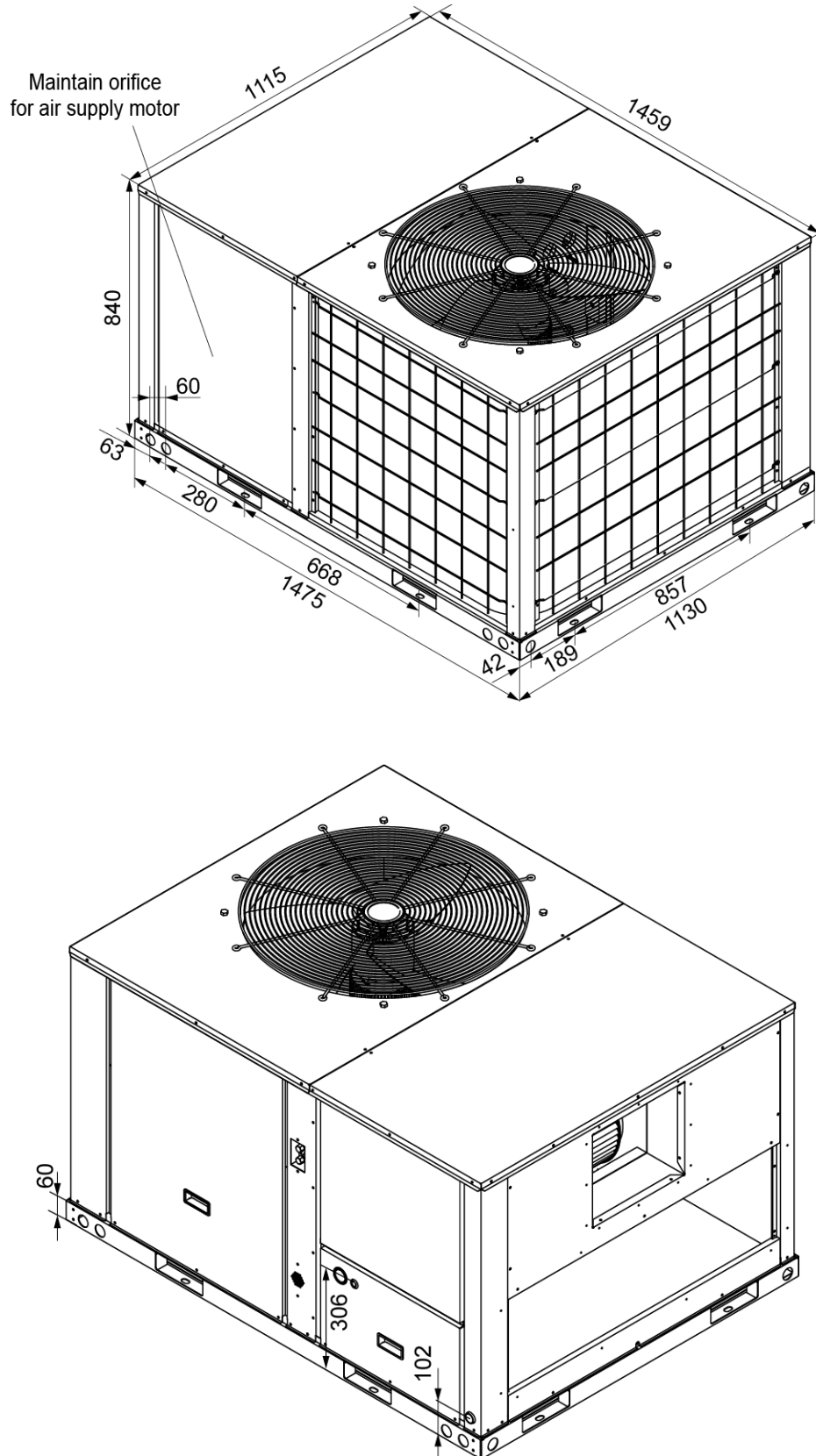
Nominal ton		(Ton)	30
Model			BAP103603CM
Outdoor fan	Type	\	Axial
	Quantity	\	2
	Drive type	\	Direct
	Motor quantity	\	2
	Motor model	\	YKSJ-2200-6-8
	Fan speed	RPM	1130
Refrigerant	Type	\	R410A
	Volume	kg	7.1+7.1
	Control	\	Capillary
Sound pressure level		dB(A)	79.7
Wired controller		\	KJR-12B/dP(T)-E
Centralized controller (Optional)		\	Yes
Ambient temperature (Cooling)		℃	10~52
System stage		\	2
Dimensions	Net (W×H×D)	mm	2,320×1,245×2,220
	Packing (W×H×D)	mm	2,330×1,275×2,230
Weight	Net	kg	940
	Gross	kg	970

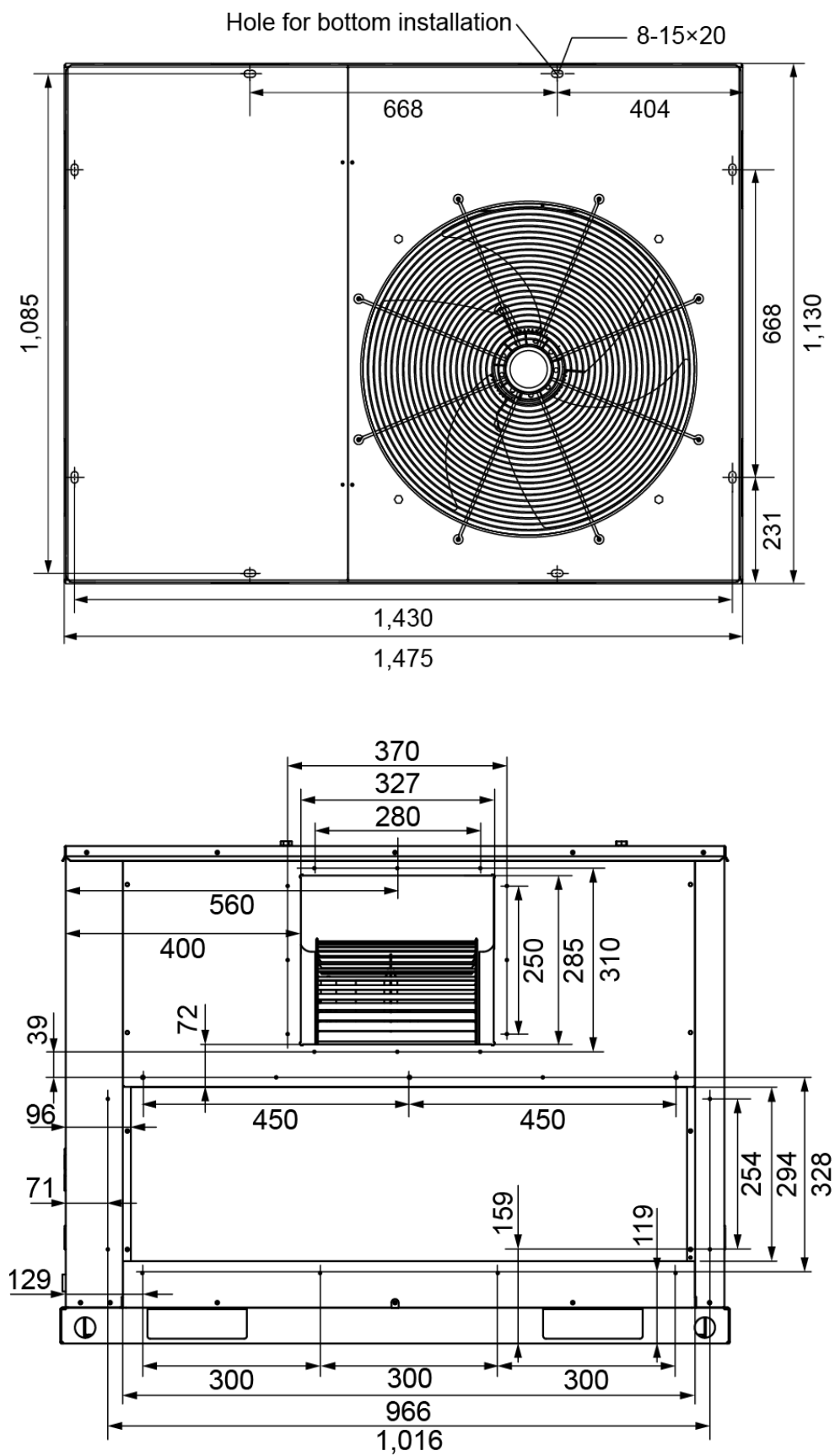
Notes:

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2. Cooling capacity test condition: (1)
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Cooling capacity test condition: (2)
Outdoor ambient temperature: 46.1℃, indoor temperature: 26.7℃DB, 19.4℃WB;
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4. ESP: external static pressure;
5. Specifications are subject to change without prior notice for product improvement.

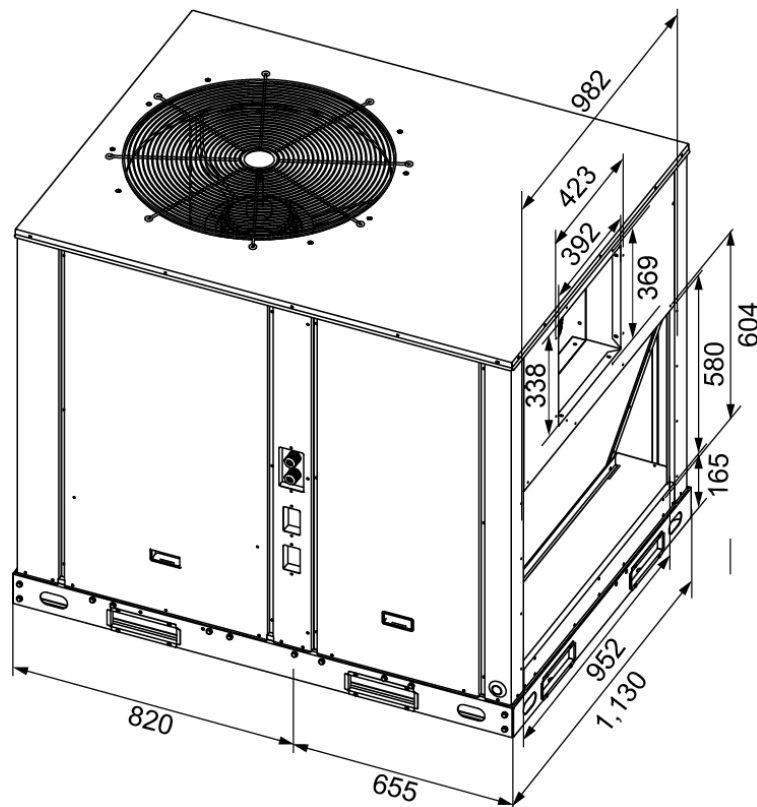
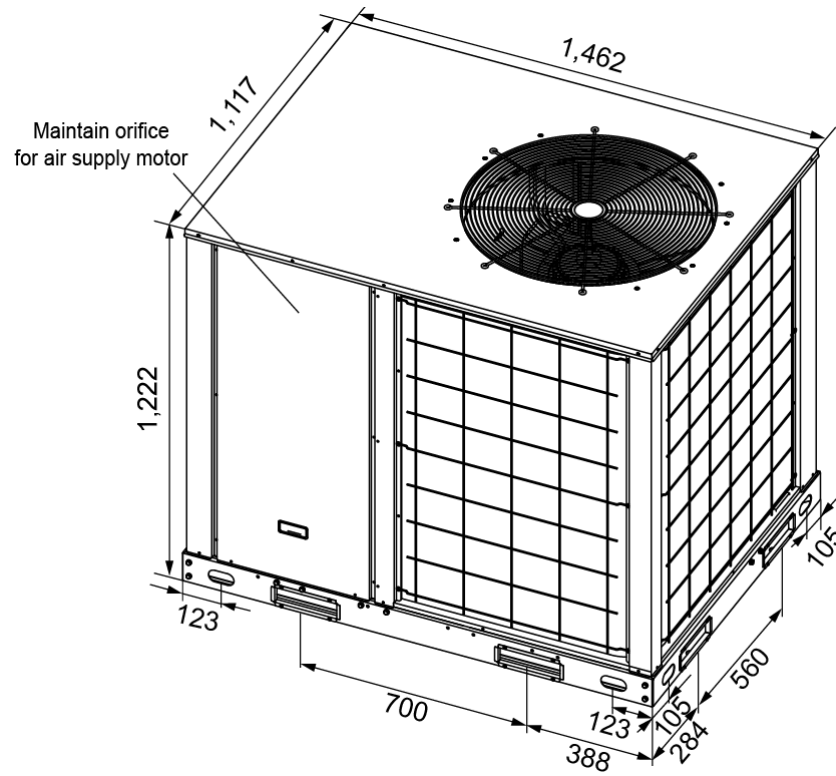
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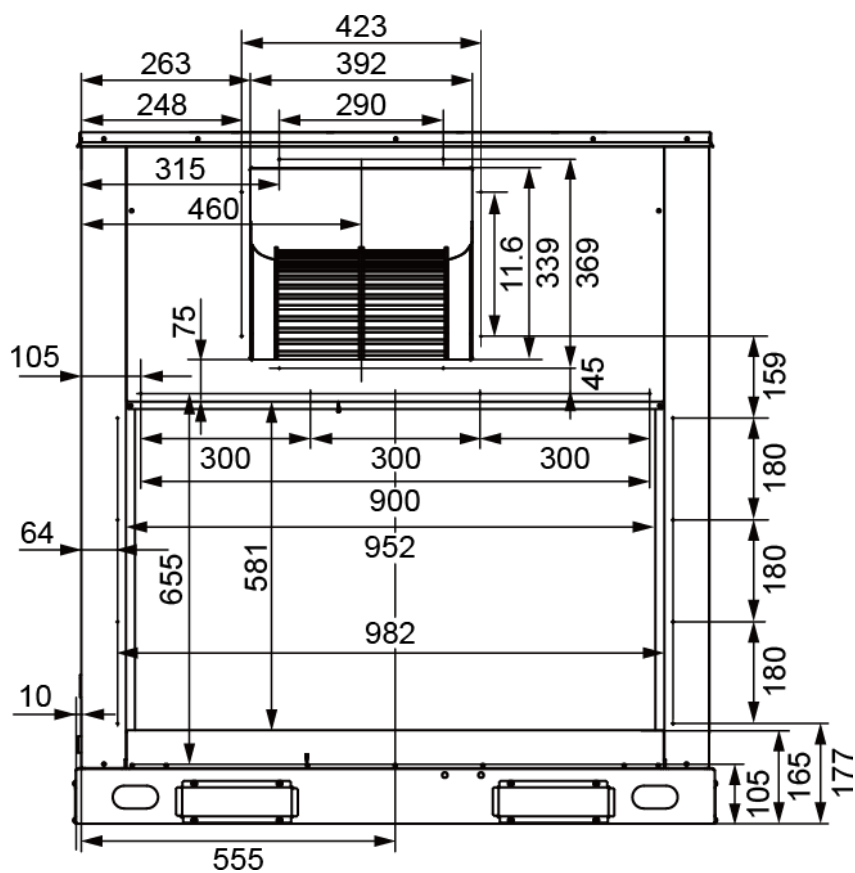
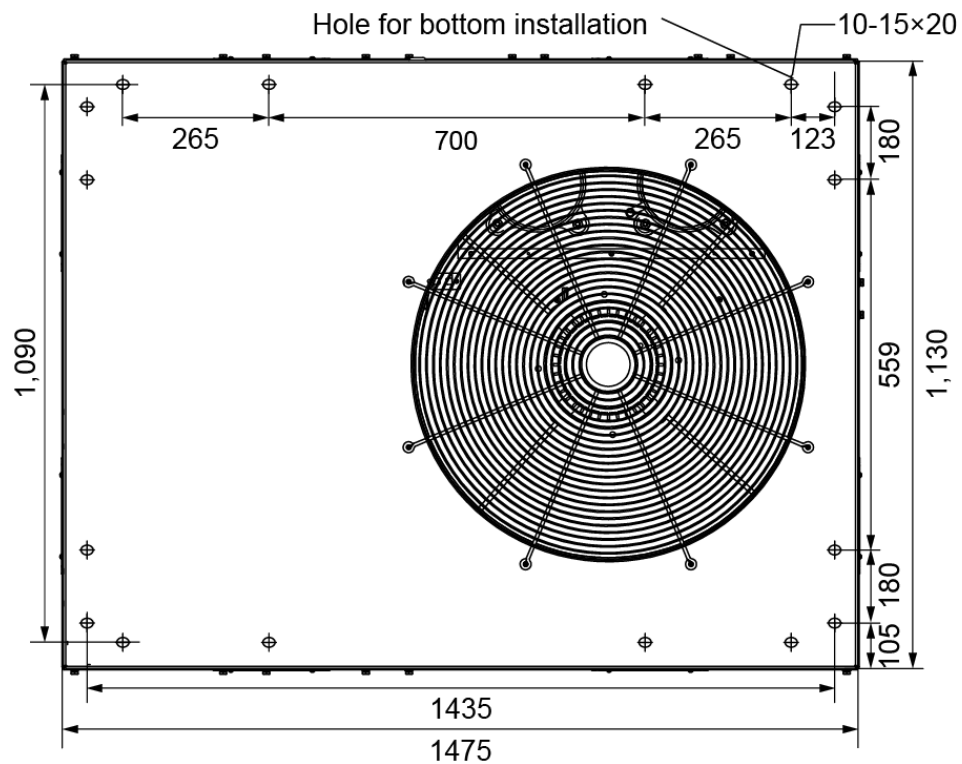
BAP110903CM: (Unit: mm)



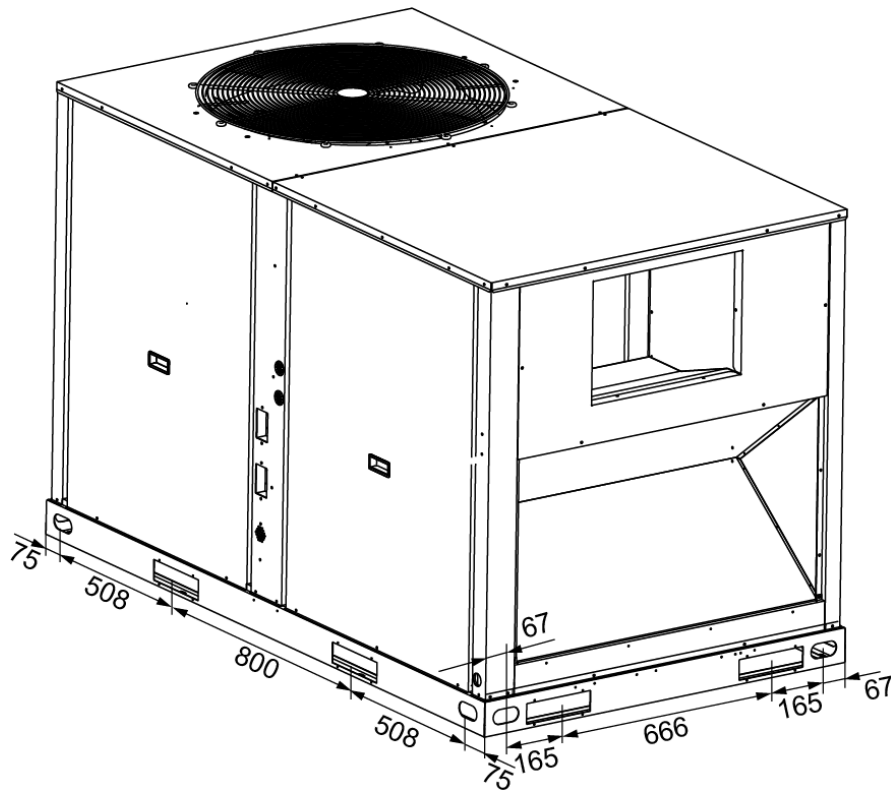
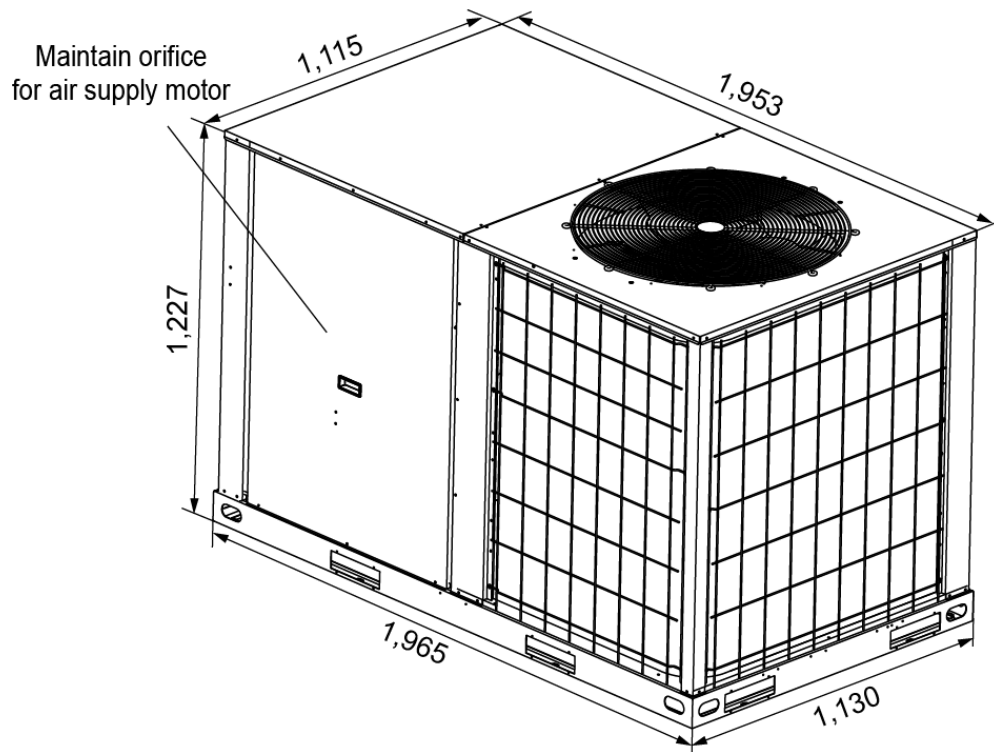


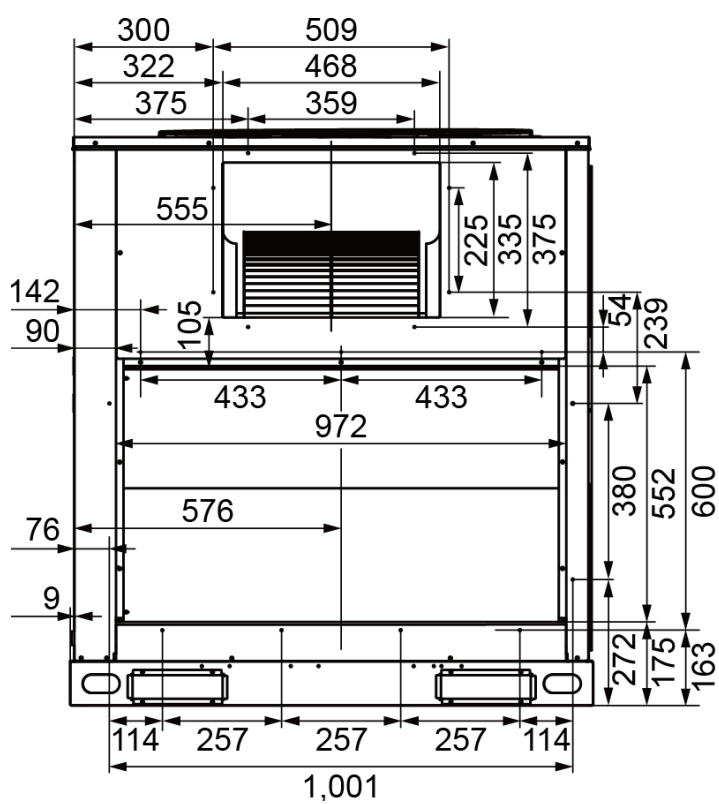
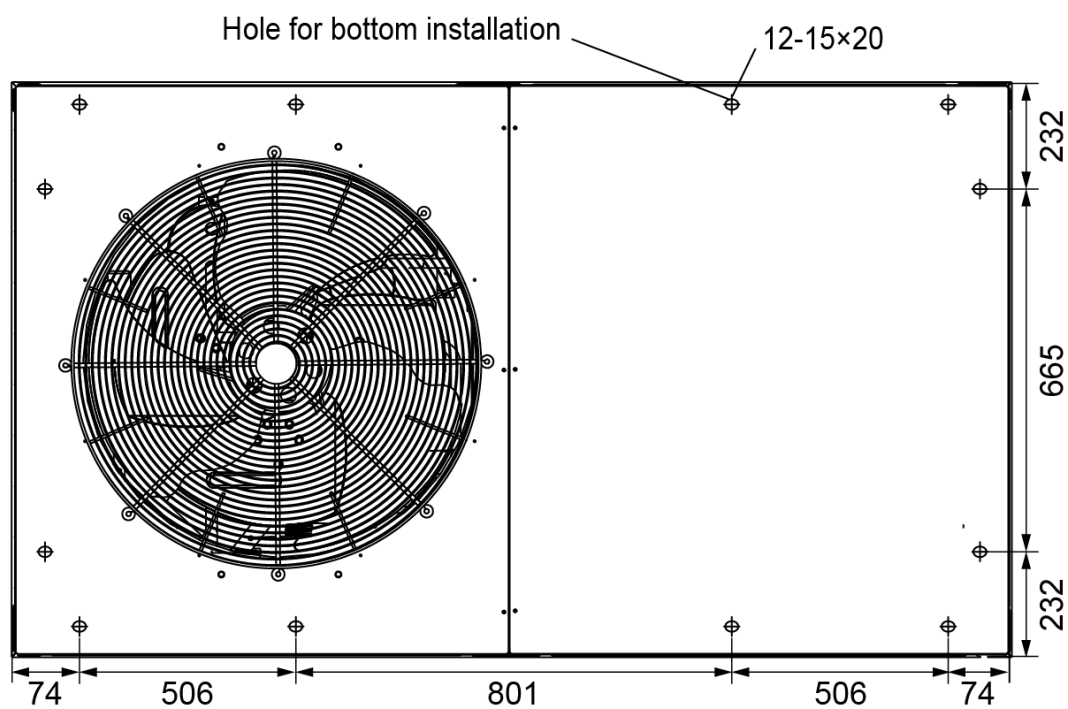
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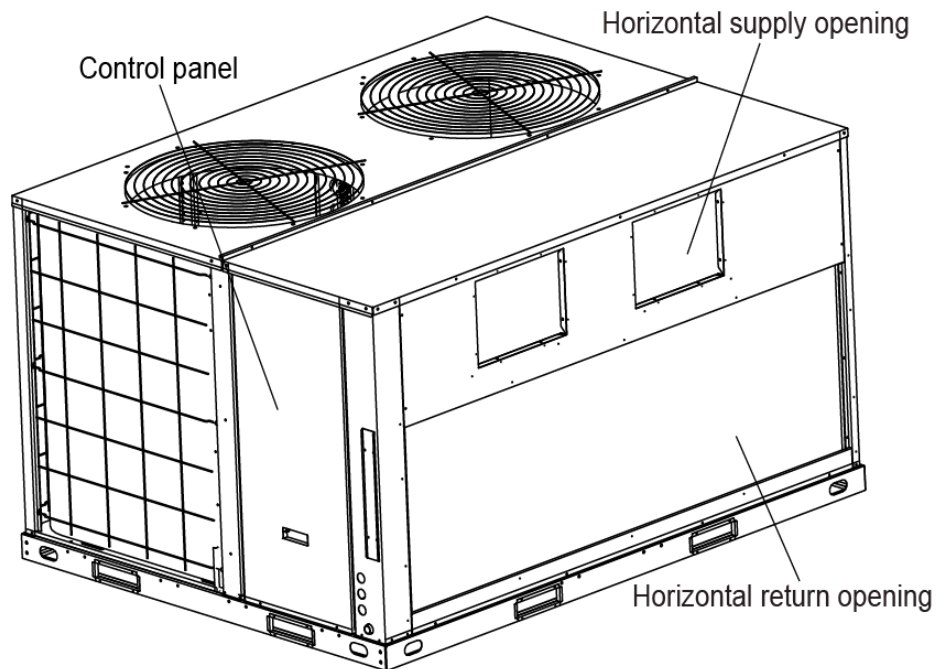
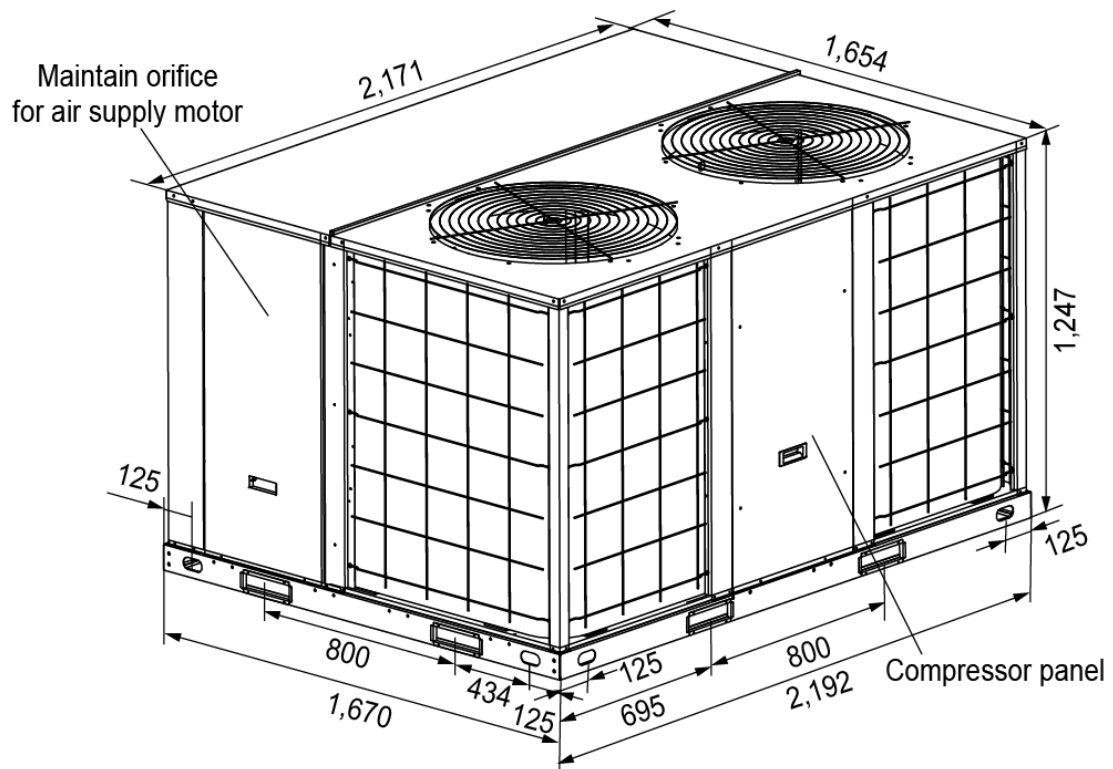


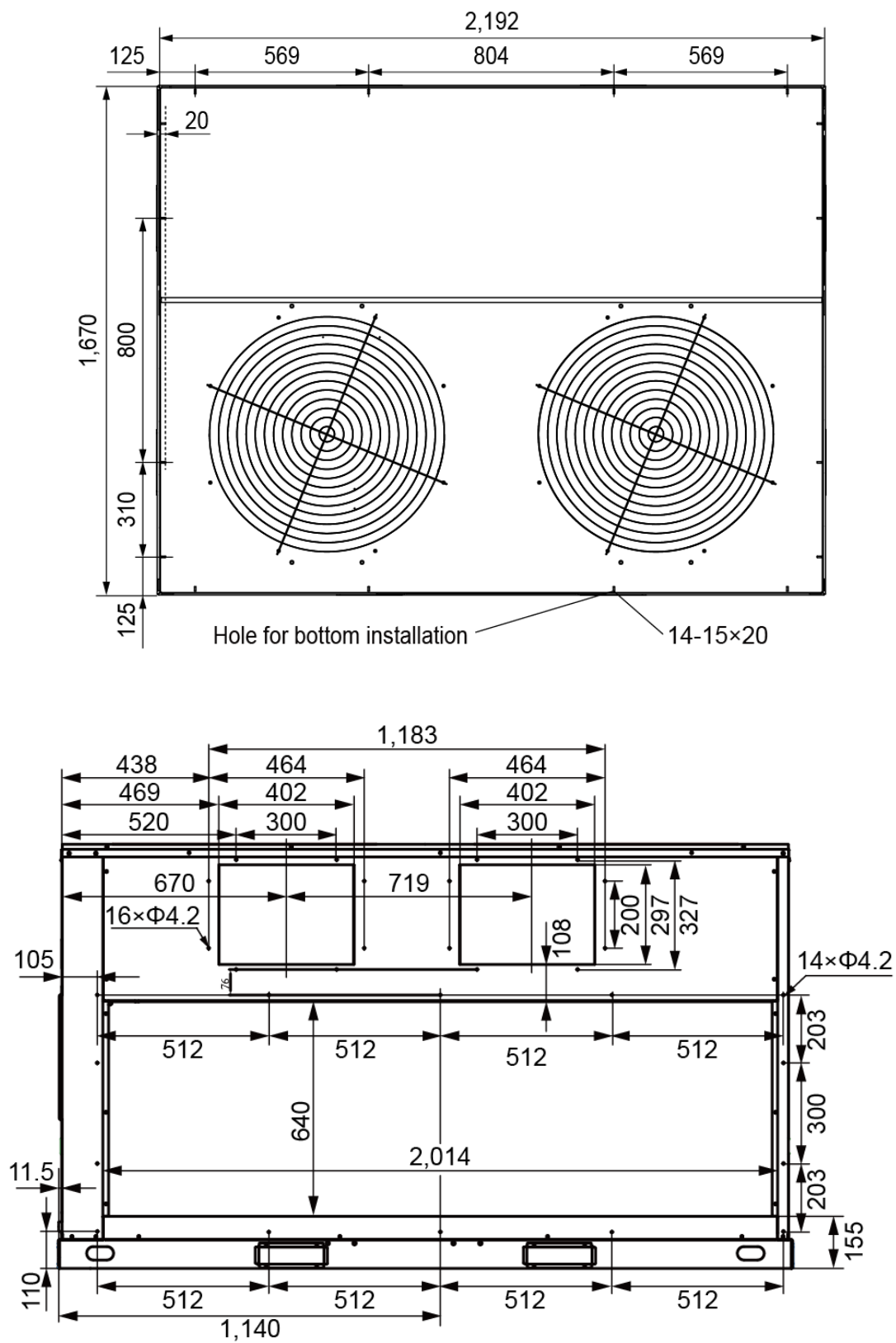
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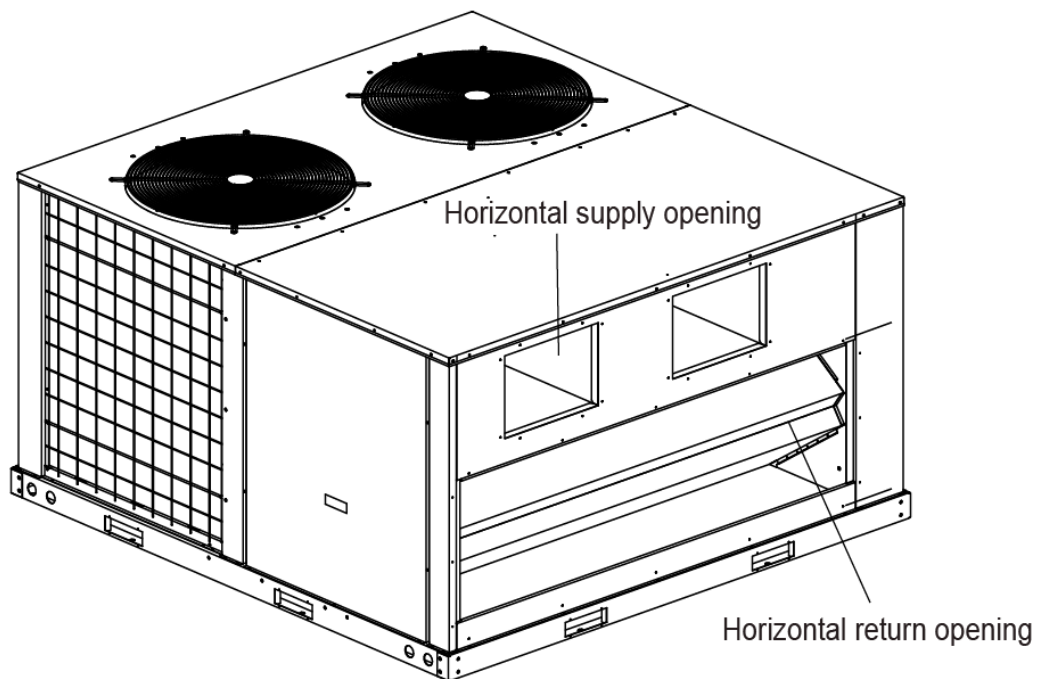
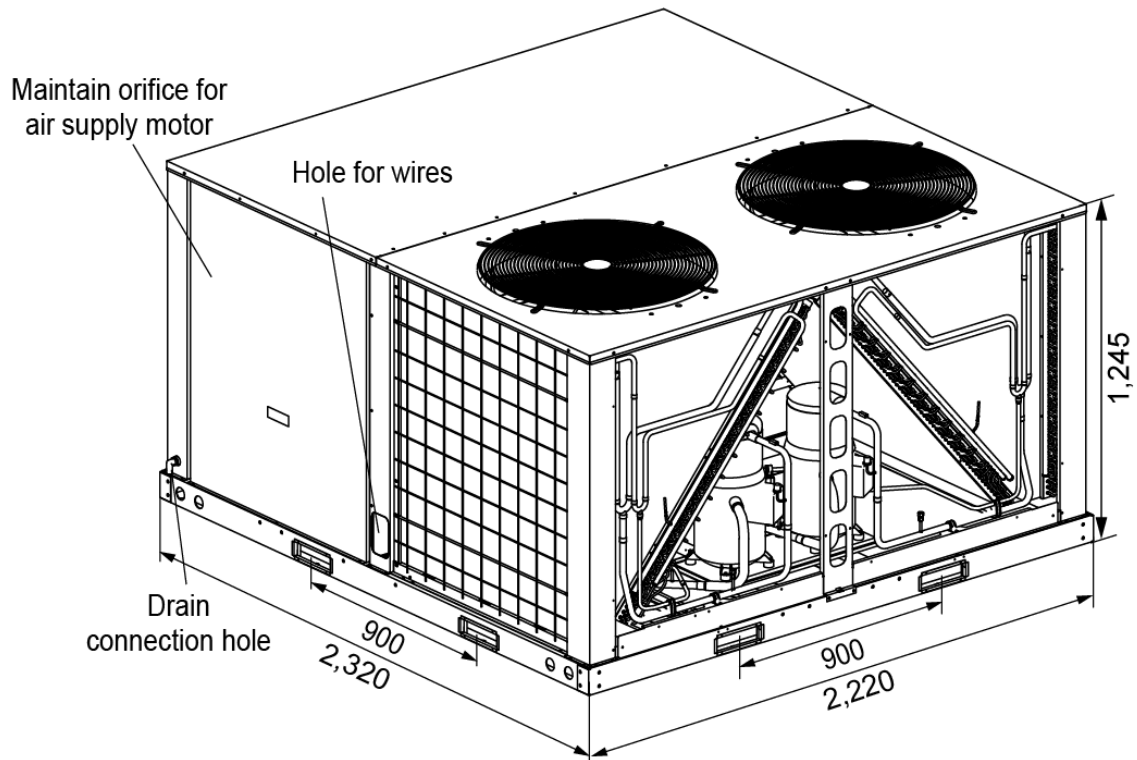


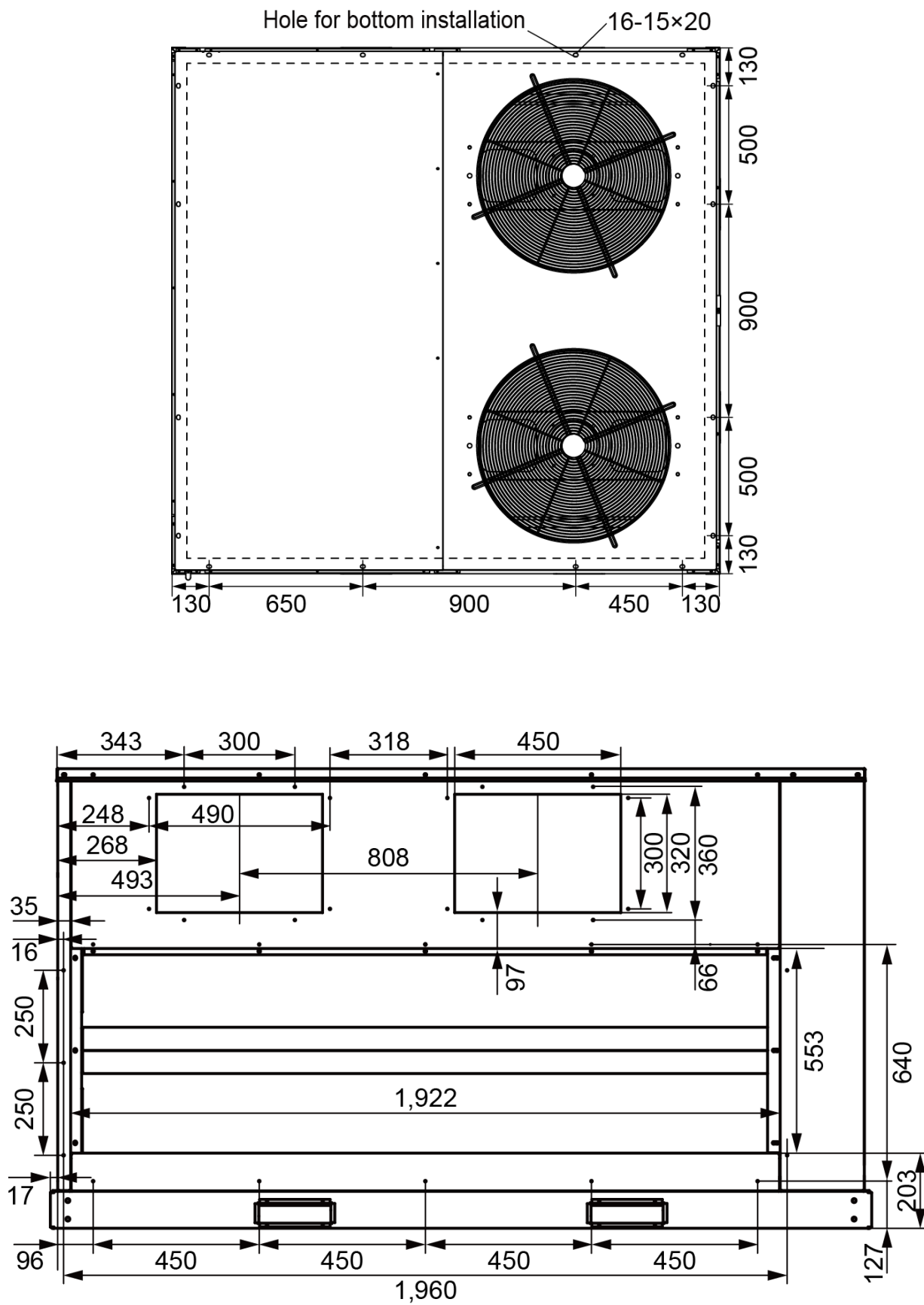
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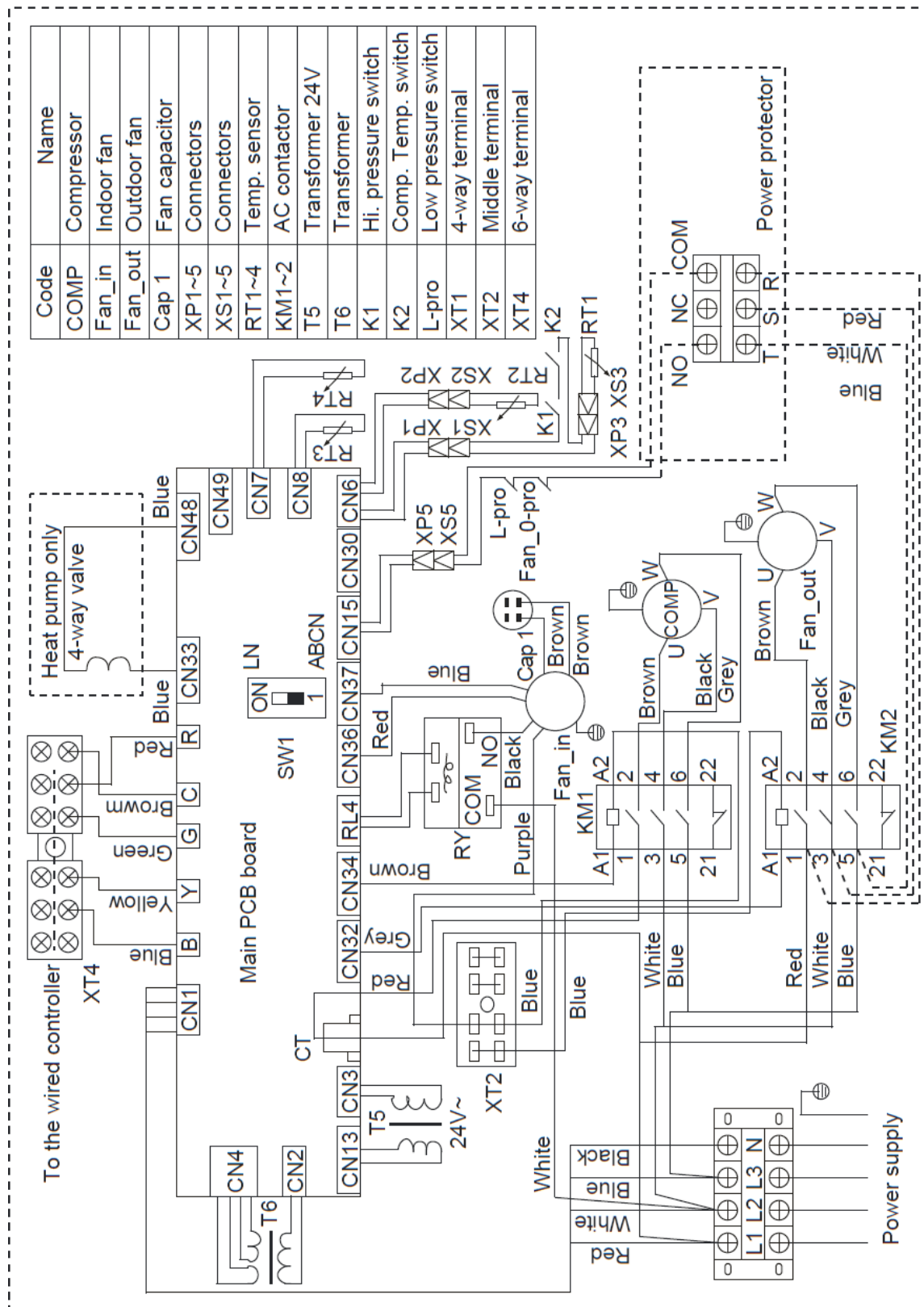
BAP103003CM, BAP103603CM: (Unit: mm)

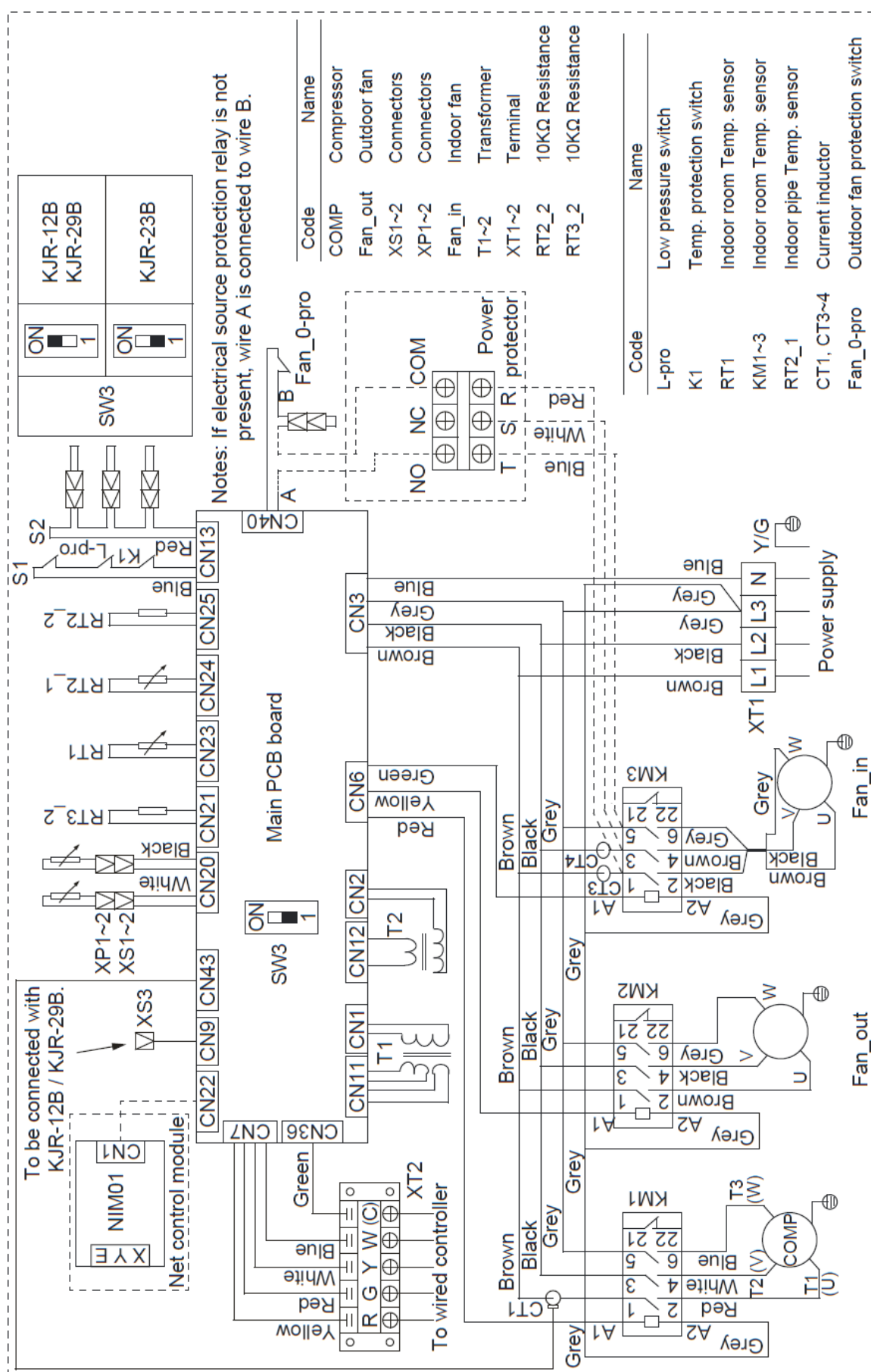




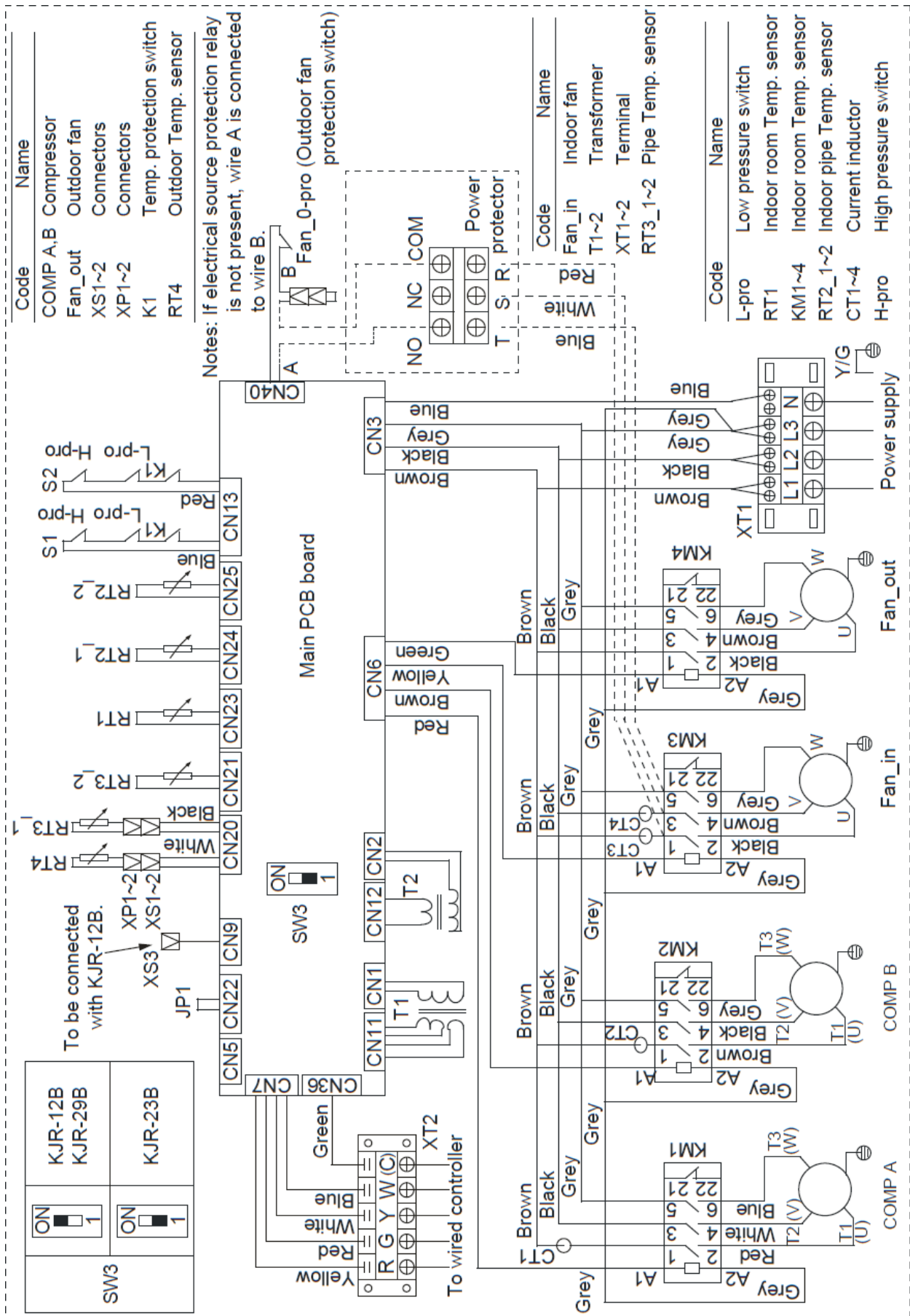
4. Wiring diagrams

BAP110903CM:

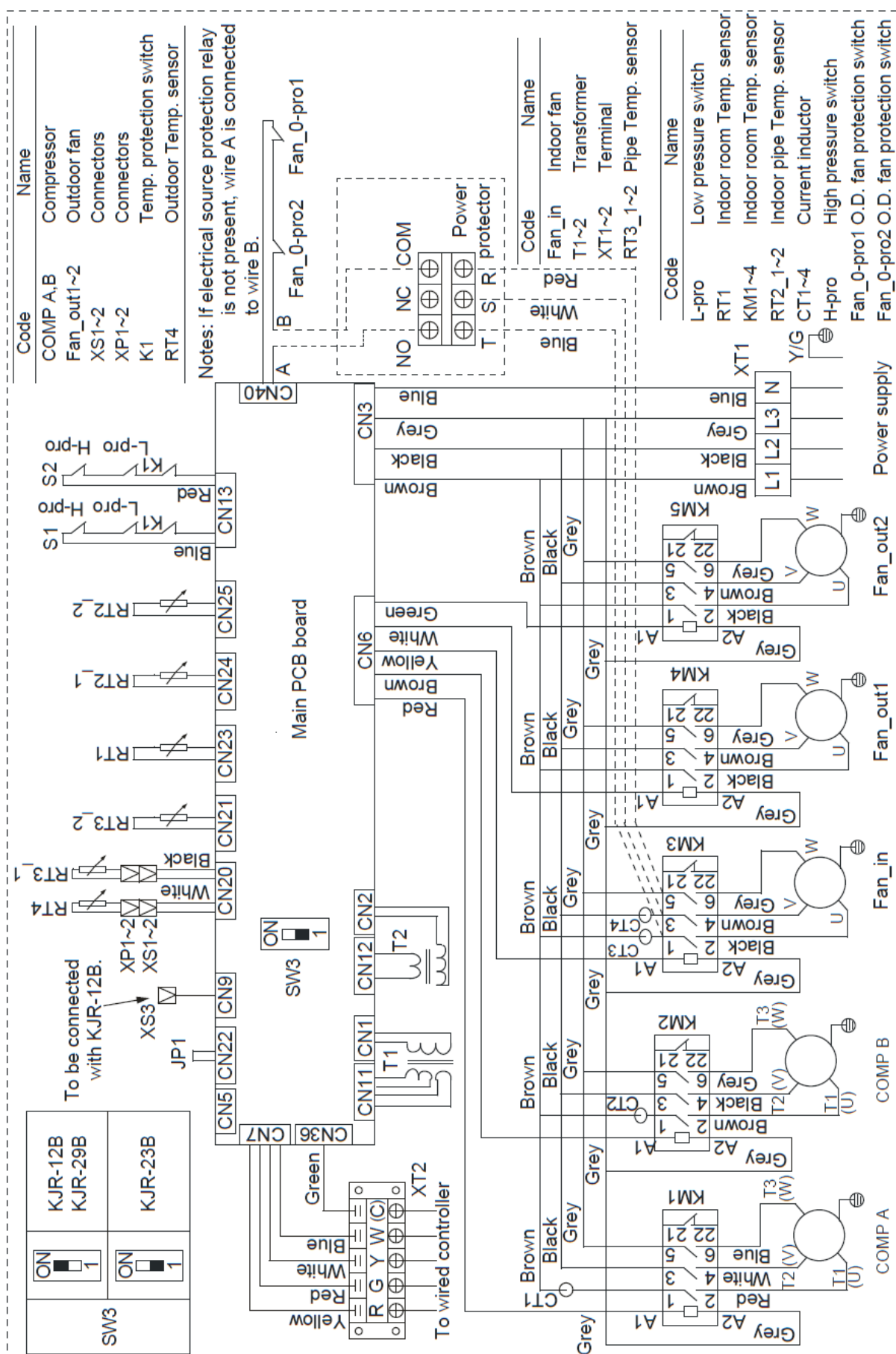


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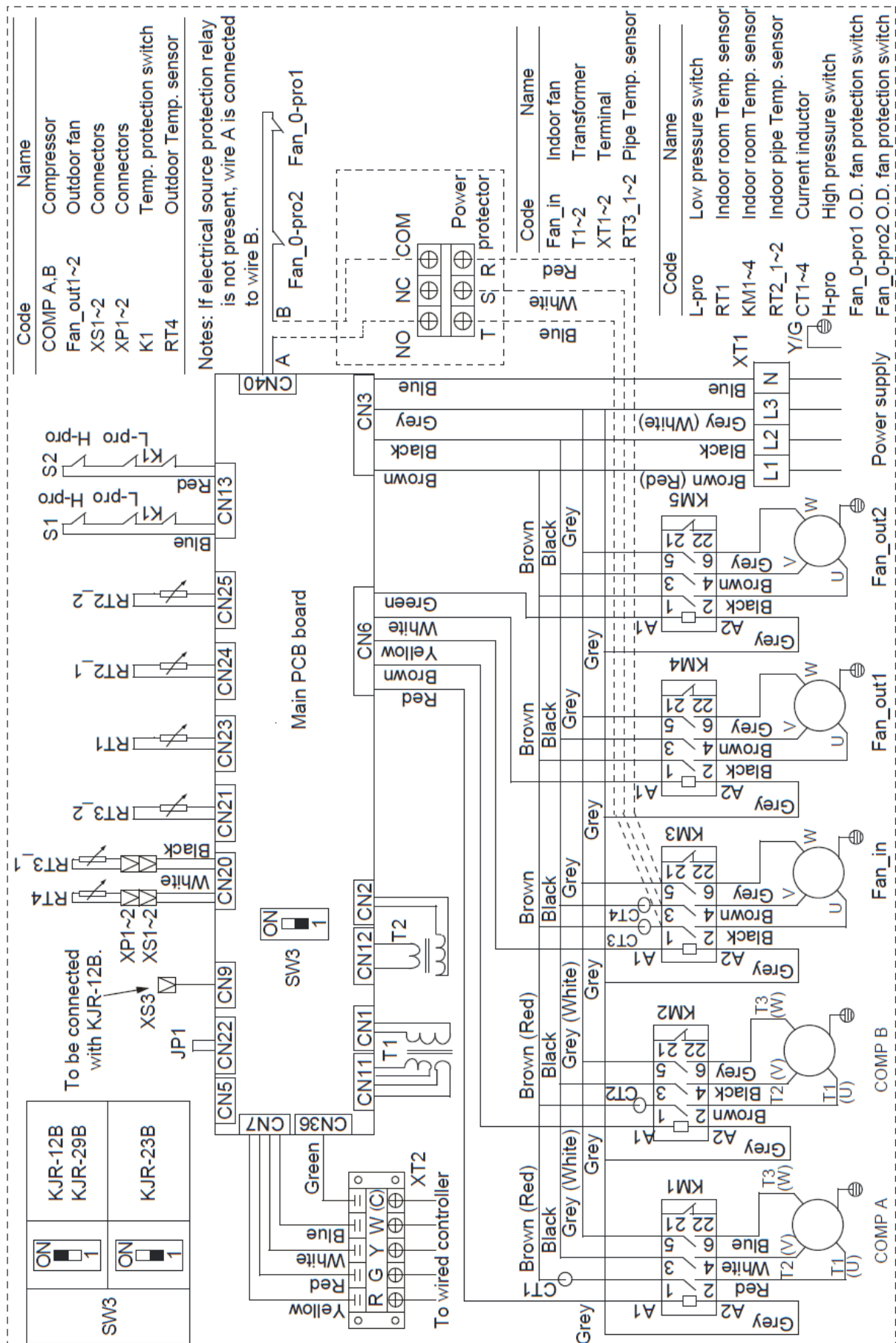
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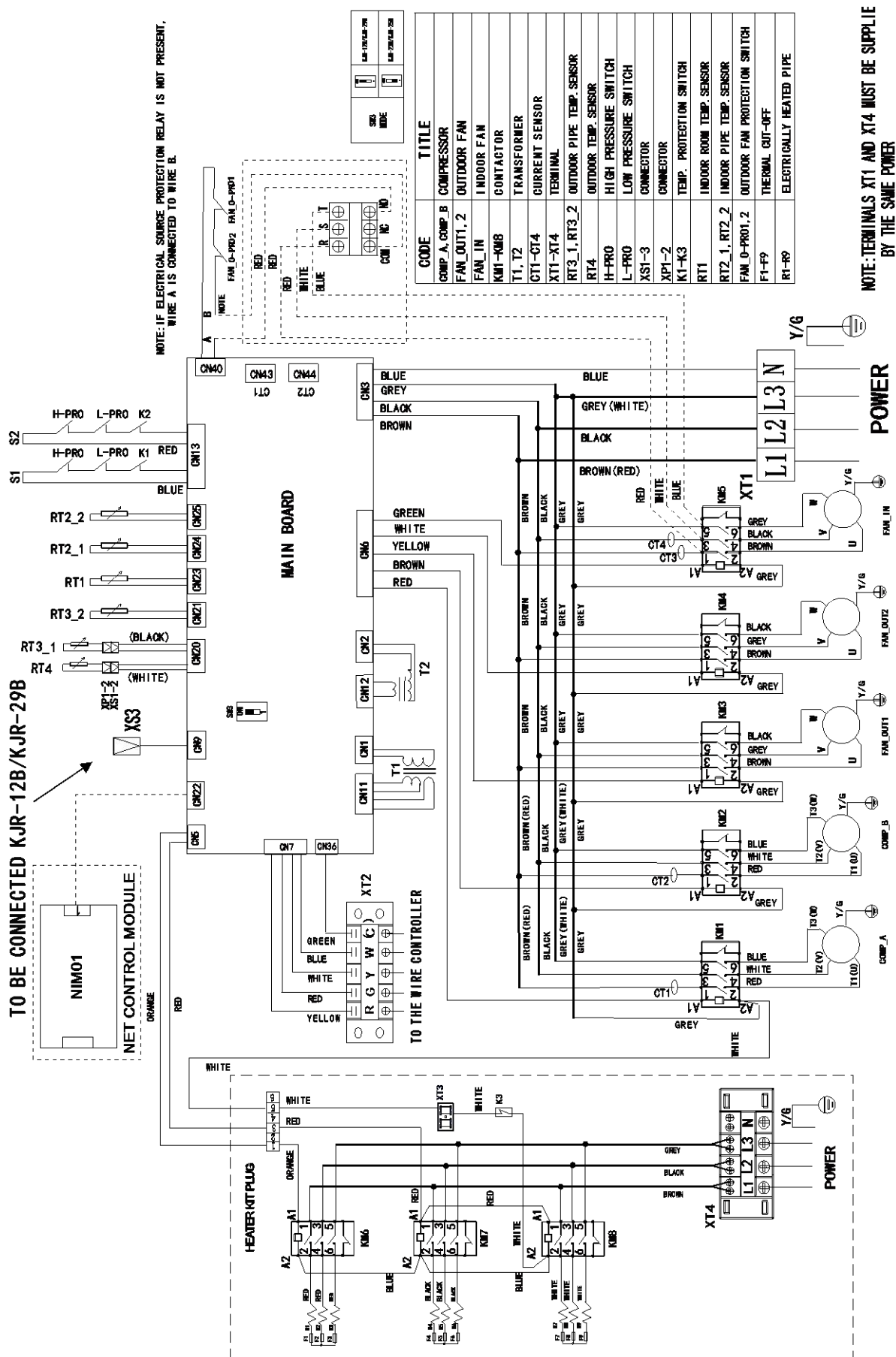
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BAP103003CM:



BAP103603CM:



5. Performance data

BAP110903CM

Cooling capacity:

Gross Cooling Capacity																			
Ambient DB(°C)		29.4									35								
Indoor	WB(°C)	16.1			19.4			22.8			16.1			19.4			22.8		
CFM	DB(°C)	TC	SC	PI	TC	SC	PI	TC	SC	PI	TC	SC	PI	TC	SC	PI	TC	SC	PI
2,100	23.9	62.4	48.7	5604.4	65.2	43.4	5337.4	81.0	42.5	7092.8	58.5	50.9	6182.8	61.2	38.2	5888.3	79.5	24.7	7824.9
	26.7	63.8	51.5	5764.3	66.4	48.9	5085.2	82.7	48.9	7316.2	59.9	55.6	6359.2	62.3	48.4	5610.0	77.6	36.3	8071.2
	29.4	65.1	52.9	5990.2	67.2	54.5	5394.7	84.5	54.2	7769.7	61.1	57.4	6608.4	63.0	59.0	5951.5	79.2	45.6	8571.6
	32.2	66.5	54.4	6247.4	68.9	56.9	5723.5	86.2	59.5	8127.0	62.3	59.6	6892.2	64.7	62.6	6314.2	80.9	54.9	8965.8
2,950	23.9	81.1	63.9	7138.9	87.7	58.3	6695.8	99.7	52.6	8702.2	76.1	67.4	7875.7	82.2	51.3	7386.9	93.5	31.1	9600.3
	26.7	82.8	67.7	7333.6	94.9	68.6	7070.5	101.8	61.0	8974.1	77.7	73.7	8090.4	89.0	66.6	7800.2	95.5	46.2	9900.3
	29.4	84.7	69.7	7621.8	97.8	77.2	7552.3	103.9	68.2	9526.4	79.4	76.3	8408.4	91.8	81.7	8331.7	97.5	59.2	10509.6
	32.2	86.5	72.4	7948.1	99.3	80.2	7913.3	106.1	75.7	9961.5	81.1	80.5	8768.4	93.2	86.5	8730.0	99.5	72.4	10989.6
3,200	23.9	87.0	68.5	7651.4	94.0	62.4	7176.5	106.8	56.4	9326.9	81.6	72.2	8441.0	88.1	55.0	7917.1	100.2	33.4	10289.5
	26.7	88.8	72.5	7860.0	101.7	73.5	7578.0	109.1	65.3	9618.3	83.3	79.0	8671.2	95.4	71.4	8360.1	102.3	49.5	10611.0
	29.4	90.7	74.7	8169.0	104.9	82.8	8094.4	111.4	73.1	10210.3	85.1	81.8	9012.0	98.4	87.5	8929.8	104.5	63.4	11264.0
	32.2	92.7	77.6	8518.7	106.5	85.9	8481.3	113.7	81.1	10676.6	87.0	86.2	9397.9	99.9	92.7	9356.7	106.6	77.6	11778.4

Notes:

1. All capacities are gross and have not considered indoor fan heat. To obtain net cooling capacity subtract indoor fan heat;
2. TC = Total Capacity (Unit: 1,000Btu/h); SC = Sensible Capacity (Unit: 1,000Btu/h).

BAP110903CM Cooling**capacity: (Continued)**

Gross Cooling Capacity																			
Ambient DB(°C)		40.6									46.1								
Indoor	WB(°C)	16.1			19.4			22.8			16.1			19.4			22.8		
CFM	DB(°C)	TC	SC	PI	TC	SC	PI	TC	SC	PI	TC	SC	PI	TC	SC	PI	TC	SC	PI
2,100	23.9	52.0	47.2	6292.0	57.1	33.8	6279.4	72.6	21.8	8099.7	45.5	43.6	6401.2	53.0	29.3	6670.6	69.3	18.9	8374.6
	26.7	52.5	50.1	6492.1	58.2	44.0	6290.4	74.2	32.5	8360.5	45.1	44.6	6625.0	54.1	39.5	6970.8	70.8	28.6	8649.8
	29.4	53.5	51.2	6716.7	59.2	54.8	6607.5	75.8	42.8	8892.2	46.0	45.0	6824.9	55.4	50.7	7263.6	72.4	40.1	9212.8
	32.2	55.0	53.1	6993.4	60.7	58.9	6946.7	77.4	53.6	9275.5	47.7	46.6	7094.5	56.7	55.2	7579.2	74.0	52.4	9585.2
2,950	23.9	66.7	59.2	7963.0	75.1	46.1	7875.8	84.4	27.7	9575.7	57.2	51.0	8050.2	68.0	40.8	8364.8	75.2	24.2	9551.2
	26.7	68.1	63.8	8206.6	79.3	61.1	8200.2	86.2	42.5	9886.5	58.4	53.9	8322.7	69.6	55.5	8600.1	76.9	38.8	9872.8
	29.4	69.6	66.7	8494.0	81.4	74.5	8716.0	88.0	56.2	10527.2	59.8	57.1	8579.6	71.1	67.2	9100.4	78.6	53.2	10544.8
	32.2	71.1	69.5	8838.2	82.9	78.7	9107.3	89.9	69.7	10987.2	61.1	58.5	8908.0	72.6	70.9	9484.6	80.3	67.1	10984.8
3,200	23.9	71.4	63.4	8534.6	80.5	49.4	8441.2	90.4	29.6	10263.1	61.3	54.6	8628.1	72.9	43.7	8965.3	80.6	25.9	10236.8
	26.7	73.0	68.4	8795.7	85.0	65.5	8788.8	92.4	45.6	10596.3	62.6	57.8	8920.2	74.6	59.5	9217.5	82.4	41.6	10581.5
	29.4	74.6	71.5	9103.8	87.3	79.8	9341.7	94.4	60.2	11282.9	64.1	61.2	9195.5	76.2	72.1	9753.7	84.2	57.0	11301.8
	32.2	76.2	74.5	9472.6	88.9	84.3	9761.1	96.4	74.7	11775.9	65.5	62.7	9547.4	77.9	75.9	10165.5	86.1	71.9	11773.4

Notes:

1. All capacities are gross and have not considered indoor fan heat. To obtain net cooling capacity subtract indoor fan heat;
2. TC = Total Capacity (Unit: 1,000Btu/h); SC = Sensible Capacity (Unit: 1,000Btu/h).

BAP110903CM Cooling**capacity: (Continued)**

Gross Cooling Capacity																			
Ambient DB(°C)		48									51.7								
Indoor	WB(°C)	16.1			19.4			22.8			16.1			19.4			22.8		
CFM	DB(°C)	TC	SC	PI	TC	SC	PI	TC	SC	PI	TC	SC	PI	TC	SC	PI	TC	SC	PI
2,100	23.9	45.1	42.9	6655.0	52.7	28.8	6730.7	68.9	18.4	8731.8	41.3	39.4	7167.2	48.2	26.5	7052.2	63.1	16.8	9427.9
	26.7	44.8	43.9	6885.8	53.8	38.9	7007.5	70.4	28.1	9049.4	41.0	40.4	7413.9	49.3	35.8	7316.3	64.5	25.8	9800.4
	29.4	45.6	44.3	7138.6	55.0	50.0	7348.0	72.0	39.4	9614.7	41.7	40.8	7729.4	50.4	46.1	7717.7	66.0	36.2	10389.9
	32.2	47.3	45.9	7403.1	56.3	54.4	7660.2	73.6	51.6	9980.0	43.2	42.4	7999.1	51.5	50.2	8038.8	67.4	47.6	10762.3
2,950	23.9	56.8	50.1	8347.8	67.6	40.1	8420.2	74.7	23.6	10024.8	51.9	46.1	8969.5	61.8	36.8	8802.6	68.4	21.6	10887.6
	26.7	58.0	53.1	8628.8	69.1	54.7	8700.0	76.4	38.1	10398.3	53.1	48.9	9269.9	63.2	50.4	9137.7	70.0	35.0	11327.6
	29.4	59.3	56.2	8943.2	70.6	66.2	9185.1	78.1	52.3	11073.4	54.2	51.7	9654.1	64.6	61.1	9626.4	71.5	48.2	12032.0
	32.2	60.7	57.6	9265.3	72.1	69.8	9565.3	79.8	66.1	11505.1	55.5	53.1	9982.5	66.0	64.4	10017.3	73.0	61.0	12472.1
3,200	23.9	60.8	53.7	8947.1	72.4	43.0	9024.7	80.1	25.3	10744.4	55.7	49.5	9613.4	66.2	39.5	9434.5	73.3	23.2	11669.2
	26.7	62.2	56.9	9248.2	74.1	58.6	9324.5	81.9	40.9	11144.8	56.9	52.4	9935.4	67.8	54.0	9793.6	75.0	37.5	12140.8
	29.4	63.6	60.2	9585.2	75.7	71.0	9844.4	83.7	56.1	11868.3	58.1	55.5	10347.2	69.2	65.4	10317.4	76.6	51.7	12895.8
	32.2	65.0	61.7	9930.4	77.3	74.8	10251.9	85.5	70.8	12331.0	59.5	56.9	10699.1	70.8	69.0	10736.4	78.3	65.3	13367.4

Notes:

1. All capacities are gross and have not considered indoor fan heat. To obtain net cooling capacity subtract indoor fan heat;
2. TC = Total Capacity (Unit: 1,000Btu/h); SC = Sensible Capacity (Unit: 1,000Btu/h).

BAP111203CM**Cooling capacity:**

Gross Cooling Capacity																			
Ambient DB(°C)		29.4									35								
Indoor	WB(°C)	16.1			19.4			22.8			16.1			19.4			22.8		
CFM	DB(°C)	TC	SC	PI	TC	SC	PI	TC	SC	PI	TC	SC	PI	TC	SC	PI	TC	SC	PI
2,900	23.9	106.6	92.5	9374.6	119.1	68.9	10455.4	123.6	43.4	10837.3	98.5	88.4	8753.4	114.4	66.5	10107.4	122.5	42.0	10828.7
	26.7	109.0	94.6	9686.2	121.8	87.9	10790.6	126.4	60.8	11187.5	100.8	90.5	9073.6	117.0	85.7	10261.4	125.2	61.3	11178.9
	29.4	111.4	96.7	10043.3	124.4	104	11165.0	129.1	75.6	11570.6	103.0	92.4	9499.7	119.5	105	10713.4	127.9	77.5	11648.2
	32.2	113.7	98.7	10557.7	127.0	121	11698.0	131.7	91.3	12111.9	105.1	94.4	10014.1	122.0	119	11324.1	130.6	93.8	12198.2
4,200	23.9	109.6	95.5	9633.5	122.1	71.9	10714.3	126.6	46.4	11096.2	101.5	91.4	9012.2	117.4	69.5	10366.2	125.5	45.0	11087.6
	26.7	112.0	97.6	9945.0	124.8	90.9	11049.5	129.4	63.8	11446.4	103.8	93.5	9332.4	120.0	88.7	10700.2	128.2	64.3	11437.8
	29.4	114.4	99.7	10302.2	127.4	107	11423.9	132.1	78.6	11829.4	106.0	95.4	9758.6	122.5	108	10972.3	130.9	80.5	11907.1
	32.2	116.7	102	10816.6	130.0	124	11956.9	134.7	94.3	12370.8	108.1	97.4	10273.0	125.0	122	11582.9	133.6	96.8	12457.1
4,800	23.9	112.5	102	9883.7	123.3	74.3	10817.8	127.0	47.0	11130.7	104.6	97.9	9279.7	121.2	73.0	10694.1	125.8	45.9	11113.4
	26.7	115.0	104	10203.9	126.0	93.2	11153.0	129.8	64.7	11480.9	106.9	100	9599.9	125.9	93.7	11029.3	128.5	65.6	11463.6
	29.4	117.4	106	10561.0	128.6	112	11527.4	132.5	80.2	11863.9	109.2	102	10034.7	127.5	113	11403.7	131.2	83.3	11933.0
	32.2	119.8	109	11084.0	131.2	128	12060.4	135.2	95.7	12413.9	111.4	104	10557.7	129.1	123	11936.7	133.9	101	12483.0

Notes:

1. All capacities are gross and have not considered indoor fan heat. To obtain net cooling capacity subtract indoor fan heat;
2. TC = Total Capacity (Unit: 1,000Btu/h); SC = Sensible Capacity (Unit: 1,000Btu/h).

BAP111203CM Cooling**capacity: (Continued)**

Gross Cooling Capacity																			
Ambient DB(°C)		40.6									46.1								
Indoor	WB(°C)	16.1			19.4			22.8			16.1			19.4			22.8		
CFM	DB(°C)	TC	SC	PI	TC	SC	PI	TC	SC	PI	TC	SC	PI	TC	SC	PI	TC	SC	PI
2,900	23.9	90.2	84.3	10064.9	106.0	63.3	11439.1	119.5	40.0	12606.2	80.0	78.3	10694.2	95.0	57.2	12061.3	112.9	35.9	13554.7
	26.7	92.3	86.3	10376.5	108.4	82.3	11765.6	122.2	59.1	12956.4	81.9	80.2	11005.7	97.2	77.1	12241.2	115.5	55.2	13904.9
	29.4	94.3	88.2	10716.4	110.8	102	12140.0	124.8	77.0	13348.0	83.8	82.0	11500.9	99.4	96.1	12762.3	118.0	74.1	14451.9
	32.2	96.3	90.0	11239.4	113.1	112	12673.0	127.4	94.3	13898.0	85.6	83.8	12015.3	101.5	98.1	13295.3	120.5	92.7	15001.9
4,200	23.9	93.2	87.3	10323.7	109.0	66.3	11697.9	122.5	43.0	12865.0	83.0	81.3	10953.0	98.0	60.2	12320.1	115.9	38.9	13813.5
	26.7	95.3	89.3	10635.3	111.4	85.3	12024.5	125.2	62.1	13215.2	84.9	83.2	11264.6	100.2	80.1	12500.0	118.5	58.2	14163.7
	29.4	97.3	91.2	10975.2	113.8	105	12398.9	127.8	80.0	13606.9	86.8	85.0	11759.8	102.4	99.1	13021.1	121.0	77.1	14710.7
	32.2	99.3	93.0	11498.2	116.1	115	12931.9	130.4	97.3	14156.9	88.6	86.8	12274.2	104.5	101	13554.1	123.5	95.7	15260.7
4,800	23.9	96.5	93.9	10608.5	111.6	70.0	11922.3	123.3	43.9	12934.0	85.9	82.9	11203.2	99.9	64.0	12484.1	116.8	39.6	13891.2
	26.7	98.7	96.0	10928.7	114.1	91.0	12257.5	126.0	64.5	13284.2	87.9	84.8	11523.4	103.9	85.1	12819.3	119.4	61.0	14241.4
	29.4	100.8	98.0	11277.2	116.5	113	12631.9	128.6	84.3	13675.9	89.8	86.7	12018.6	104.4	102	13193.7	122.0	81.3	14797.0
	32.2	102.8	100	11800.2	118.8	117	13164.9	131.2	103	14225.9	91.7	88.5	12541.6	106.5	104	13726.7	124.5	101	15347.0

Notes:

1. All capacities are gross and have not considered indoor fan heat. To obtain net cooling capacity subtract indoor fan heat;
2. TC = Total Capacity (Unit: 1,000Btu/h); SC = Sensible Capacity (Unit: 1,000Btu/h).

BAP111203CM Cooling**capacity: (Continued)**

Gross Cooling Capacity																			
Ambient DB(°C)		48									51.7								
Indoor	WB(°C)	16.1			19.4			22.8			16.1			19.4			22.8		
CFM	DB(°C)	TC	SC	PI	TC	SC	PI	TC	SC	PI	TC	SC	PI	TC	SC	PI	TC	SC	PI
2,900	23.9	77.8	76.1	10815.0	93.2	55.4	12301.3	110.7	33.7	13675.5	72.2	70.6	11720.9	85.8	51.4	13095.1	102.1	32.1	14322.6
	26.7	79.7	78.0	11126.5	95.4	75.3	12481.2	113.3	53.0	14025.7	73.9	72.3	12032.5	87.8	69.5	13231.9	104.4	49.6	14664.2
	29.4	81.6	79.8	11622.5	97.6	94.3	13003.1	115.8	71.9	14573.4	75.6	74.0	12519.1	89.8	86.8	13744.3	106.7	66.8	15202.5
	32.2	83.4	81.6	12136.9	99.7	96.3	13535.3	118.3	90.5	15123.4	77.3	75.6	13042.1	91.7	88.7	14320.5	109.0	83.7	15752.5
4,200	23.9	80.8	79.1	11073.8	96.2	58.4	12560.2	113.7	36.7	13934.3	75.2	73.6	11979.8	88.8	54.4	13354.0	105.1	35.1	14581.5
	26.7	82.7	81.0	11385.4	98.0	78.3	12700.0	116.3	56.0	14284.5	76.9	75.3	12291.4	90.8	72.5	13490.7	107.4	52.6	14923.0
	29.4	84.6	82.8	11881.4	100.6	97.3	13261.9	118.8	74.9	14832.3	78.6	77.0	12778.0	92.8	89.8	14003.2	109.7	69.8	15461.4
	32.2	86.4	84.6	12395.7	102.7	99.3	13794.1	121.3	93.5	15382.3	80.3	78.6	13301.0	94.7	91.7	14579.3	112.0	86.7	16011.4
4,800	23.9	83.7	80.7	11324.0	98.1	62.2	12724.1	114.6	37.4	14012.0	77.8	75.1	12204.1	90.5	57.9	13500.7	105.9	35.7	14650.5
	26.7	85.7	82.6	11644.2	102.1	83.3	13059.3	117.2	58.8	14362.2	79.6	76.8	12524.3	94.8	77.1	13835.9	108.3	55.2	15000.7
	29.4	87.6	84.5	12140.2	102.6	97.7	13433.7	119.8	79.1	14918.6	81.4	78.5	13019.5	95.2	92.7	14210.3	110.6	73.6	15539.1
	32.2	89.5	86.3	12663.2	104.7	103	13966.7	122.3	98.9	15468.6	83.1	80.2	13542.5	96.6	94.6	14743.3	112.9	91.6	16089.1

Notes:

1. All capacities are gross and have not considered indoor fan heat. To obtain net cooling capacity subtract indoor fan heat;
2. TC = Total Capacity (Unit: 1,000Btu/h); SC = Sensible Capacity (Unit: 1,000Btu/h).

BAP111803CM**Cooling capacity:**

Gross Cooling Capacity																			
Ambient DB(°C)		29.4									35								
Indoor	WB(°C)	16.1			19.4			22.8			16.1			19.4			22.8		
CFM	DB(°C)	TC	SC	PI	TC	SC	PI	TC	SC	PI	TC	SC	PI	TC	SC	PI	TC	SC	PI
4,800	23.9	163.5	131	15341.6	183.2	105	15688.1	193.5	72.1	16188.1	153.3	125	15698.0	171.6	99.8	15770.9	188.7	68.9	16570.9
	26.7	165.6	156	15621.7	185.5	128	15968.2	197.3	96.8	16468.2	157.1	150	15948.1	174.2	123	16051.0	191.1	93.1	16851.0
	29.4	173.0	166	16302.1	187.7	150	16598.6	199.9	117	17098.6	164.6	160	16478.5	176.7	146	16343.8	193.6	115	17143.8
	32.2	182.9	176	16525.2	190.4	173	16821.7	202.4	137	17321.7	175.6	170	17001.6	180.4	169	16866.9	196.3	135	17666.9
7,100	23.9	167.9	139	15491.6	188.6	109	15838.1	195.7	73.5	16338.1	155.2	133	15848.0	178.9	104	15920.9	190.1	70.4	16720.9
	26.7	171.6	166	15771.7	190.0	133	16118.2	198.5	99.0	16618.2	162.0	157	16098.1	180.0	129	16201.0	192.2	96.3	17001.0
	29.4	179.1	174	16452.1	191.2	157	16748.6	202.3	120	17248.6	171.8	167	16628.5	182.8	154	16493.8	195.3	118	17293.8
	32.2	188.9	183	16675.2	192.6	180	16971.7	204.7	139	17471.7	181.6	176	17151.6	184.1	179	17016.9	198.7	140	17816.9
7,900	23.9	169.8	146	15791.6	190.9	111	16138.1	198.2	74.8	16638.1	160.7	140	16148.0	185.0	128	16220.9	191.8	71.7	17020.9
	26.7	174.2	167	16071.7	192.5	166	16418.2	201.0	99.9	16918.2	164.5	160	16398.1	187.3	164	16501.0	194.3	97.9	17301.0
	29.4	185.2	178	16752.1	193.7	172	17048.6	203.4	122	17548.6	176.7	171	16928.5	187.8	171	16793.8	196.9	121	17593.8
	32.2	193.8	186	16975.2	195.3	188	17271.7	206.0	144	17771.7	186.5	181	17451.6	188.9	187	17316.9	198.2	144	18116.9

Notes:

1. All capacities are gross and have not considered indoor fan heat. To obtain net cooling capacity subtract indoor fan heat;
2. TC = Total Capacity (Unit: 1,000Btu/h); SC = Sensible Capacity (Unit: 1,000Btu/h).

BAP111803CM Cooling**capacity: (Continued)**

Gross Cooling Capacity																			
Ambient DB(°C)		40.6									46.1								
Indoor	WB(°C)	16.1			19.4			22.8			16.1			19.4			22.8		
CFM	DB(°C)	TC	SC	PI	TC	SC	PI	TC	SC	PI	TC	SC	PI	TC	SC	PI	TC	SC	PI
4,800	23.9	142.6	120	16910.8	163.5	94.5	17314.1	185.6	65.5	17814.1	117.6	102	17211.6	141.0	85.6	18221.2	160.6	49.3	18901.2
	26.7	146.4	141	17140.9	166.1	118	17444.2	187.0	89.2	17944.2	122.6	119	17696.7	143.5	101	18351.3	163.2	72.9	19031.3
	29.4	153.9	148	17371.3	169.8	141	17937.0	188.3	112	18437.0	135.0	131	18182.1	144.8	124	19044.1	165.8	96.3	19724.1
	32.2	166.3	160	18094.4	171.2	166	18660.1	189.6	133	19160.1	147.4	143	19160.2	148.4	147	19794.2	167.1	119	20474.2
7,100	23.9	147.5	128	17060.8	164.7	109	17464.1	188.1	66.9	17964.1	121.3	109	17361.6	142.2	90.5	18371.2	165.6	50.7	19051.2
	26.7	151.3	145	17290.9	168.5	124	17594.2	189.4	92.3	18094.2	128.8	123	17846.7	146.0	107	18501.3	168.1	77.1	19181.3
	29.4	163.7	157	17521.3	173.5	150	18087.0	190.8	116	18587.0	141.2	135	18332.1	148.5	133	19194.1	169.4	101	19874.1
	32.2	171.2	164	18244.4	176.1	171	18810.1	193.3	139	19310.1	153.6	147	19310.2	151.1	151	19944.2	170.8	124	20624.2
7,900	23.9	150.0	135	17360.8	173.3	103	17764.1	190.6	68.2	18264.1	125.0	115	17661.6	150.8	104	18671.2	169.2	53.6	19351.2
	26.7	156.2	152	17590.9	175.9	130	17894.2	191.9	95.3	18394.2	127.7	124	18146.7	153.4	121	18801.3	170.6	79.6	19481.3
	29.4	169.8	165	17821.3	178.5	157	18387.0	193.2	119	18887.0	138.3	134	18632.1	157.1	147	19494.1	171.9	106	20174.1
	32.2	178.8	173	18544.4	181.0	176	19110.1	194.5	143	19610.1	159.7	155	19610.2	161.5	165	20244.2	173.2	131	20924.2

Notes:

1. All capacities are gross and have not considered indoor fan heat. To obtain net cooling capacity subtract indoor fan heat;
2. TC = Total Capacity (Unit: 1,000Btu/h); SC = Sensible Capacity (Unit: 1,000Btu/h).

BAP111803CM Cooling**capacity: (Continued)**

Gross Cooling Capacity																			
Ambient DB(°C)		48									51.7								
Indoor	WB(°C)	16.1			19.4			22.8			16.1			19.4			22.8		
CFM	DB(°C)	TC	SC	PI	TC	SC	PI	TC	SC	PI	TC	SC	PI	TC	SC	PI	TC	SC	PI
4,800	23.9	111.2	95.3	17028.4	137.1	81.7	18410.9	154.2	42.9	18910.9	109.2	93.9	16856.3	131.6	78.4	18755.8	150.6	43.5	19255.8
	26.7	116.2	112	177685	139.5	96.7	18541.0	156.8	66.5	19041.0	114.0	110	17851.4	134.1	92.9	18885.9	153.0	66.2	19385.9
	29.4	128.6	124	18509.0	140.7	120	19408.8	159.4	89.9	19908.8	125.9	122	18846.8	135.4	115	19853.4	155.5	88.7	20353.4
	32.2	141.0	136	19742.1	144.2	143	20188.9	160.7	112	20688.9	136.2	132	20334.9	137.9	138	20653.5	156.8	111	21153.5
7,100	23.9	114.9	102	17178.4	138.3	86.6	18560.9	159.2	44.3	19060.9	112.7	101	17006.3	132.8	83.1	18905.8	155.3	44.8	19405.8
	26.7	122.4	117	17918.5	142.0	103	18700.0	161.7	70.7	19191.0	119.9	116	18001.4	136.5	99.2	19035.9	157.8	70.2	19535.9
	29.4	134.8	129	18659.0	144.4	128	19558.8	163.0	94.2	20058.8	131.8	127	18996.8	138.9	124	20003.4	159.0	92.8	20503.4
	32.2	147.2	141	19992.1	146.9	147	20338.9	164.4	118	20838.9	143.8	139	20484.9	141.4	137	20803.5	160.3	115	21303.5
7,900	23.9	118.6	109	17478.4	146.9	100	18860.9	162.8	47.2	19360.9	116.3	107	17306.3	141.1	87.9	19205.8	158.8	47.7	19705.8
	26.7	121.3	117	18218.5	149.4	117	18991.0	164.2	73.2	19491.0	124.6	120	18301.4	143.6	105	19335.9	160.1	72.6	19835.9
	29.4	131.9	127	18959.0	153.0	139	19858.8	165.5	99.1	20358.8	137.8	133	19296.8	147.2	130	20303.4	161.4	97.5	20803.4
	32.2	153.3	148	20192.1	157.3	161	20638.9	166.8	125	21138.9	149.7	145	20784.9	151.2	146	21103.5	162.7	123	21603.5

Notes:

1. All capacities are gross and have not considered indoor fan heat. To obtain net cooling capacity subtract indoor fan heat;
2. TC = Total Capacity (Unit: 1,000Btu/h); SC = Sensible Capacity (Unit: 1,000Btu/h).

BAP102403CM**Cooling capacity:**

Gross Cooling Capacity																			
Ambient DB(°C)		29.4									35								
Indoor	WB(°C)	16.1			19.4			22.8			16.1			19.4			22.8		
CFM	DB(°C)	TC	SC	PI	TC	SC	PI	TC	SC	PI	TC	SC	PI	TC	SC	PI	TC	SC	PI
6,200	23.9	204.9	152	19161.6	214.2	135	18248.8	265.8	133	24250.6	192.2	159	21139.2	201.0	119	20132.1	249.4	77.2	26753.4
	26.7	209.6	161	19708.2	218.1	153	17386.4	271.6	153	25014.2	196.6	173	21742.2	204.6	151	19180.7	254.8	113	27595.8
	29.4	213.9	165	20480.8	220.5	170	18444.6	277.4	169	26564.9	200.6	179	22594.5	206.9	184	20348.2	260.2	142	29306.5
	32.2	218.2	170	21360.2	226.3	178	19568.8	283.2	186	27786.5	204.7	186	23564.7	212.3	195	21588.4	265.6	171	30654.2
8,800	23.9	218.8	164	20045.2	236.4	149	18801.0	268.7	135	24434.7	205.2	173	22113.9	221.8	132	20741.4	252.1	79.8	26956.5
	26.7	223.4	173	20591.8	255.8	176	19853.0	274.5	156	25198.3	209.6	189	22717.0	240.0	171	21901.9	257.5	118	27798.8
	29.4	228.3	178	21401.1	263.8	198	21205.8	280.3	175	26748.9	214.2	196	23609.8	247.5	209	23394.3	262.9	152	29509.6
	32.2	233.2	185	22317.4	267.9	205	22219.5	286.0	194	27970.6	218.8	206	24620.7	251.3	222	24512.7	268.3	186	30857.3
11,200	23.9	234.5	175	21484.1	253.4	160	20150.7	288.0	145	26188.8	220.0	185	23701.4	237.7	141	22230.3	270.2	85.5	28891.6
	26.7	239.4	186	22070.0	274.2	188	21278.2	294.2	167	27007.1	224.6	202	24347.7	257.2	183	23474.2	276.0	127	29794.4
	29.4	244.7	191	22937.4	282.8	212	22728.1	300.4	187	28669.1	229.6	210	25304.7	265.2	224	25073.7	218.8	162	31627.9
	32.2	250.0	198	23919.5	287.1	220	23814.6	306.6	208	29978.5	234.5	221	26388.1	269.3	237	26727.4	287.6	199	33072.4

Notes:

1. All capacities are gross and have not considered indoor fan heat. To obtain net cooling capacity subtract indoor fan heat;
2. TC = Total Capacity (Unit: 1,000Btu/h); SC = Sensible Capacity (Unit: 1,000Btu/h).

BAP102403CM Cooling**capacity: (Continued)**

Gross Cooling Capacity																			
Ambient DB(°C)		40.6									46.1								
Indoor	WB(°C)	16.1			19.4			22.8			16.1			19.4			22.8		
CFM	DB(°C)	TC	SC	PI	TC	SC	PI	TC	SC	PI	TC	SC	PI	TC	SC	PI	TC	SC	PI
6,200	23.9	175.8	151	21990.9	193.5	108	21968.1	246.3	69.6	28319.1	159.4	143	22842.6	186.1	96.0	23804.0	243.3	62.0	29884.8
	26.7	177.5	160	22691.7	197.3	140	22027.9	251.6	104	29231.3	158.4	146	23641.2	189.9	130	24875.1	248.5	93.7	30866.8
	29.4	180.9	163	23474.5	200.6	175	23134.2	257.1	137	31091.1	161.2	147	24354.6	194.3	166	25920.3	254.0	131	32875.7
	32.2	185.9	169	24440.7	205.5	188	24317.3	262.6	171	32429.5	167.2	153	25316.8	198.8	181	27046.2	259.6	172	34204.7
8,800	23.9	185.0	155	22853.1	208.9	121	22627.8	234.4	72.4	27473.7	164.8	137	23592.3	196.0	110	24514.2	216.7	65.0	27991.0
	26.7	189.0	167	23553.9	220.2	160	23552.9	239.5	111	28366.2	168.4	145	24390.8	200.4	149	25203.8	221.4	104	28933.5
	29.4	193.2	175	24376.8	226.2	195	25032.1	244.7	147	30206.2	172.2	154	25143.7	204.8	181	26670.0	226.4	143	30902.9
	32.2	197.4	182	25363.3	230.3	206	26154.3	249.9	183	31524.9	176.1	157	26105.9	209.3	191	27795.9	231.4	180	32129.5
11,200	23.9	198.3	166	24493.6	223.9	129	24252.1	251.2	77.6	29446.0	176.6	147	25285.8	210.1	118	26273.9	232.3	69.7	30000.3
	26.7	202.5	179	25244.7	236.0	172	25243.7	256.7	119	30402.4	180.5	156	26141.7	214.8	160	27013.1	237.3	112	31010.5
	29.4	207.1	187	26126.7	242.4	209	26829.1	262.2	158	32374.6	184.6	165	26948.6	219.6	194	28584.5	242.6	153	33121.3
	32.2	211.6	195	27184.0	246.8	221	28031.8	267.8	196	33787.9	188.8	169	27979.9	224.3	204	29791.2	248.0	193	34503.5

Notes:

1. All capacities are gross and have not considered indoor fan heat. To obtain net cooling capacity subtract indoor fan heat;
2. TC = Total Capacity (Unit: 1,000Btu/h); SC = Sensible Capacity (Unit: 1,000Btu/h).

BAP102403CM Cooling**capacity: (Continued)**

Gross Cooling Capacity																			
Ambient DB(°C)		48									51.7								
Indoor	WB(°C)	16.1			19.4			22.8			16.1			19.4			22.8		
CFM	DB(°C)	TC	SC	PI	TC	SC	PI	TC	SC	PI	TC	SC	PI	TC	SC	PI	TC	SC	PI
6,200	23.9	158.4	141	23751.6	185.1	95.0	24021.9	242.0	60.9	31163.6	144.7	129	25576.2	169.2	86.8	25165.9	221.4	55.1	33643.6
	26.7	157.3	145	24575.2	188.9	128	25009.7	247.4	92.6	32297.2	143.7	132	26456.6	172.8	117	26108.4	226.4	84.5	34972.6
	29.4	160.2	146	25477.5	193.3	165	26225.0	252.8	130	34314.7	146.3	134	27582.5	176.7	151	27540.7	231.4	119	37076.4
	32.2	166.0	152	26421.5	197.7	180	27339.3	258.3	170	35618.6	151.5	139	28544.7	180.8	165	28686.3	236.3	156	38405.4
8,800	23.9	163.7	136	24467.7	194.8	109	24680.0	215.6	64.0	29382.9	149.6	124	26286.4	178.0	99.1	25797.2	197.1	58.1	31907.6
	26.7	167.3	144	25291.3	199.3	148	25500.0	220.3	103	30477.9	152.9	132	27166.8	182.2	136	26779.1	201.5	94.2	33197.1
	29.4	171.1	152	26212.9	203.6	179	26921.8	225.2	142	32456.6	156.2	139	28292.7	186.1	164	28211.4	206.0	130	35261.4
	32.2	175.0	156	27157.0	208.1	189	28036.1	230.1	179	33721.8	159.8	143	29254.9	190.2	173	29357.1	210.4	164	36551.0
11,200	23.9	175.5	146	26224.2	208.8	116	26451.7	231.0	68.6	31492.2	160.3	133	28173.4	190.8	106	27649.0	211.3	62.3	34198.1
	26.7	179.4	154	27106.9	213.6	159	27330.5	236.1	111	32665.7	163.9	141	29117.0	195.3	145	28701.5	216.0	101	35580.2
	29.4	183.4	163	28094.7	218.2	192	28854.4	241.4	152	34786.5	167.4	149	30323.7	199.4	176	30236.6	220.7	139	37792.7
	32.2	187.5	167	29106.5	223.0	203	30048.7	246.6	192	36142.5	171.3	153	31355.0	203.9	186	31464.5	225.5	176	39174.8

Notes:

1. All capacities are gross and have not considered indoor fan heat. To obtain net cooling capacity subtract indoor fan heat;
2. TC = Total Capacity (Unit: 1,000Btu/h); SC = Sensible Capacity (Unit: 1,000Btu/h).

BAP103003CM**Cooling capacity:**

Gross Cooling Capacity																			
Ambient DB(°C)		29.4									35								
Indoor	WB(°C)	16.1			19.4			22.8			16.1			19.4			22.8		
CFM	DB(°C)	TC	SC	PI	TC	SC	PI	TC	SC	PI	TC	SC	PI	TC	SC	PI	TC	SC	PI
8,500	23.9	266.7	231	25132.7	297.9	172	25632.7	309.2	109	26209.0	246.4	221	24900.5	273.7	166	27110.1	306.4	105	28999.0
	26.7	272.2	236	25332.6	304.1	219	25832.6	315.5	162	26413.3	251.5	226	25082.6	279.3	214	27310.0	312.7	153	29208.0
	29.4	277.9	241	25404.8	310.4	265	25904.8	322.1	198	26486.8	256.8	231	25149.6	285.1	258	27382.2	319.2	193	28282.9
	32.2	283.6	246	25532.5	316.8	301	26032.5	328.7	238	26617.1	262.1	235	25266.6	291.0	298	27509.9	325.8	234	29416.2
9,300	23.9	273.9	247	25422.7	300.9	178	25922.7	310.2	110	26519.0	254.2	237	25150.5	278.2	175	27400.1	307.2	107	29309.0
	26.7	279.6	253	25622.6	307.1	230	26122.6	316.6	164	26723.3	259.4	242	25332.6	289.4	226	27600.0	313.5	156	29518.0
	29.4	285.4	258	25694.8	313.5	284	26194.8	323.1	205	26796.8	264.8	247	25399.6	295.4	274	27672.2	320.0	200	29592.9
	32.2	291.3	263	25822.5	320.0	311	26322.5	329.8	256	26927.1	270.4	253	25516.6	301.5	300	27799.9	326.6	252	29726.2
10,000	23.9	280.7	262	25712.7	303.7	187	26212.7	310.9	112	26829.0	261.7	253	25400.5	293.9	183	27700.1	308.9	108	29619.0
	26.7	286.5	268	25912.6	309.9	263	26412.6	317.3	170	27033.3	267.1	259	25582.6	300.0	258	27900.0	315.3	158	29828.0
	29.4	292.4	273	25984.8	316.3	281	26484.8	323.9	220	27106.8	272.6	264	25649.6	306.2	270	27972.2	321.8	209	29902.9
	32.2	298.5	279	26112.5	322.9	315	26612.5	330.6	260	27237.1	278.3	269	25766.6	312.5	310	28099.9	328.5	251	30036.2
11,000	23.9	285.9	276	26002.7	305.2	213	26502.7	313.9	114	27139.0	267.2	261	25650.5	297.2	190	28166.5	309.7	110	29929.0
	26.7	291.8	282	26202.6	311.5	259	26702.6	320.4	178	27343.3	272.7	266	25832.6	303.3	250	28255.4	316.1	171	30138.0
	29.4	297.9	288	26274.8	317.9	288	26774.8	327.0	225	27416.8	278.4	272	25899.6	309.6	279	28327.6	322.6	209	30212.9
	32.2	304.0	294	26402.5	324.5	317	26902.5	333.8	268	27547.1	284.2	277	26016.6	316.0	284	28399.7	329.3	256	30346.2

Notes:

1. All capacities are gross and have not considered indoor fan heat. To obtain net cooling capacity subtract indoor fan heat;
2. TC = Total Capacity (Unit: 1,000Btu/h); SC = Sensible Capacity (Unit: 1,000Btu/h).

BAP103003CM Cooling**capacity: (Continued)**

Gross Cooling Capacity																			
Ambient DB(°C)		40.6									46.1								
Indoor	WB(°C)	16.1			19.4			22.8			16.1			19.4			22.8		
CFM	DB(°C)	TC	SC	PI	TC	SC	PI	TC	SC	PI	TC	SC	PI	TC	SC	PI	TC	SC	PI
8,500	23.9	225.7	211	29437.9	265.2	158	31897.5	298.9	100	35277.1	198.2	194	33975.3	235.7	141	36684.9	280.4	87.9	41555.2
	26.7	230.4	215	29620.0	270.7	205	32097.4	305.1	147	35493.6	202.5	198	34157.4	240.7	190	36884.8	286.4	136	41779.1
	29.4	235.2	220	29687.0	276.3	254	32169.6	311.4	187	35569.3	206.9	202	34224.4	245.9	238	36957.0	292.4	175	41855.6
	32.2	240.1	225	29804.0	282.0	278	32297.3	317.8	223	35706.2	211.4	207	34341.4	251.2	243	37084.7	298.6	204	41996.3
9,300	23.9	233.9	227	29687.9	271.7	168	32187.5	300.9	102	35587.1	205.4	198	34225.3	240.4	151	36974.9	282.7	89.7	41865.2
	26.7	238.8	232	29870.0	277.3	220	32387.4	307.1	153	35803.6	209.9	202	34407.4	245.6	203	37174.8	288.7	143	42089.1
	29.4	243.8	237	29937.0	283.1	269	32459.6	313.5	193	35879.3	214.4	207	34474.4	250.8	246	37247.0	294.8	178	42165.6
	32.2	248.9	242	30054.0	288.9	284	32587.3	320.0	249	36016.2	219.0	211	34591.4	256.2	251	37374.7	301.0	235	42306.3
10,000	23.9	238.9	223	29937.9	275.9	175	32487.5	302.4	104	35897.1	213.2	208	34475.3	246.4	159	37274.9	284.4	91.7	42175.2
	26.7	243.9	228	30120.0	281.6	235	32900.4	308.7	153	36113.6	217.8	212	34657.4	251.7	218	37900.8	290.4	142	42399.1
	29.4	249.0	232	30187.0	287.5	265	32986.6	315.0	199	36189.3	222.5	217	34724.4	257.1	251	38001.0	296.6	185	42475.6
	32.2	254.2	237	30304.0	293.4	281	33087.3	321.6	246	36326.2	227.3	222	34841.4	262.6	259	38074.7	302.9	231	42616.3
11,000	23.9	248.2	242	30187.9	280.2	184	33153.9	303.9	105	36207.1	221.9	218	34725.3	252.9	168	38141.3	285.2	93.2	42485.2
	26.7	253.3	248	30370.0	286.0	246	33242.8	310.2	164	36423.6	226.7	223	34907.4	258.3	231	38230.2	291.2	150	42709.1
	29.4	258.6	253	30437.0	291.9	269	33314.9	316.6	200	36499.3	231.6	228	34974.4	263.8	258	38302.3	297.4	185	42785.6
	32.2	264.0	258	30554.0	297.9	280	33387.1	323.1	245	36636.2	236.6	233	35091.4	269.5	264	38374.5	303.7	232	42926.3

Notes:

1. All capacities are gross and have not considered indoor fan heat. To obtain net cooling capacity subtract indoor fan heat;
2. TC = Total Capacity (Unit: 1,000Btu/h); SC = Sensible Capacity (Unit: 1,000Btu/h).

BAP103003CM Cooling**capacity: (Continued)**

Gross Cooling Capacity																			
Ambient DB(°C)		48									51.7								
Indoor	WB(°C)	16.1			19.4			22.8			16.1			19.4			22.8		
CFM	DB(°C)	TC	SC	PI	TC	SC	PI	TC	SC	PI	TC	SC	PI	TC	SC	PI	TC	SC	PI
8,500	23.9	195.5	191	34571.5	233.0	139	37281.1	277.7	85.2	42298.7	175.5	172	35962.7	209.6	124	38672.3	250.3	75.3	43958.3
	26.7	199.8	195	34753.6	238.0	188	37481.0	283.7	133	42518.0	179.5	176	36144.8	214.2	169	38872.2	255.7	119	44179.8
	29.4	204.2	200	34820.6	243.2	235	37553.2	289.7	172	42596.8	183.5	179	36211.8	218.9	211	38944.4	261.3	154	44253.7
	32.2	208.7	204	34937.6	248.5	240	37680.9	295.9	202	42736.4	187.5	183	36328.8	223.7	216	39072.1	266.9	181	44392.1
9,300	23.9	202.7	195	34821.5	237.7	148	37571.1	280.0	87.0	42608.7	182.1	175	36212.7	213.9	132	38962.3	252.4	76.9	44268.3
	26.7	207.2	200	35003.6	242.9	200	37771.0	286.0	140	42828.0	186.2	179	36394.8	218.6	180	39162.2	257.8	125	44489.8
	29.4	211.7	204	35070.6	248.1	243	37843.2	292.1	175	42906.8	190.3	183	36461.8	223.4	219	39234.4	263.4	157	44563.7
	32.2	216.3	208	35187.6	253.5	248	37970.9	298.3	233	43046.4	194.5	187	36578.8	228.3	224	39362.1	269.1	209	44702.1
10,000	23.9	210.5	205	35071.5	243.7	157	37871.1	281.7	89.0	42918.7	189.2	184	36462.7	219.4	140	39262.3	253.9	78.7	44578.3
	26.7	215.1	210	35253.6	249.0	215	38071.0	287.7	139	43138.0	193.4	189	36644.8	224.2	193	39462.2	259.4	124	44799.8
	29.4	219.8	214	35320.6	254.4	248	38143.2	293.9	183	43216.8	197.6	193	36711.8	229.1	223	39534.4	265.0	164	44873.7
	32.2	224.6	219	35437.6	259.9	256	38270.9	300.2	228	43356.4	202.0	197	36828.8	234.1	231	39662.1	270.7	205	45012.1
11,000	23.9	219.2	216	35321.5	250.2	165	38337.5	282.5	90.5	43228.7	197.1	194	36712.7	225.3	148	39728.7	254.6	80.1	44888.3
	26.7	224.0	220	35503.6	255.6	229	38426.4	288.5	148	43448.0	201.5	198	36894.8	230.2	206	39817.5	260.1	132	45109.8
	29.4	228.9	225	35570.6	261.1	256	38498.6	294.7	183	43526.8	205.9	202	36961.8	235.2	230	39889.7	265.7	164	45183.7
	32.2	233.9	230	35687.6	266.8	261	38570.7	301.0	229	43666.4	210.5	207	37078.8	240.4	235	39961.9	271.5	206	45322.1

Notes:

1. All capacities are gross and have not considered indoor fan heat. To obtain net cooling capacity subtract indoor fan heat;
2. TC = Total Capacity (Unit: 1,000Btu/h); SC = Sensible Capacity (Unit: 1,000Btu/h)

BAP103603CM**Cooling capacity:**

Gross Cooling Capacity																			
Ambient DB(°C)		29.4									35								
Indoor	WB(°C)	16.1			19.4			22.8			16.1			19.4			22.8		
CFM	DB(°C)	TC	SC	PI	TC	SC	PI	TC	SC	PI	TC	SC	PI	TC	SC	PI	TC	SC	PI
9400	23.9	305.9	240.2	32619.0	319.8	214.0	31065.1	396.9	209.7	41282.1	287.0	251.3	35985.4	300.0	188.6	34271.1	372.3	122.2	45542.6
	26.7	312.8	254.4	33549.5	325.6	241.4	29597.0	405.5	241.4	42581.9	293.5	274.5	37012.0	305.5	239.0	32651.5	380.4	179.2	46976.6
	29.4	319.3	261.3	34864.6	329.2	268.9	31398.5	414.1	267.7	45221.6	299.5	283.4	38462.8	308.8	291.2	34638.9	388.5	225.2	49888.7
	32.2	325.8	269.2	36361.7	337.8	281.0	33312.2	422.7	293.7	47301.3	305.6	294.4	40114.4	316.9	309.1	36750.2	396.6	270.8	52183.0
10200	23.9	316.3	249.6	33371.0	346.5	228.9	31535.1	399.0	211.5	41438.8	296.7	262.3	36815.1	325.0	198.3	34789.7	374.3	124.2	45715.5
	26.7	323.2	264.4	34301.5	353.8	259.7	31696.5	407.6	244.3	42738.6	303.2	286.7	37841.6	331.9	254.5	34967.7	382.4	183.3	47149.4
	29.4	330.1	271.8	35648.0	361.5	290.9	33748.7	416.3	272.1	45378.3	309.6	296.5	39327.0	339.2	311.1	37231.7	390.5	232.5	50061.6
	32.2	337.0	281.3	37176.4	368.9	303.0	35568.4	424.9	300.2	47458.0	316.1	310.3	41013.2	346.0	329.9	39239.2	398.6	282.2	52355.9
11000	23.9	326.6	258.9	34123.1	352.9	236.2	32005.2	401.2	213.3	41595.5	306.4	273.3	37644.8	331.1	208.1	35308.2	376.3	126.2	45888.3
	26.7	333.5	274.3	35053.6	381.9	278.0	33796.0	409.8	247.1	42895.3	312.9	298.9	38671.3	360.0	270.0	37283.9	384.4	187.3	47322.3
	29.4	340.9	282.4	36431.4	393.9	313.0	36098.8	418.4	276.6	45535.0	319.8	309.5	40191.3	369.5	331.1	39824.4	392.5	239.9	50234.4
	32.2	348.2	293.5	37991.1	399.9	325.0	37824.5	427.0	306.7	47614.7	326.6	326.2	41912.0	375.1	350.6	41728.2	400.6	293.6	52528.7
11800	23.9	350.1	277.5	36572.6	378.3	253.1	34302.7	430.0	228.7	44581.4	328.4	292.9	40347.1	354.8	223.0	37842.9	403.4	135.3	49182.4
	26.7	357.5	294.0	37570.0	409.4	298.0	36222.1	439.2	264.8	45974.5	335.3	320.4	41447.4	384.0	289.4	39960.3	412.0	200.8	50719.3
	29.4	365.3	302.6	39046.6	422.1	335.5	38690.2	448.5	296.5	48803.7	342.7	331.7	43076.4	396.0	354.9	42683.2	420.7	257.1	53840.5
	32.2	373.2	314.5	40718.4	428.6	348.4	40539.8	457.7	328.7	51032.7	350.1	349.6	44920.7	402.1	375.8	44723.7	429.4	314.7	56299.5

Notes:

1. All capacities are gross and have not considered indoor fan heat. To obtain net cooling capacity subtract indoor fan heat;
2. TC = Total Capacity (Unit: 1,000Btu/h); SC = Sensible Capacity (Unit: 1,000Btu/h)

BAP103603CM Cooling**capacity: (Continued)**

Gross Cooling Capacity																			
Ambient DB(°C)		40.6									46.1								
Indoor	WB(°C)	16.1			19.4			22.8			16.1			19.4			22.8		
CFM	DB(°C)	TC	SC	PI	TC	SC	PI	TC	SC	PI	TC	SC	PI	TC	SC	PI	TC	SC	PI
9400	23.9	258.7	215.1	38528.8	284.6	154.5	38535.9	362.1	100.0	49638.5	230.5	179.0	41072.1	269.1	120.4	42800.7	351.8	77.8	53734.4
	26.7	261.3	228.8	39760.0	290.1	200.8	38689.1	369.9	148.4	51238.3	229.1	183.1	42508.0	274.7	162.5	44726.7	359.4	117.5	55500.0
	29.4	266.3	234.2	41126.7	295.0	249.8	40622.4	377.9	195.0	54500.4	233.1	184.9	43790.7	281.1	208.3	46605.9	367.4	164.7	59112.1
	32.2	273.7	243.0	42817.6	302.2	268.0	42690.3	386.0	243.1	56842.4	241.8	191.5	45520.8	287.5	226.9	48630.4	375.4	215.4	61501.8
10200	23.9	263.7	220.4	39280.6	300.7	163.7	39114.4	353.5	101.9	48873.6	230.7	178.5	41746.1	276.3	129.1	43439.2	332.7	79.7	52031.7
	26.7	269.6	234.8	40511.8	307.1	214.7	39995.0	361.1	153.8	50455.6	235.9	183.0	43181.9	282.3	175.0	45022.2	339.8	124.3	53761.9
	29.4	275.4	242.6	41913.6	313.9	264.4	42255.8	369.0	202.3	53700.1	241.1	188.8	44500.1	288.7	217.6	47279.9	347.4	172.1	57338.6
	32.2	281.4	253.1	43621.7	320.6	281.4	44271.7	376.8	251.5	56024.3	246.7	195.8	46230.2	295.1	233.0	49304.3	355.0	220.8	59692.7
11000	23.9	272.4	222.7	40032.4	307.3	172.9	39693.0	344.9	103.9	48108.7	238.3	172.1	42420.0	283.5	137.7	44077.7	313.5	81.6	50329.1
	26.7	278.2	240.5	41263.6	324.1	228.7	41300.8	352.3	159.2	49673.0	243.5	182.0	43855.9	289.9	187.3	45317.7	320.3	131.0	52023.8
	29.4	284.4	251.1	42700.4	332.9	279.0	43889.1	360.0	209.7	52899.7	249.1	192.6	45209.5	296.3	226.9	47953.9	327.5	179.5	55565.0
	32.2	290.7	261.8	44425.8	338.9	294.9	45853.2	367.6	260.0	55206.2	254.7	197.4	46939.7	302.7	239.1	49978.3	334.7	226.3	57883.7
11800	23.9	291.9	238.7	42906.1	329.3	185.3	42542.3	369.7	111.4	51562.2	255.4	184.4	45465.2	303.8	147.6	47241.8	336.0	87.5	53942.0
	26.7	298.2	257.7	44225.7	347.4	245.2	44265.6	377.6	170.6	53238.8	261.0	195.1	47004.1	310.7	200.9	48570.9	343.3	140.4	55758.3
	29.4	304.9	269.1	45765.7	356.8	299.0	47039.7	385.8	224.7	56697.1	267.0	206.4	48454.9	317.6	243.2	51396.3	351.0	192.3	59553.7
	32.2	311.5	280.6	47615.0	363.2	316.0	49144.8	394.0	278.6	59169.2	273.0	211.6	50309.3	324.4	256.3	53566.0	358.7	242.5	62038.9

Notes:

1. All capacities are gross and have not considered indoor fan heat. To obtain net cooling capacity subtract indoor fan heat;
2. TC = Total Capacity (Unit: 1,000Btu/h); SC = Sensible Capacity (Unit: 1,000Btu/h).

BAP103603CM Cooling**capacity: (Continued)**

Gross Cooling Capacity																			
Ambient DB(°C)		48									51.7								
Indoor	WB(°C)	16.1			19.4			22.8			16.1			19.4			22.8		
CFM	DB(°C)	TC	SC	PI	TC	SC	PI	TC	SC	PI	TC	SC	PI	TC	SC	PI	TC	SC	PI
9400	23.9	219.9	170.6	43529.6	256.9	114.6	44025.1	336.1	73.4	57113.6	209.2	162.3	45987.2	244.7	108.9	45249.4	320.3	69.1	60492.8
	26.7	218.4	174.6	45039.1	262.3	154.8	45835.4	343.4	111.8	59191.2	207.8	166.1	47570.2	249.9	147.1	46944.1	327.5	106.0	62882.4
	29.4	222.4	176.2	46692.6	268.3	198.9	48062.7	351.0	156.7	62888.6	211.6	167.6	49594.6	255.5	189.4	49519.5	334.7	148.7	66665.1
	32.2	230.5	182.8	48422.8	274.5	216.7	50104.9	358.6	205.4	65278.2	219.2	174.0	51324.7	261.5	206.4	51579.4	341.8	195.5	69054.7
10200	23.9	220.0	170.2	44185.9	263.7	122.8	44628.1	317.7	75.3	55481.9	209.2	161.8	46625.7	251.1	116.6	45817.0	302.7	71.0	58932.1
	26.7	224.9	174.5	45695.3	269.5	166.8	46284.7	324.7	118.2	57524.0	214.0	166.0	48208.7	256.7	158.6	47547.1	309.5	112.1	61286.2
	29.4	229.9	179.9	47366.6	275.5	207.7	48701.2	331.9	163.9	61186.0	218.8	171.1	50233.1	262.3	197.7	50122.5	316.3	155.7	65033.4
	32.2	235.3	186.7	49096.7	281.7	222.4	50743.3	339.0	210.7	63540.1	223.9	177.5	51963.2	268.3	211.9	52182.4	323.1	200.6	67387.6
11000	23.9	227.3	163.9	44842.1	270.5	131.0	45231.1	299.3	77.3	53850.2	216.4	155.7	47264.2	257.5	124.3	46384.5	285.1	72.9	57371.3
	26.7	232.3	173.5	46351.5	276.7	178.8	46733.9	305.9	124.6	55856.9	221.2	165.0	48847.2	263.5	170.2	48150.1	291.5	118.2	59690.0
	29.4	237.5	183.6	48040.6	282.7	216.5	49339.7	312.7	171.1	59483.3	225.9	174.6	50871.6	269.1	206.1	50725.5	297.9	162.8	63401.7
	32.2	242.9	188.3	49770.7	288.9	228.2	51381.8	319.5	216.0	61802.0	231.1	179.1	52601.7	275.1	217.3	52785.4	304.3	205.8	65720.4
11800	23.9	243.7	175.7	48061.1	289.9	140.4	48478.0	320.8	82.8	57715.9	231.9	166.9	50657.1	276.0	133.2	49714.3	305.6	78.2	61489.8
	26.7	249.0	186.0	49678.9	296.6	191.6	50088.8	327.8	133.5	59866.6	237.0	176.9	52353.7	282.4	182.4	51606.6	312.4	126.7	63974.9
	29.4	254.6	196.8	51489.2	303.0	232.1	52881.6	335.1	183.4	63753.4	242.2	187.2	54523.4	288.4	220.9	54366.9	319.3	174.5	67953.1
	32.2	260.4	201.8	53343.5	309.6	244.6	55070.3	342.4	231.5	66238.5	247.7	192.0	56377.8	294.9	232.9	56574.6	326.1	220.5	70438.2

Notes:

1. All capacities are gross and have not considered indoor fan heat. To obtain net cooling capacity subtract indoor fan heat;
2. TC = Total Capacity (Unit: 1,000Btu/h); SC = Sensible Capacity (Unit: 1,000Btu/h).

6. Electrical data

Model	Power Supply			Compressor				Eva.Fan Motor			Con. Fan Motor		
	MCA	TOCA	MFA	STC	RNC	IPT	Qty	RNC	IPT	Qty	RNC (Each)	IPT (Each)	Qty.
BAP110903CM	42.2	54.2	67.0	191	24.8	8.23	1	5.04	1.09	1	5.45	1.65	1
BAP111203CM	52.3	66.7	83.2	240	30.9	11.0	1	7.30	2.07	1	5.16	1.58	1
BAP111803CM	78.1	110.3	125.3	240+155	30.9+16.3	5.5+11.0	2	11.40	3.37	1	5.28	1.64	1
BAP102403CM	111.3	145.0	173.1	240×2	30.9×2	11.0×2	2	15.10	4.11	1	6.99×2	1.87×2	2
BAP103003CM	139.3	200.6	215.3	245×2	38.0×2	12.4×2	2	19.68	5.93	1	8.80×2	2.60×2	2
BAP103603CM	155.2	260.5	274.5	315×2	49.3×2	13.2×2	2	26.7	7.5	1	8.80×2	2.60×2	2

Notes:

MCA: Min. Current Amps. (A)

TOCA: Total Over-current Amps. (A)

MFA: Max. Fuse Amps (A)

STC: Starting Current (A);

RNC: Running Current (A);

IPT: Input Power (kW);

Qty: Quantity

Voltage imbalance between each phases should be <2%.

7. Fan performance data

BAP110903CM

Static Pressure	Item	High speed	Medium speed	Low speed
0Pa	Fan speed (rpm)	1,035	936	844
	Power input (W)	1,359	1,242	1,032
	Air flow (CFM)	3,161	2,685	2,104
50Pa	Fan speed (rpm)	1,081	991	909
	Power input (W)	1,258	1,139	954
	Air flow (CFM)	2,935	2,601	2,076
80Pa	Fan speed (rpm)	1,110	1,026	954
	Power input (W)	1,202	1,082	919
	Air flow (CFM)	2,706	2,520	2,065
100Pa	Fan speed (rpm)	1,127	1,051	984
	Power input (W)	1,159	1,042	896
	Air flow (CFM)	2,608	2,452	2,046
150Pa	Fan speed (rpm)	1,173	1,110	1,053
	Power input (W)	1,050	944	818
	Air flow (CFM)	2,422	2,249	1,938
200Pa	Fan speed (rpm)	1,217	1,165	/
	Power input (W)	910	819	/
	Air flow (CFM)	2,284	1,930	/
250Pa	Fan speed (rpm)	1,263	1,220	/
	Power input (W)	769	691	/
	Air flow (CFM)	2,121	1,815	/

Notes: The unit only has one speed of indoor side fan, and high speed is the factory default. If the unit operating with other fan speed, the wiring between fan motor and main PCB board should be adjusted.

Blower drive options						
Model	Motor			Blower		
	HP	rpm	Pulleys pitch Dia. (inch)	Fan speed range (rpm)		Pulleys pitch Dia. (inch)
				Min.	Max.	
BAP111203CM	2.9	1,700	4.53~5.25	931	1,016	8.82
BAP111803CM	5.3	1,730	4.53~5.25	941	1,112	8.82
BAP102403CM	7.3	1,730	4.53~5.25	1,081	1,284	7.09
BAP103003CM	10	1,730	4.53~5.25	925	1,088	7.87
BAP103603CM	10	1,730	4.29~5.24	1060	1293	7.09

Example for selection process:

The following data are the rated design points for BAP111203CM rooftop packages:

Air flow = 4183CFM; External static pressure = 0.3in.w.g (≈ 75 Pa); Fan speed = 980rpm;

Power input = 1915W; The No. of turns = 1.0N.

To increase the ESP (External Static Pressure) to 0.4in.w.g (≈ 100 Pa), but maintain the airflow rate at 4183CFM, please follow the steps below:

Step 1: Selection of new desired point.

From the table data, select the point that can meet both of the requirements.

ESP = 0.4in.w.g (≈ 100 Pa);

Air flow rate (Near or equal to) ≈ 4183 CFM.

Step 2: Read fan speed, power input:

Air flow = 4129CFM;

Fan speed = 986rpm;

Power input = 2000W.

Step 3: Read number of turns for variable pitch pulley.

Similarly, use this RPM value to read the No. of turns (N) by referring to the table of 'Motor Variable Pitch Pulley Data'. The variable pitch pulley for motor shall be adjusted to this 'N' in order to achieve the desired point (ESP=0.4in.w.g. ≈ 100 Pa, and airflow rate=4183CFM. For instance, from the table, No. of turns (N) = 0.5 in order to get 4129CFM. First, adjust the

motor pulley to 0 turns. Then, make 0.5 turns on the pulley. Cross check the dimension 'X', and it stands for regulation space of motor pulley. In this case, $X = 1.5\text{mm}$.

BAP111203CM

ESP (Pa)	N	0	0.25	0.5	0.75	1	1.25	1.5	1.75	2
	X	0.5	1	1.5	2	2.5	3	3.5	4	4.5
0	Fan speed (rpm)	/	/	/	/	972	967	962	946	931
	Power input (W)	/	/	/	/	2,759	2,390	2,020	1,945	1,870
	Air flow (CFM)	/	/	/	/	4,836	4,704	4,571	4,500	4,428
25	Fan speed (rpm)	/	/	/	/	974	969	964	969	933
	Power input (W)	/	/	/	/	2,090	2,010	1,930	1,855	1,780
	Air flow (CFM)	/	/	/	/	4,487	4,442	4,398	4,323	4,248
50	Fan speed (rpm)	/	/	980	978	977	972	967	972	935
	Power input (W)	/	/	2,718	2,354	1,990	1,915	1,840	1,765	1,690
	Air flow (CFM)	/	/	4,631	4,476	4,320	4,272	4,224	4,146	4,067
75	Fan speed (rpm)	/	/	983	981	980	975	970	975	937
	Power input (W)	/	/	2,359	1,998	1,915	1,843	1,770	1,695	1,620
	Air flow (CFM)	/	/	4,380	4,214	4,183	4,127	4,072	3,997	3,922
100	Fan speed (rpm)	989	987	986	984	982	977	972	977	938
	Power input (W)	2,774	2,387	2,000	1,900	1,800	1,730	1,660	1,590	1,520
	Air flow (CFM)	4,480	4,305	4,129	4,052	3,974	3,905	3,835	3,771	3,707
125	Fan speed (rpm)	999	989	989	987	985	980	975	980	940
	Power input (W)	2,412	1,980	1,960	1,833	1,705	1,635	1,565	1,495	1,425
	Air flow (CFM)	4,155	4,065	3,953	3,927	3,789	3,719	3,648	3,579	3,509
150	Fan speed (rpm)	1,009	991	991	990	988	983	978	983	942
	Power input (W)	2,050	1,880	1,865	1,738	1,610	1,540	1,470	1,400	1,330
	Air flow (CFM)	3,891	3,830	3,778	3,748	3,605	3,532	3,460	3,386	3,312
175	Fan speed (rpm)	1,011	993	994	992	990	/	/	/	/
	Power input (W)	1,945	1,775	1,770	1,638	1,505	/	/	/	/
	Air flow (CFM)	3,718	3,656	3,586	3,549	3,381	/	/	/	/
200	Fan speed (rpm)	1,012	995	997	995	993	/	/	/	/
	Power input (W)	1,840	1,670	1,660	1,530	1,400	/	/	/	/
	Air flow (CFM)	3,517	3,481	3,394	3,337	3,157	/	/	/	/
225	Fan speed (rpm)	1,014	996	1,000	/	/	/	/	/	/
	Power input (W)	1,725	1,545	1,550	/	/	/	/	/	/
	Air flow (CFM)	3,316	3,292	3,148	/	/	/	/	/	/
250	Fan speed (rpm)	1,016	998	1,002	/	/	/	/	/	/
	Power input (W)	1,610	1,420	1,425	/	/	/	/	/	/
	Air flow (CFM)	3,104	3,048	2,902	/	/	/	/	/	/

Notes:

1. Legend: X – Regulation space of motor pulley (mm);
2. N: Number of turns;
3. ESP: External static pressure (Pa).

BAP111803CM

ESP (Pa)	N	0	0.25	0.5	0.75	1	1.25	1.5	1.75	2
	X	0.5	1	1.5	2	2.5	3	3.5	4	4.5
0	Fan speed (rpm)	/	/	1,008	999	989	979	969	959	949
	Power input (W)	/	/	5,146	4,968	4,790	4,575	4,360	4,155	3,950
	Air flow (CFM)	/	/	7,928	7,867	7,805	7,686	7,566	7,452	7,338
25	Fan speed (rpm)	/	/	1,014	1,003	991	983	974	964	953
	Power input (W)	/	/	5,043	4,824	4,605	4,418	4,230	4,025	3,820
	Air flow (CFM)	/	/	7,791	7,691	7,592	7,473	7,353	7,239	7,124
50	Fan speed (rpm)	/	1,022	1,020	1,006	993	986	979	968	957
	Power input (W)	/	4,954	4,940	4,680	4,420	4,260	4,100	3,895	3,690
	Air flow (CFM)	/	7,700	7,653	7,516	7,379	7,259	7,139	7,025	6,910
75	Fan speed (rpm)	1,031	1,026	1,022	1,009	995	989	982	971	960
	Power input (W)	4,870	4,810	4,750	4,495	4,240	4,088	3,935	3,745	3,555
	Air flow (CFM)	7,622	7,529	7,436	7,313	7,191	7,048	6,904	6,790	6,675
100	Fan speed (rpm)	1,035	1,028	1,021	1,008	995	988	982	971	959
	Power input (W)	4,770	4,665	4,560	4,310	4,060	3,915	3,770	3,595	3,420
	Air flow (CFM)	7,475	7,347	7,219	7,111	7,002	6,836	6,669	6,554	6,439
125	Fan speed (rpm)	1,050	1,044	1,039	1,026	1,013	1,006	998	990	981
	Power input (W)	4,510	4,440	4,370	4,123	3,875	3,760	3,645	3,465	3,285
	Air flow (CFM)	7,113	7,046	6,979	6,844	6,708	6,571	6,434	6,297	6,159
150	Fan speed (rpm)	1,060	1,056	1,052	1,039	1,026	1,021	1,015	1,005	995
	Power input (W)	4,350	4,290	4,230	4,005	3,780	3,695	3,610	3,410	3,210
	Air flow (CFM)	6,899	6,863	6,828	6,679	6,531	6,411	6,291	6,134	5,976
175	Fan speed (rpm)	1,070	1,065	1,060	1,049	1,039	1,032	1,025	1,017	1,008
	Power input (W)	4,170	4,078	3,985	3,808	3,630	3,518	3,405	3,248	3,090
	Air flow (CFM)	6,658	6,609	6,559	6,419	6,279	6,161	6,043	5,859	5,675

Continued: BAP111803CM

ESP (Pa)	N	0	0.25	0.5	0.75	1	1.25	1.5	1.75	2
	X	0.5	1	1.5	2	2.5	3	3.5	4	4.5
200	Fan speed (rpm)	1,082	1,074	1,067	1,059	1,051	1,044	1,036	1,028	1,020
	Power input (W)	3,990	3,865	3,740	3,610	3,480	3,340	3,200	3,085	2,970
	Air flow (CFM)	6,418	6,354	6,291	6,159	6,027	5,911	5,794	5,584	5,375
225	Fan speed (rpm)	1,089	1,082	1,074	1,065	1,056	1,048	1,040	1,033	1,027
	Power input (W)	3,855	3,728	3,600	3,455	3,310	3,180	3,050	2,928	2,805
	Air flow (CFM)	6,194	6,108	6,022	5,879	5,736	5,600	5,464	5,269	5,075
250	Fan speed (rpm)	1,097	1,089	1,082	1,072	1,061	1,053	1,044	1,038	1,033
	Power input (W)	3,720	3,590	3,460	3,300	3,140	3,020	2,900	2,770	2,640
	Air flow (CFM)	5,971	5,862	5,754	5,600	5,446	5,289	5,133	4,954	4,776
275	Fan speed (rpm)	1,104	1,095	1,086	1,076	1,065	/	/	/	/
	Power input (W)	3,595	3,438	3,280	3,115	2,950	/	/	/	/
	Air flow (CFM)	5,705	5,585	5,464	5,308	5,151	/	/	/	/
300	Fan speed (rpm)	1,112	/	/	/	/	/	/	/	/
	Power input (W)	3,470	/	/	/	/	/	/	/	/
	Air flow (CFM)	5,439	/	/	/	/	/	/	/	/
325	Fan speed (rpm)	1,112	/	/	/	/	/	/	/	/
	Power input (W)	3,470	/	/	/	/	/	/	/	/
	Air flow (CFM)	5,439	/	/	/	/	/	/	/	/

Notes:

1. Legend: X – Regulation space of motor pulley (mm);
2. N: Number of turns;
3. ESP: External static pressure (Pa).

BAP102403CM

ESP (Pa)	N	0	0.25	0.5	0.75	1	1.25	1.5	1.75	2	2.25	2.5	2.75	3
	X	0.5	1	1.5	2	2.5	3	3.5	4	4.5	5	5.5	6	6.5
0	Fan speed (rpm)	/	/	/	/	1,194	1,181	1,168	1,154	1,140	1,127	1,113	1,098	1,081
	Power input (W)	/	/	/	/	6,951	6,710	6,468	6,266	6,063	5,831	5,599	5,422	5,188
	Air flow (CFM)	/	/	/	/	11,210	11,104	10,997	10,872	10,746	10,623	10,499	10,306	10,078
25	Fan speed (rpm)	/	/	/	/	1,195	1,182	1,169	1,155	1,141	1,128	1,114	1,100	1,083
	Power input (W)	/	/	/	/	6,756	6,531	6,306	6,103	5,901	5,671	5,442	5,255	5,057
	Air flow (CFM)	/	/	/	/	10,982	10,890	10,798	10,668	10,539	10,398	10,258	10,068	9,892
50	Fan speed (rpm)	/	/	/	1,214	1,196	1,183	1,170	1,156	1,142	1,129	1,115	1,101	1,084
	Power input (W)	/	/	/	6,944	6,561	6,352	6,143	5,941	5,738	5,512	5,285	5,088	4,926
	Air flow (CFM)	/	/	/	10,877	10,754	10,676	10,599	10,465	10,332	10,174	10,016	9,829	9,705
75	Fan speed (rpm)	/	/	/	1,214	1,197	1,184	1,171	1,157	1,143	1,130	1,116	1,102	1,085
	Power input (W)	/	/	/	6,738	6,390	6,180	5,970	5,754	5,539	5,328	5,118	5,069	4,748
	Air flow (CFM)	/	/	/	10,628	10,540	10,453	10,367	10,207	10,047	9,898	9,749	9,807	9,403
100	Fan speed (rpm)	/	1,240	1,228	1,215	1,198	1,185	1,172	1,158	1,145	1,131	1,117	1,103	1,087
	Power input (W)	/	6,941	6,765	6,532	6,218	6,008	5,797	5,568	5,339	5,145	4,950	5,049	4,570
	Air flow (CFM)	/	10,582	10,491	10,378	10,326	10,230	10,135	9,948	9,761	9,622	9,483	9,785	9,102
125	Fan speed (rpm)	/	1,241	1,230	1,215	1,199	1,186	1,173	1,159	1,146	1,131	1,117	1,105	1,091
	Power input (W)	/	6,753	6,659	6,367	6,068	5,866	5,663	5,441	5,218	5,013	4,808	4,570	4,351
	Air flow (CFM)	/	10,357	10,349	10,170	10,113	10,017	9,922	9,753	9,584	9,435	9,285	9,024	8,815
150	Fan speed (rpm)	1,258	1,242	1,230	1,216	1,202	1,189	1,175	1,162	1,149	1,134	1,120	1,105	1,091
	Power input (W)	6,736	6,565	6,360	6,158	5,820	5,611	5,401	5,180	4,958	4,769	4,579	4,327	4,141
	Air flow (CFM)	10,287	10,132	10,049	9,952	9,818	9,692	9,566	9,395	9,224	9,069	8,915	8,599	8,418

Continued: BAP102403CM

ESP (Pa)	N	0	0.25	0.5	0.75	1	1.25	1.5	1.75	2	2.25	2.5	2.75	3
	X	0.5	1	1.5	2	2.5	3	3.5	4	4.5	5	5.5	6	6.5
175	Fan speed (rpm)	1,261	1,244	1,232	1,218	1,204	1,190	1,177	1,163	1,149	1,135	1,121	1,106	1,093
	Power input (W)	6,511	6,332	6,169	5,929	5,607	5,391	5,175	4,953	4,731	4,545	4,358	4,107	3,925
	Air flow (CFM)	10,042	9,864	9,794	9,650	9,524	9,377	9,231	9,046	8,861	8,699	8,537	8,243	8,045
200	Fan speed (rpm)	1,263	1,245	1,233	1,221	1,205	1,192	1,179	1,164	1,150	1,136	1,123	1,106	1,094
	Power input (W)	6,285	6,099	5,977	5,700	5,394	5,172	4,949	4,727	4,504	4,321	4,137	3,887	3,709
	Air flow (CFM)	9,798	9,597	9,540	9,347	9,230	9,063	8,896	8,697	8,497	8,328	8,158	7,887	7,672
225	Fan speed (rpm)	1,264	1,248	1,235	1,222	1,207	1,194	1,181	1,166	1,152	1,138	1,124	1,110	1,096
	Power input (W)	6,046	5,871	5,696	5,451	5,160	4,923	4,686	4,461	4,237	4,049	3,861	3,624	3,433
	Air flow (CFM)	9,505	9,301	9,183	9,019	8,877	8,693	8,508	8,291	8,074	7,871	7,669	7,387	7,138
250	Fan speed (rpm)	1,265	1,251	1,237	1,224	1,209	1,196	1,183	1,169	1,154	1,140	1,126	1,113	1,099
	Power input (W)	5,807	5,643	5,415	5,201	4,925	4,674	4,422	4,196	3,969	3,777	3,585	3,361	3,157
	Air flow (CFM)	9,212	9,004	8,826	8,691	8,524	8,322	8,120	7,885	7,650	7,415	7,180	6,887	6,605
275	Fan speed (rpm)	1,267	1,253	1,239	1,226	1,211	1,198	1,185	1,171	1,157	1,144	1,130	1,117	1,094
	Power input (W)	5,523	5,350	5,120	4,872	4,585	4,322	4,059	3,812	3,564	3,331	3,098	2,800	2,662
	Air flow (CFM)	8,831	8,594	8,380	8,204	8,010	7,740	7,470	7,173	6,876	6,487	6,099	5,562	5,395
300	Fan speed (rpm)	1,269	1,254	1,242	1,228	1,213	1,201	1,188	1,174	1,160	1,147	/	/	/
	Power input (W)	5,238	5,056	4,825	4,542	4,245	3,971	3,696	3,428	3,159	2,885	/	/	/
	Air flow (CFM)	8,450	8,184	7,933	7,717	7,495	7,157	6,819	8,460	6,102	5,560	/	/	/
325	Fan speed (rpm)	1,272	1,258	1,245	1,233	1,218	1,206	/	/	/	/	/	/	/
	Power input (W)	4,892	4,650	4,334	3,987	3,707	3,334	/	/	/	/	/	/	/
	Air flow (CFM)	7,955	7,559	7,136	6,775	6,406	5,820	/	/	/	/	/	/	/

Continued: BAP102403CM

ESP (Pa)	N	0	0.25	0.5	0.75	1	1.25	1.5	1.75	2	2.25	2.5	2.75	3
	X	0.5	1	1.5	2	2.5	3	3.5	4	4.5	5	5.5	6	6.5
350	Fan speed (rpm)	1,276	1,262	1,248	1,235	/	/	/	/	/	/	/	/	/
	Power input (W)	4,546	4,243	3,842	3,731	/	/	/	/	/	/	/	/	/
	Air flow (CFM)	7,459	6,935	6,339	6,285	/	/	/	/	/	/	/	/	/
375	Fan speed (rpm)	1,280	1,267	/	/	/	/	/	/	/	/	/	/	/
	Power input (W)	3,982	3,457	/	/	/	/	/	/	/	/	/	/	/
	Air flow (CFM)	6,465	5,433	/	/	/	/	/	/	/	/	/	/	/
400	Fan speed (rpm)	1,284	/	/	/	/	/	/	/	/	/	/	/	/
	Power input (W)	3,417	/	/	/	/	/	/	/	/	/	/	/	/
	Air flow (CFM)	5,471	/	/	/	/	/	/	/	/	/	/	/	/

Notes:

1. Legend: X – Regulation space of motor pulley (mm);
2. N: Number of turns;
3. ESP: External static pressure (Pa).

BAP103003CM

ESP (Pa)	N	0	0.25	0.5	0.75	1	1.25	1.5	1.75	2	2.25	2.5	2.75	3
	X	0.5	1	1.5	2	2.5	3	3.5	4	4.5	5	5.5	6	6.5
125	Fan speed (rpm)	/	/	/	/	/	/	/	/	/	1,215	1,185	1,181	1,176
	Power input (W)	/	/	/	/	/	/	/	/	/	7,350	7,164	7,155	7,146
	Air flow (CFM)	/	/	/	/	/	/	/	/	/	12,552	12,275	12,208	12,141
150	Fan speed (rpm)	/	/	/	/	/	/	/	/	1,225	1,216	1,186	1,181	1,177
	Power input (W)	/	/	/	/	/	/	/	/	8,405	7,032	6,874	6,860	6,845
	Air flow (CFM)	/	/	/	/	/	/	/	/	12,706	12,210	11,958	11,867	11,777
175	Fan speed (rpm)	/	/	/	/	/	/	/	1,230	1,220	1,216	1,187	1,183	1,178
	Power input (W)	/	/	/	/	/	/	/	6,950	6,846	6,742	6,607	6,589	6,571
	Air flow (CFM)	/	/	/	/	/	/	/	12,704	12,377	11,835	11,597	11,500	11,402
200	Fan speed (rpm)	/	/	/	/	/	/	1,230	1,225	1,220	1,217	1,188	1,184	1,180
	Power input (W)	/	/	/	/	/	/	8,379	8,203	7,854	6,452	6,339	6,318	6,297
	Air flow (CFM)	/	/	/	/	/	/	12,654	12,423	12,048	11,460	11,237	11,132	11,028
225	Fan speed (rpm)	/	/	/	/	/	1,215	1,210	1,200	1,200	1,189	1,185	1,183	1,181
	Power input (W)	/	/	/	/	/	8,155	8,124	7,923	7,573	6,195	6,090	6,062	6,033
	Air flow (CFM)	/	/	/	/	/	12,362	12,352	12,092	11,671	11,140	10,926	10,773	10,620
250	Fan speed (rpm)	/	/	/	1,220	1,215	1,214	1,209	1,200	1,200	1,189	1,185	1,182	1,182
	Power input (W)	/	/	/	8,696	8,497	7,868	7,868	7,643	7,292	5,938	5,841	5,805	5,769
	Air flow (CFM)	/	/	/	12,321	12,063	12,045	12,050	11,762	11,294	10,821	10,615	10,413	10,212
275	Fan speed (rpm)	/	/	1,220	1,218	1,213	1,210	1,207	1,199	1,199	1,188	1,182	1,181	/
	Power input (W)	/	/	8,383	8,404	8,195	6,473	6,463	6,317	5,952	5,779	5,693	5,768	/
	Air flow (CFM)	/	/	11,957	11,970	11,681	11,533	11,509	11,280	10,792	10,452	10,300	10,200	/

Continued: BAP103003CM

ESP (Pa)	N	0	0.25	0.5	0.75	1	1.25	1.5	1.75	2	2.25	2.5	2.75	3
	X	0.5	1	1.5	2	2.5	3	3.5	4	4.5	5	5.5	6	6.5
300	Fan speed (rpm)	/	1,220	1,218	1,215	1,210	1,208	1,205	1,197	1,197	1,188	1,181	/	/
	Power input (W)	/	8,566	8,077	8,111	7,892	6,495	6,475	6,409	6,029	5,843	5,768	/	/
	Air flow (CFM)	/	12,174	11,596	11,619	11,299	11,308	11,215	11,045	10,536	10,098	9,999	/	/
325	Fan speed (rpm)	/	1,218	1,215	1,212	1,208	1,206	1,203	1,195	1,191	1,186	/	/	/
	Power input (W)	/	8,576	8,216	8,117	7,892	6,186	6,316	5,915	5,870	5,939	/	/	/
	Air flow (CFM)	/	12,402	11,891	11,681	11,299	10,418	10,847	9,838	10,168	9,105	/	/	/
350	Fan speed (rpm)	1,220	1,215	1,213	1,210	1,206	1,201	1,200	1,188	1,178	/	/	/	/
	Power input (W)	8,629	7,946	7,715	7,484	7,253	6,250	6,380	5,979	5,934	/	/	/	/
	Air flow (CFM)	11,462	11,818	11,374	10,931	10,487	10,034	9,605	9,356	9,025	/	/	/	/
375	Fan speed (rpm)	1,215	1,211	1,210	1,209	1,205	1,201	1,200	1,189	/	/	/	/	/
	Power input (W)	8,342	8,575	8,809	7,967	7,126	6,123	6,253	5,852	/	/	/	/	/
	Air flow (CFM)	11,076	11,514	11,952	11,069	10,187	9,733	9,304	9,055	/	/	/	/	/
400	Fan speed (rpm)	1,206	1,204	1,201	1,201	1,200	1,196	1,189	/	/	/	/	/	/
	Power input (W)	8,055	8,011	7,967	7,791	6,999	5,996	6,126	/	/	/	/	/	/
	Air flow (CFM)	10,689	10,656	10,622	10,489	9,886	9,433	9,004	/	/	/	/	/	/
425	Fan speed (rpm)	1,200	1,200	1,196	1,196	1,189	1,186	/	/	/	/	/	/	/
	Power input (W)	5,571	5,615	5,659	5,835	6,627	5,624	/	/	/	/	/	/	/
	Air flow (CFM)	8,441	8,474	8,508	8,642	9,244	8,791	/	/	/	/	/	/	/
450	Fan speed (rpm)	1,186	1,184	1,184	1,184	1,180	1,180	/	/	/	/	/	/	/
	Power input (W)	7,310	7,266	7,222	7,046	6,254	5,251	/	/	/	/	/	/	/
	Air flow (CFM)	9,406	9,373	9,339	9,205	8,603	8,150	/	/	/	/	/	/	/

Notes:

Legend: X – Regulation space of motor pulley (mm); N: Number of turns; ESP: External static pressure (Pa).

BAP103603CM

ESP (Pa)	N	0	0.25	0.5	0.75	1	1.25	1.5	1.75	2	2.25	2.5	2.75	3
	X	0.5	1	1.5	2	2.5	3	3.5	4	4.5	5	5.5	6	6.5
0	Fan speed (rpm)	/	/	/	/	/	/	/	/	/	/	1257	1249	1241
	Power input (W)	/	/	/	/	/	/	/	/	/	/	9193	8828	8442
	Air flow (CFM)	/	/	/	/	/	/	/	/	/	/	13959	13782	13515
25	Fan speed (rpm)	/	/	/	/	/	/	/	/	/	/	1258	1250	1242
	Power input (W)	/	/	/	/	/	/	/	/	/	/	8912	8559	8195
	Air flow (CFM)	/	/	/	/	/	/	/	/	/	/	13618	13441	13220
50	Fan speed (rpm)	/	/	/	/	/	/	/	/	/	/	1259	1251	1243
	Power input (W)	/	/	/	/	/	/	/	/	/	/	8631	8290	7948
	Air flow (CFM)	/	/	/	/	/	/	/	/	/	/	13277	13101	12924
75	Fan speed (rpm)	/	/	/	/	/	/	/	/	/	/	1260	1252	1244
	Power input (W)	/	/	/	/	/	/	/	/	/	/	8350	8021	7691
	Air flow (CFM)	/	/	/	/	/	/	/	/	/	/	12936	12760	12584
100	Fan speed (rpm)	/	/	/	/	/	/	/	/	/	1266	1261	1253	1245
	Power input (W)	/	/	/	/	/	/	/	/	/	8387	8069	7752	7434
	Air flow (CFM)	/	/	/	/	/	/	/	/	/	12771	12595	12419	12243
125	Fan speed (rpm)	/	/	/	/	/	/	/	/	/	1267	1262	1254	1246
	Power input (W)	/	/	/	/	/	/	/	/	/	8151	7832	7513	7194
	Air flow (CFM)	/	/	/	/	/	/	/	/	/	12475	12292	12109	11927
150	Fan speed (rpm)	/	/	/	/	/	/	/	/	1273	1268	1263	1255	1247
	Power input (W)	/	/	/	/	/	/	/	/	8432	8014	7595	7275	6954
	Air flow (CFM)	/	/	/	/	/	/	/	/	12478	12234	11989	11800	11610

Continued: BAP103603CM

ESP (Pa)	N	0	0.25	0.5	0.75	1	1.25	1.5	1.75	2	2.25	2.5	2.75	3
	X	0.5	1	1.5	2	2.5	3	3.5	4	4.5	5	5.5	6	6.5
175	Fan speed (rpm)	/	/	/	/	/	/	/	1281	1274	1269	1264	1256	1248
	Power input (W)	/	/	/	/	/	/	/	8583	8157	7732	7306	7003	6701
	Air flow (CFM)	/	/	/	/	/	/	/	16854	15108	13361	11615	11422	11230
200	Fan speed (rpm)	/	/	/	/	/	/	1289	1282	1275	1270	1265	1257	1249
	Power input (W)	/	/	/	/	/	/	8483	8183	7882	7450	7017	6732	6447
	Air flow (CFM)	/	/	/	/	/	/	12122	14930	17737	14489	11241	11045	10849
225	Fan speed (rpm)	/	/	/	/	/	1296	1290	1283	1276	1271	1266	1258	1250
	Power input (W)	/	/	/	/	/	8506	8205	7903	7601	7188	6774	6480	6186
	Air flow (CFM)	/	/	/	/	/	10474	11775	13076	14377	12635	10893	10670	10447
250	Fan speed (rpm)	/	/	/	/	1304	1297	1291	1284	1277	1272	1267	1259	1251
	Power input (W)	/	/	/	/	8669	8298	7926	7623	7320	6926	6531	6228	5924
	Air flow (CFM)	/	/	/	/	11908	11668	11427	11222	11016	10780	10544	10295	10045
275	Fan speed (rpm)	/	/	/	/	1305	1298	1292	1285	1278	1273	1268	1260	1252
	Power input (W)	/	/	/	/	8382	8006	7630	7339	7048	6650	6252	5955	5659
	Air flow (CFM)	/	/	/	/	11512	11234	10957	10805	10653	10398	10143	9883	9623
300	Fan speed (rpm)	/	/	1320	1313	1306	1299	1293	1286	1279	1274	1269	1261	1253
	Power input (W)	/	/	8896	8495	8094	7714	7334	7055	6775	6374	5972	5683	5393
	Air flow (CFM)	/	/	11726	11421	11115	10801	10486	10388	10290	10016	9742	9472	9201
325	Fan speed (rpm)	/	/	1321	1314	1307	1300	1294	1287	1280	1275	1270	1262	1254
	Power input (W)	/	/	8593	8183	7773	7419	7064	6766	6468	6074	5680	5398	5117
	Air flow (CFM)	/	/	11298	11019	10741	10438	10135	9990	9845	9527	9210	8959	8709

Continued: BAP103603CM

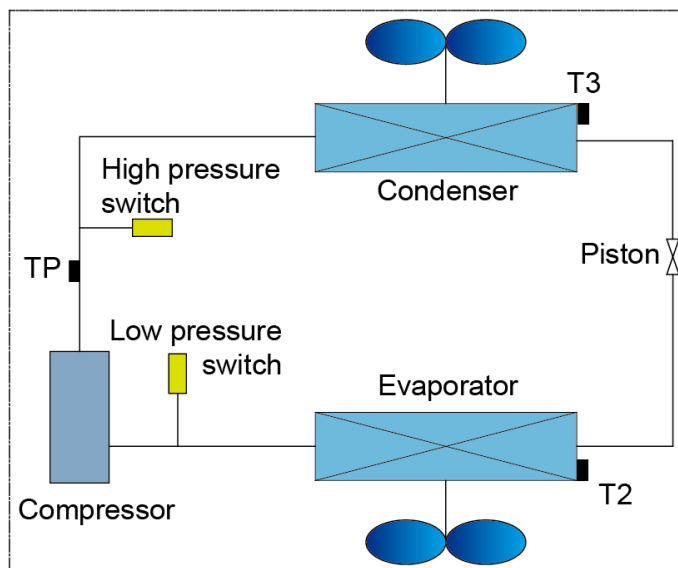
ESP (Pa)	N	0	0.25	0.5	0.75	1	1.25	1.5	1.75	2	2.25	2.5	2.75	3
	X	0.5	1	1.5	2	2.5	3	3.5	4	4.5	5	5.5	6	6.5
350	Fan speed (rpm)	/	/	1322	1315	1308	1301	1295	1288	1281	1276	1271	1263	1255
	Power input (W)	/	/	8290	7871	7452	7123	6794	6477	6160	5774	5387	5114	4840
	Air flow (CFM)	/	/	10870	10618	10366	10075	9783	9591	9399	9039	8678	8447	8216
375	Fan speed (rpm)	/	1328	1323	1316	1309	1302	1296	1289	1282	/	/	/	/
	Power input (W)	/	8384	7985	7585	7186	6833	6480	6149	5819	/	/	/	/
	Air flow (CFM)	/	10712	10448	10183	9919	9598	9278	9034	8790	/	/	/	/
400	Fan speed (rpm)	1336	1330	1324	1317	1310	1303	1297	1290	1283	/	/	/	/
	Power input (W)	8499	8089	7679	7300	6920	6543	6165	5822	5478	/	/	/	/
	Air flow (CFM)	10628	10327	10025	9748	9471	9122	8773	8477	8180	/	/	/	/
425	Fan speed (rpm)	1337	1331	1325	1318	1311	/	/	/	/	/	/	/	/
	Power input (W)	8185	7762	7340	6979	6618	/	/	/	/	/	/	/	/
	Air flow (CFM)	10197	9873	9549	9257	8966	/	/	/	/	/	/	/	/
450	Fan speed (rpm)	1338	1332	1326	1319	1312	/	/	/	/	/	/	/	/
	Power input (W)	7870	7436	7001	6658	6315	/	/	/	/	/	/	/	/
	Air flow (CFM)	9765	9419	9072	8767	8461	/	/	/	/	/	/	/	/
475	Fan speed (rpm)	1339	/	/	/	/	/	/	/	/	/	/	/	/
	Power input (W)	7380	/	/	/	/	/	/	/	/	/	/	/	/
	Air flow (CFM)	8965	/	/	/	/	/	/	/	/	/	/	/	/
500	Fan speed (rpm)	1340	/	/	/	/	/	/	/	/	/	/	/	/
	Power input (W)	6980	/	/	/	/	/	/	/	/	/	/	/	/
	Air flow (CFM)	8165	/	/	/	/	/	/	/	/	/	/	/	/

Notes:

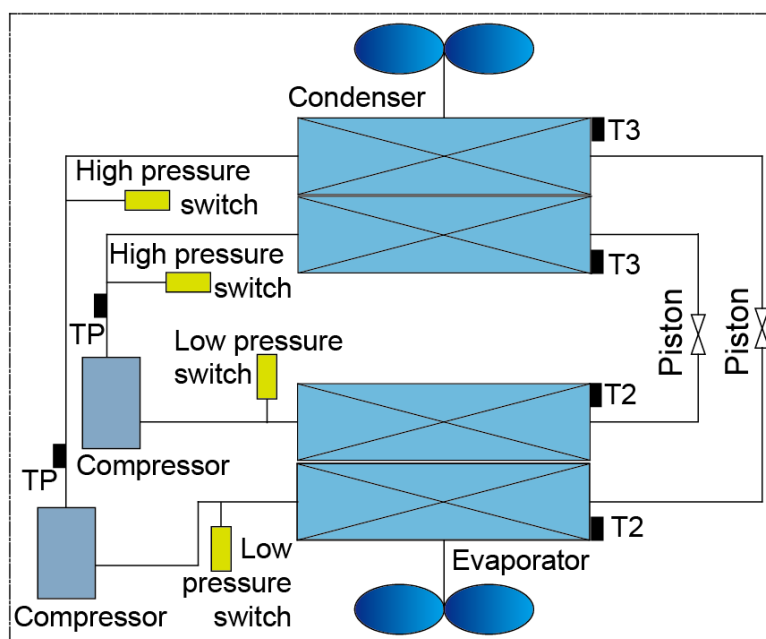
Legend: X – Regulation space of motor pulley (mm); N: Number of turns; ESP: External static pressure (Pa).

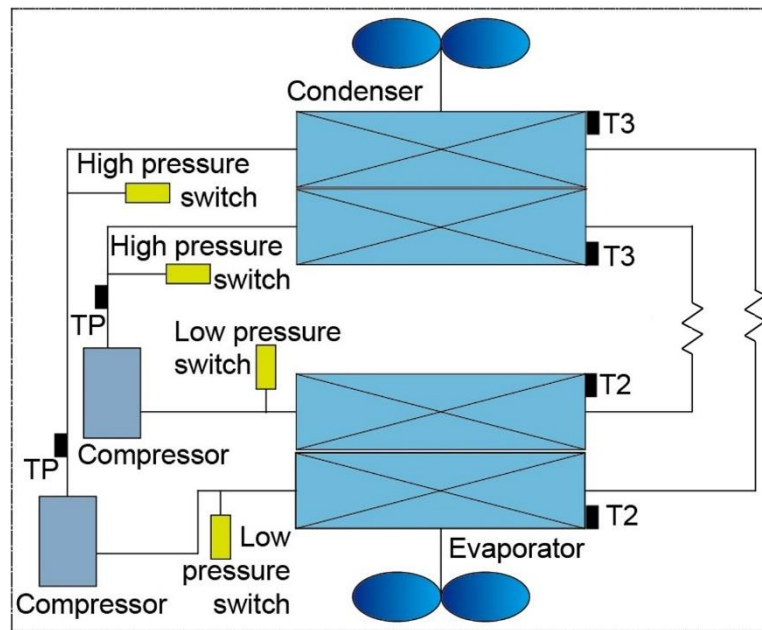
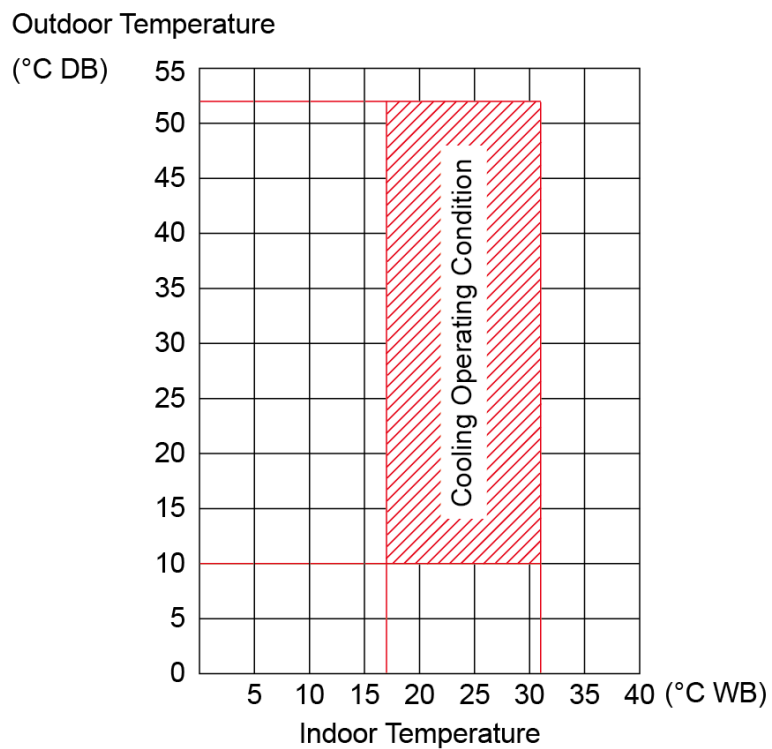
8. Refrigerant cycle diagram

BAP110903CM, BAP111203CM:



BAP111803CM, BAP102403CM:

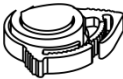


BAP103003CM, BAP103603CM:**9. Operation limits**

	Outdoor temperature	Indoor temperature
Cooling only mode	10°C~52°C	17°C~31°C

Room relative humidity should be less than 80%. If the unit operates in excess, the surface of the unit may attract condensation.

10. Accessories

Item	Quantity	Shape
User manual	1	-----
Drain outlet	1	
Snap ring	1	
Drain pipe	1	
Wired controller & wires	1	

Part. 3 Installations

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1. General information

Warning and cautions appear at appropriate locations throughout this manual. Read these carefully, please.

Caution:

- ✧ Read this entire manual before beginning installation procedures.
- ✧ Body injury can result from high voltage electrical components, fast moving fans. For protection from these inherent hazards during installation and servicing, the electrical supply must be disconnected.
- ✧ If operating checks must be performed with the unit operating, it is the technicians responsibility to recognize these hazards and proceed safely.

Warning:

- ✧ Never replace a fuse with that of wrong rated current or other wires when a fuse blows out. Use of wire or copper wire may cause the unit to break down or cause a fire.
- ✧ Do not insert fingers, rods or other objects into the air inlet or outlet. When the fan is rotating at high speed, it will cause injury.
- ✧ Never use a flammable spray such as hair spray, lacquer or paint near the unit. It may cause a fire.
- ✧ Keep far away from high-frequency equipment. Also, keep away from the following places:
A place where it is full of oil, gas; Places where salty air surrounding (near the coast); A place where is caustic gas (the sulfide in hot spring); Location in above places may cause malfunction or shorten the life span of the machine.
- ✧ In the case of extremely strong wind, please prevent the air from flowing backwards into the outside.
- ✧ Snow canopy is necessary in snowfall places on the outside.
- ✧ In the frequent thunderstruck place, lighting proof action should be taken.
- ✧ The refrigerant in the air conditioner is safe and normally does not leak.
- ✧ The temperature of refrigerant circuit will be high, please keep the interconnection cable away from the copper tube.
- ✧ The appliance should not be used by children without supervision.

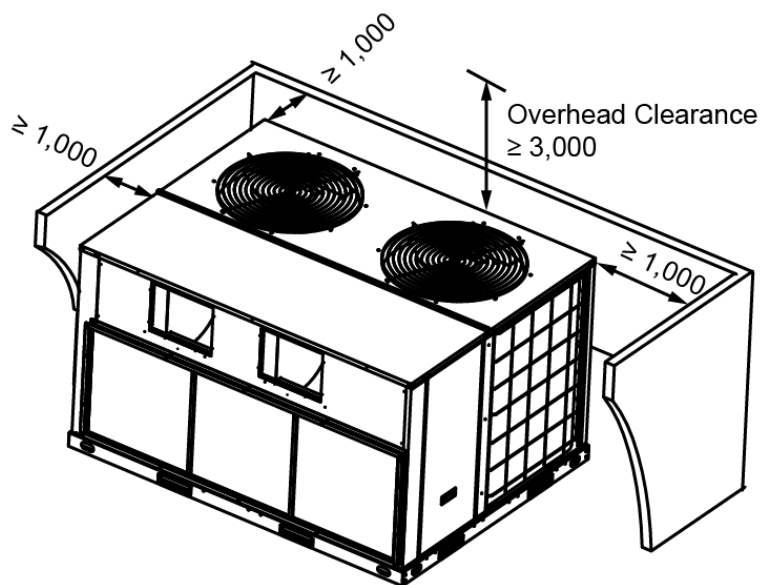
2. Recommendations

2.1 Horizontal airflow application

- ✧ These units are designed and certified for outdoor installation. These units may be installed directly on wood flooring or on Class A, Class B and Class C roof covering material.
- ✧ Location of the unit must allow service clearance around it. Clearance of the unit must be given careful consideration.
- ✧ Check the handling facilities to ensure the safety of personnel and the units.
- ✧ Caution must be taken at all times to avoid personal injuries and damage to equipment.
- ✧ Unit must be mounted level for proper drainage of water through the holes in the base pan.
- ✧ Unit must not be exposed to direct roof water run-off.
- ✧ Flexible duct connectors must be of a flame retardant material. All duct work outside of the structure must be insulated and weatherproofed in accordance with local codes.
- ✧ Holes through exterior walls must be sealed in accordance with local codes.
- ✧ All fabricated outdoor ducts should be as short as possible.

2.2 Clearances

- ✧ The recommended clearances for single-unit installations reference to the following figure. These requirements are not only an important consideration when determining unit placement, but they are also essential to ensure adequate serviceability, maximum capacity, and peak operating efficiency.

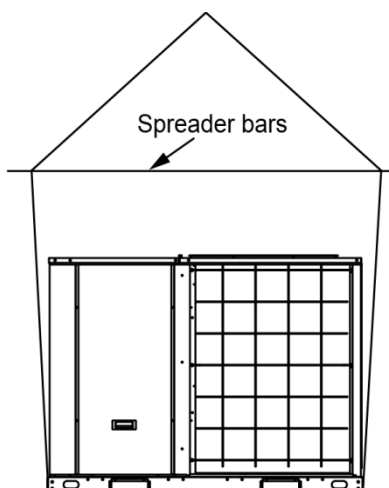
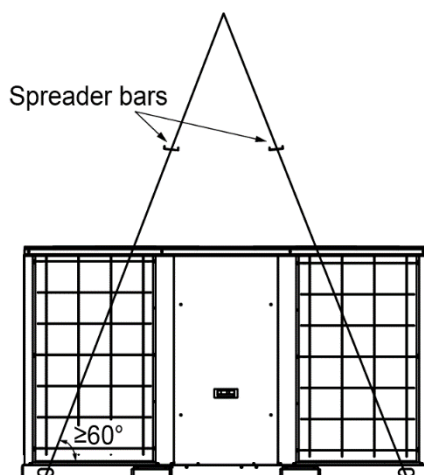


(Unit: mm)

- ✧ Any reduction of the unit clearances indicated in these pictures may result in condenser coil starvation or the recirculation of warm condenser air. Actual clearances which appear to be inadequate should be reviewed.

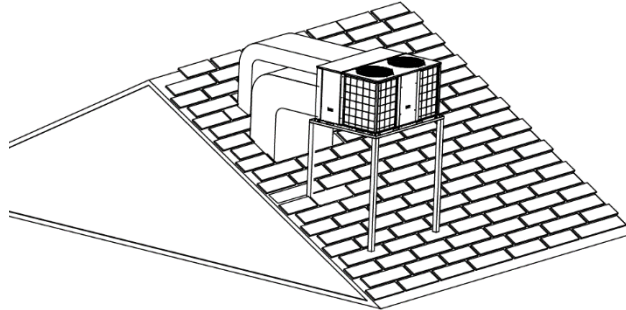
3. Lifting

- ✧ Rigging cables should have adequate capability to resist 3 times weight of unit. Before lift, please check and ensure that hooks are holding tightly to unit and lifting angles are no less than 60°.
- ✧ Cloth material or hard-paper should be padded in the contact place between unit and rigging cable. Rigging cable should be entwined a round at the hook for prevent danger by cable slip because of weight unbalance.
- ✧ During lifting, anyone forbidden lingering under the lifting unit.



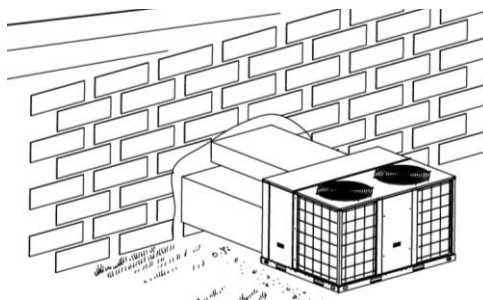
4. Installation

4.1 For roof top applications using a field fabricated frame and ducts:



- ✧ The frame must be located and secured by bolting or welding to the roof. Flashing is required.
- ✧ The hole in the roof must be prepared in advance of installing the unit.
- ✧ Secure the ducts to the roof.
- ✧ Place the unit to the frame or roof curb.
- ✧ Insulate any ductwork outside of the structure with at least 2 inches of insulation and then weatherproof. There must be a weatherproof seal where the duct enters the structure.
- ✧ Complete the installation according to the instructions.
- ✧ Typical rooftop application with frame.

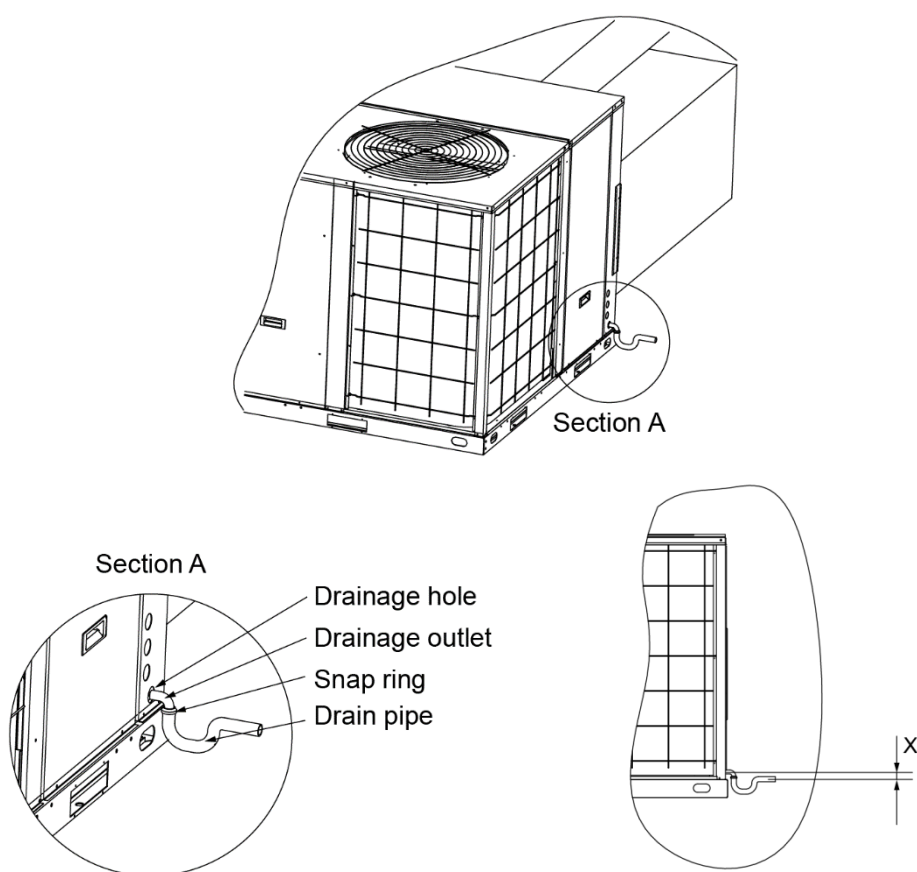
4.2 For ground level installations:



- ✧ The unit should be positioned on a pad in the size of the unit or larger. The unit must be level on the pad. The pad must not come in contact with the structure. Be sure the outdoor portion of the supply and return air ducts are as short as possible.
- ✧ Place the unit on the pad.

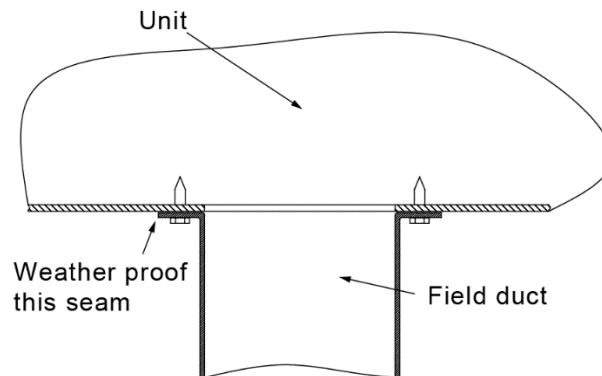
- ✧ Attach the supply and return air ducts to the unit.
- ✧ Insulate any ductwork outside of the structure with at least 2 inches of insulation and weatherproof. There must be a weatherproof seal where the duct enters the structure.
- ✧ Complete the installation.

5. Condensate drainage



Model	X value (mm)
BAP110903CM	$20 \leq X \leq 40$
BAP111203CM	$20 \leq X \leq 40$
BAP111803CM	$20 \leq X \leq 40$
BAP102403CM	$20 \leq X \leq 40$
BAP103003CM	$20 \leq X \leq 40$
BAP103603CM	$20 \leq X \leq 40$

6. Duct work



- ✧ All conditioned air ductwork should be insulated to minimize heating and cooling duct losses. Use a minimum of 2 inches of insulation with a vapor barrier. The outside ductwork must be weatherproofed between the unit and the building.
- ✧ When attaching ductwork to a horizontal unit, provide a flexible watertight connection to prevent noise transmission from the unit to the ducts. The flexible connection must be indoors and made out of heavy canvas.
- ✧ Do not draw the canvas taut between the solid ducts.
- ✧ At least 1m flame resistant layer must be laid at the end of air duct internal surface.

7. Electrical wiring

7.1 Warning

- ✧ An all-pole disconnection switch having a contact separation of at least 3mm in all poles should be connected in fixed wiring.
- ✧ The appliance shall be installed in accordance with national wiring regulations.
- ✧ 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.

7.2 Wiring provision

- ✧ The units are internally wired at the factory according to generally accepted electrical technology.

- ✧ Main power wiring to the unit control wiring between the control center and the unit, and earth wiring are required in the field.
- ✧ The following components are required: main power fuses; conduit coupling.
- ✧ Wire and fuse sizes should be selected in accordance with national and standard, taking the designed maximum current shall be the total of the compressor maximum current, condenser fan motor current and evaporator fan motor current.
- ✧ The wire size between the wired controller and the unit should be determined according to the following table, because the 24V power source is applied to the control circuit.

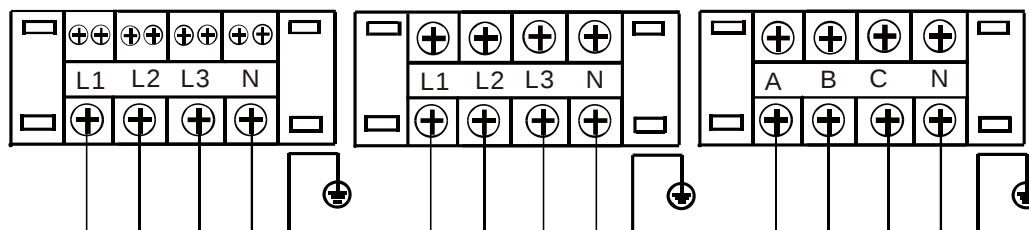
	Wiring length between wired controller and unit (One way)				
Min. wire size (mm ²)	10m	15m	20m	30m	40m
	0.5	0.5	0.75	0.75	1.0

- ✧ Main power supply parameters:

Model	Main power	Main power switch	Fuse
BAP110903CM	220V 3Ph 60Hz	63A	50A
BAP111203CM		75A	63A
BAP111803CM		100A	90A
BAP102403CM		125A	110A
BAP103003CM		150A	125A
BAP103603CM		200A	175A

Model	Wires for power supply	Type of wires
BAP110903CM	3×16mm ² + 2×10mm ²	3 × UL1015 5AWG 2 × UL1015 7AWG
BAP111203CM	3×16mm ² + 2×10mm ²	3 × UL1015 5AWG 2 × UL1015 7AWG
BAP111803CM	3×25mm ² + 2×10mm ²	3 × UL1015 3AWG 2 × UL1015 7AWG
BAP102403CM	3×35mm ² + 2×16mm ²	3 × UL1015 2AWG 2 × UL1015 5AWG
BAP103003CM	3×50mm ² + 2×25mm ²	3 × UL1015 1/0AWG 2 × UL1015 3AWG
BAP103603CM	3×50mm ² + 2×25mm ²	

✧ Power supply wiring diagram



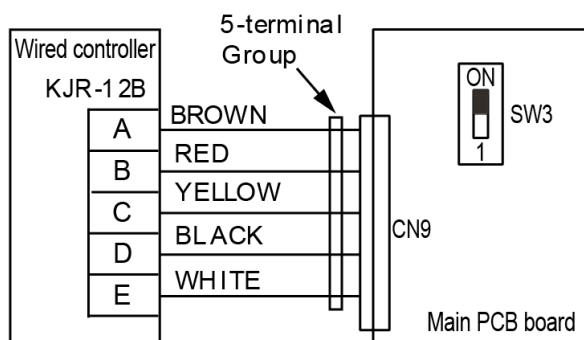
Note: All the above three wire joints can be used.

✧ Wired controller wiring diagram (Standard wired controller)

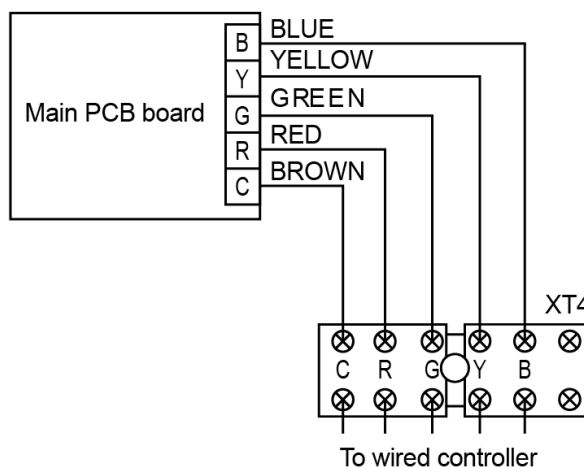
BAP111203CM, BAP111803CM,

BAP102403CM, BAP103003CM:

The standard wired controller model of these units is KJR-12B/dp(T)-E. When KJR-12B is connected, the switch SW3 should be set to “ON”.



BAP110903CM:

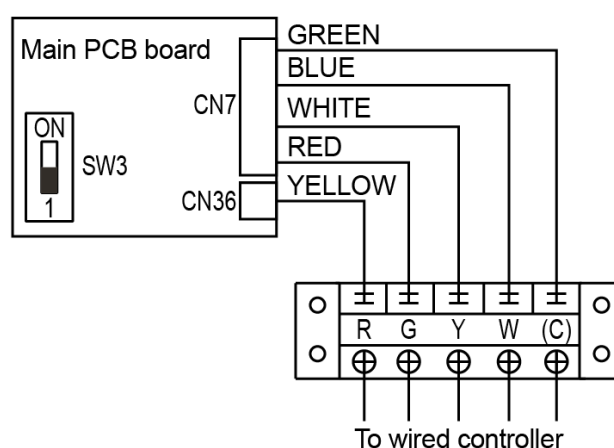


The standard wired controller model of BAP110903CM is KJR-25B.

- ✧ Wired controller wiring diagram (Optional wired controller)

BAP110903CM:

These units cannot directly connect with wired controller KJR-12B. If these units connect with KJR-12B, it should be customized to change the main PCB board of the unit.

BAP111203CM, BAP111803CM,**BAP102403CM, BAP103003CM, BAP103603CM:**

If choose KJR-25B/ KJR-23B or Non-programmed electrical thermostat of other brand, such as Honeywell. Wiring should refer to the manual of the thermostat. After connection, set SW3 in 1. Finally, shut off the power supply and then repower.

8. Start-up

Before starting unit:

- ✧ Is the unit properly located and level with the proper clearance?
- ✧ Is the duct work correctly sized, run, taped, insulated, and weatherproofed with proper unit arrangement?
- ✧ Is the wiring properly sized and run according to the unit wiring diagram?
- ✧ Are all the wiring connections tight, including those in the unit?
- ✧ Has the unit been properly grounded and fused with the recommended fuse size?
- ✧ Has the air conditioning system been checked at the service ports for charge and leak tested if necessary?
- ✧ Does the condenser fan and indoor blower fan free without rubbing, and are they tight on the

shafts?

- ✧ Are all covers and access panels in place to prevent air loss and safety hazards?

Starting the unit:

- ✧ When the unit operates under cooling mode, please check the line voltage of the unit. The voltage should be within the range shown on the unit nameplate.
- ✧ If low voltage is encountered, check the size and the length of power supply wire from the main disconnect to the unit. The line may be undersized for the length of the run.

Shut-down the unit:

- ✧ Place the system selector in the OFF position or reset thermostat (Wired controller) at a setting above room temperature.
- ✧ Do not de-energize the main power supply disconnect except when unit is to be serviced.

9. Safety control

Functions

- ✧ Minutes delay for the compressor start-up:

At the beginning of energizing, 3-minutes delay should be taken to start the compressor. While after the stop of the compressor, 7-minutes delay should be taken to restart the compressor.

- ✧ Compressor discharge temperature protection:

When the temperature of compressor discharge is higher than 125°C (257°F), the compressor will stop. Once the temperature is lower than 90°C (194°F), the compressor can be started again.

- ✧ Reverse phase protection relay:

The reverse phase protection relay will make the unit not start, when the power supply source is in correctly connected.

The checking of phase order is just carried out at the first time of electrifying. If malfunction happens then the checking will be going on until the order of phase is right, and the error code will be displayed on the board. If there is no problem in the first checking, then it will be omitted.

- ✧ High pressure and low pressure protection :

When high pressure is equal or higher than 638 Psi, and lower pressure is equal or lower than

21Psi, the unit will stop.

Error & protection code

✧ **BAP111203CM, BAP111803CM**

BAP102403CM, BAP103003CM, BAP103603CM

Type	Content	Code	Remarks
Normal	Standby	-----	
Normal	Constraint cool	ON	
Normal	Run	10.	
Error	Compressor phase sequence error or phase lack	E0	
Error	Condenser pipe temperature sensor (T3) in system A error	E1	
Error	Condenser pipe temperature sensor (T3) in system B error	E2	
Error	Over current protection of system A's compressor is active 3 times within 1 hour	E3	Unit shall be power-off to recovery
Error	Over current protection of system B's compressor is active 3 times within 1 hour	E4	Unit shall be power-off to recovery
Error	Evaporator pipe temperature sensor (T2) in system A error	E5	
Error	Evaporator pipe temperature sensor (T2) in system B error	E6	
Error	High & low pressure protection, or high discharge temperature protection of system A reached 3 times within 1 hour.	E7	
Error	High & low pressure protection, or high discharge temperature protection of system B reached 3 times within 1 hour.	E8	
Error	Indoor side room temperature sensor (T1) error	E9	
Error	Ambient temperature sensor (T4) error	EA	
Error	Wired controller communication error	Eb	
Error	Eeprom error	EE	
Protection	Over-current protection of compressor in system A	P0	
Protection	Over-current protection of compressor in system B	P1	
Protection	Over-current protection of indoor side fan motor	P2	

Continued :

Type	Content	Code	Remarks
Protection	Comprehensive protection of outdoor side fan motor	P3	
Protection	Protection of high/low pressure or high temperature protection of discharge sensor in system A	P4	Comprehensive protection of system A
Protection	Protection of high/low pressure or high temperature protection of discharge sensor in system B	P5	Comprehensive protection of system B
Protection	High temperature protection of condenser in system A	P8	Power off to recovery.
Protection	High temperature protection of condenser in system B	P9	Power off to recovery.
Protection	Anti-freezing protection of evaporator in system A	Pc	
Protection	Anti-freezing protection of evaporator in system B	Pd	
Protection	Protection of outdoor ambient temperature	PA	

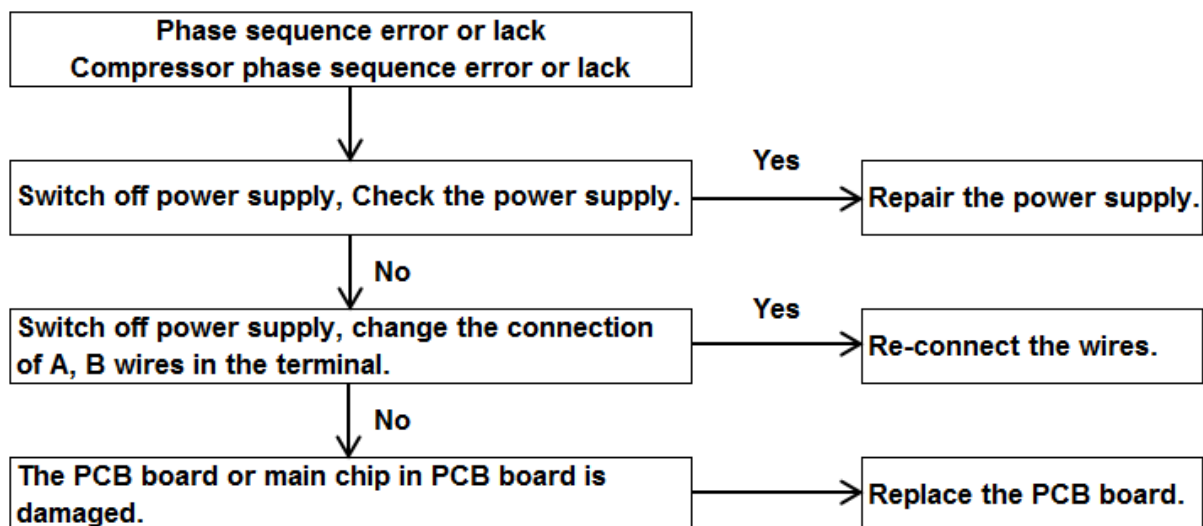
Notes: If same protection which includes all system for 2-stage products is triggered 3 times within 1 hour, the unit should be power-off to recovery.

✧ **BAP110903CM:**

Content	LED1	LED2	LED3
	(Red)	(Yellow)	(Green)
Standby	OFF	OFF	ON
Normal operation	ON	ON	ON
Phase sequence error or phase lack	FLASH	FLASH	FLASH
Indoor side room temperature (T1) error, or high pressure protection, or high temperature protection of discharge sensor	FLASH	FLASH	OFF
Evaporator pipe temperature sensor (T2) error	FLASH	OFF	FLASH
Condenser pipe temperature sensor (T3) error	OFF	FLASH	FLASH
Ambient temperature sensor (T4) error	ON	FLASH	FLASH
Over-current protection of compressor	OFF	OFF	FLASH
Low temperature protection of evaporator	OFF	FLASH	OFF

Continued:

Content	LED1	LED2	LED3
	(Red)	(Yellow)	(Green)
Low temperature protection of evaporator	OFF	FLASH	OFF
High temperature protection of condenser	FLASH	OFF	OFF
Wired controller communication error	FLASH	FLASH	ON
Low pressure protection	FLASH	ON	FLASH

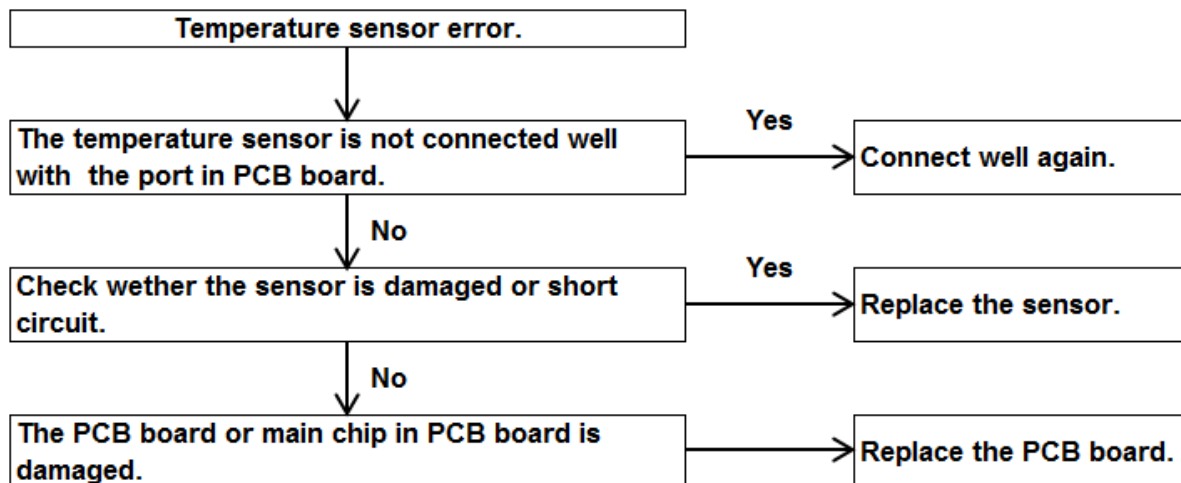
Phase sequence error or phase default:**Compressor sequence error or phase default:**

Evaporator pipe temperature sensor (T2) error:

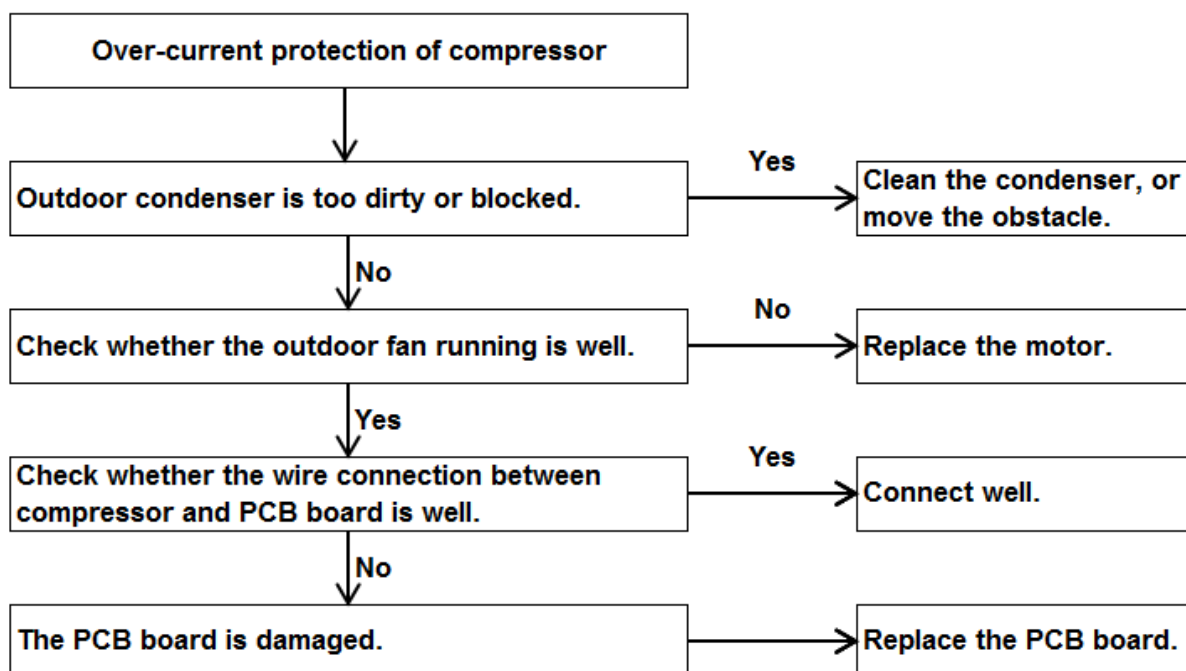
Condenser pipe temperature sensor (T3) error :

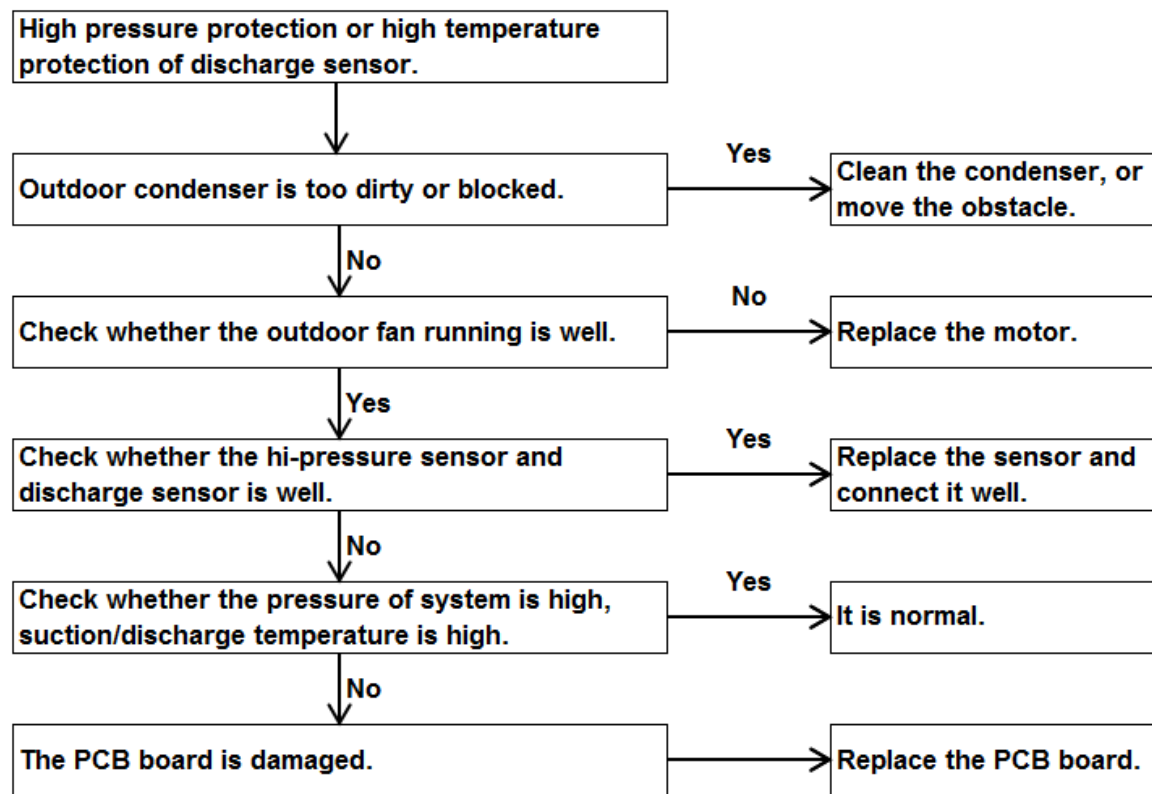
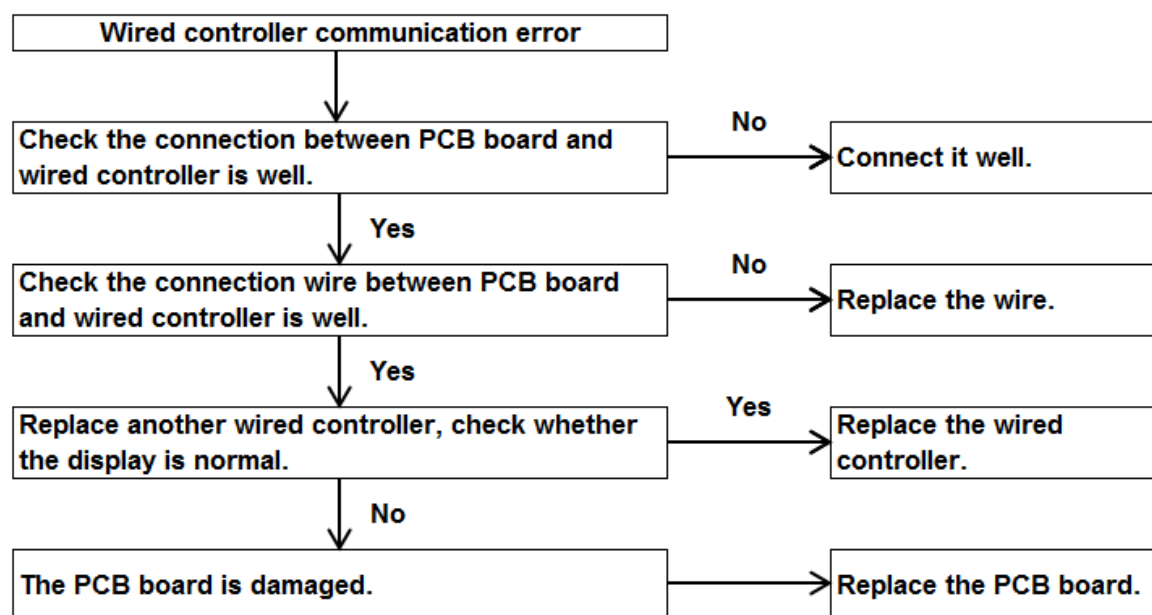
Ambient temperature sensor (T4) error:

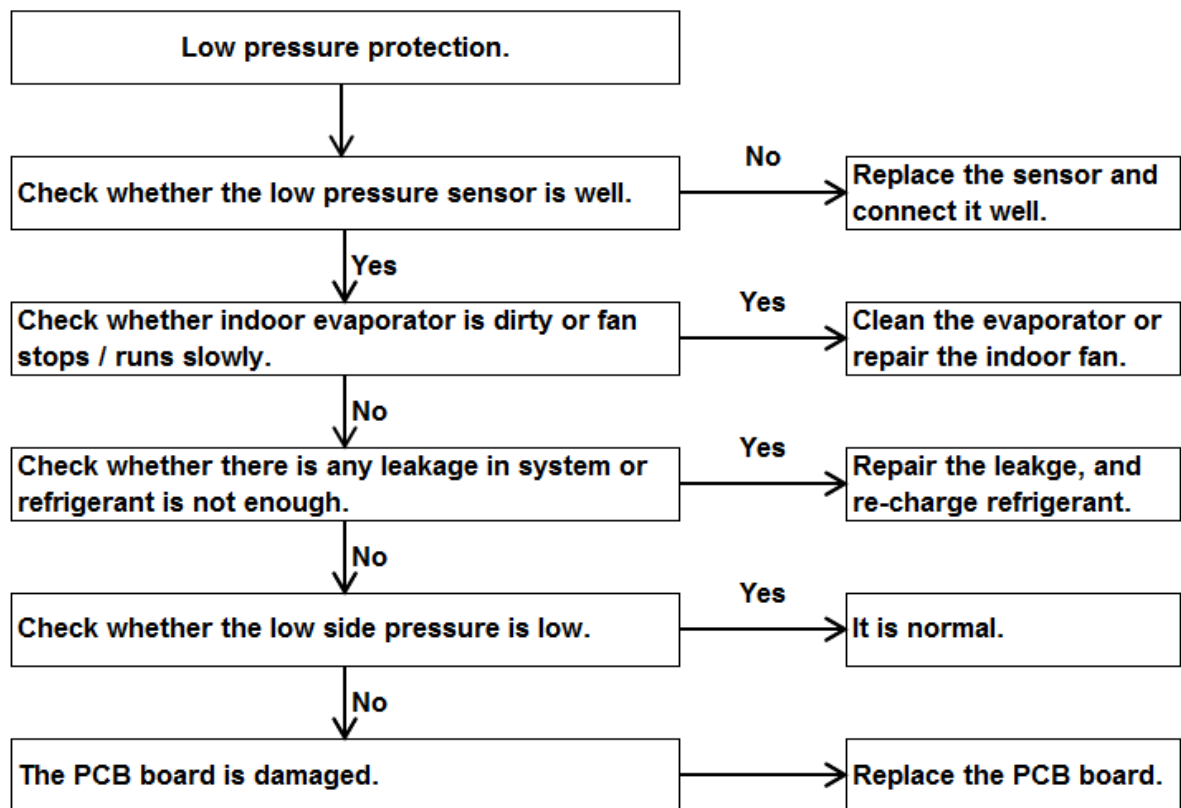
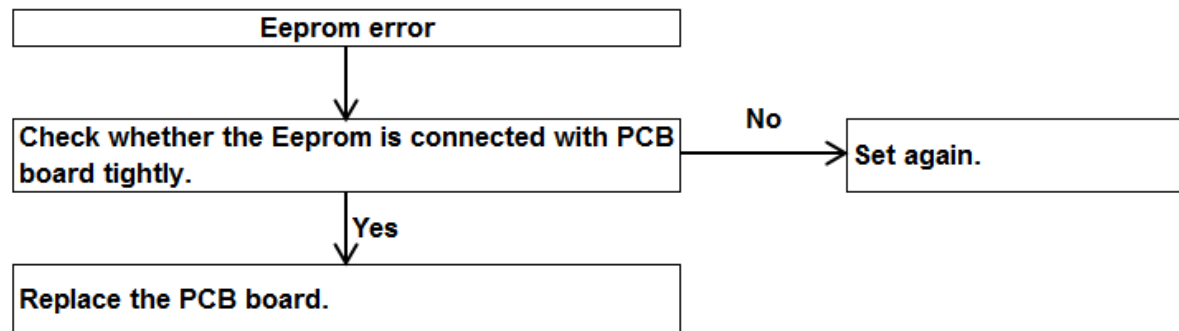
Indoor side room temperature sensor (T1) error :



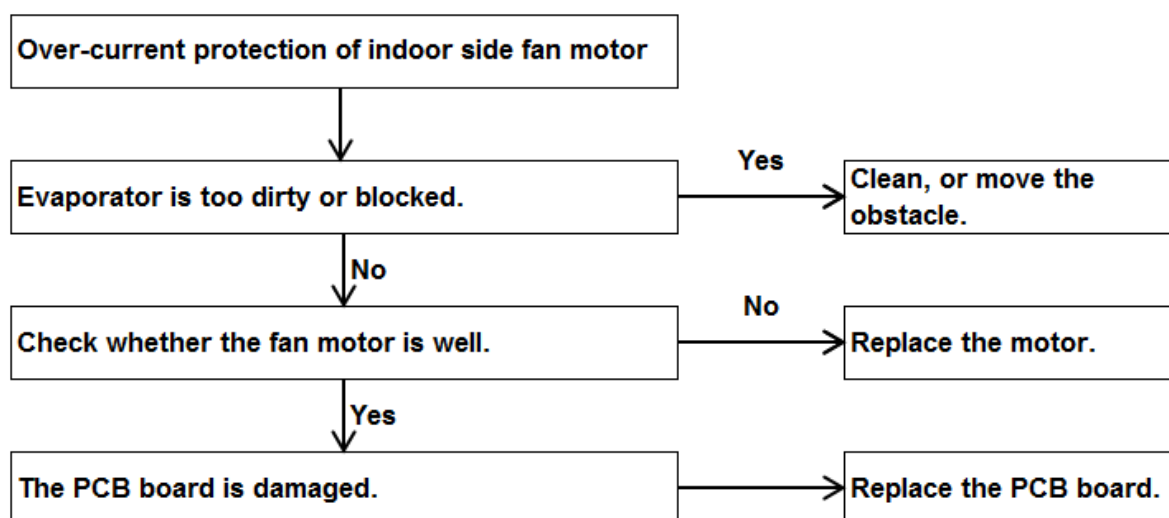
Over-current protection of compressor:



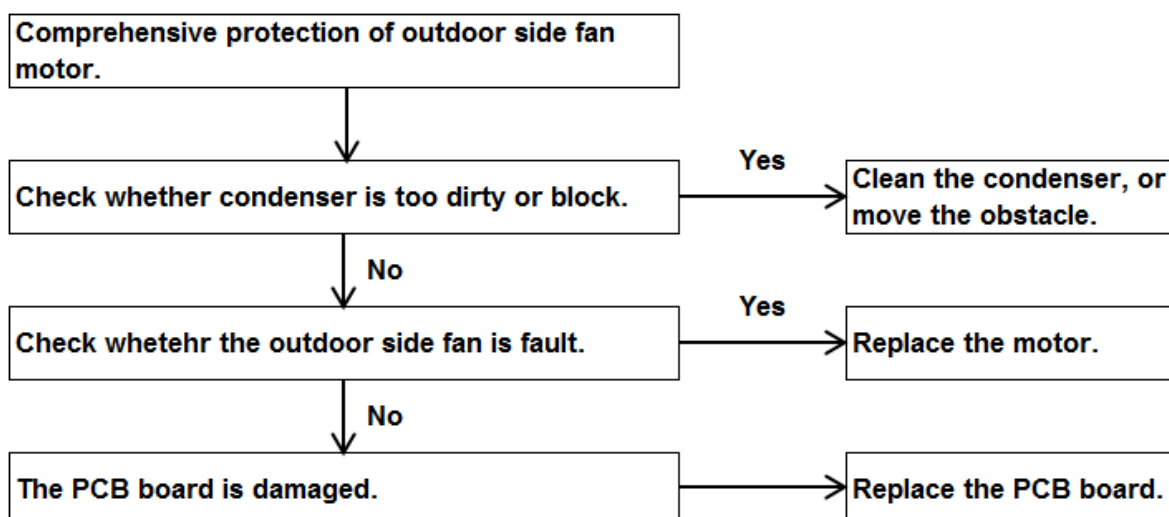
High pressure protection:**High discharge temperature protection :****Wired controller communication error :**

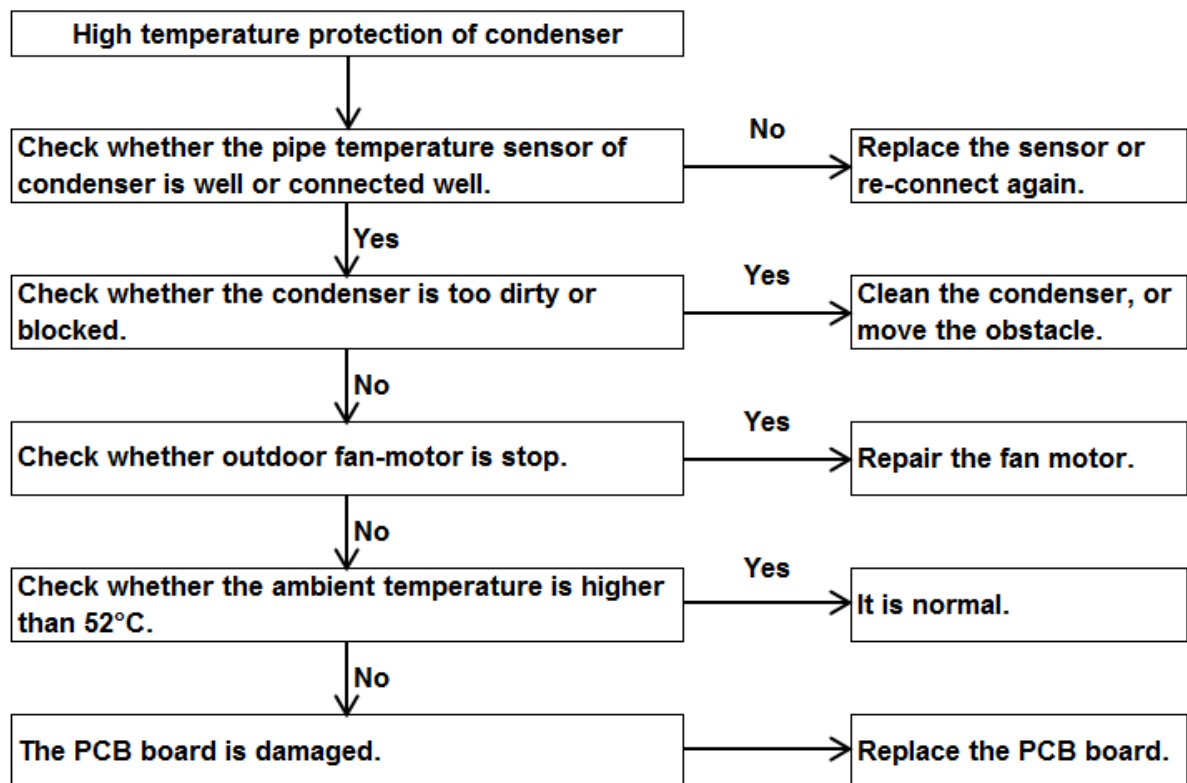
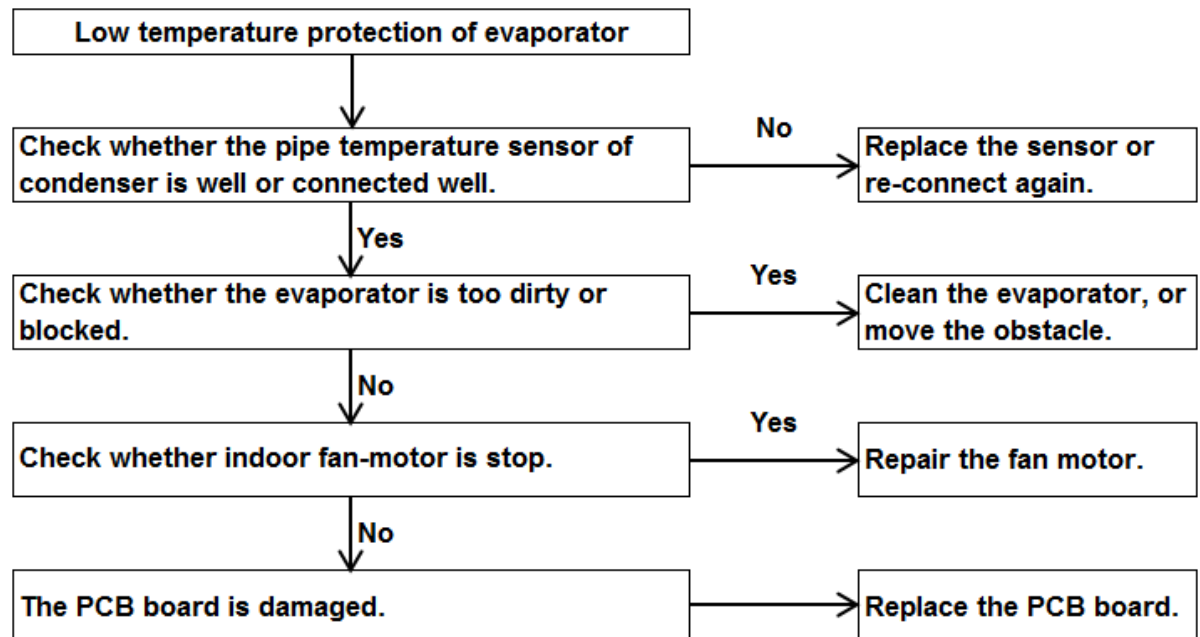
Low pressure protection :**Eeprom error :**

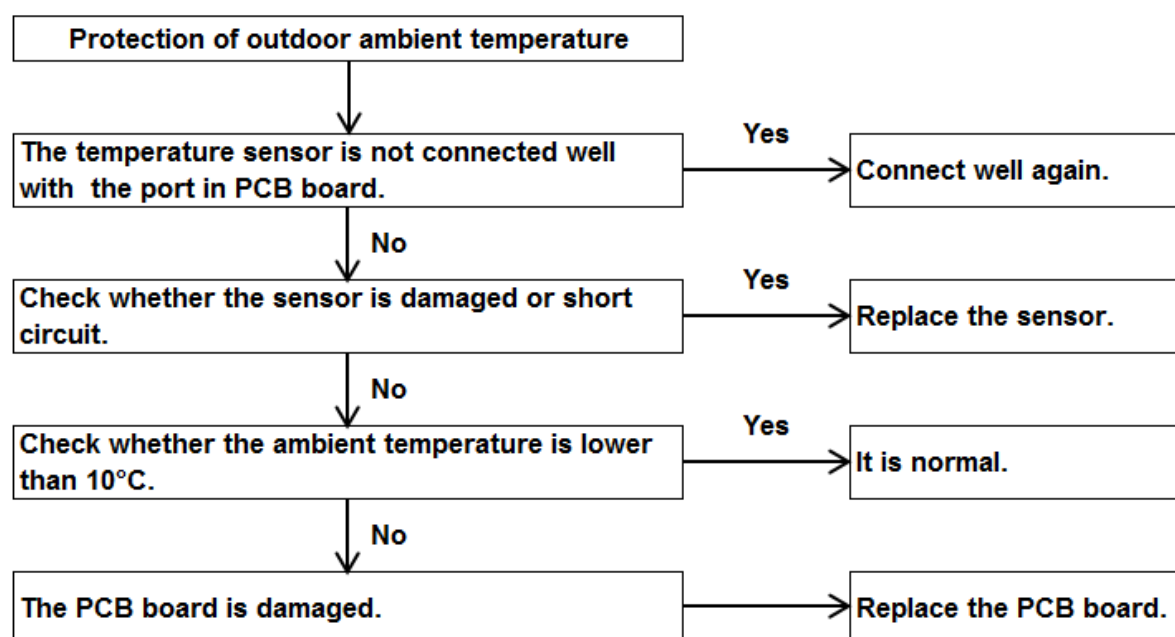
Over-current protection of indoor side fan motor :



Comprehensive protection of outdoor side fan motor :



High temperature protection of condenser :**Low temperature protection of evaporator:****Anti-freezing protection of evaporator :**

Protection of outdoor ambient temperature :

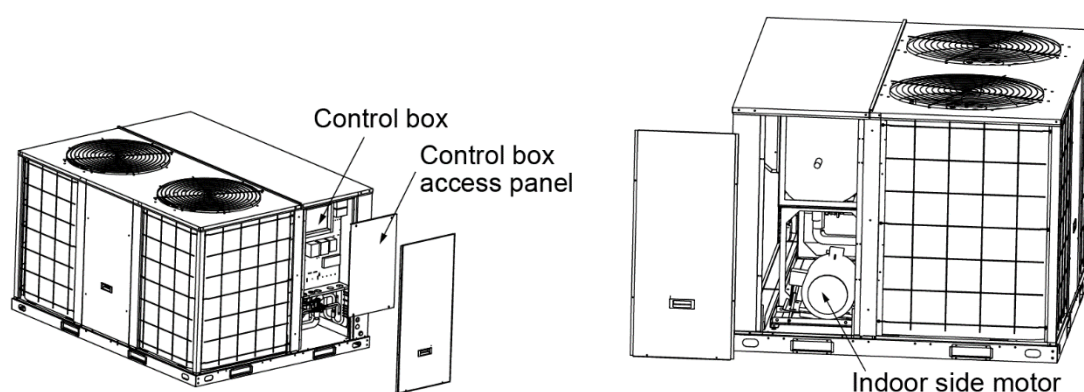
10. Maintenance

Caution

- ✧ Do not operate the unit without the evaporator fan access panel in place. Reinstall the access panel after performing any maintenance. Operating the unit without the access panel may result in severe personal injury.
- ✧ Disconnect the power supply before cleaning and maintenance.

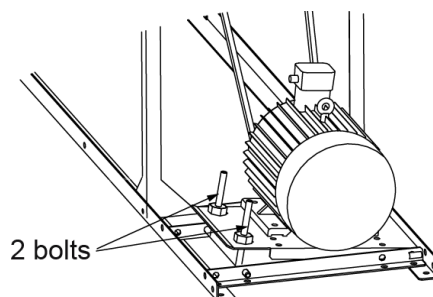
Regular maintenance

Some regular maintenance has been carry on by user. It includes: change the one-time dust filter, clean casing, wash condenser and replace a new belt, as well as do some test for the equipment.



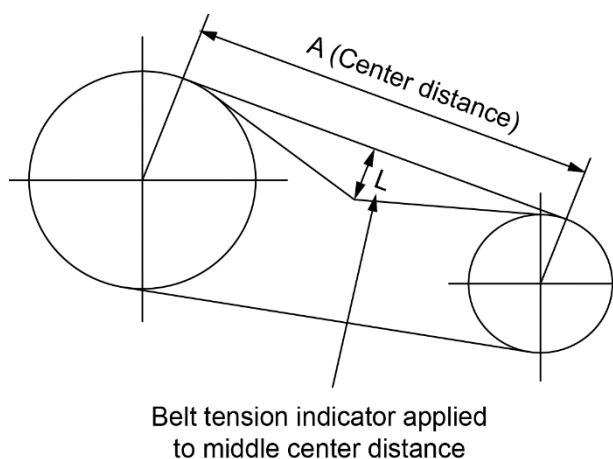
Regulating belt of tension

Refer to the following figure, loose 2 bolts, and move the electric motor to adjust belt tension. These two bolts are used for precision adjustment.



Belt tension is measured by belt tension indicator

- ✧ Calculate the deflection, deflection (L) = $A/64$.



Notes: $L=A/64$

Model	A (mm)
BAP111203CM	380
BAP111803CM	560
BAP102403CM	580
BAP103003CM	480
BAP103603CM	480

- ✧ Measure the belt deflection force, the force should be between the values shown in the following lists.
- ✧ The belt which is too tight or too loose may generate noise and be harmful to the unit.

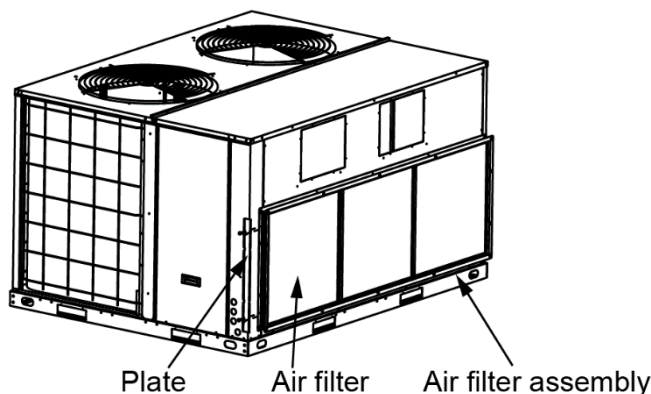
Belt section	For required to deflection		
	Small pulley diameter	Newton	Kilogram-force
SPA	80mm~132mm	25N~35N	2.5kg.f~3.6kg.f

Air intake filter clean (The filter should be customized).

Air intake filter should be customized as one individual packing, which is installed in site.

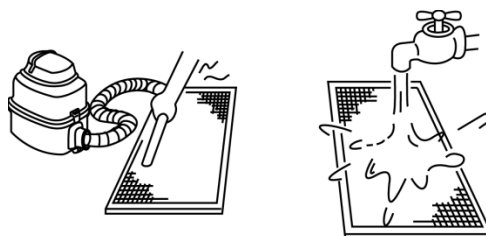
Step 1: Dismantle the air filter.

- ✧ Twist of screws and get out the plate.
- ✧ Pull out the filter along the supporting slot.



Step 2: Clean the air filter.

- ✧ Vacuum cleaner or fresh water may be used to clean the air filter. If the dust accumulated too much, please use soft brush and mild detergent to clean.
- ✧ The air-in side should face up when using vacuum cleaner.
- ✧ The air-in side should face down when using water.



- ✧ After cleaning, please dry out in cool place. Do not dry out the air filter under direct sunshine or heat.

Step 3: Re-install the air filter.

Condenser coil

Unfiltered air circulates through the unit's condenser coil can cause the coil's surface to become clogged with dust. Clean the coil, vertically (i.e., with the fins), and stroke the coil surface with a soft brush. Be sure to keep all vegetation away from the condenser coil area.

Periodic maintenance

To keep the unit operating safety and efficiently, the entire system should be checked at least once

each year. The examining the areas include:

- ✓ Filter;
- ✓ Motors and drive system components;
- ✓ Economizer gaskets (Reserved);
- ✓ Safety controls;
- ✓ Electrical components and wiring (For possible replacement and connection tightness);
- ✓ Condenser drainage (For cleaning);
- ✓ Unit duct connections (To check that they are physically sound and sealed to the unit casing);
- ✓ Unit mounting support (For structural integrity);
- ✓ The unit (For obvious unit deterioration).

Appendix: - Temperature sensor

Room / Pipe temperature sensor Resistance Valve (R25 = 10 kOhm $\pm$ 1%, B25/50 = 4100K $\pm$ 1%)

Temperature (°C)	R _{Max.} (KΩ)	R _{Nor.} (KΩ)	R _{Min.} (KΩ)	Temperature Tolerance (°C)	
0	35.630	34.840	34.064	-0.41	0.42
1	33.741	33.011	32.292	-0.40	0.42
2	31.963	31.288	30.624	-0.39	0.41
3	30.290	29.666	29.051	-0.38	0.40
4	28.714	28.137	27.569	-0.38	0.39
5	27.230	26.697	26.172	-0.37	0.39
6	25.831	25.339	24.853	-0.36	0.38
7	24.513	24.058	23.609	-0.36	0.37
8	23.270	22.850	22.435	-0.35	0.36
9	22.097	21.710	21.327	-0.34	0.36
10	20.991	20.633	20.279	-0.33	0.35
11	19.947	19.617	19.290	-0.32	0.34
12	18.961	18.656	18.355	-0.32	0.33
13	18.030	17.749	17.471	-0.31	0.32
14	17.150	16.891	16.635	-0.30	0.32
15	16.318	16.080	15.844	-0.29	0.31
16	15.532	15.313	15.095	-0.29	0.30
17	14.788	14.587	14.386	-0.28	0.29
18	14.085	13.899	13.715	-0.27	0.28
19	13.419	13.249	13.079	-0.26	0.27
20	12.789	12.632	12.477	-0.25	0.27
21	12.191	12.048	11.906	-0.25	0.26
22	11.626	11.495	11.364	-0.24	0.25
23	11.090	10.970	10.850	-0.23	0.24

Continued:

Temperature (°C)	R _{Max.} (KΩ)	R _{Nor.} (KΩ)	R _{Min.} (KΩ)	Temperature Tolerance (°C)	
24	10.582	10.472	10.363	-0.22	0.23
25	10.100	10.000	9.9000	-0.21	0.22
26	9.6518	9.5519	9.4520	-0.22	0.23
27	9.2262	9.1265	9.0270	-0.23	0.25
28	8.8218	8.7226	8.6235	-0.25	0.26
29	8.4376	8.3389	8.2405	-0.26	0.27
30	8.0723	7.9743	7.8767	-0.27	0.28
31	7.7250	7.6279	7.5312	-0.28	0.29
32	7.3947	7.2985	7.2028	-0.29	0.31
33	7.0805	6.9853	6.8906	-0.30	0.32
34	6.7814	6.6873	6.5939	-0.32	0.33
35	6.4968	6.4038	6.3116	-0.33	0.34
36	6.2257	6.1340	6.0431	-0.34	0.35
37	5.9676	5.8772	5.7875	-0.35	0.37
38	5.7216	5.6326	5.5443	-0.36	0.38
39	5.4873	5.3996	5.3127	-0.38	0.39
40	5.2639	5.1776	5.0922	-0.39	0.40
41	5.0509	4.9660	4.8821	-0.40	0.42
42	4.8478	4.7644	4.6819	-0.41	0.43
43	4.6541	4.5721	4.4911	-0.43	0.44
44	4.4692	4.3887	4.3092	-0.44	0.45
45	4.2928	4.2137	4.1357	-0.45	0.47
46	4.1244	4.0468	3.9702	-0.46	0.48
47	3.9636	3.8874	3.8123	-0.48	0.49
48	3.8100	3.7353	3.6617	-0.49	0.51

Continued:

Temperature (°C)	R _{Max.} (KΩ)	R _{Nor.} (KΩ)	R _{Min.} (KΩ)	Temperature Tolerance (°C)	
49	3.6632	3.5900	3.5179	-0.50	0.52
50	3.5230	3.4512	3.3805	-0.52	0.53
51	3.3890	3.3186	3.2494	-0.53	0.55
52	3.2608	3.1919	3.1241	-0.54	0.56
53	3.1383	3.0708	3.0044	-0.56	0.57
54	3.0211	2.9550	2.8900	-0.57	0.59
55	2.9090	2.8442	2.7806	-0.58	0.60
56	2.8017	2.7382	2.6760	-0.60	0.61
57	2.6990	2.6369	2.5759	-0.61	0.63
58	2.6006	2.5398	2.4802	-0.63	0.64
59	2.5064	2.4469	2.3886	-0.64	0.66
60	2.4162	2.3580	2.3009	-0.65	0.67
61	2.3298	2.2728	2.2170	-0.67	0.68
62	2.2470	2.1912	2.1366	-0.68	0.70
63	2.1676	2.1130	2.0596	-0.70	0.71
64	2.0914	2.0381	1.9858	-0.71	0.73
65	2.0184	1.9662	1.9151	-0.73	0.74
66	1.9484	1.8973	1.8474	-0.74	0.76
67	1.8812	1.8312	1.7824	-0.76	0.77
68	1.8167	1.7678	1.7201	-0.77	0.78
69	1.7548	1.7070	1.6603	-0.79	0.80
70	1.6954	1.6486	1.6029	-0.80	0.81

Part. 4 Controller

1. Wired controller: KJR-12B	97
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1. Wired controller: KJR-12B

KJR-12B has been removed from the market and can be replaced with KJR-29B

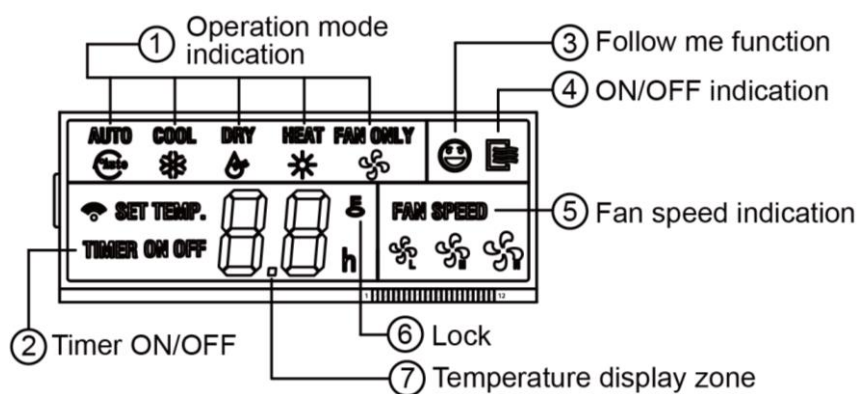


KJR-12B/dP(T)-E

1.1 Wired controller specifications

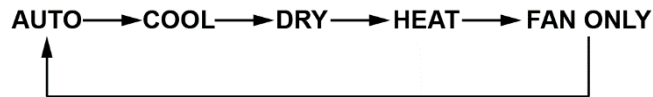
Model	KJR-12B/dP(T)-E
Power supply	5.0V DC
Operation temperature	-15°C~43°C
Operation humidity	40%~90% RH

1.2 Introduction of indicators function



1. Operation mode indication:

When press 'MODE' button, the following mode can be selected in circle.



For cooling only model, the indicator '**HEAT**' is skipped.

2. Timer ON/OFF

When adjust setting on time or only on time is set, the indicator '**ON**' is lighted.

When adjust setting off time or only off time is set, the indicator '**OFF**' is lighted.

If timer-on and timer-off timer both set, the indicators '**ON**' and '**OFF**' will be both lighted.

3. Follow me function

There is a temperature sensor inside the wired controller, after setting temperature; the detected temperature by this sensor will be compared with setting temperature. The space of wired controller will be same as the setting temperature.

It is available under cooling, heating and auto mode.

4. ON/OFF indication

When it is on, the icon will be displayed, otherwise it is extinguished.

5. Fan speed indication (For rooftop packages, it is not available.)

There are four fan modes: low, medium, high and auto. For some models, there is not medium fan speed, and the medium fan speed is seen as high speed.

6. LOCK

When the '**LOCK**' button is pressed, the icon will be displayed and other button is unable.

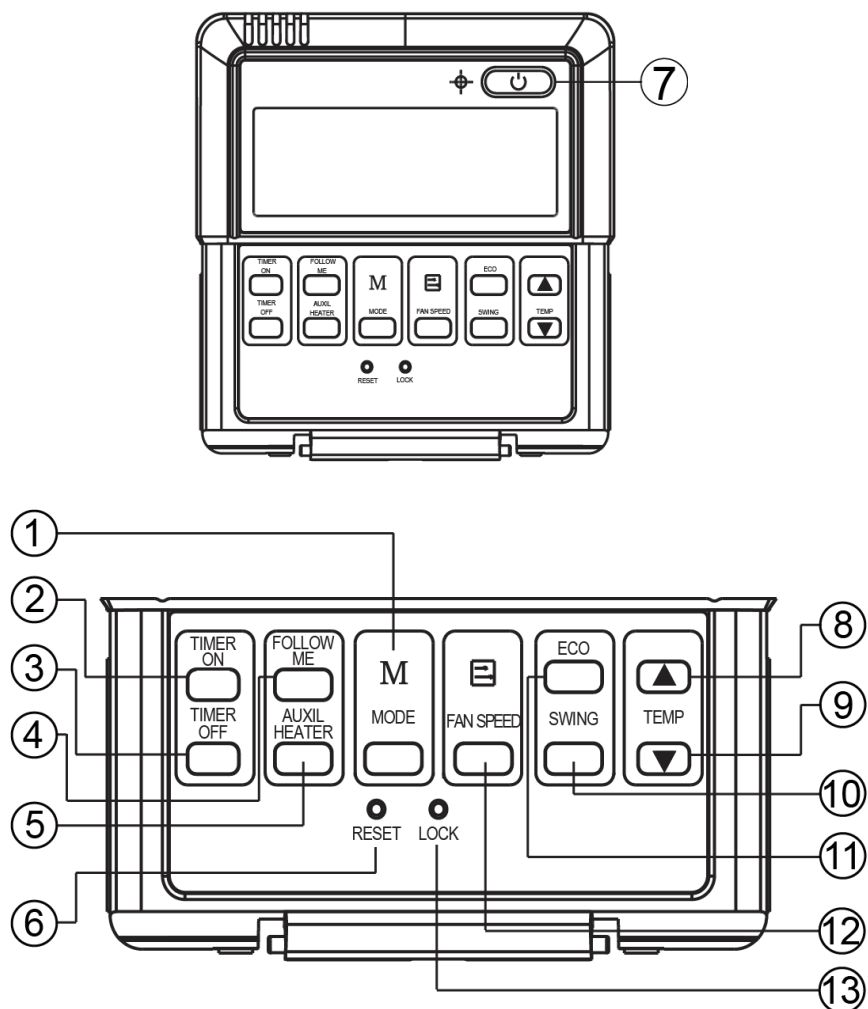
Press the '**LOCK**' again, the icon will be extinguished.

7. Temperature display zone

Generally it displays setting temperature, it can be adjusted by press temperature button

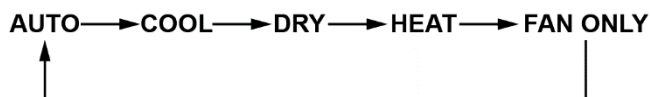
▲ and ▼. But in fan only mode, the temperature display zone will be blank.

1.3 Introduction of buttons



1. **Mode** button:

When press this button, the operation mode changes as the following sequence:



But for the cooling only model, the heating mode is skipped.

2. **TIMER ON** button:

Press this button, timer-on function is active. Then every press, the time will increase 0.5h, after 10 hours, increase by 1 hour for each press. If cancel this function, just set it to **0.0**.

3. Timer off button:

Press this button, timer-off function is active. Then every press, the time will increase 0.5h, after 10 hours, increase by 1 hour for each press. If cancel this function, just set it to

0.0

4. FOLLOW ME button:

When under cool, heat and auto mode, and press this button, follow me function is active.

Press again, this function is ineffective.

5. AUXIL HEATER button: (Only available for Cooling only with EHK model.)

If press this button in heat mode, electrical heater function become ineffective.

6. RESET button: (Hidden)

Use a 1 mm stick to press in the little hole, then the current setting is canceled. The wired controller enters into original state.

7. ON/OFF button

When in off state, press this button, the indicator is on, the wired controller enters into on state, and send setting information to main PCB board. When in on state, press this button, the indicator is off, and send instruction. If timer-on or timer-off has been set, it cancels this setting then sends instruction to stop the machine.

8. TEMP ▲ adjust button:

Set indoor temperature up. If press and hold on, it will increase at 1°C (2°F) per 0.5 second.

9. TEMP ▼ adjust button:

Set indoor temperature up. If press and hold on, it will decrease at 1°C (2°F) per 0.5 second.

10. SWING button: (Reserved)

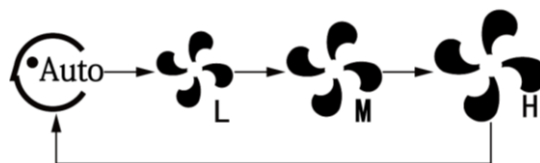
First press, then start swing function; after second press, stop swing.

11. ECO button: (Economy operation, Reserved)

Press this button, and then the unit will operate in economy mode. Press again, this mode can be exited.

12. FAN SPEED button: (For rooftop packages, it is not available.)

When press this button consecutively, and then the indoor side fan speed will circles as following:



13. **LOCK** button: (Hidden)

When push the **LOCK** button, all current settings are locked in and the wired controller does not accept any instruction except that of the **LOCK** button. Use the lock mode when want to prevent setting from being changed accidentally or play fully. Push the **LOCK** button again when want to cancel the lock mode.

1.4 Operation

Automatic operation

Connect to the power supply, and the operation lamp in main PCB board will flash.

Step 1: Press **MODE** button, and select **AUTO** icon.

Step 2: Press the button ▲ and ▼, set temperature as requirement; generally it is among from 17°C to 30°C.

Step 3: Press **ON/OFF** button, operation lamp is on, the unit can be worked in auto mode, and indoor side fan speed is auto, and cannot be changed. Auto is displayed on LCD. Press it again to stop.

Notes: Economy operation is valid in auto mode.

Cool / Heat / Fan only mode operation

Step 1: Press **MODE** button, and select **COOL**, or **HEAT**, or **FAN ONLY** icon.

Step 2: Press temperature adjust button to select setting temperature.

Step 3: Press **FAN SPEED** button to select high, medium, low or auto. (For rooftop packages, it is not available.)

Step 4: Press **ON/OFF** button, indoor unit operation lamp on, it works in selected mode. Press **ON/OFF** button again, it stops to work.

Notes: In fan only mode, temperature cannot be set.

Dry operation

Step 1: Press **MODE** button, select **DRY** icon.

Step 2: Press temperature adjust button to select setting temperature.

Step 3: Press **ON/OFF** button, indoor unit operation lamp on, it works in dry mode. Press **ON/OFF** button again, it stops to work.

Notes: Under dry mode, economy operation and fan speed adjustment are ineffective.

Timer setting

The timer time is relative time, and that is delay after setting time. So when timer is set, the standard time cannot be adjusted.

Timer setting – Timer on only

Step 1: Press **TIME ON** button, it display **SET** on LCD screen, and display **H** and **ON**, it is waiting for timer on setting.

Step 2: Press **TIMER ON** button repeatedly to adjust time setting.

Step 3: If press this button and hold on, the time will increase at 0.5h, after 10 hours, it increase at 1 hour.

Step 4: After setting 0.5 second, the wired controller sends timer-on information to the unit, it is finished.

Timer setting – Timer off only

Step 1: Press **TIME OFF** button, it display **SET** on LCD screen, and display **H** and **OFF**, it is waiting for timer on setting.

Step 2: Press **TIMER OFF** button repeatedly to adjust time setting.

Step 3: If press this button and hold on, the time will increase at 0.5h, after 10 hours, it increase at 1 hour.

Step 4: After setting 0.5 second, the wired controller sends timer-on information to the unit, it is finished.

Timer-on and timer-off both

Step 1: Set timer-on time as the corresponding step 1 and step 2.

Step 2: Set timer-off time as the corresponding step 1 and step 2.

Notes: Timer-off time must be longer than timer-on time.

Step 3: 0.5 second after setting, the wired controller send information to the unit. And the setting is finished.

Change timer

When need to change timer time, press corresponding button to revise it. If cancel timer, please change timer time to **00**.

1.5 Installation of wired controller

Caution

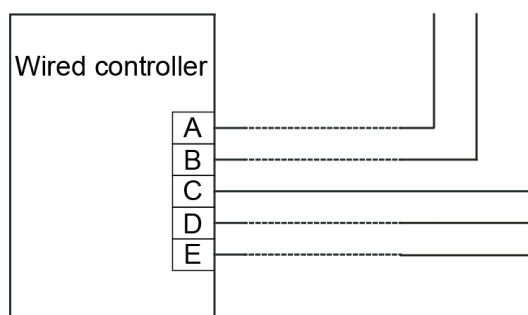
- ✧ Do not install it in a place where combustible gas easily leaks. Once combustible gas leaks and remains around wired controller, fire may be cause. Do not install it in a place with oil, steam or sulphur gas, or else deform or malfunction may occur.
- ✧ Wires must be suitable for the current of the wired controller. Otherwise, electricity leakage or heating may be caused, which may result in fire.
- ✧ Install the wire joint (5P) to the appointed position of the electric controlling box.
- ✧ Circuit of wired controller is low voltage circuit, and never connected with a standard 220V or 380V circuit. Also do not put it into a same wiring tube, and the interval must be more than 300~ 500mm.
- ✧ The shield cable must be connected stable to the ground, otherwise transmission may fail.
- ✧ Wire must be suitable for wired controller, never bring outside force to bear on the terminal.
- ✧ Do not to attempt to extend the shield cable by cutting. If it is necessary, please use terminal connection block to connect.

Accessories

Item	Quantity	Remarks
Wired controller	1	\
Wood mounting screw	3	M4×20 (For mounting on the wall)
Mounting screw	3	M4×25 (For mounting on the electrical switch box)
Installation manual	1	\
Owner's manual	1	\
5P terminal group	\	\
Installation screw	\	For fixing terminal.

Preparing at site

Item	Quantity	Remarks
5-core shield cable	1	RVVP-05mm ² ×5. The longest wire is 30m.
Switch box	1	\
Wiring tube	1	Insulating sleeve and tightening screw.

Wiring principle

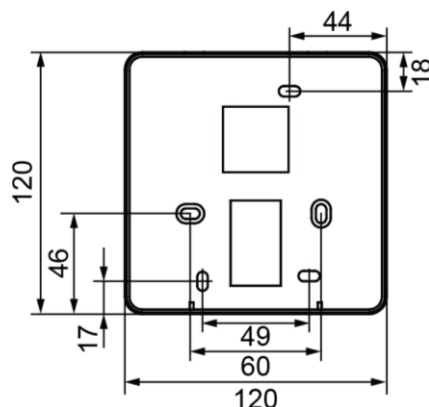
When it is necessary to use the wired controller, please follow the label of A/B/C/D/E to connect the wired controller. And the other side of the signal wire should be connected with main PCB board well. A is anode, and B is cathode. C is +5V. D is GND and E is RUN.

Installation:

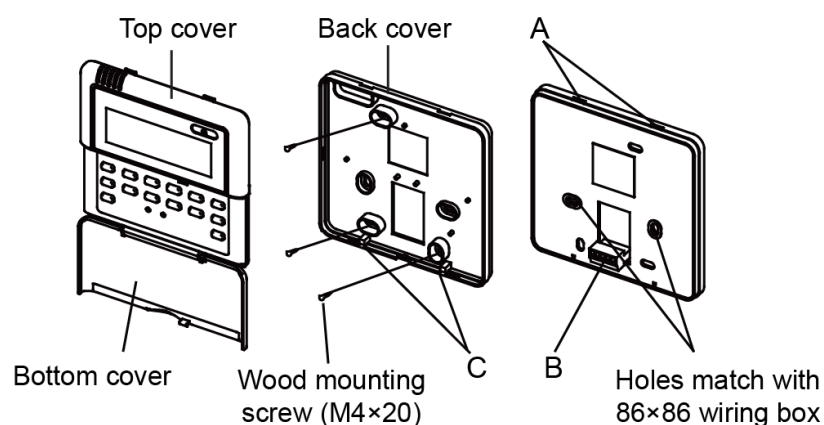
Confirm the installed location of wired controller, before install the wired controller. If install it

on the wall without electric switch box, the hole for 5P-terminal of wired controller is necessary.

Dimension of rear cover as following picture (Unit: mm):



Installation figure as following:



A: Turn a screwdriver at the concave on bottom panel of the wired controller to remove the back cover.

B: When installing the wired controller cover, it is sure that there is a hole in the wall to avoid the wired controller back cover being fixed directly to the wall which is not allowed for the wire joint extrudes out of the back cover.

C: When installing the wired controller, adjust the bottom of the controller board to the back cover which should be fixed first, then press the other end of the controller board.

Notes: The connecting wire should be a little longer as to take away the switch board and controller easily for maintenance.