DAIKIN

Options and Accessories Technical Data

BS-Q14AV1B



> BS4Q14AV1B
> BS6Q14AV1B
> BS8Q14AV1B
> BS10Q14AV1B
> BS12Q14AV1B
> BS16Q14AV1B

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BS-Q14AV1B

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1 Features

- Unique range of single and multi BS boxes for flexible and fast design
- Major reduction in installation time thanks to wide range, compact size and light weight multi BS boxes
- Up to 70% smaller and 66% lighter than previous series
- Faster installation thanks to a reduced number of brazing points and wiring
- All indoor units connectable to one BS box
- Less inspection ports needed compared to installing single BS boxes
- Up to 16kW capacity available per port
- Connect up to 250 class unit (28kW) by combining 2 ports
- No limit on unused ports allowing phased installation
- Faster installation thanks to open port connection
- Allows multi tenant applications
- Connectable to REYQ-T, RQCEQ-P3 and RWEYQ-T8 heat recovery units



2 Specifications

2-1 Technical Specifications					BS4Q14AV1B	BS6Q14AV1B	BS8Q14AV1B	BS10Q14AV1B	BS12Q14AV1B	BS16Q14AV1B
Maximum number of connectable indoor units					20	30	40	50	60	64
Maximum number of connectable indoor units per branch					5					
Number of branches					4	6	8	10	12	16
Maximum capacity index of connectable indoor units					400	600	750			
Maximum capacity index of connectable indoor units per branch					140					
Dimensions	Unit	Height/Width/Depth		mm	298/370/430	298/580/430		298/820/430		298/1,060/430
Weight	Unit			kg	17.0	24.0	26.0	35.0	38.0	50.0
Casing	Material				Galvanised steel plate					
Piping connections	Outdoor unit	Liquid	OD	mm	9.5	12.7	12.7 / 15.9 (1)	15.9	15.9 / 19.1 (1)	19.1
		Gas	OD	mm	22.2 / 19.1 (1)	28.6 / 22.2 (1)	28.6	28.6 / 34.9 (1)		34.9
		Discharge gas	OD	mm	19.1 / 15.9 (1)	19.1 / 22.2 (1)	19.1 / 22.2 (1) / 28.6 (1)	28.6		
	Indoor unit	Liquid	OD	mm	6.4 (2) / 9.5 (3)					
		Gas	OD	mm	12.7 (2) / 15.9 (3)					
Sound absorbing thermal insulation					Urethane foam, polyethylene foam					
PED					art. 4.3					
MCA (Minimum Circuit Amps)				A	-	-	-	-	-	-

Standard Accessories : Accessory pipe; Quantity : 1;

Standard Accessories : Clamps; Quantity : 1;

Standard Accessories : Insulation tube; Quantity : 1;

Standard Accessories : Metal clamp for drain hose; Quantity : 1;

Standard Accessories : Sealing material; Quantity : 1;

Standard Accessories : Stopper pipes; Quantity : 1;

Standard Accessories : Insulation tube for stopper pipes; Quantity : 1;

2-2 Electrical Specifications			BS4Q14AV1B	BS6Q14AV1B	BS8Q14AV1B	BS10Q14AV1B	BS12Q14AV1B	BS16Q14AV1B
Power supply	Phase		1~					
	Frequency	Hz	50					
	Voltage	V	220-440					
MCA (Minimum Circuit Amps)		A	-	-	-	-	-	-

Notes

(1) Diameter when using the attached reducer. If the joint does not fit, a reducer is requested (field supply).

(2) When connecting indoor units smaller or equal to 50 class (no need to cut the outlet pipe)

(3) When connecting indoor units larger or equal to 63 class (the outlet pipe needs to be cut)

Insulators are necessary (field supply) for the triple piping side

Maximum allowable voltage range variation between phases is 2%.

MCA/MFA: MCA = 1.25 x FLA

MFA ≤ 4 x FLA

Next lower standard fuse rating minimum 15A

Select wire size based on the value of MCA

Voltage range: units are suitable for use on electrical systems where voltage supplied to unit terminal is not below or above listed range limits.

Instead of a fuse, use a circuit breaker

3 Safety device settings

3 - 1 Safety Device Settings

BS-Q14AV1B

MODEL	Safety devices
	PC board fuse
BS4Q14A	250V 3.15A
BS6Q14A	250V 3.15A
BS8Q14A	250V 3.15A
BS10Q14A	250V 3.15A
BS12Q14A	250V 3.15A
BS16Q14A	250V 3.15A

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4 Options

4 - 1 Options

BS-Q14AV1B

Option name	BS4Q14AV1B	BS6Q14AV1B	BS8Q14AV1B	BS10Q14AV1B	BS12Q14AV1B	BS16Q14AV1B
Closed pipe kit	KHFP26A100C					
Joint kit	KHRP26A250T					
Quiet kit	KDDN26A4	KDDN26A8		KDDN26A12		KDDN26A16
External control adapter for outdoor units	-					
Adapter for multi tenant	-					

NOTES

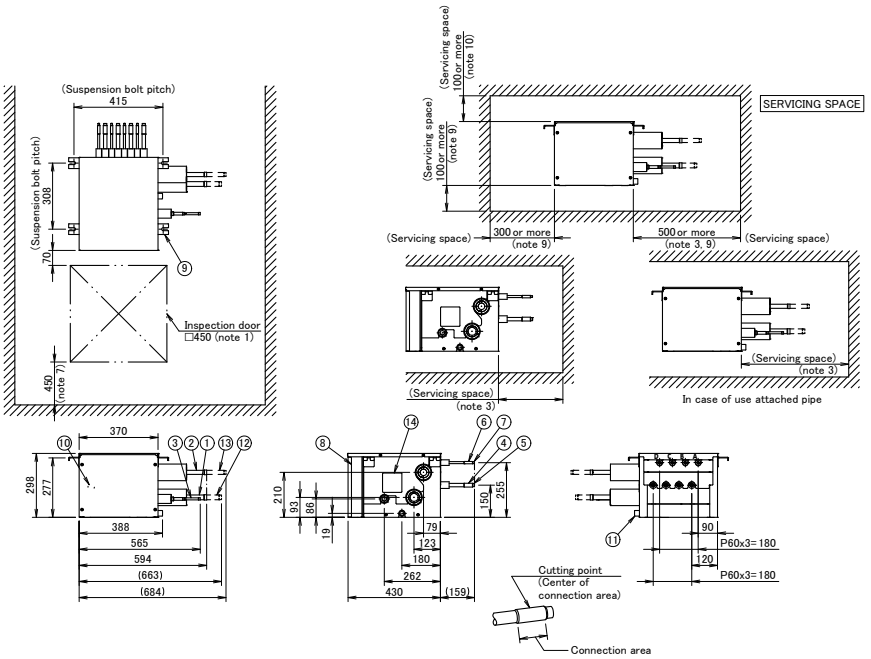
1. Revision mark should be te latest.

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5 Dimensional drawings

5 - 1 Dimensional Drawings

BS4Q14AV1B



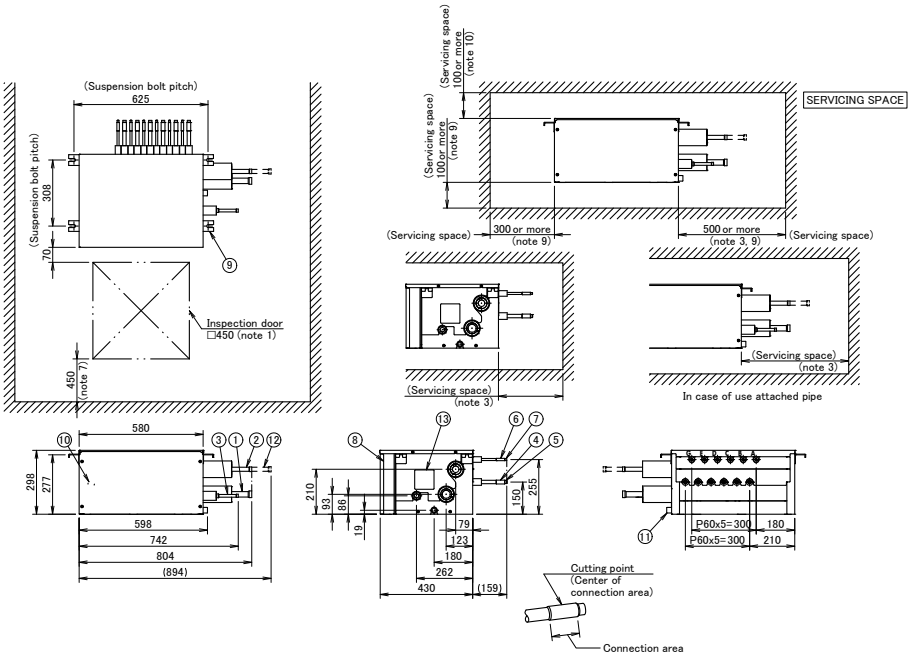
NOTES:

1. BE SURE TO INSTALL AN INSPECTION DOOR AT ELECTRIC BOX SIDE.
   ANOTHER DOOR IS NECESSARY TO UNLOAD THE PRODUCT.
2. - INSTALL THE BS BOX ON A LOCATION WHERE THE REFRIGERANT NOISE
     CANNOT DISTURBE THE ROOM OCCUPANTS.
   - TO AVOID THAT REFRIGERANT NOISE DISTURBS THE PEOPLE IN THE ROOM,
     KEEP AT LEAST 5m PIPING BETWEEN THE OCCUPIED ROOM AND THE BS BOX.
   - IF THERE IS NO FALSE CEILING AT THE ROOM, PLEASE ADD SOUND INSULATION
     AROUND THE PIPING BETWEEN BS BOX AND INDOOR UNIT, OR KEEP MUCH LONGER LENGTH
     BETWEEN BS BOX AND OCCUPIED ROOM.
3. OCCUPY THE SPACE WHICH IS POSSIBLE TO INSTALL FIELD PIPES.
4. IN CASE OF CONNECTION WITH A 20~50 TYPE INDOOR UNIT,
   THERE IS NO NEED TO CUT AND CONNECT AS IT IS.
   IN CASE OF OTHERS, CUT THE OUTLET PIPE AND CONNECT TO THE CONNECTING PIPE. REFER TO FIGURE ABOVE.
5. REDUCER MAY BE REQUIRED (FIELD SUPPLY) IF JOINT DIAMETER DOES NOT SUIT ON THE TRIPLE PIPING SIDE.
6. INSULATORS ARE NECESSARY (FIELD SUPPLY) FOR THE TRIPLE PIPING SIDE.
7. THIS SPACE IS A SPACE TO KEEP A TOP PANEL WHEN SERVICING.
8. INSTALL IT IN A SPACE WHICH CAN BE SECURED DOWNWARDS SLOPE OF 1/100 OR MORE.
9. IT IS A SPACE FOR REMOVING THE DRAIN PAN.
10. THIS IS A SPACE FOR REMOVING A TOP PANEL WHEN SERVICING.

NUMBER	PART NAME	REMARK
1	OUTDOOR UNIT SUCTION GAS PIPE CONNECTION PORT (NOTE 5, 6)	Ø22.2mm BRAZING CONNECTION
2	OUTDOOR UNIT HP/LP GAS PIPE CONNECTION PORT (NOTE 5, 6)	Ø19.1mm BRAZING CONNECTION
3	OUTDOOR UNIT LIQUID PIPE CONNECTION PORT (NOTE 5, 6)	Ø9.5mm BRAZING CONNECTION
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7	INDOOR UNIT LIQUID PIPE CONNECTION PORT (NOTE 4)	Ø6.4mm BRAZING CONNECTION
8	ELECTRIC BOX (NOTE 1)	
9	SUSPENSION BRACKETS	M8~M10
10	GROUNDING TERMINAL	M4
11	SOCKET FOR DRAIN	VP20 (O.D.Ø26mm / I.D.Ø20mm)
12	ATTACHED PIPE (NOTE 5, 6)	Ø19.1mm BRAZING CONNECTION
13	ATTACHED PIPE (NOTE 5, 6)	Ø15.9mm BRAZING CONNECTION
14	INSPECTION HOLE	

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NOTES:

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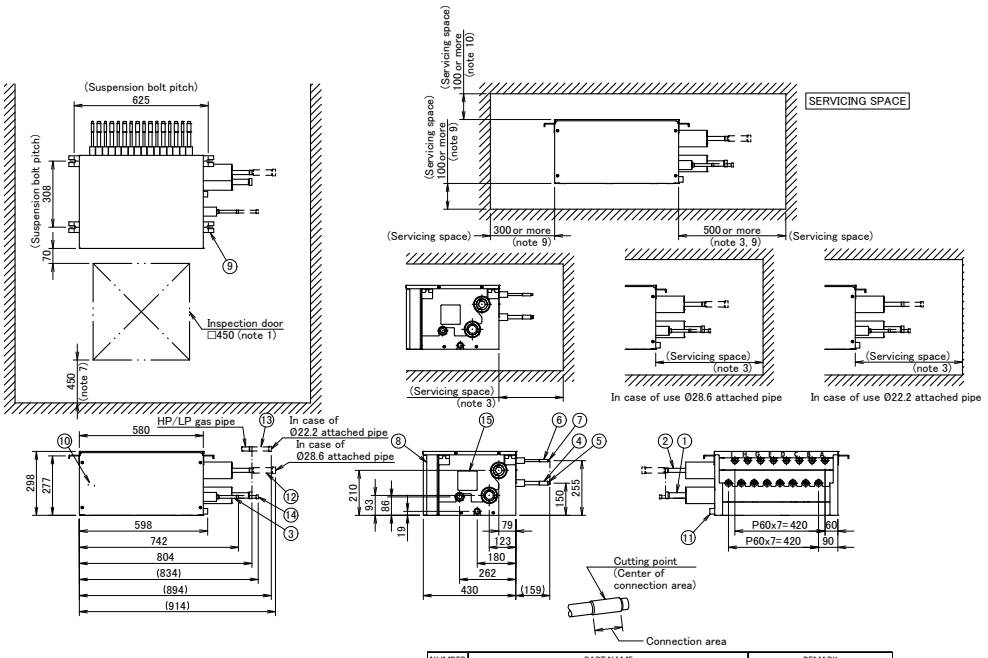
NUMBER	PART NAME	REMARK
1	OUTDOOR UNIT SUCTION GAS PIPE CONNECTION PORT (NOTE 5, 6)	Ø28.6mm BRAZING CONNECTION
2	OUTDOOR UNIT HP/LP GAS PIPE CONNECTION PORT (NOTE 5, 6)	Ø19.1mm BRAZING CONNECTION
3	OUTDOOR UNIT LIQUID PIPE CONNECTION PORT (NOTE 5, 6)	Ø12.7mm BRAZING CONNECTION
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8	ELECTRIC BOX (NOTE 1)	
9	SUSPENSION BRACKETS	M8~M10
10	GROUNDING TERMINAL	M4
11	SOCKET FOR DRAIN	VP20 (O.D.Ø26mm / I.D.Ø20mm)
12	ATTACHED PIPE (NOTE 5, 6)	Ø22.2mm BRAZING CONNECTION
13	INSPECTION HOLE	

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5 Dimensional drawings

5 - 1 Dimensional Drawings

BS8Q14AV1B



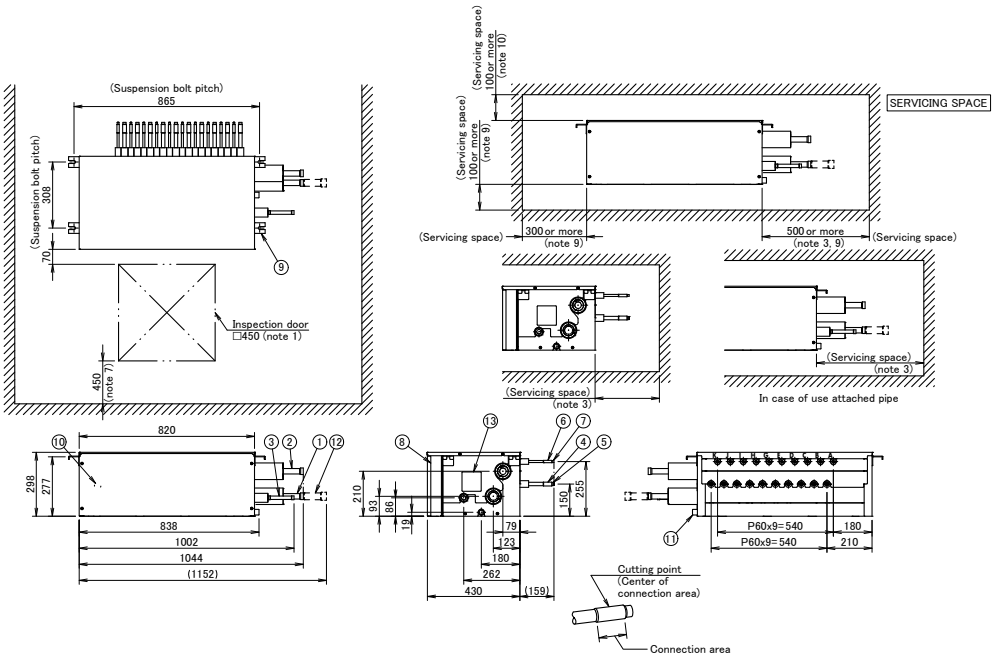
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13	ATTACHED PIPE (NOTE 5, 6)	Ø22.2mm BRAZING CONNECTION
14	ATTACHED PIPE (NOTE 5, 6)	Ø15.9mm BRAZING CONNECTION
15	INSPECTION HOLE	

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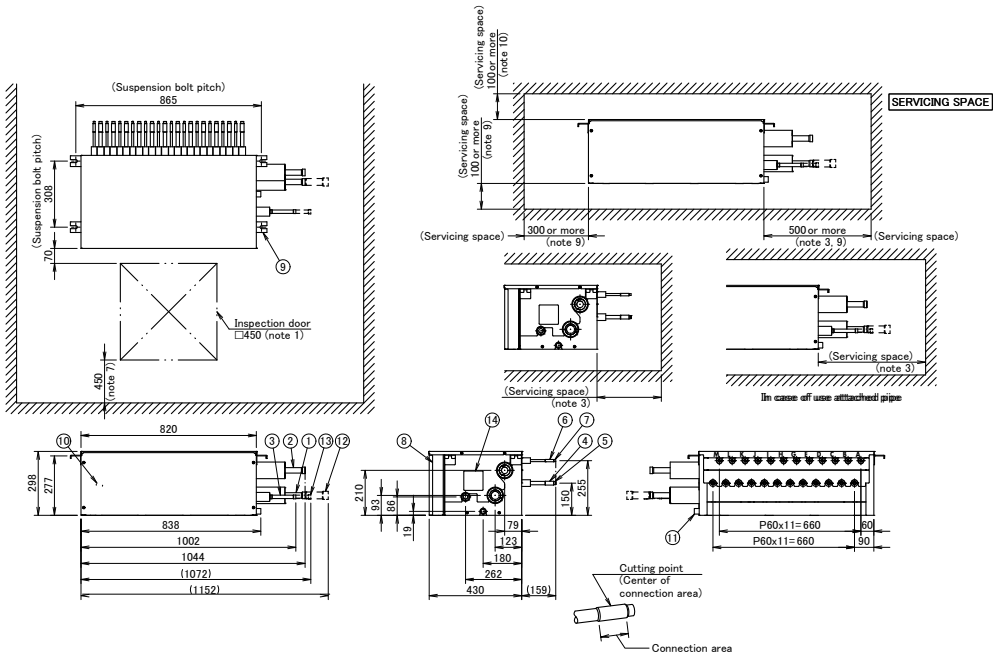
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10	GROUNDING TERMINAL	M4
11	SOCKET FOR DRAIN	VP20 (O.D.Ø26mm / I.D.Ø20mm)
12	ATTACHED PIPE (NOTE 5, 6)	Ø34.9mm BRAZING CONNECTION
13	INSPECTION HOLE	

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5 Dimensional drawings

5 - 1 Dimensional Drawings

BS12Q14AV1B



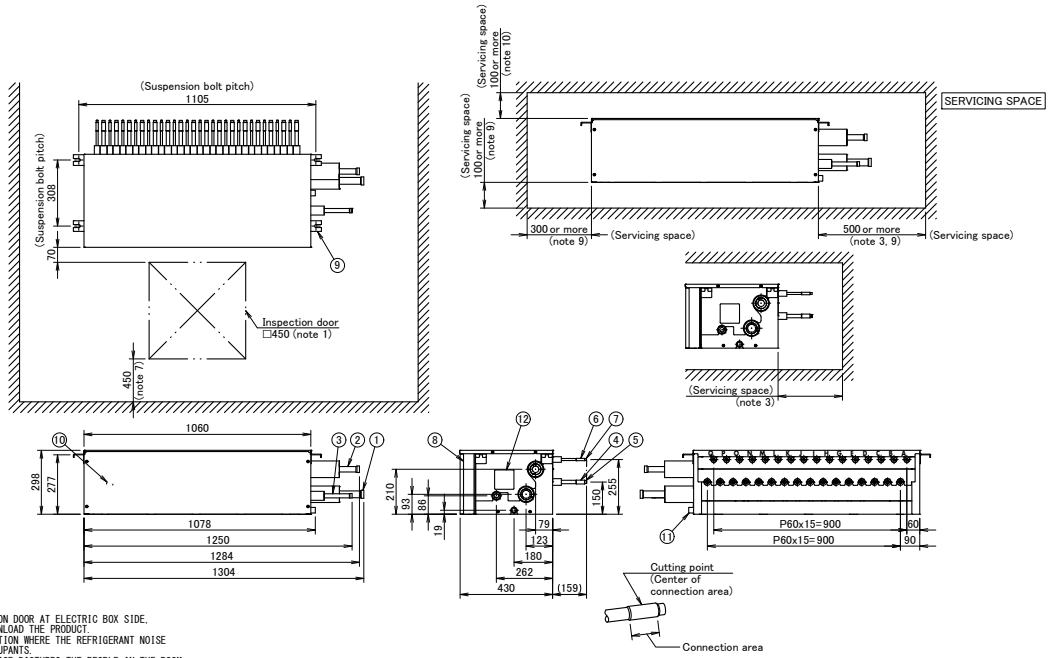
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9	SUSPENSION BRACKETS	M8~M10
10	GROUNDING TERMINAL	M4
11	SOCKET FOR DRAIN	VP20 (O.D.Ø26mm / I.D.Ø20mm)
12	ATTACHED PIPE (NOTE 5, 6)	Ø34.9mm BRAZING CONNECTION
13	ATTACHED PIPE (NOTE 5, 6)	Ø19.1mm BRAZING CONNECTION
14	INSPECTION HOLE	

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BS16Q14AV1B



NOTES:

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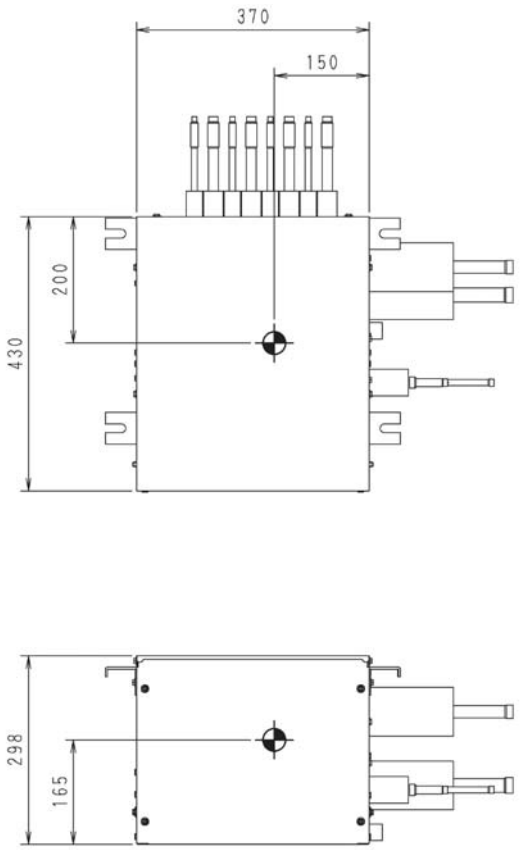
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8	ELECTRIC BOX (NOTE 1)	
9	SUSPENSION BRACKETS	M8~M10
10	GROUNDING TERMINAL	M4
11	SOCKET FOR DRAIN	VP20 (O.D.Ø26mm / I.D.Ø20mm)
12	INSPECTION HOLE	

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6 Centre of gravity

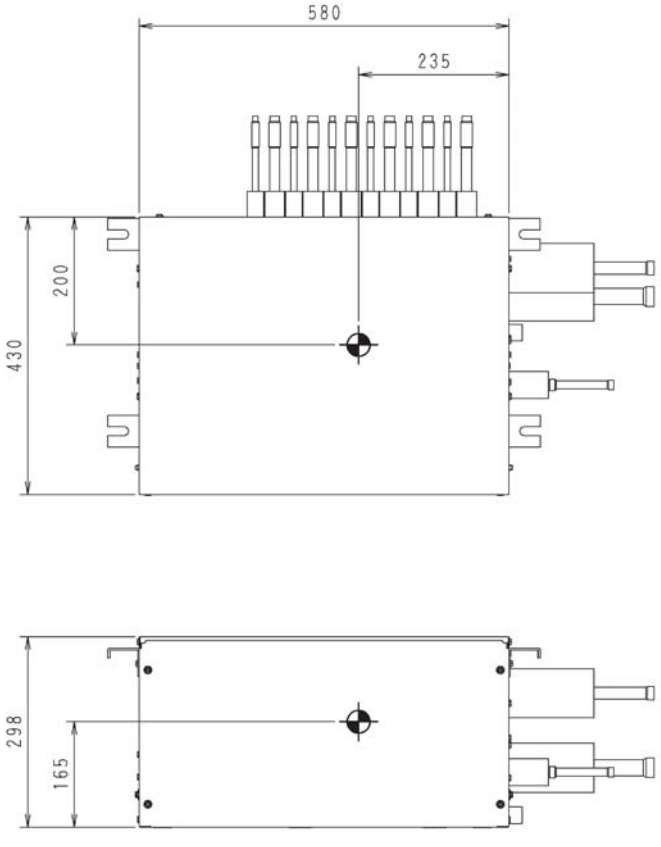
6 - 1 Centre of Gravity

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BS6Q14AV1B

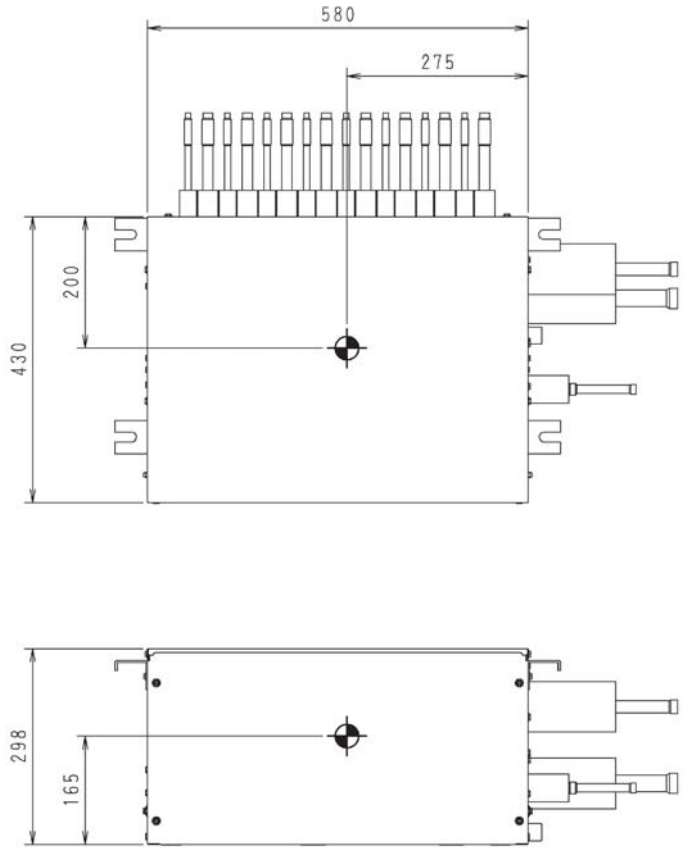


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6 Centre of gravity

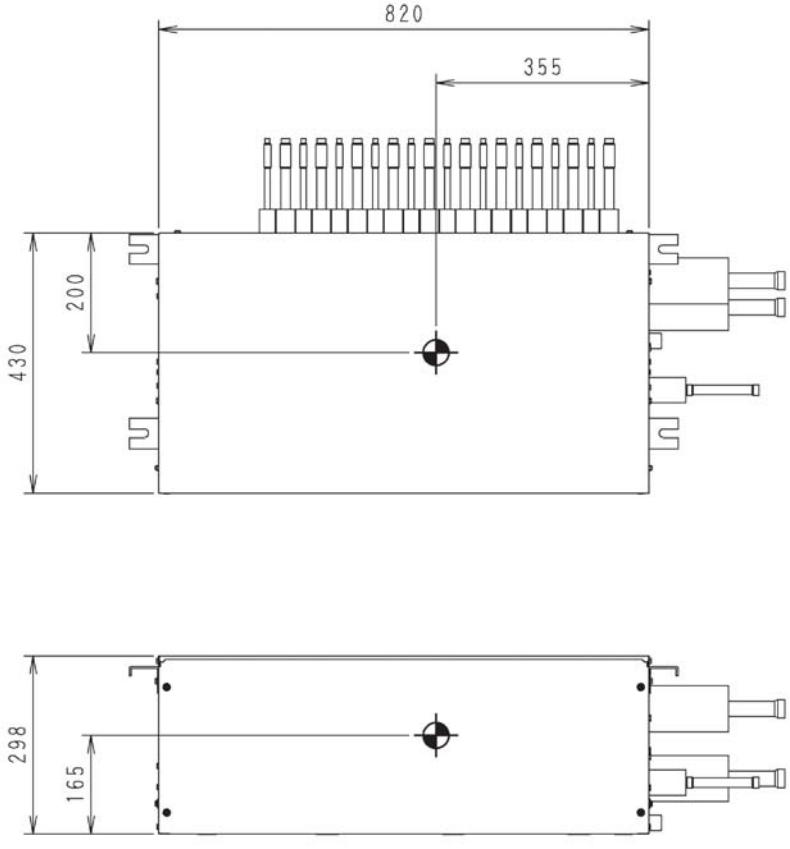
6 - 1 Centre of Gravity

BS8Q14AV1B



4D086048

BS10Q14AV1B

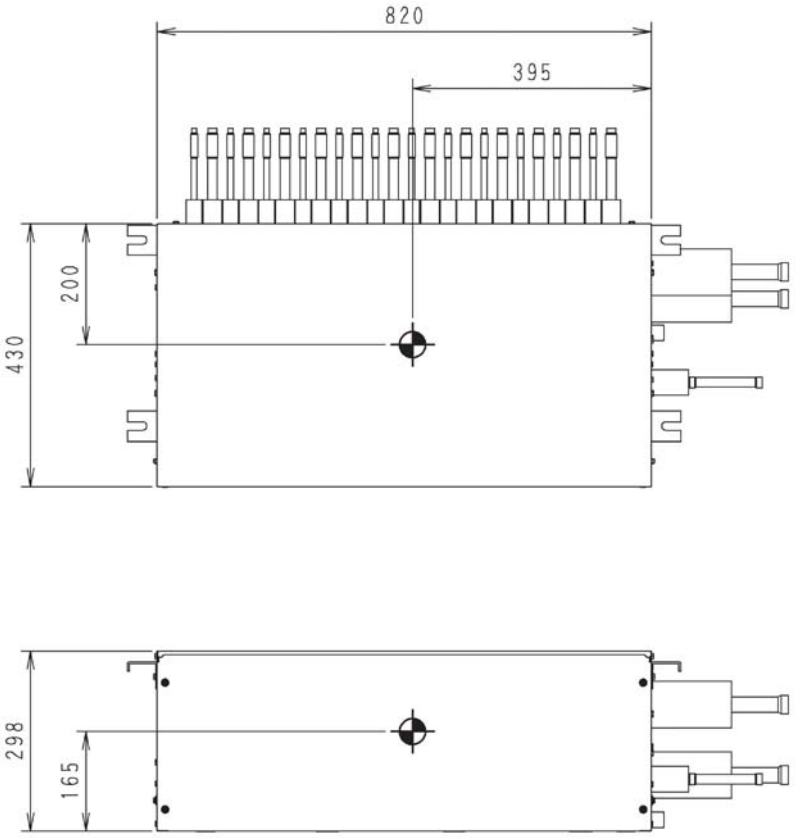


4D086049

6 Centre of gravity

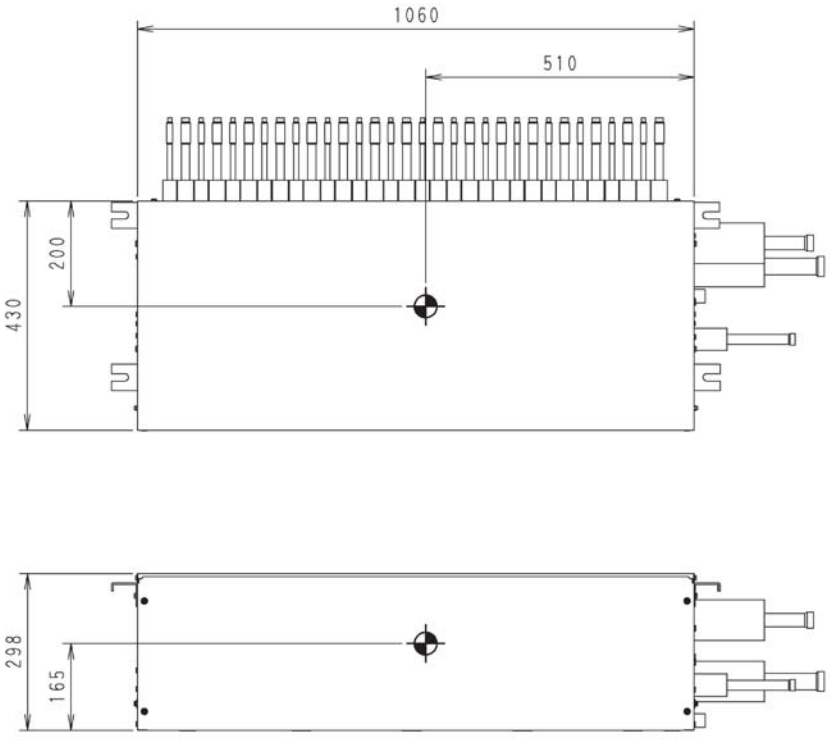
6 - 1 Centre of Gravity

BS12Q14AV1B



4D086050

BS16Q14AV1B

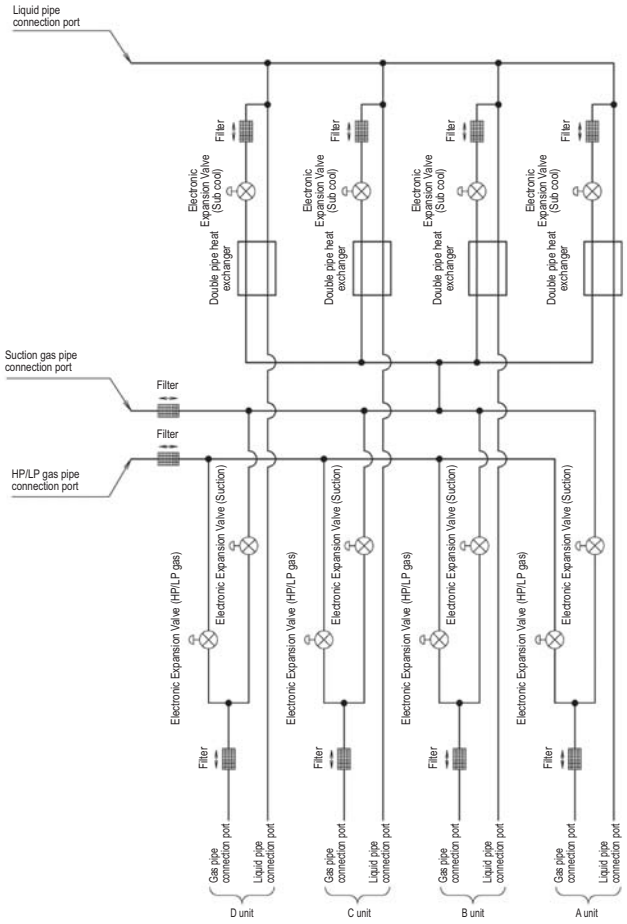


4D086051

7 Piping diagrams

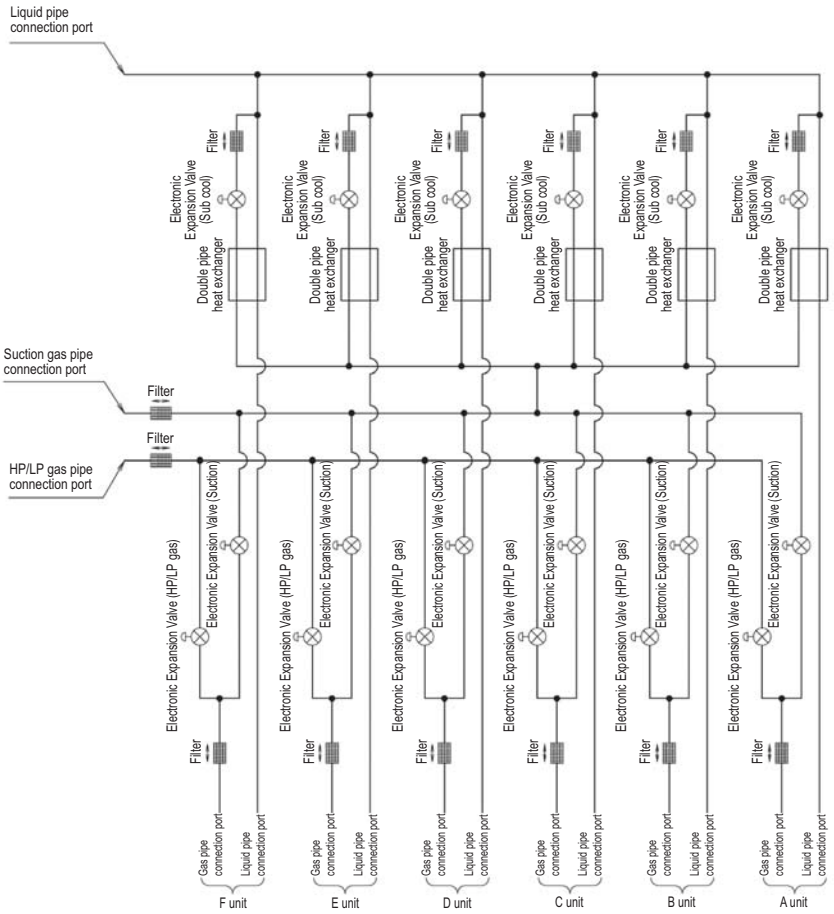
7 - 1 Piping Diagrams

BS4Q14AV1B



3D086032

BS6Q14AV1B

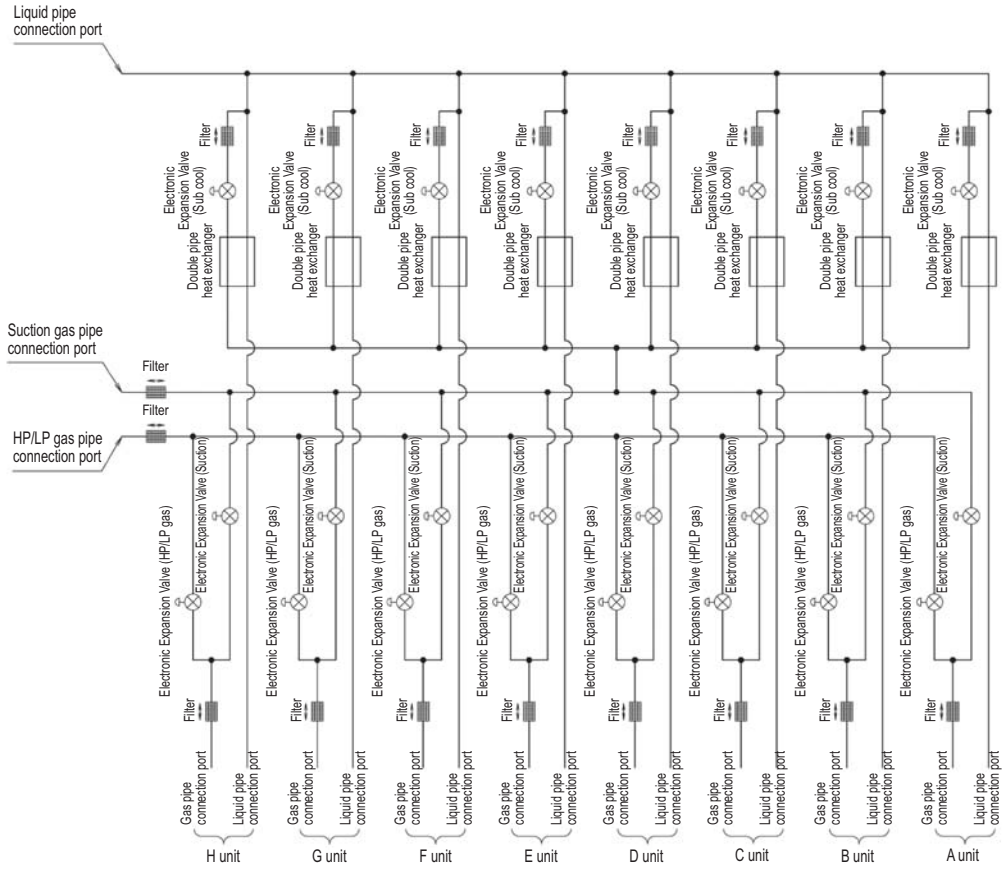


3D086033

7 Piping diagrams

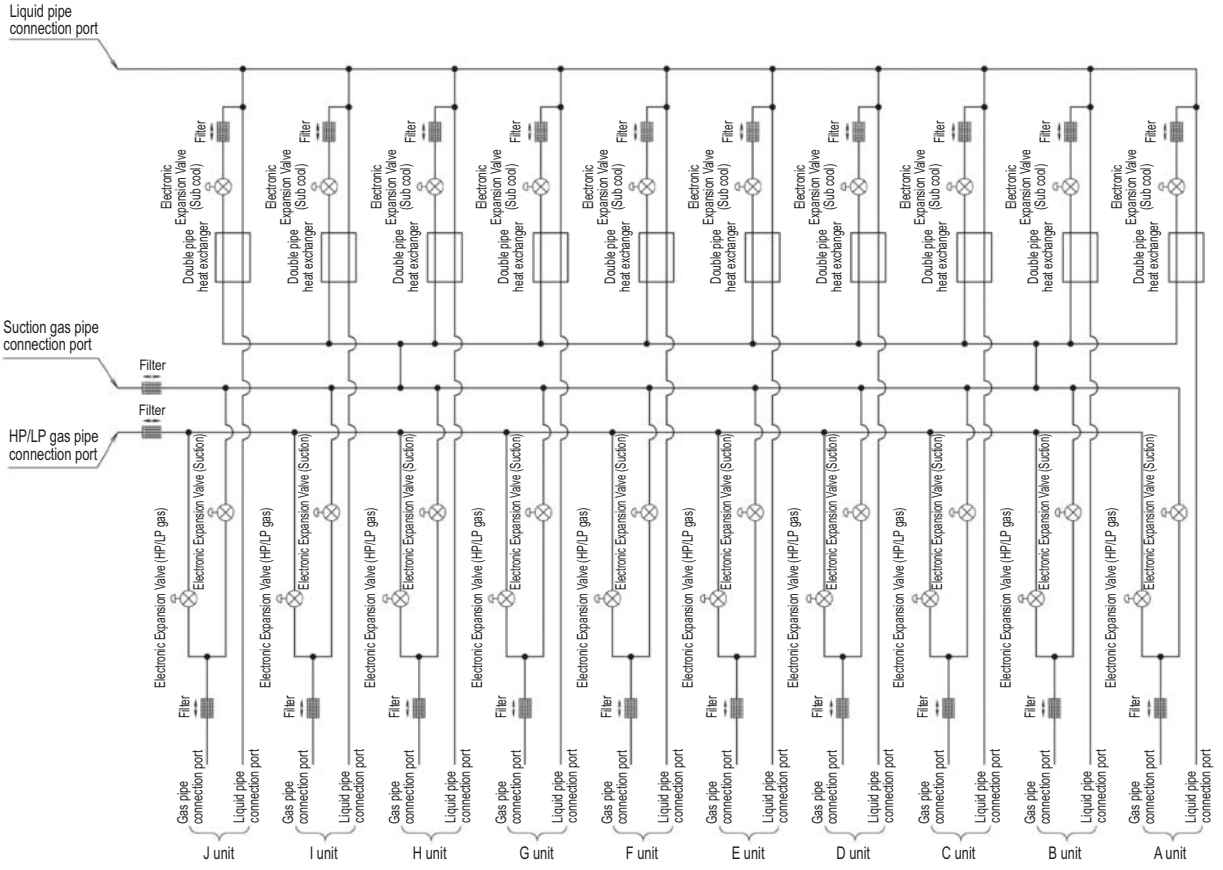
7 - 1 Piping Diagrams

BS8Q14AV1B



3D086034

BS10Q14AV1B

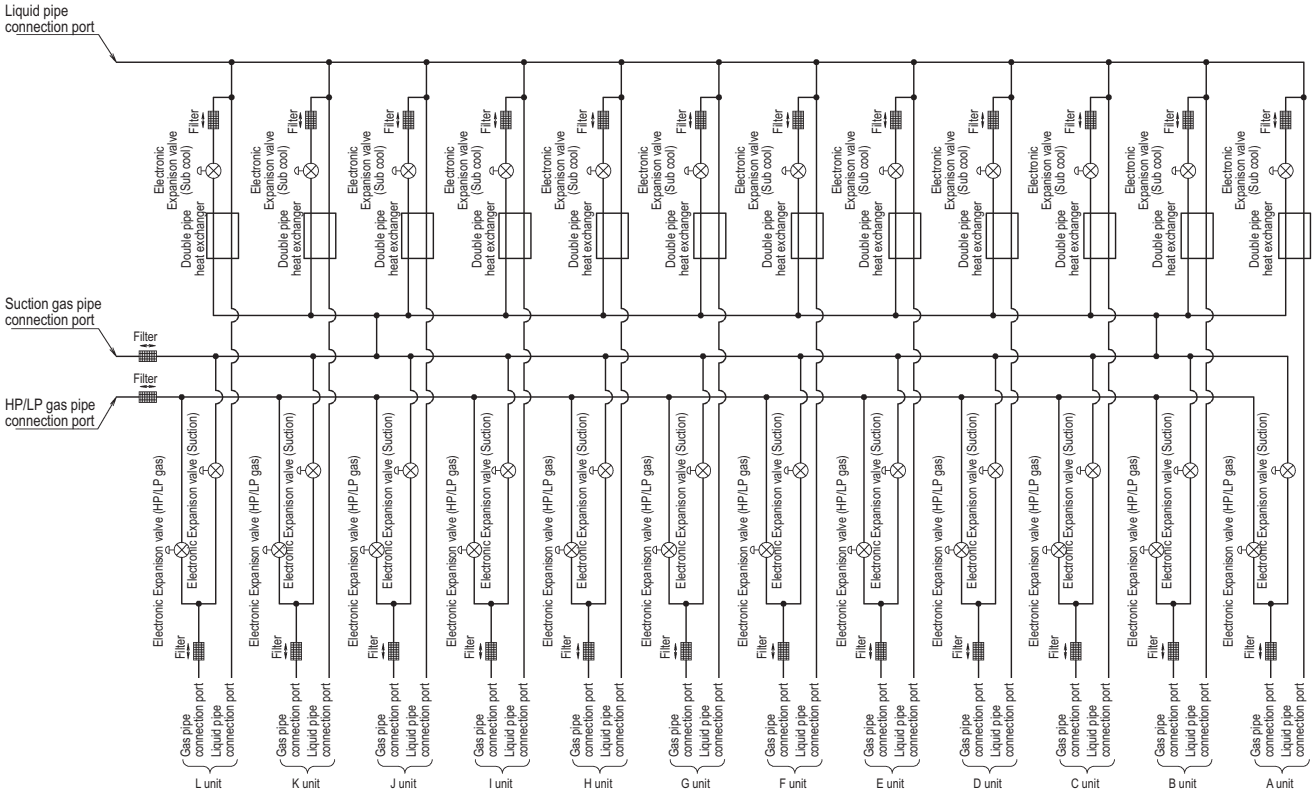


3D086035

7 Piping diagrams

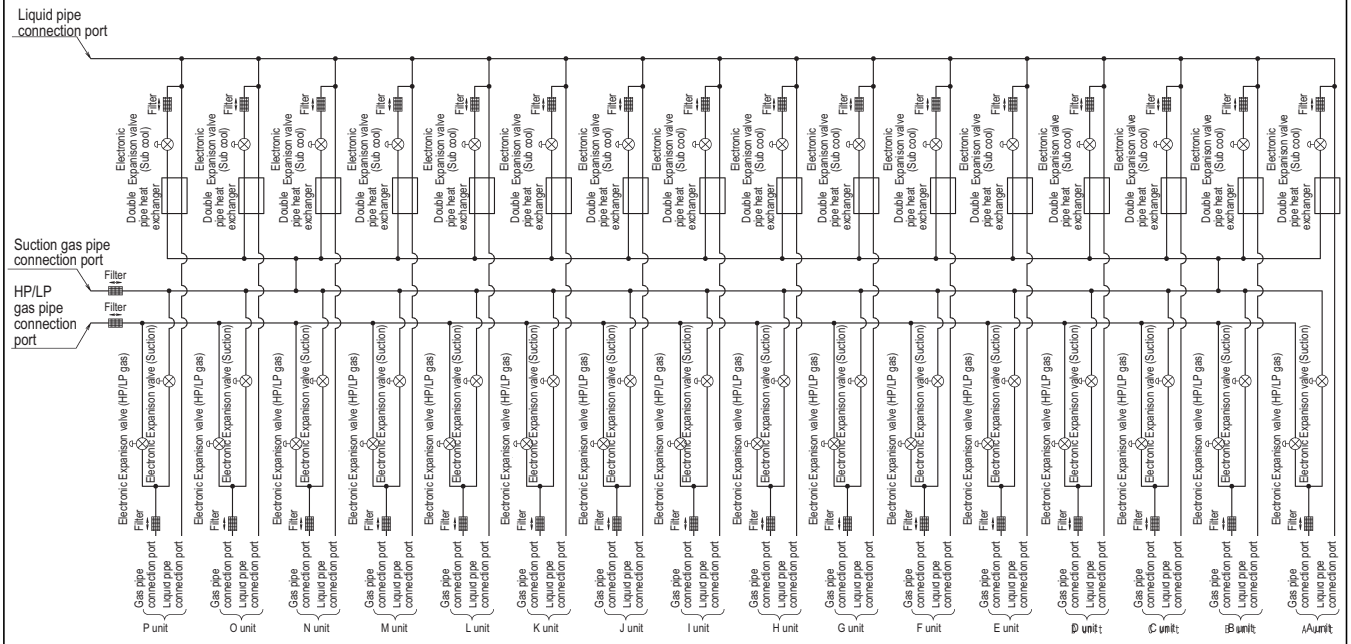
7 - 1 Piping Diagrams

BS12Q14AV1B



3D086036A

BS16Q14AV1B

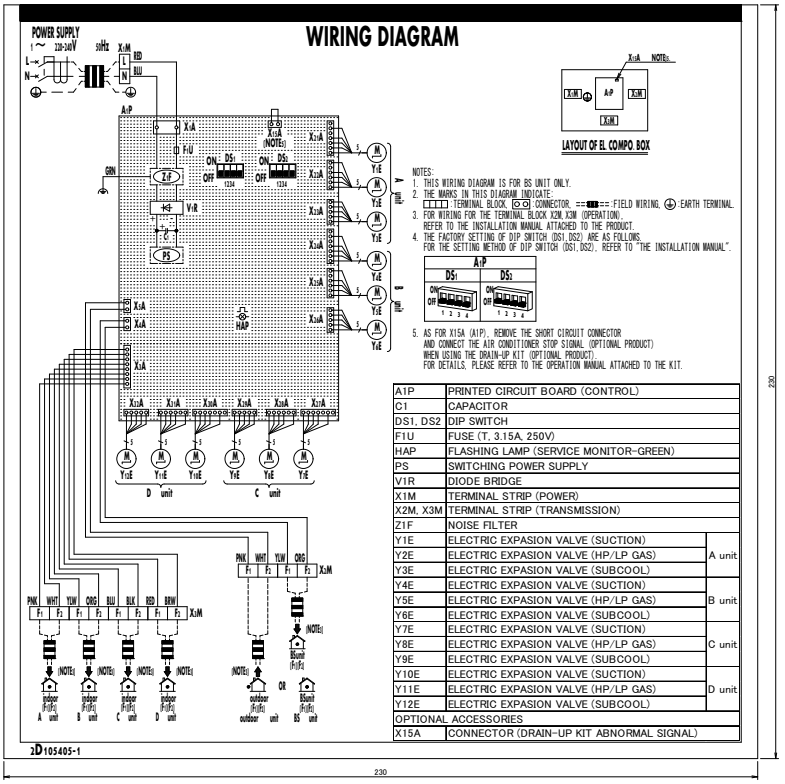


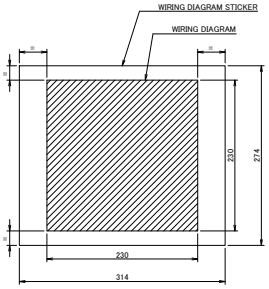
3D086037

8 Wiring diagrams

8 - 1 Wiring Diagrams - Single Phase

BS4Q14AV1B



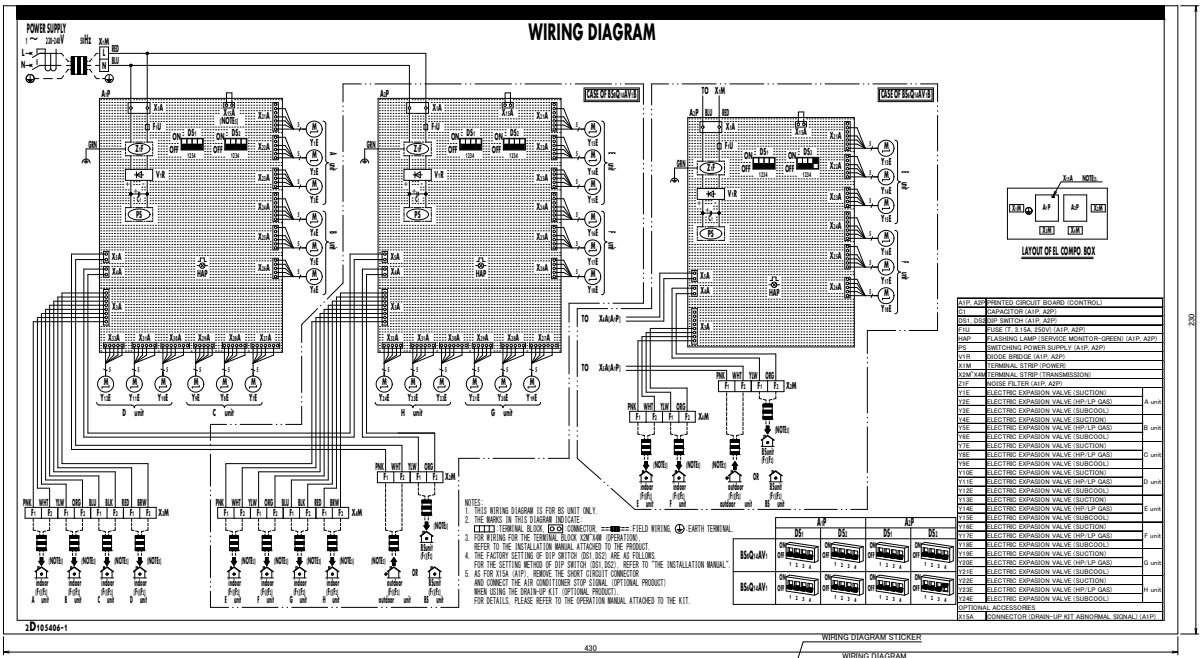


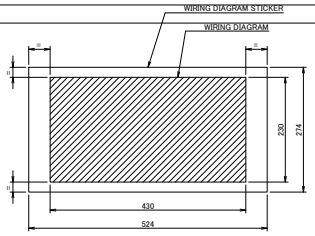
NOTES:

1. LAYOUT AND LETTERSIZE = THIS DRAWING.
2. DO NOT PRINT DIMENSIONS.
3. PRINTING: OFFSET PRINTING BLACK.
4. SLITS: MAKE 2 OR 3 SLITS AT THE REAR SIDE.
5. PRINTING MUST COMPLY TO THE RUBBING TEST OF EN60335-2-40 CLAUSE 7.14.

2D105405

BS6-8Q14AV1B





NOTES:

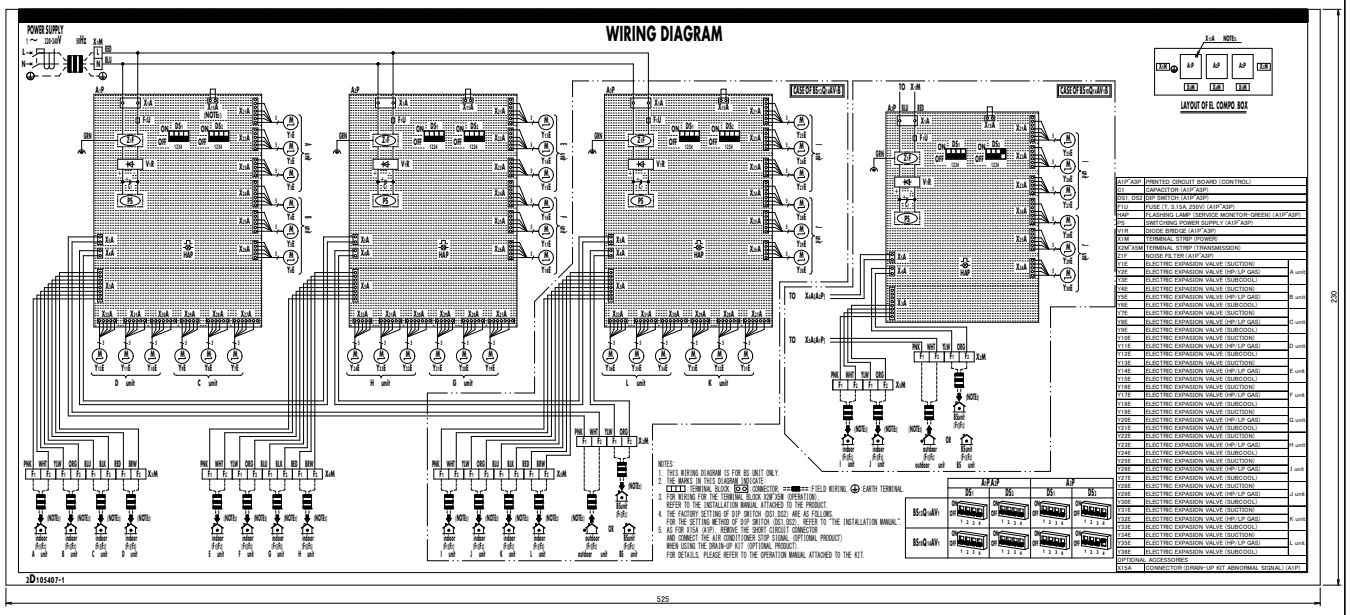
1. LAYOUT AND LETTERSIZE = THIS DRAWING.
2. DO NOT PRINT DIMENSIONS.
3. PRINTING: OFFSET PRINTING BLACK.
4. SLITS: MAKE 2 OR 3 SLITS AT THE REAR SIDE.
5. PRINTING MUST COMPLY TO THE RUBBING TEST OF EN60335-2-40 CLAUSE 7.14.

2D105406

8 Wiring diagrams

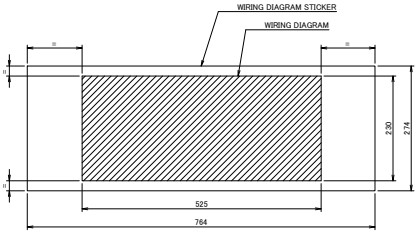
8 - 1 Wiring Diagrams - Single Phase

BS10-12Q14AV1B



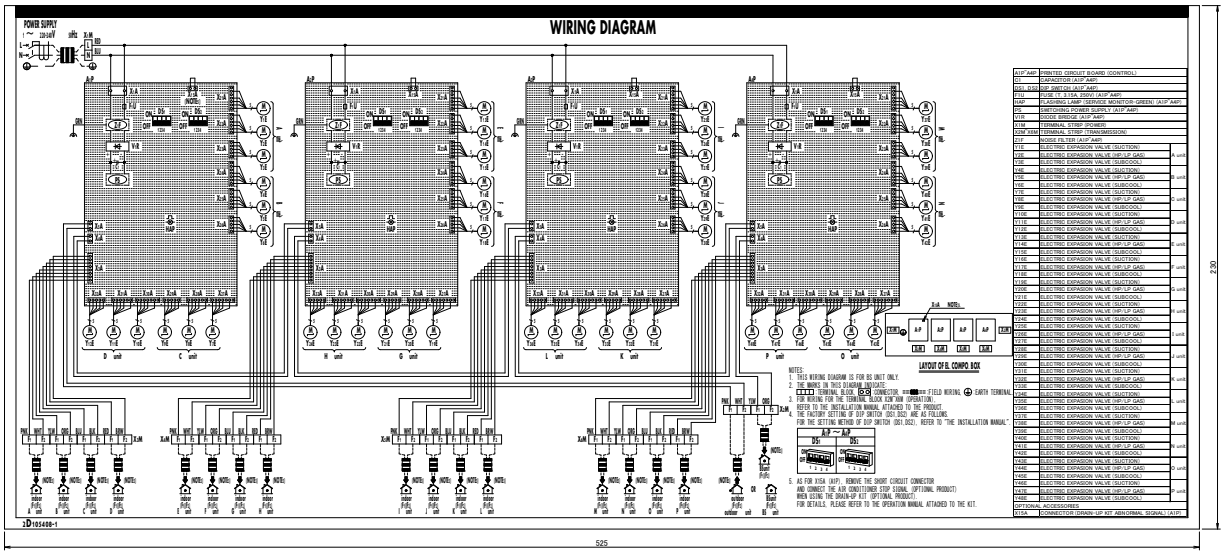
NOTES:

1. LAYOUT AND LETTERSIZE = THIS DRAWING.
2. DO NOT PRINT DIMENSIONS.
3. PRINTING: OFFSET PRINTING BLACK.
4. SLITS: MAKE 2 OR 3 SLITS AT THE REAR SIDE.
5. PRINTING MUST COMPLY TO THE RUBBING TEST OF EN60335-2-40 CLAUSE 7.14.



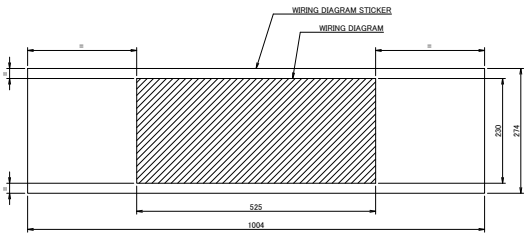
2D105407

BS16Q14AV1B



NOTES:

1. LAYOUT AND LETTERSIZE = THIS DRAWING.
2. DO NOT PRINT DIMENSIONS.
3. PRINTING: OFFSET PRINTING BLACK.
4. SLITS: MAKE 2 OR 3 SLITS AT THE REAR SIDE.
5. PRINTING MUST COMPLY TO THE RUBBING TEST OF EN60335-2-40 CLAUSE 7.14.

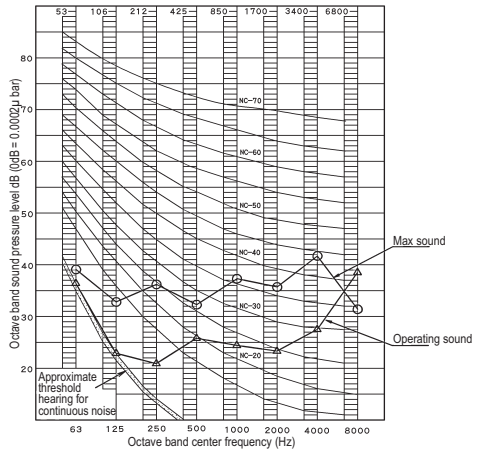


2D105408

9 Sound data

9 - 1 Sound Pressure Spectrum

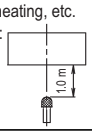
BS4Q14AV1B



NOTES

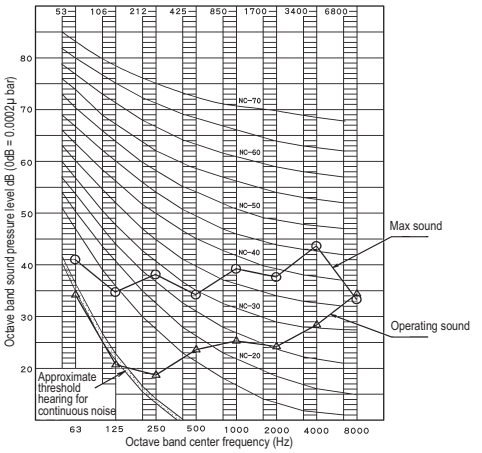
Scale	Operating sound	Max sound
A	38	45
C	39	46

1. Over All (dB):
   The operated sound is measured when the indoor units are connected to all the branches.
2. Operating conditions:
   Power source: 220-240V 50Hz
3. Measuring place: Anechoic chamber (conversion value)
4. The operating sound is measured in anechoic chamber, if it is measured under the actual installation conditions, it is normally over the set value due to enviromental noise and sound reflection.
5. Even if the indoor unit to be connected downstream of BS unit has stopped, when the system is operating, operation sound can be heard.
6. The maximum sound is max value of transient sound, such as oil return and defrost, the change of cooling and heating, etc.
7. Location of microphone:



4D087632A

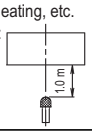
BS6-8Q14AV1B



NOTES

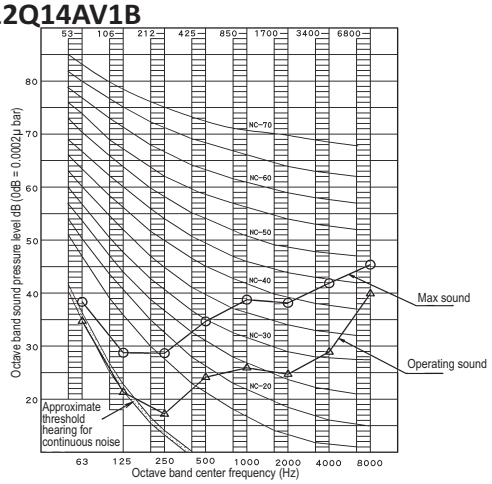
Scale	Operating sound	Max sound
A	39	47
C	39	48

1. Over All (dB):
   The operated sound is measured when the indoor units are connected to all the branches.
2. Operating conditions:
   Power source: 220-240V 50Hz
3. Measuring place: Anechoic chamber (conversion value)
4. The operating sound is measured in anechoic chamber, if it is measured under the actual installation conditions, it is normally over the set value due to enviromental noise and sound reflection.
5. Even if the indoor unit to be connected downstream of BS unit has stopped, when the system is operating, operation sound can be heard.
6. The maximum sound is max value of transient sound, such as oil return and defrost, the change of cooling and heating, etc.
7. Location of microphone:



4D087633A

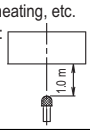
BS10-12Q14AV1B



NOTES

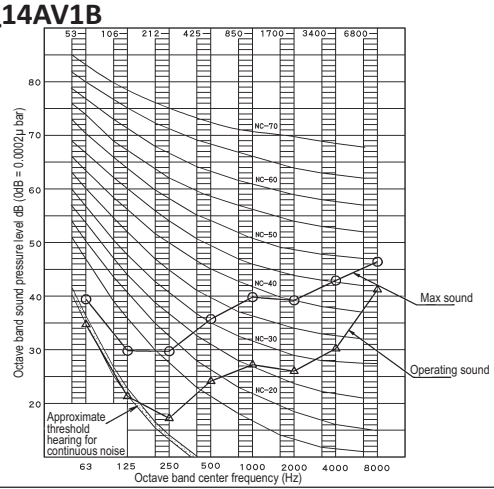
Scale	Operating sound	Max sound
A	40	48
C	40	48

1. Over All (dB):
   The operated sound is measured when the indoor units are connected to all the branches.
2. Operating conditions:
   Power source: 220-240V 50Hz
3. Measuring place: Anechoic chamber (conversion value)
4. The operating sound is measured in anechoic chamber, if it is measured under the actual installation conditions, it is normally over the set value due to enviromental noise and sound reflection.
5. Even if the indoor unit to be connected downstream of BS unit has stopped, when the system is operating, operation sound can be heard.
6. The maximum sound is max value of transient sound, such as oil return and defrost, the change of cooling and heating, etc.
7. Location of microphone:



4D087634A

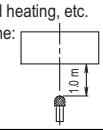
BS16Q14AV1B



NOTES

Scale	Operating sound	Max sound
A	41	49
C	41	49

1. Over All (dB):
   The operated sound is measured when the indoor units are connected to all the branches.
2. Operating conditions:
   Power source: 220-240V 50Hz
3. Measuring place: Anechoic chamber (conversion value)
4. The operating sound is measured in anechoic chamber, if it is measured under the actual installation conditions, it is normally over the set value due to enviromental noise and sound reflection.
5. Even if the indoor unit to be connected downstream of BS unit has stopped, when the system is operating, operation sound can be heard.
6. The maximum sound is max value of transient sound, such as oil return and defrost, the change of cooling and heating, etc.
7. Location of microphone:



4D087635A

Daikin Europe N.V. Naamloze Vennootschap - Zandvoordestraat 300, B-8400 Oostende - Belgium - www.daikin.eu - BE 0412 120 336 - RPR Oostende



EEDEN18 03/18



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