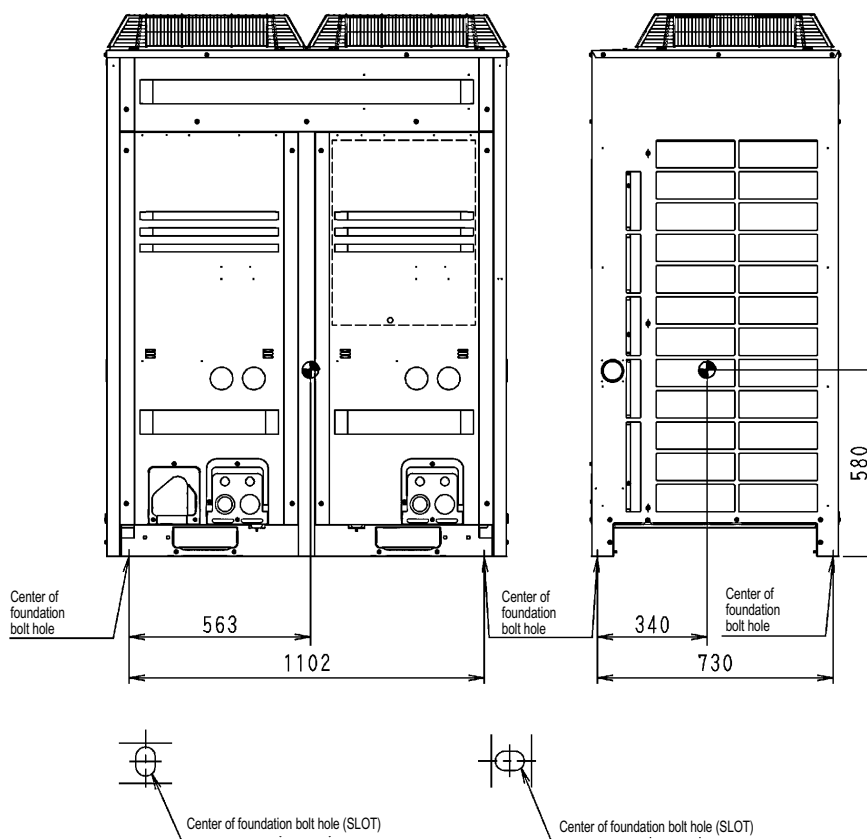


8 Centre of gravity

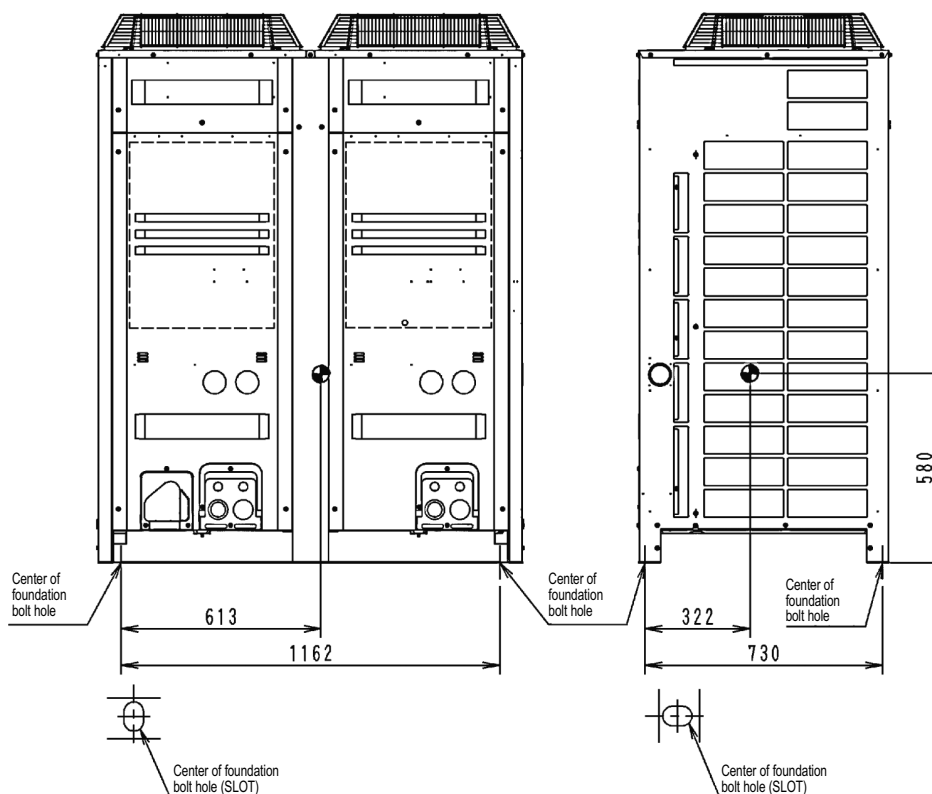
8 - 1 Centre of Gravity

REMQ14,16P8



4D057578C

REYQ8,12P9
REYQ10P8

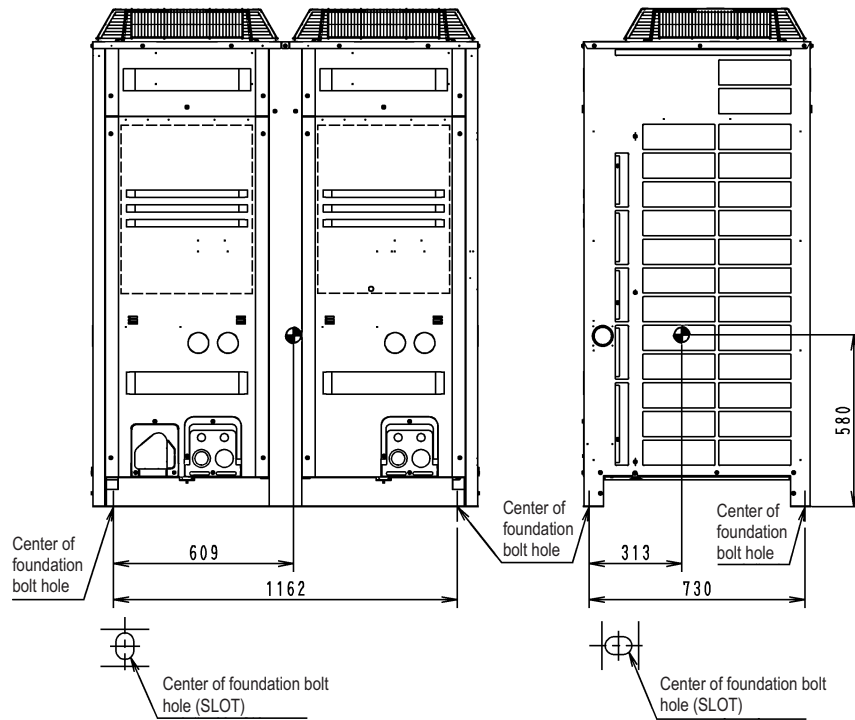


4D058152A

8 Centre of gravity

8 - 1 Centre of Gravity

REYQ14,16P8

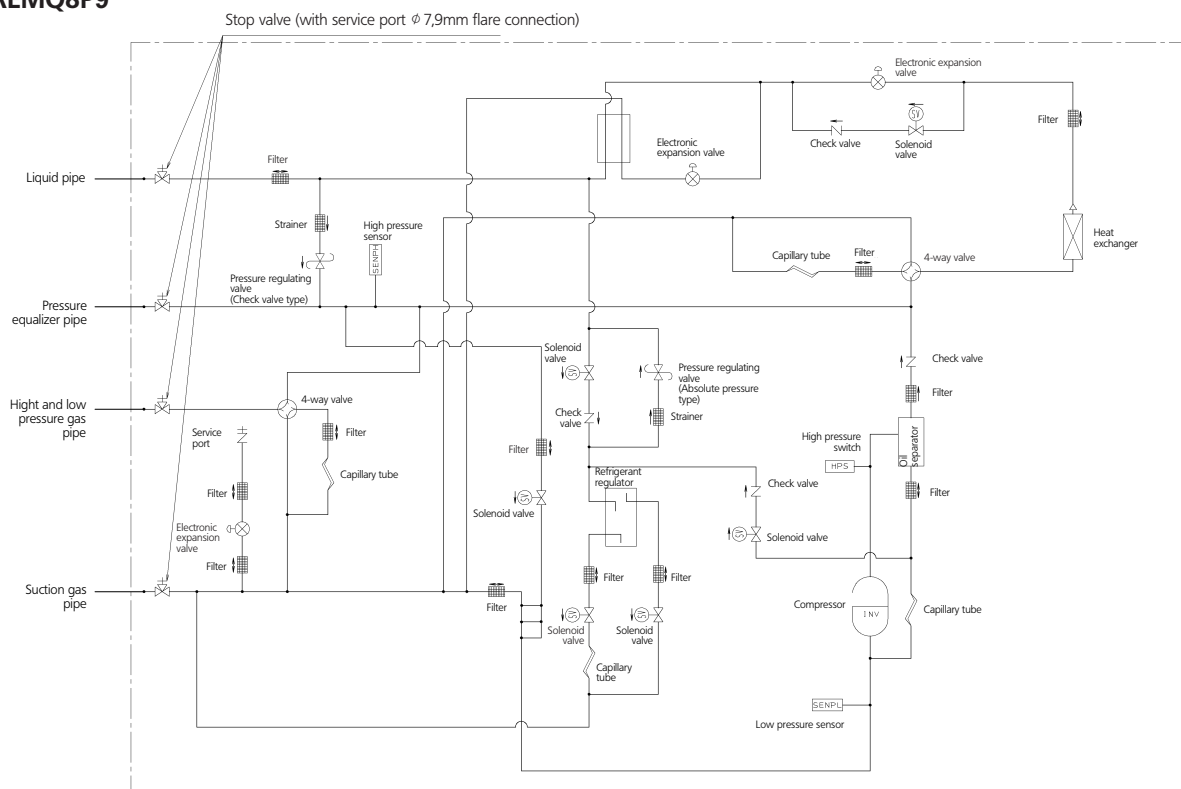


4D057739B

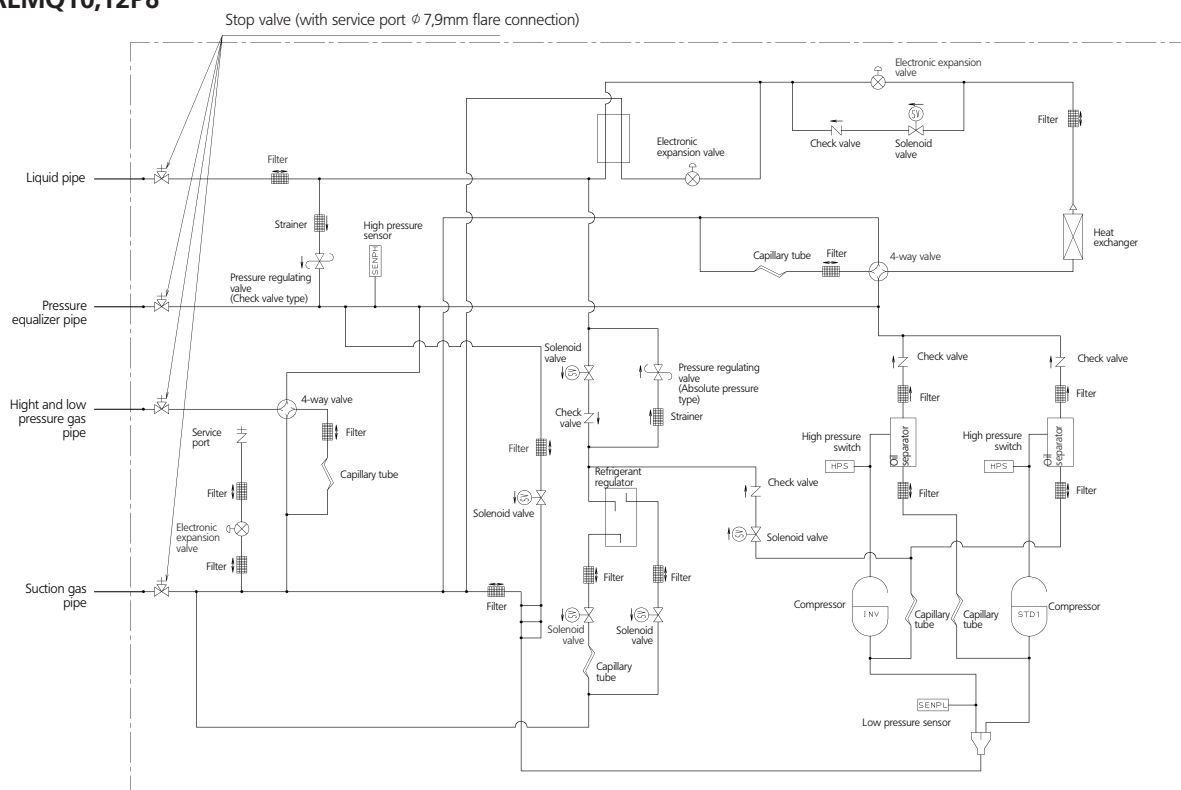
9 Piping diagrams

9 - 1 Piping Diagrams

REMQ8P9



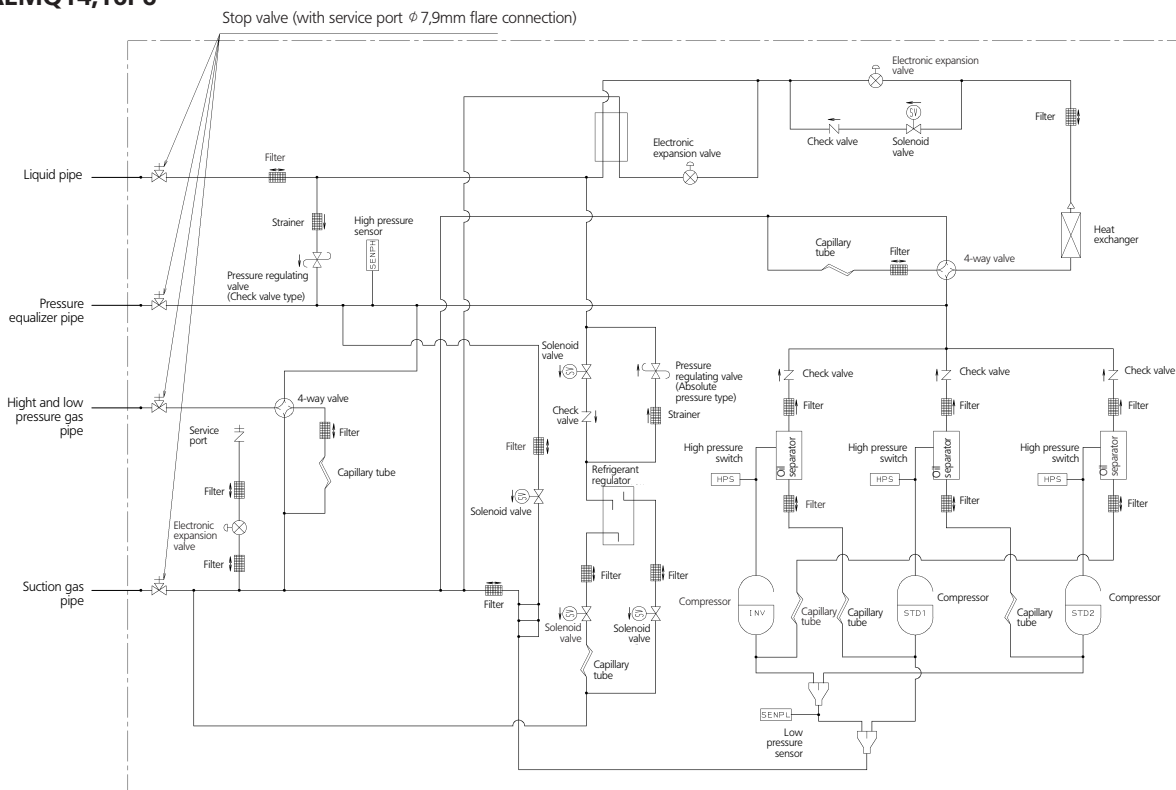
REMQ10,12P8



9 Piping diagrams

9 - 1 Piping Diagrams

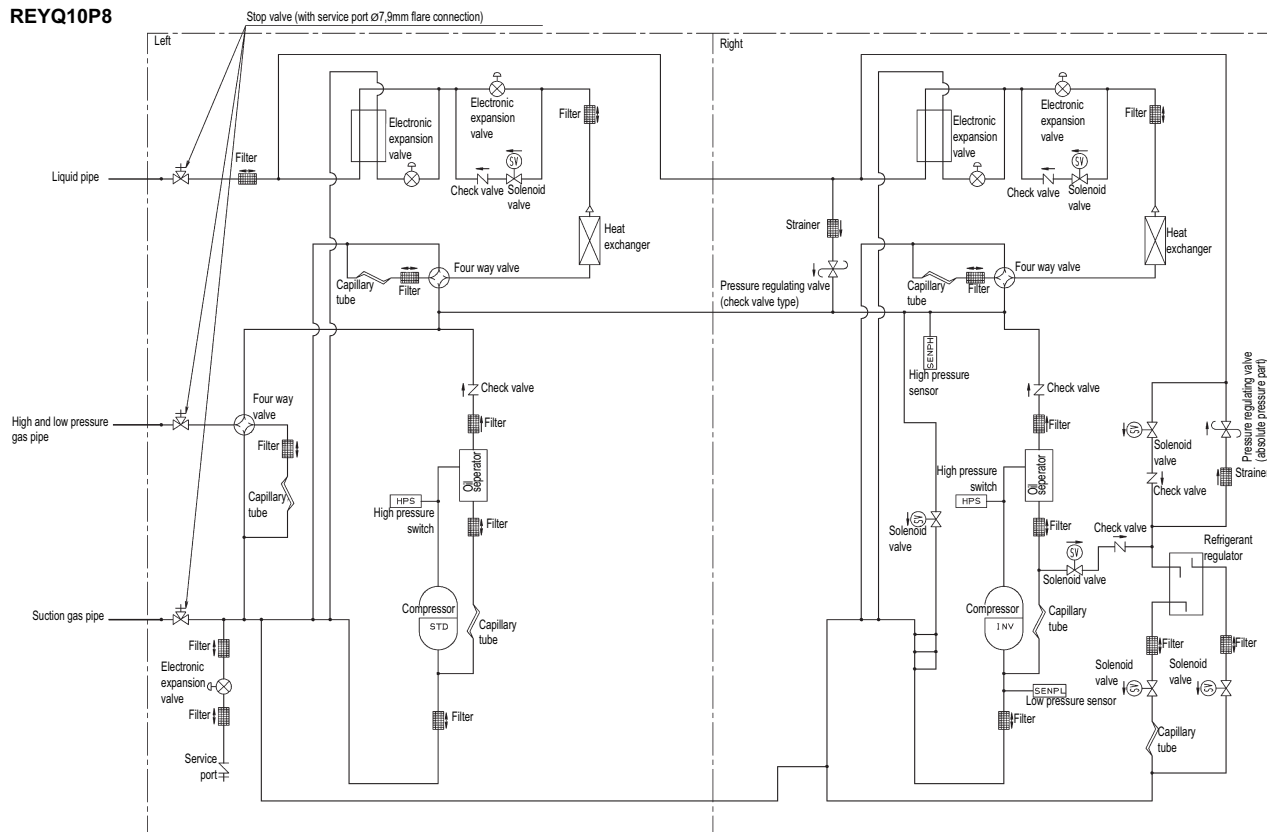
REMQ14,16P8



3D057741

REYQ8,12P9

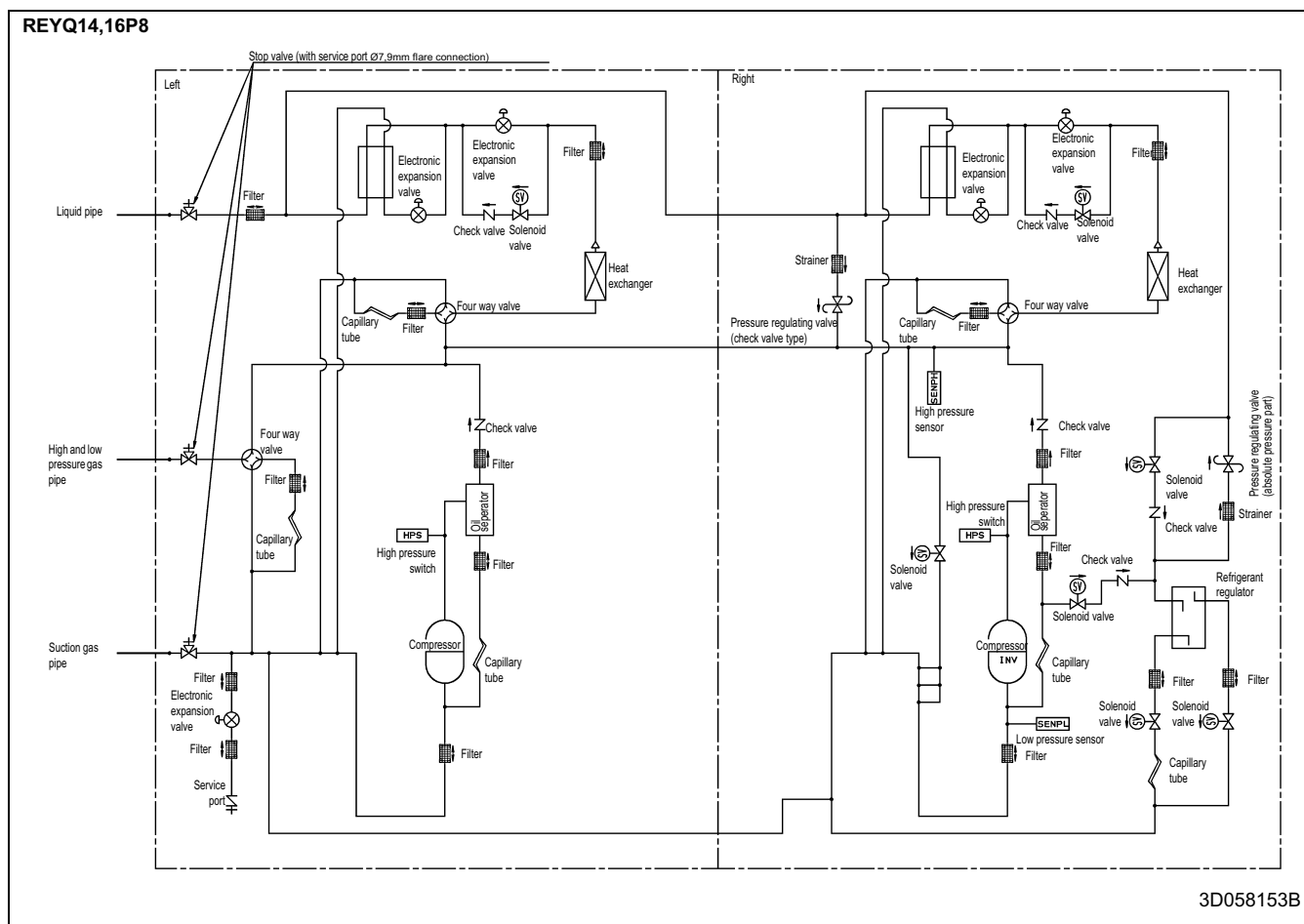
REYQ10P8



3D058154B

9 Piping diagrams

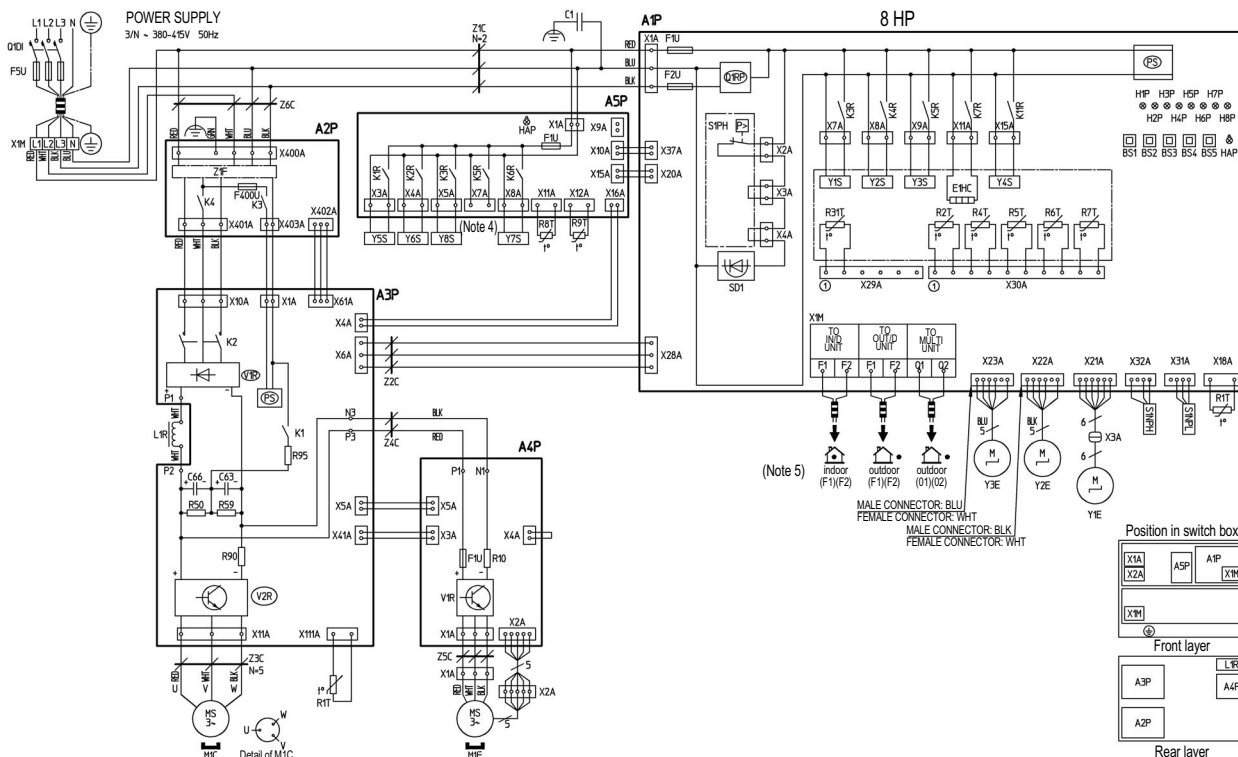
9 - 1 Piping Diagrams



10 Wiring diagrams

10 - 1 Wiring Diagrams - Single Phase

REMQ8P9



Indoor unit	Printed circuit board		Magnetic relay	S1NPH	Pressure sensor (High)
A1P~A8P	A1P: Main A2P: Noise filter A3P: Inverter	K1R~K11R	K1R: Y5S (A1P) K2R: Y6S (A5P) K3R: Y1S (A1P) K4R: Y2S (A1P) K5R: Y3S (A1P) K6R: Y7S (A5P) K7R: E1HC (A1P) K11R: Y4S (A1P)	S1NPL S1PH SD1 V1R V2R	Pressure sensor (Low) Pressure switch (High) Safety devices input Diode bridge (A3P) Power module (A4P)
BS1~BS5	Push button switch (Mode, Set, Return, Test, Reset)	L1R	Reactor	X1A~X4A	Connector (M1F)
C1, C63, C66	Capacitor	M1C	Motor (Compressor)	X3A	Connector (Y1E)
E1HC	Crankcase heater	M1F	Motor (Fan)	X1M	Terminal strip (Power supply)
F1U, F2U	Fuse (T, 3.15A, 250V) (A1P)	PS	Switching power supply (A1P, A3P)	X1M	Terminal strip (Control) (A1P)
F1U	Fuse (T, 3.15A, 250V) (A5P)	Q1DI	Earth leakage breaker	Y1E	Electronic expansion valve (Main)
F1U	Fuse (8A, DC650V) (A4P)	Q1RP	Reverse phase detection circuit	Y2E	Electronic expansion valve (Charge)
F5U	Field fuse	R10	Resistor (current sensor) (A4P)	Y3E	Electronic expansion valve (Subcool)
F400U	Fuse (T, 63A, 250V) (A2P)	R50, R59	Resistor	Y1S~Y3S	Solenoid valve Y1S: RMTG Y2S: 4 way valve (pipe) Y3S: 4 way valve (H/E Gas) Y4S: RMTL Y5S: Hot gas Y6S: EV bypass Y7S: RMT0 Y8S: RMTT
H1P~H8P	Pilotlamp (service monitor -orange) [H2P] Prepare, Test - - - - - Flickering Malfunction detection - - - - - Light up	R90	Resistor (current sensor)		
HAP	Pilotlamp (service monitor - green) (A1P)(A5P)	R95	Resistor (current limiting)		
K1~K4	K1: Magnetic relay K2: Magnetic contactor (M1C) K3: Magnetic relay K4: Magnetic contactor (M1C)	R1T~R9T	Thermistor		
Connector for optional parts		R31T~R33T	R1T: Air (A1P) R2T: H/E Gas R3T: H/E Deicer R4T: Sub cool H/E liq R5T: Sub cool H/E gas	Z1C~Z6C Z1F	Noise filter (ferrite core) Noise filter (with surge absorber)
X7A	Operation output (A5P)				
X9A	Power supply (ADAPTER) (A5P)				

□ □ □ □ : Terminal strip

—|—|— : Field wiring

□ □ : Connector

—○— : Terminal

⊕ : Protective earth (screw)

Colors: BLK: Black, RED: Red, YLW: Yellow, WHT: White, PNK: Pink, BRN: Brown, GRY: Grey, GRN: Green, ORG: Orange, BLU: Blue

2TW29116-1A

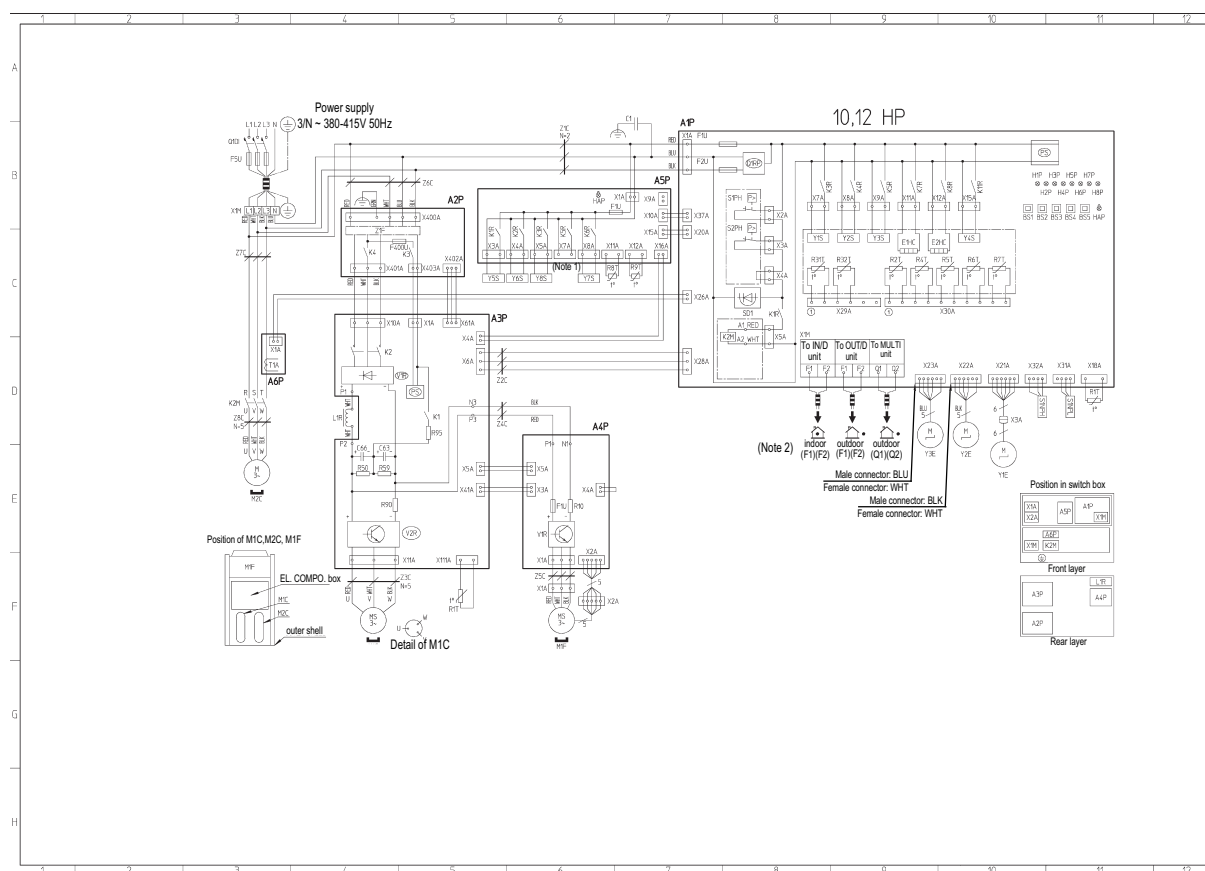
NOTES

- When using the option adaptor, refer to the installation manual
- Refer to the installation manual, for connection wiring to indoor-outdoor transmission F1 - F2, outdoor transmission F1 - F2, outdoor-multi transmission Q1 - Q2 and on how to use BS1~BS5 and DS1, DS2 switch.
- Do not operate the unit by short-circuiting protection device S1PH~S3PH

10 Wiring diagrams

10 - 1 Wiring Diagrams - Single Phase

REM-Q10,12P8



A1P~A8P	Printed circuit board		L1R	Reactor	X1M	Terminal strip (control) (A1P)	
	A1P: main	A4P: fan	M1C, M2C	Motor (compressor)	Y1E	Electronic expansion valve (main)	
	A2P: noise filter	A5P: sub	M1F	Motor (fan)	Y2E	Electronic expansion valve (charge)	
	A3P: inverter	A6P: current sensor	PS	Switching power supply (A1P, A3P)	Y3E	Electronic expansion valve (subcool)	
BS1~BS5	Push button switch (Mode, set, return, test, reset)		Q1DI	Earth leakage breaker	Y1S~Y3S	Solenoid valve	
C1, C63, C66	Capacitor		Q1RP	Reverse phase detection circuit		Y1S: RMTG	Y2S: 4 way vvalve (pipe)
E1HC, E2HC	Crankcase Heater		R10	Resistor (current sensor) (A4P)		Y3S: 4 way valve (H/E gas)	
F1U, F2U	Fuse (T, 3.15A, 250V) (A1P)		R50, R59	Resistor		Y4S: RMTL	Y5S: hot gas
F1U	Fuse (T, 3.15A, 250V) (A5P)		R90	Resistor (current sensor)		Y6S: EV bypass	Y7S: RMTO
F5U	Field fuse		R95	Resistor (current limiting)		Y8S: RMTT	
F400U	Fuse (T, 6.3A, 250V) (A2P)		R1T~R9T R31T~R33T	Thermistor		Z1C~Z8C	Noise filter (ferrite core)
H1P~H8P	Pilotlamp (service monitor - orange)			R1T: air (A1P)	R4T: H/E deicer	Z1F	Noise filter (with surge absorber)
	[H2P] Prepare, test ----- flickering			R1T: fin (A3P)	R5T: sub cool H/E gas		
	Malfunction detection - - light up			R2T: H/E gas	R8T: sub cool H/E liq		
				R31T: M1C discharge	R8T: suction		
HAP	Pilotlamp (service monitor - green (A1P)(A5P)			R9T: liquid	X7A	Operation output (A5P)	
K1~K4	K1: magnetic relay	K2:magnetic contactor (M1C)	S1NPH	Pressure sensor (high)	X9A	Power supply (adapter) (A5P)	
	K3: magnetic relay	K4:magnetic contactor (M1C)	S1NPL	Pressure sensor (low)			
K1R~K11R	Magnetic relay		S1PH, S2PH	Pressure swith (high)			
	K1R: K2M (A1P)	K2R: Y5S (A5P)	T1A	Current sensor			
	K2R: Y6S (A5P)	K3R: Y1S (A1P)	V1R	Diode bridge (A3P)	Power module (A4P)		
	K3R: Y1S (A1P)	K4R: Y2S (A1P)	V2R	Power module (A3P)			
	K5R: Y3S (A1P)	K5R: (for option) (A5P)	X1A, X2A	Connector (M1F)			
	K6R: Y7S (A5P)	K7R: E1HC (A1P)	X3A	Connector (Y1E)			
	K8R: E2HC (A1P)	K11R: Y4S (A1P)	X1M	Terminal strip (power supply)			

: Field wiring
 : Terminal Strip
 : Connector
 : Terminal
 : Protective earth (screw)

Colors: BLK: Black
 BLU: Blue
 BRN: Brown
 ORG: Orange
 GRY: Grey

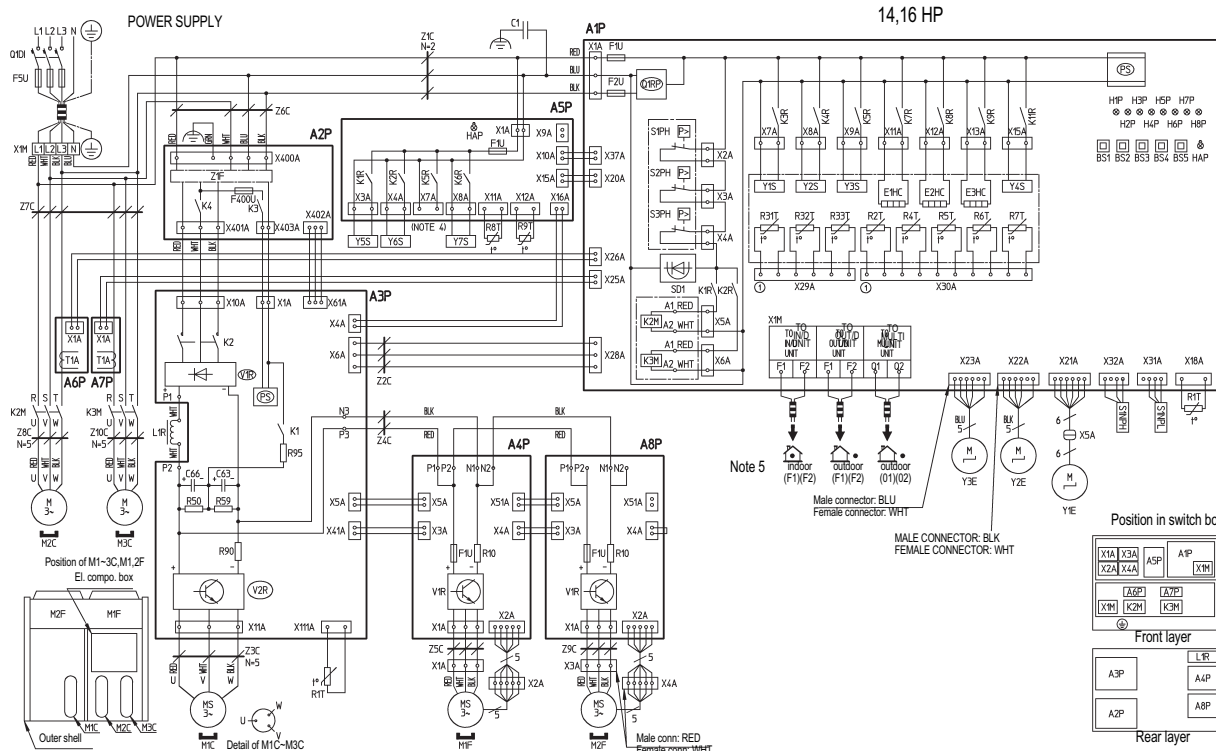
PNK: Pink
 RED: Red
 WHT: White
 YLW: Yellow
 GRN: Green

2TW29126-1A

NOTES

- When using the option adapter, refer to the installation manual.
- Refer to the installation manual, for connection wiring to indoor-outdoor transmission F1 - F2, outdoor-outdoor transmission F1 - F2, outdoor-multi transmission Q1 - Q2 and on how to use BS1~BS5 and DS1, DS2 switch.
- Do not operate the unit by short-circuiting protection device S1PH, S2PH.

10



A1P~A8P	Printed circuit board		K1R~K11R	Magnetic relay		S1NPL	Pressure sensor (Low)	
	A1P: Main	A4P,A8P: Fan		K1R: K2M (A1P)	K1R: Y5S (A5P)	S1PH~S3PH	Pressure switch (High)	
	A2P: Noise filter	A5P: Sub		K2R: K3M (A1P)	K2R: Y6S (A5P)	T1A	Current sensor (A6P, A7P)	
	A3P: Inverter	A6P,A7P: Current sensor		K3R: Y1S (A1P)	K4R: Y2S (A1P)	V1R	Diode bridge (A3P)	Power module (A4P,A8P)
BS1~BS5	Push button switch (Mode, Set, Return, Test, Reset)			K5R: Y3S (A1P)	K5R: (for option) (A5P)	V2R	Power module (A3P)	
C1, C63, C66	Capacitor			K6R: Y7S (A5P)	K7R: E1HC (A1P)	X1A~X4A	Connector (M1F, M2F)	
E1HC~E3HC	Crankcase heater			K8R: E2HC (A1P)	K9R: E3HC (A1P)	X5A	Connector (Y1E)	
F1U, F2U	Fuse (T, 3.15A, 250V) (A1P)			K11R: Y4S (A1P)		X1M	Terminal strip (Power supply)	
F1U	Fuse (T, 3.15A, 250V) (A5P)					X1M	Terminal strip (Control) (A1P)	
F1U	Fuse (8A, DC650V) (A4P,A8P)			PS	Switching power supply (A1P, A3P)	Y1E	Electronic expansion valve (Main)	
F5U	Field fuse		Q1DI	Earth leakage breaker	Y2E	Electronic expansion valve (Charge)		
F400U	Fuse (T, 63A, 250V) (A2P)		Q1RP	Reverse phase detection circuit	Y3E	Electronic expansion valve (Subcool)		
H1P~H8P	Pilotlamp (service monitor - orange) [H2P] Prepare, Test ----- Flickering Malfunction detection ----- Light up		R10	Resistor (current sensor) (A4P,A8P)		Solenoid valve		
			R50, R59	Resistor		Y1S: RMTG	Y2S: 4 way valve (pipe)	
			R90	Resistor (current sensor)	Y1S~Y3S	Y3S: 4 way valve (H/E Gas)		
			R95	Resistor (current limiting)		Y4S: RMTL	Y5S: Hot gas	
			Thermistor	Y6S: EV bypass		Y7S: RMT0		
HAP	Pilotlamp (service monitor - green) (A1P) (A5P)			R1T: Air (A1P)				
K1~K4	K1: Magnetic relay	K2: Magnetic contactor (M1C)	R1T~R9T R31T~R33T	R1T: Fin (A3P)	R5T: Sub cool H/E gas	Z1C~Z10C	Noise filter (ferrite core)	
	K3: Magnetic relay	K4: Magnetic contactor (M1C)		R2T: H/E Gas	R6T: Sub cool H/E liq	Z1F	Noise filter (with surge absorber)	
K2M, K3M	Magnetic contactor (M2C, M3C)			R31T: M1C Discharge	R7T: H/E Liquid			
L1R	Reactor			R32T: M2C Discharge	R8T: Suction	Connector for optional parts		
M1C~M3C	Motor (Compressor)			R33T: M3C Discharge	R9T: Liquid	X7A	Operation output (A5P)	
M1F, M2F	Motor (Fan)			S1NPH	Pressure sensor (High)	X9A	Power supply (ADAPTER) (A5P)	

ORG: Orange
BLU: Blue

2TW29146-1A

- 1 When using the option adaptor, refer to the installation manual
- 2 Refer to the installation manual, for connection wiring to indoor-outdoor transmission F1 - F2, outdoor transmission F1 - F2, outdoor-multi transmission Q1 - Q2 and on how to use BS1-BS5 and DS1, DS2 switch.
- 3 Do not operate the unit by short-circuiting protection device S1PH-S3PH

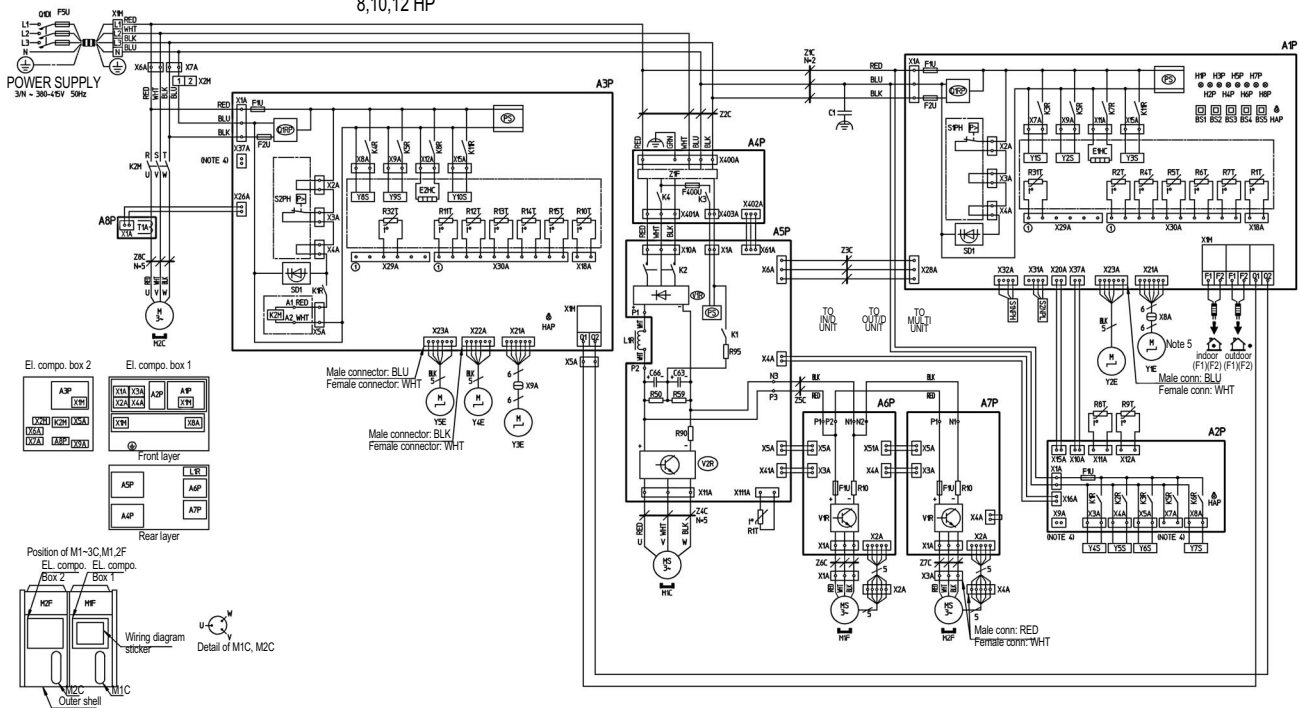
10 Wiring diagrams

10 - 1 Wiring Diagrams - Single Phase

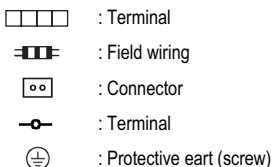
REYQ8,12P9

REYQ10P8

8,10,12 HP



	Printed circuit board		K1R~K8R, K11R	Magnetic relay		S1PH, S2PH	Pressure switch (High)	
A1P~A8P	A1P: Main	A4P,A8P: Fan		K1R: Y4S (A2P)	K5R: For option (A2P)	T1A	Current sensor	
	A2P: Noise filter	A5P: Sub		K1R: K2M (A3P)	K5R: Y9S (A3P)	V1R	Diode bridge (A3P)	Power module (A4P,A8P)
	A3P: Inverter	A6P,A7P: Current sensor		K2R: Y5S	K6R: Y7S	V2R	Power module (A3P)	
	A4P: Noise filter			K3R: Y1S (A1P)	K7R: E1HC (A1P)	X1A~X9A	Connector	
BS1~BS5	Push button switch (Mode, Set, Return, Test, Reset)			K3R: Y6S (A2P)	K8R: E2HC (A3P)	X1M	Terminal strip (power supply)	
C1, C63, C66	Capacitor			K4R: Y8S	K11R: Y3S (A1P)	X1M	Terminal strip (control) (A1P, A3P)	
E1HC, E2HC	Crankcase heater (A1P, A3P)		Q1DI	K5R: Y2S (A1P)	K11R: Y10S (A3P)	X2M	Terminal strip (relay)	
F1U, F2U	Fuse (T, 3.15A, 250V) (A1P, A3P)		Q1RP	Earth leakage breaker		Y1E	Electronic expansion valve (main 1)	
F1U	Fuse (T, 3.15A, 250V) (A2P)		R10	Reverse phase detection circuit (A1P, A3P)		Y2E	Electronic expansion valve (subcool 1)	
F1U	Fuse (8A, DC650V) (A6P, A7P)		R50, R59	Resistor (current sensor) (A6P, A7P)		Y3E	Electronic expansion valve (main 2)	
F5U	Field fuse		R90	Resistor		Y4E	Electronic expansion valve (charge)	
F400U	Fuse (T, 63A, 250V)		R95	Resistor (current sensor)		Y5E	Electronic expansion valve (subcool 2)	
H1P~H8P	Pilotlamp (service monitor - orange) [H2P] Prepare, Test ----- Flickering Malfunction detection ----- Light up		R1T~R15T R31T~R32T	Resistor (current limiting)		Y1S~Y10S	Solendoid valve	
				Thermistor			Y1S: RMTG	Y6S: RMTT
				R1T: Air (A1P)	R8T: Suction 1		Y2S: 4 way valve (H/E 1)	Y7S: RMT0
				R1T: Fin (A5P)	R9T:		Y3S: RMTL	Y8S: 4 way valve (pipe)
HAP	Pilotlamp (service monitor - Green)(A1P, A2P, A3P)			R2T: H/E Gas 1		Y4S: Hot gas	Y9S: 4 way valve (H/E 2)	
K1~K4	K1: Magnetic relay			R31T: M1C Discharge		Y5S: EV bypass 1	Y10S: EV bypass 2	
	K3: Magnetic relay			R32T: M2C Discharge		Z1C~Z8C	Noise filter (ferrite core)	
	K2: Magnetic contactor (M1C)			R4T: H/E deicer 1		Z1F	Noise filter (wit surge absorber)	
	K4: Magnetic contactor (M1C)			R5T: Sub cool H/E gas1				
L1R	Reactor			R6T: Sub cool H/E liq		Connector for optional parts		
M1C, M2C	Motor (compressor)			R7T: H/E liquid 1		X7A	Operation output (A2P)	
M1F, M2F	Motor (fan)		S1NPH	Pressure sensor (High)		X9A	Power supply (adapter) (A2P)	
PS	Switching power supply (A1P, A3P, A5P)		S1NPL	Pressure sensor (Low)		X37A	Power supply (adapter) (A3P)if	



Colors:	BLK: Black	PNK: Pink	ORG: Orange
	RED: Red	BRN: Brown	BLU: Blue
	YLW: Yellow	GRY: Grey	
	WHT: White	GRN: Green	

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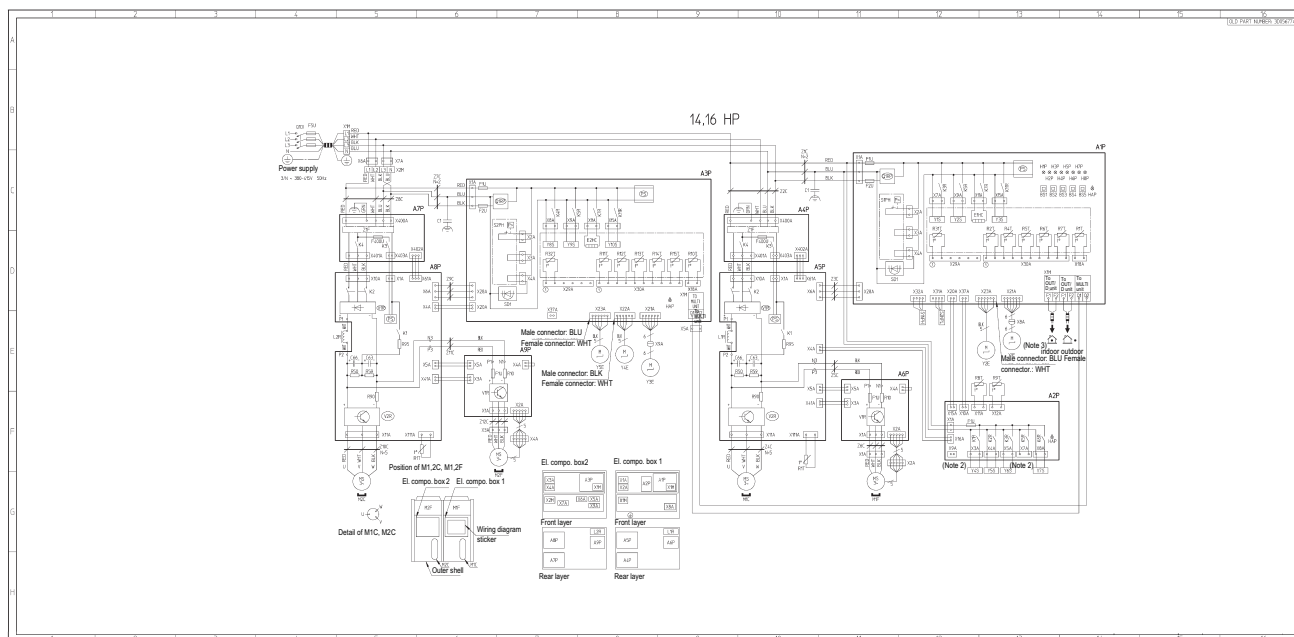
NOTES

- When using the option adaptor, refer to the installation manual
- Refer to the installation manual, for connection wiring to indoor-outdoor transmission F1 - F2, outdoor transmission F1 - F2, outdoor-multi transmission Q1 - Q2 and on how to use BS1~BS5 and DS1, DS2 switch.
- Do not operate the unit by short-circuiting protection device S1PH~S3PH

10 Wiring diagrams

10 - 1 Wiring Diagrams - Single Phase

REYQ14,16P8



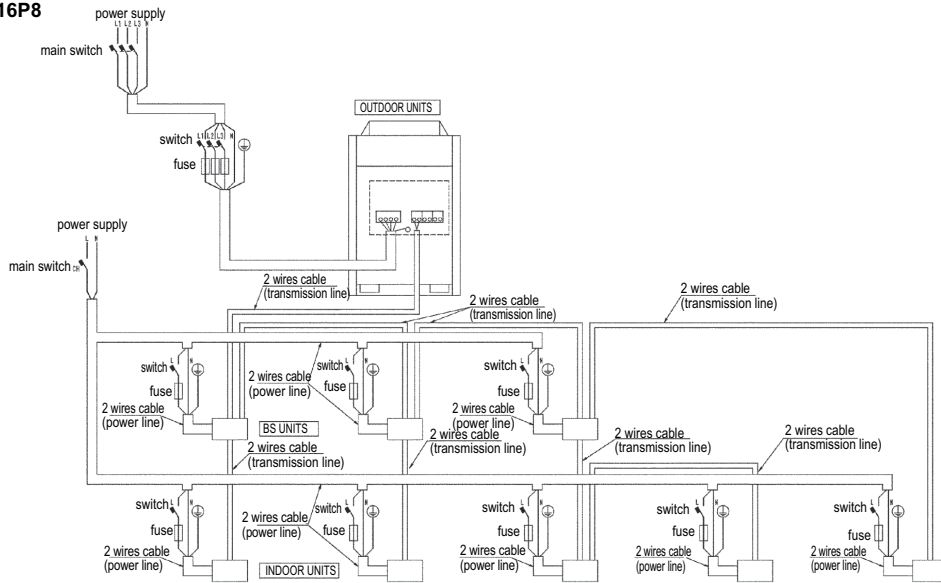
11 External connection diagrams

11 - 1 External Connection Diagrams

11

REYQ8,12P9

REYQ10,14,16P8



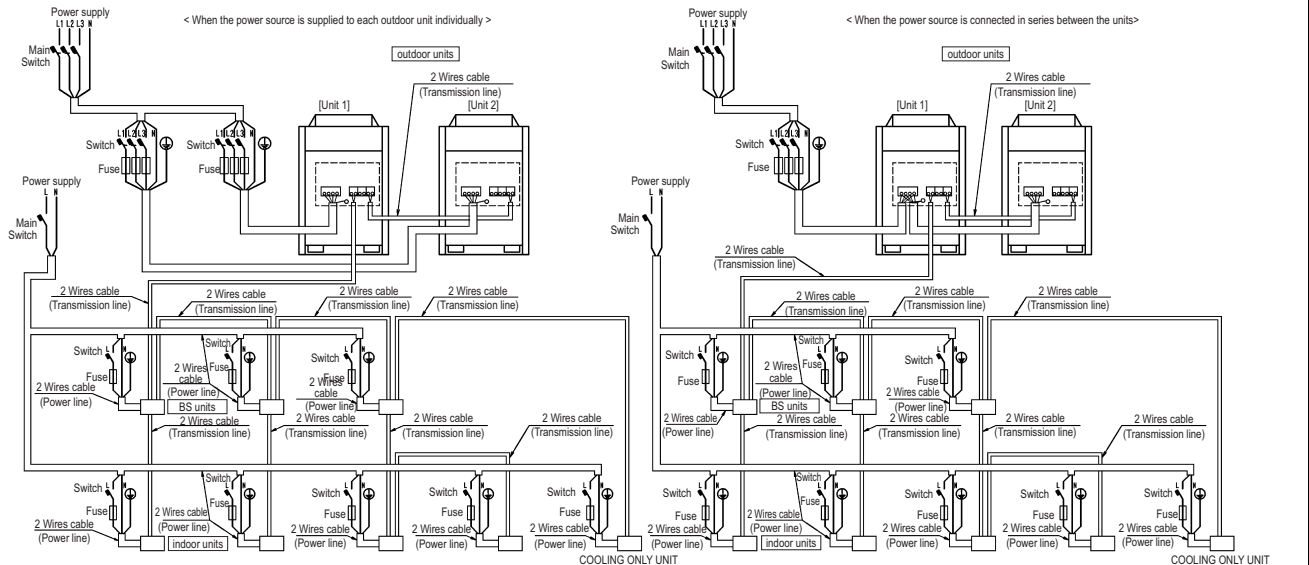
NOTES

- 1 All wiring, components and materials to be procured on the site must comply with the applicable local and national codes
- 2 Use copper conductors only.
- 3 As for details, see wiring diagram.
- 4 Install circuit breaker for safety.
- 5 All field wiring and components must be provided by licensed electrician.
- 6 Unit shall be grounded in compliance with the applicable local and national codes
- 7 Wiring shown are general points-of-connection guides only and are not intended for or to include all details for a specific installation.
- 8 Be sure to install the switch and the fuse to the power line of each equipment.
- 9 Install the main switch that can interrupt all the power sources in an integrated manner because this system consists of the equipment utilizing the multiple power sources.
- 10 If there exists the possibility of reversed phase, lose phase, momentary blackout or the power goes on and off while the product is operating, attach a reversed phase protection circuit locally. Running the product in reversed phase may break the compressor and other parts.

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REYQ18,20P9

REYQ22-32P8



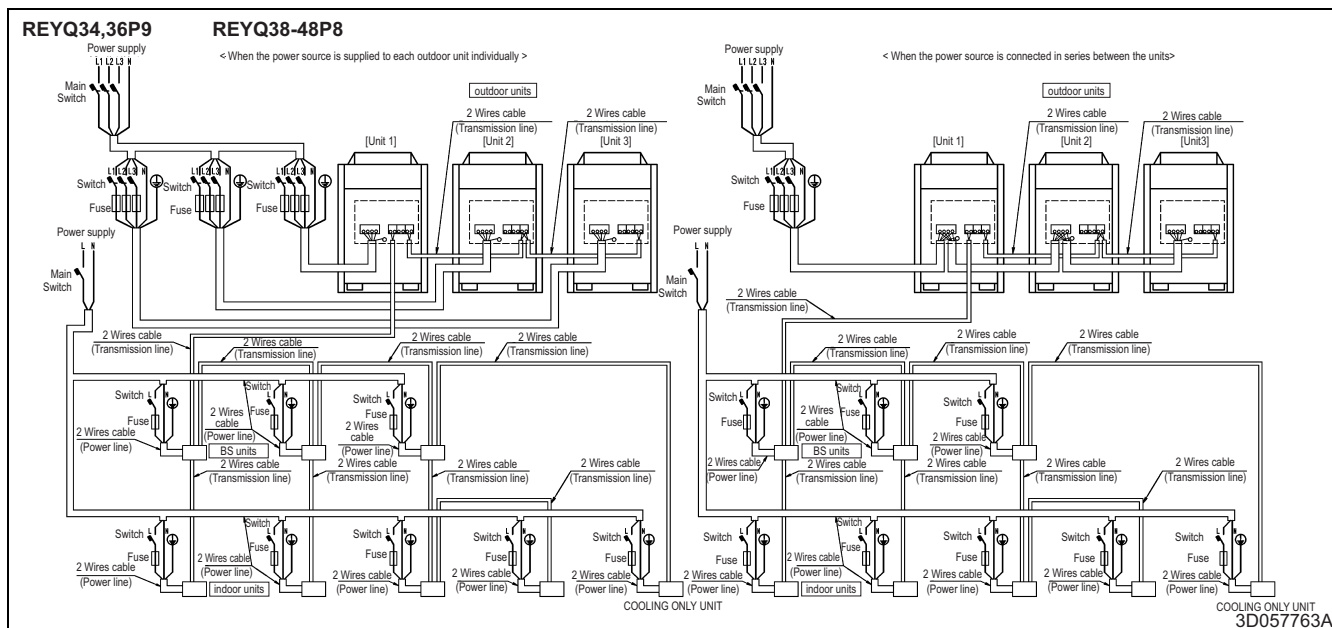
NOTES

1. All wiring, components and materials to be procured on the site must comply with the applicable local and national codes.
2. Use copper conductors only.
3. As for details, see wiring diagram.
4. Install circuit breaker for safety.
5. All field wiring and components must be provided by licensed electrician.
6. Unit shall be grounded in compliance with the applicable local and national codes.
7. Wiring shown are general points-of-connection guides only and are not intended for or to include all details for a specific installation.
8. Be sure to install the switch and the fuse to the power line of each equipment.
9. Install the main switch that can interrupt all the power sources in an integrated manner because this system consists of the equipment utilizing the multiple power sources.
10. The capacity of UNIT1 must be larger than UNIT2 when the power source is connected in series between the units.
11. If there exists the possibility of reversed phase, lose phase, momentary blackout or the power goes on and off while the product is operating, attach a reversed phase protection circuit locally. Running the product in reversed phase may break the compressor and other parts.
12. Must install earth leakage circuit breaker.

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11 External connection diagrams

11 - 1 External Connection Diagrams



NOTES

1. All wiring, components and materials to be procured on the site must comply with the applicable local and national codes.
2. Use copper conductors only.
3. As for details, see wiring diagram.
4. Install circuit breaker for safety.
5. All field wiring and components must be provided by licensed electrician.
6. Unit shall be grounded in compliance with the applicable local and national codes.
7. Wiring shown are general points-of-connection guides only and are not intended for or to include all details for a specific installation.
8. Be sure to install the switch and the fuse to the power line of each equipment.
9. Install the main switch that can interrupt all the power sources in an integrated manner because this system consists of the equipment utilizing the multiple power sources.
10. The capacity of UNIT1 must be larger than UNIT2 when the power source is connected in series between the units.
11. If there exists the possibility of reversed phase, lose phase, momentary blackout or the power goes on and off while the product is operating, attach a reversed phase protection circuit locally.
Running the product in reversed phase may break the compressor and other parts.
12. Must install earth leakage circuit breaker.

12 Sound data

12 - 1 Sound Level Data

REYQ18,20,34,36P9 - REYQ22~32,38~48P8

Sound power and pressure (Cooling)

Unit	Sound Power	Sound Pressure
	[dBA]	[dBA]
REYQ18P9	81	61
REYQ20P9	83	62
REYQ22P8	83	63
REYQ24P8	83	63
REYQ26P8	83	63
REYQ28P8	83	63
REYQ30P8	83	63
REYQ32P8	83	63
REYQ34P9	84	64
REYQ36P9	85	64
REYQ38P8	85	65
REYQ40P8	85	65
REYQ42P8	85	65
REYQ44P8	85	65
REYQ46P8	85	65
REYQ48P8	85	65

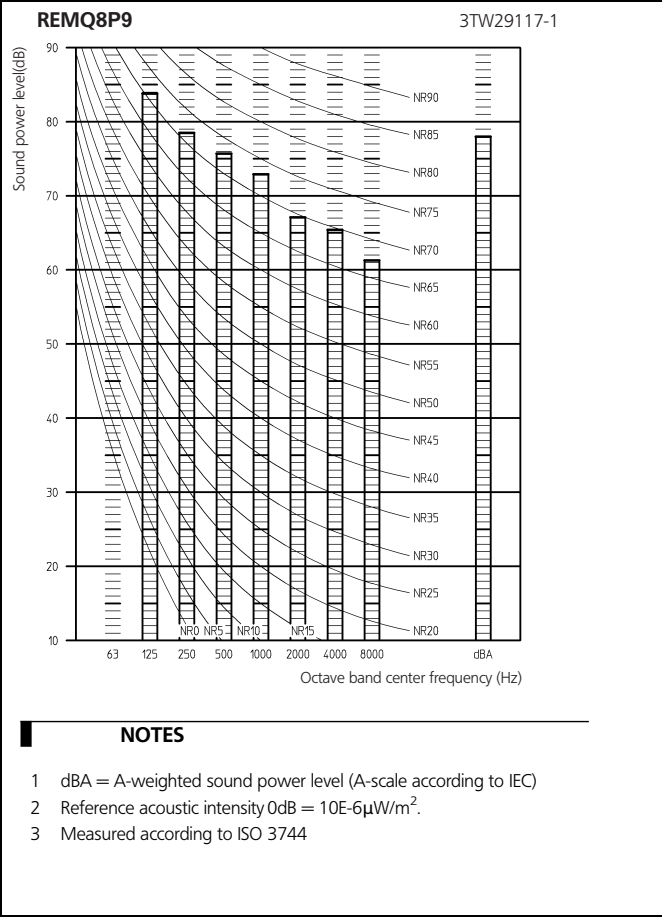
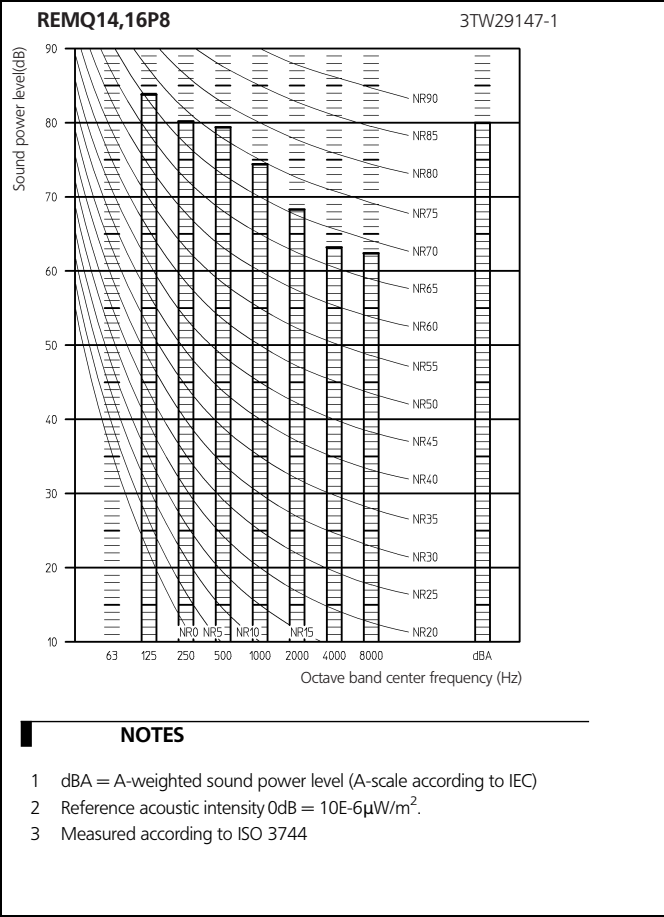
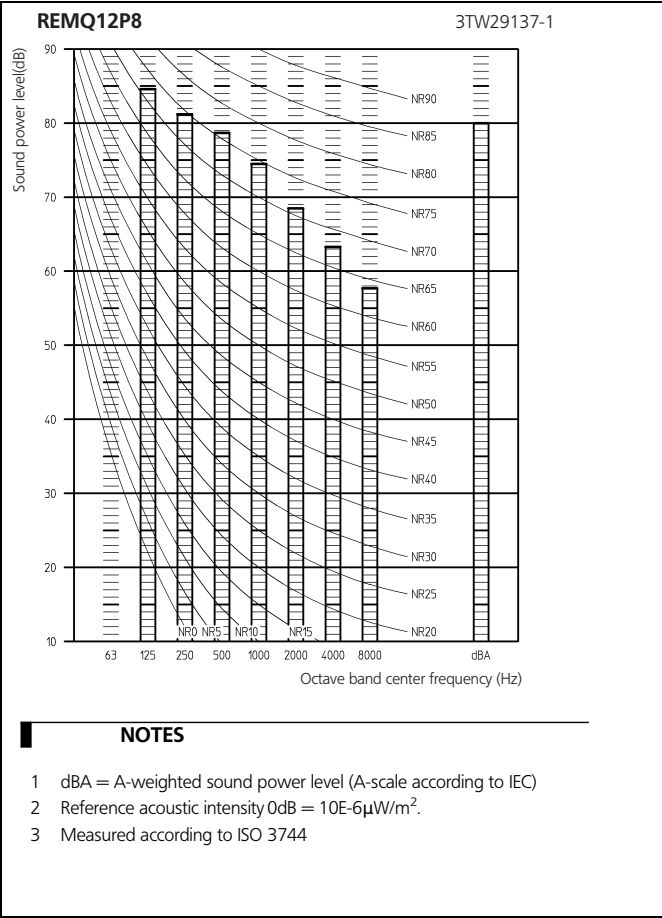
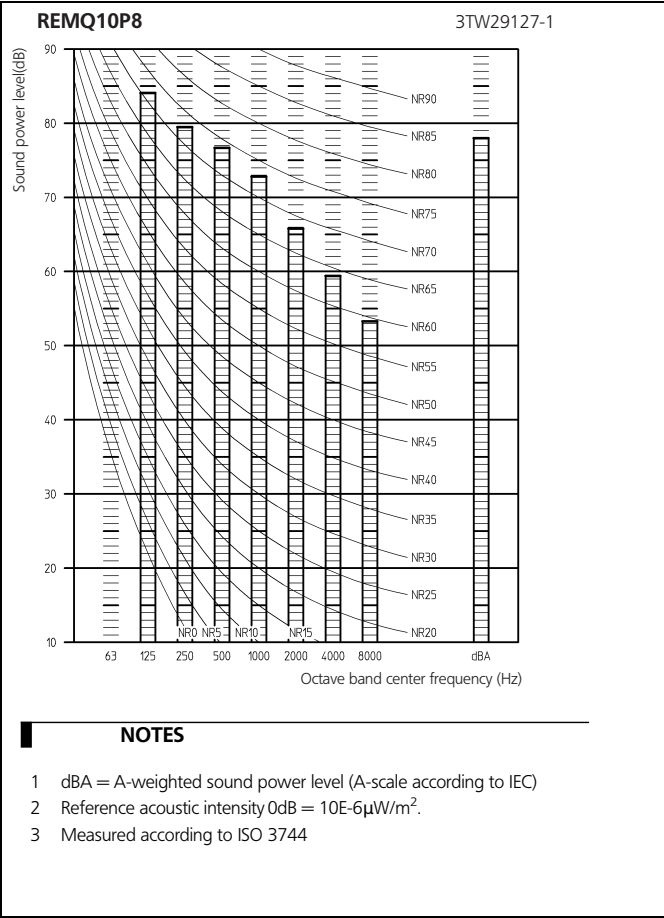
4TW29127-2A

NOTES

- 1 Sound power level is an absolute value that a sound source generates.
- 2 Sound pressure level is a relative value, depending on the distance and acoustic environment. For more details, please refer to the sound level drawings.
- 3 Mentioned values are theoretical values based on sound results of individual installed units. Possible deviations for sound values due to variety of installation patterns are not taken into account.

12 Sound data

12 - 2 Sound Power Spectrum

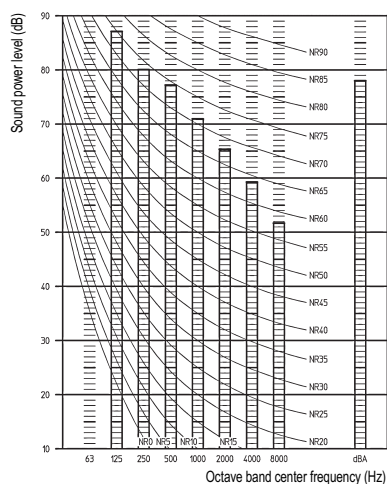


12 Sound data

12 - 2 Sound Power Spectrum

12

REYQ8P9

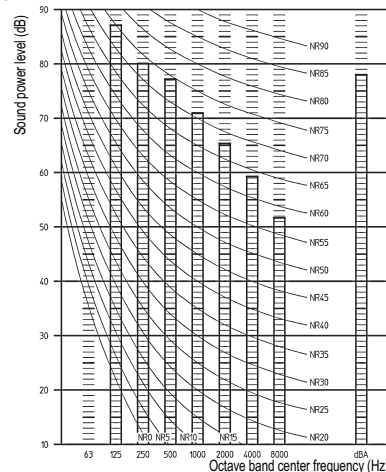


3TW30327-1

NOTE

- 1 dBA = A-weighted sound power level. (A-scale according to IEC).
- 2 Reference acoustic intensity $0\text{dB} = 10\text{E-}6\mu\text{W/m}^2$.
- 3 Measured according to ISO 3744

REYQ10P8

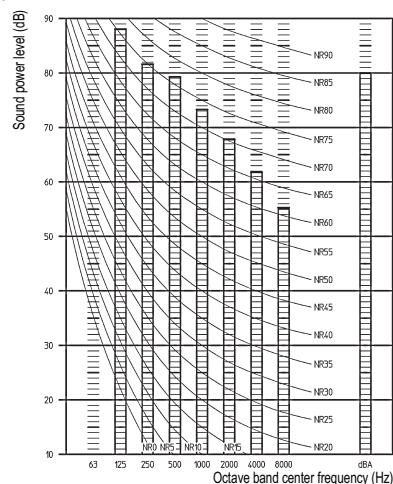


3TW30337-1

NOTE

- 1 dBA = A-weighted sound power level. (A-scale according to IEC).
- 2 Reference acoustic intensity $0\text{dB} = 10\text{E-}6\mu\text{W/m}^2$.
- 3 Measured according to ISO 3744

REYQ12P9

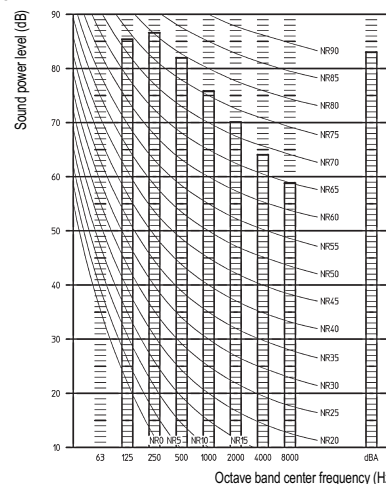


3TW30347-1

NOTE

- 1 dBA = A-weighted sound power level. (A-scale according to IEC).
- 2 Reference acoustic intensity $0\text{dB} = 10\text{E-}6\mu\text{W/m}^2$.
- 3 Measured according to ISO 3744

REYQ14P8



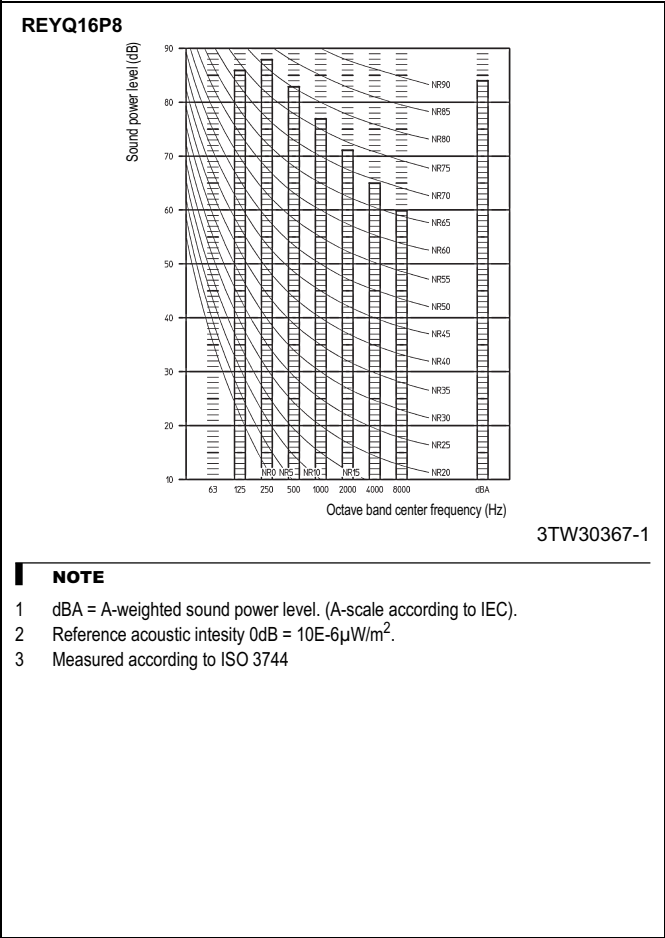
3TW30357-1

NOTE

- 1 dBA = A-weighted sound power level. (A-scale according to IEC).
- 2 Reference acoustic intensity $0\text{dB} = 10\text{E-}6\mu\text{W/m}^2$.
- 3 Measured according to ISO 3744

12 Sound data

12 - 2 Sound Power Spectrum



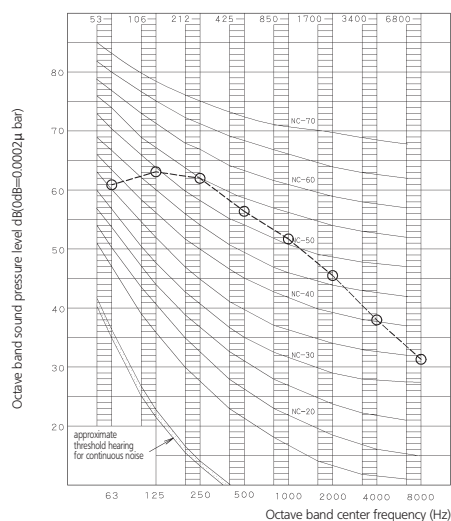
12 Sound data

12 - 3 Sound Pressure Spectrum

12

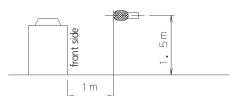
REM-Q10P8

4D057844



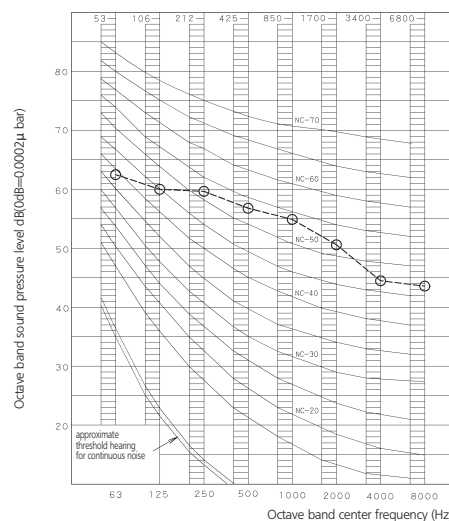
NOTES

- Over all (dB)
(B,G,N is already rectified)
- Operating conditions:
• Power source: Y1: 380-415V 50Hz
• JIS standard
Measuring place: Anechoic chamber (conversion value)
- 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 environmental noise and sound reflection.
- Location of microphone



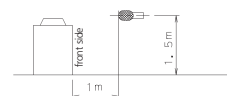
REM-Q12P8

4D057894



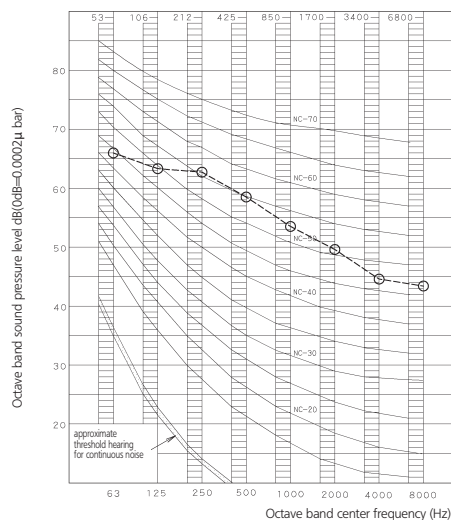
NOTES

- Over all (dB)
(B,G,N is already rectified)
- Operating conditions:
• Power source: Y1: 380-415V 50Hz
• JIS standard
Measuring place: Anechoic chamber (conversion value)
- 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 environmental noise and sound reflection.
- Location of microphone



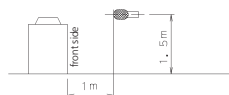
REM-Q14,16P9

4D057845



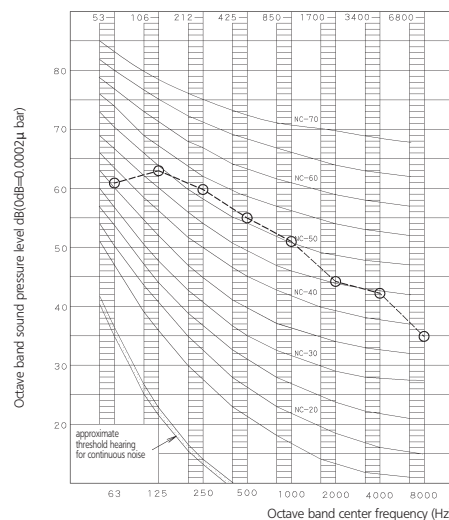
NOTES

- Over all (dB)
(B,G,N is already rectified)
- Operating conditions:
• Power source: Y1: 380-415V 50Hz
• JIS standard
Measuring place: Anechoic chamber (conversion value)
- 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 environmental noise and sound reflection.
- Location of microphone



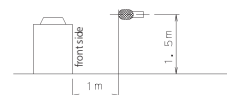
REM-Q8P9

4D057843



NOTES

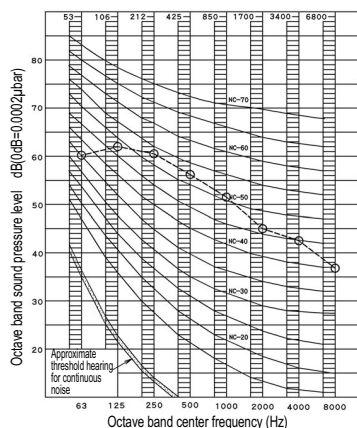
- Over all (dB)
(B,G,N is already rectified)
- Operating conditions:
• Power source: Y1: 380-415V 50Hz
• JIS standard
Measuring place: Anechoic chamber (conversion value)
- The operating sound is measured in anechoic chamber, if it is measured under the actual installation conditions, it is normally over the set value due to environmental noise and sound reflection.
- Location of microphone



12 Sound data

12 - 3 Sound Pressure Spectrum

REYQ8P9

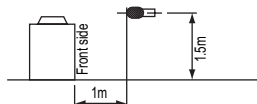


4D058294A

NOTE

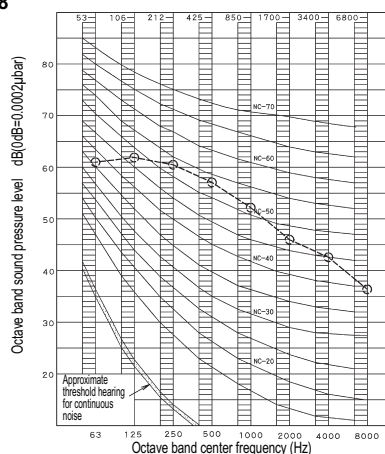
- Over All (dB):
(B, G, N is already rectified)
- Operating conditons:
 - Power source: Y1: 380-415V 50Hz
 - JIS Standard
- Measuring place: Anechoic chamber (Conversion value)
- Location of microphone

Scale	50Hz
A	58
C	66



- 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 environmental noise and sound reflection.

REYQ10P8

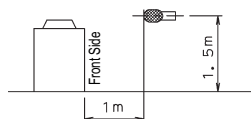


4D058295A

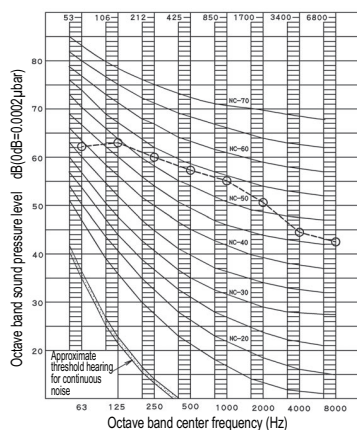
NOTE

- Over All (dB):
(B, G, N is already rectified)
- Operating conditons:
 - Power source Y1: 380-415V 50Hz
 - JIS standard
- Measuring place: Anechoic chamber (conversion value)
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 environmental noise and sound reflection.
- Location of microphone

Scale	50Hz
A	58
C	66



REYQ12P9

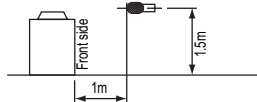


4D058296A

NOTE

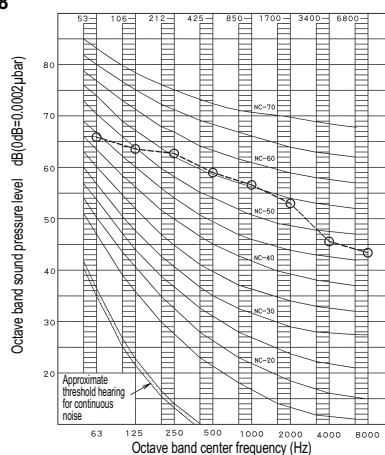
- Over All (dB):
(B, G, N is already rectified)
- Operating conditons:
 - Power source: Y1: 380-415V 50Hz
 - JIS Standard
- Measuring place: Anechoic chamber (Conversion value)
- Location of microphone

Scale	50Hz
A	60
C	67



- 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 environmental noise and sound reflection.

REYQ14P8

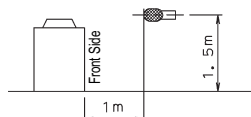


4D058297A

NOTE

- Over All (dB):
(B, G, N is already rectified)
- Operating conditons:
 - Power source Y1: 380-415V 50Hz
 - JIS standard
- Measuring place: Anechoic chamber (conversion value)
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 environmental noise and sound reflection.
- Location of microphone:

Scale	50Hz
A	62
C	69

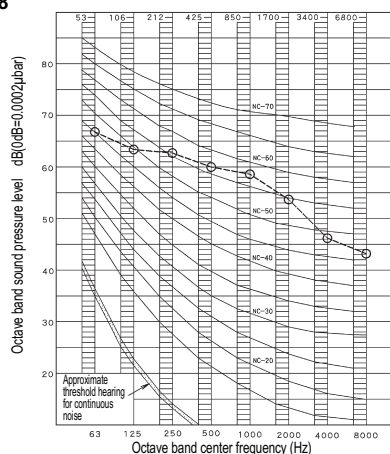


12 Sound data

12 - 3 Sound Pressure Spectrum

12

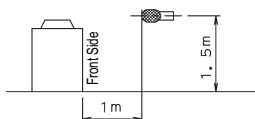
REYQ16P8



4D058298A

NOTE

- Over All (dB):
(B, G, N is already rectified)
- Operating conditons:
 - Power source Y1: 380-415V 50Hz
 - JIS standard
- Measuring place: Anechoic chamber (conversion value)
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 environmental noise and sound reflection.
- Location of microphone

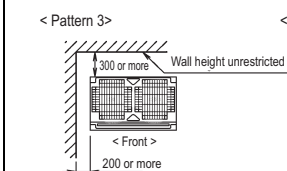
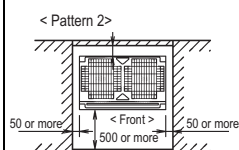
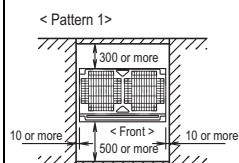


13 Installation

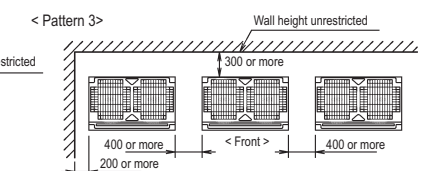
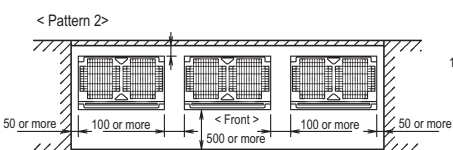
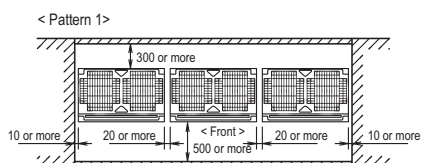
13 - 1 Service Space

REYQ-P8/P9
REMQ-P8/P9

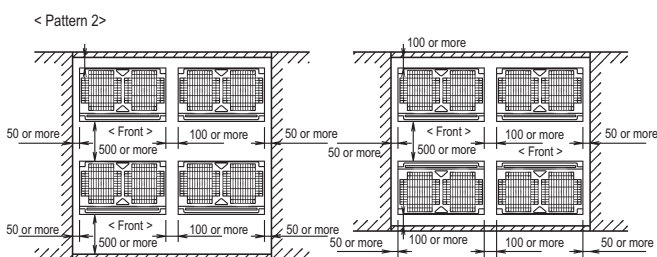
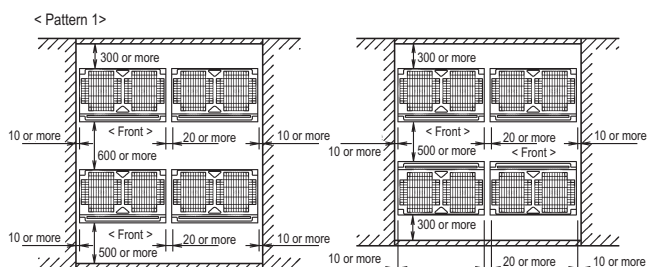
For single unit installation



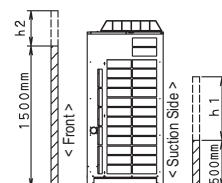
For installation in rows



For centralized group layout



< Unit mm >



3D0514514U

NOTES

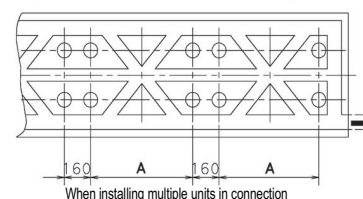
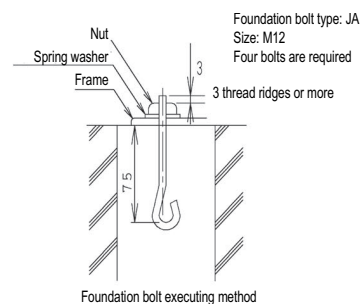
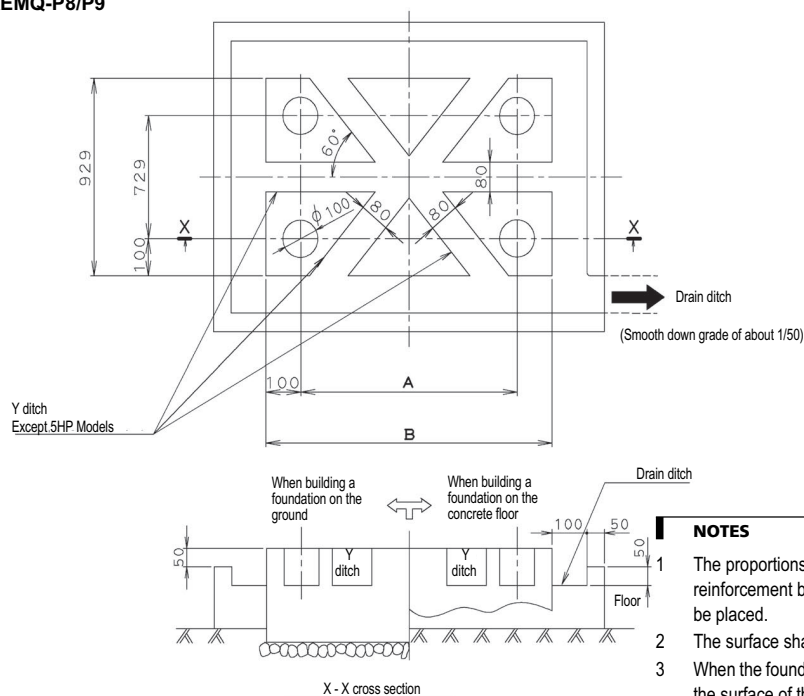
- Heights of walls in case of Patterns 1 and 2:
Front: 1500mm
Suction side: 500mm
Side: Height unrestricted.
Installation space to be shown in this drawing is based on the cooling operation at 35 degrees outdoor air temperature. When the design outdoor air temperature exceeds 35 degrees or the load exceeds maximum ability because of much generation load of heat in all outdoor units, take the suction side space more broadly than the space to be shown in this drawing.
- If the above wall heights are exceeded then $h_2/2$ and $h_1/2$ should be added to the front and suction side service spaces respectively as shown in the figure on the right.
- When installing the units most appropriate pattern should be selected from those shown above in order to obtain the best fit in the space available always bearing in mind the need to leave enough space for a person to pass between units and wall and for the air to circulate freely. (If more units are to be installed than are catered for in the above patterns your layout should take account of the possibility of short circuits.)
- The units should be installed to leave sufficient space at the front for the on site refrigerant piping work to be carried out comfortably.

13 Installation

13 - 2 Fixation and Foundation of Units

13

REYQ-P8/P9
REM-Q-P8/P9



NOTES

- 1 The proportions of cement:sand:gravel for the concrete shall be 1:2:4, and the reinforcement bars that their diameter are 10mm, (Approx. 300mm intervals) shall be placed.
- 2 The surface shall be finished with mortar. The corner edges shall be chamfered.
- 3 When the foundation is built on a concrete floor, rubble is not necessary. However, the surface of the section on which the foundation is built shall have rough finish.
- 4 A drain ditch shall be made around the foundation to thoroughly drain water from the equipment installation area.
- 5 When installing the equipment on a roof, the floor strength shall be checked, and water-proofing measures shall be taken.
- 6 Y ditch is not necessary for 5HP models.

Model	A	B
REMQ10P8 REMQ8,12P9	792	992
REMQ14,16P8	1102	1302
REYQ8,12P9 REYQ10,12,14,16P8	1162	1362

3D040102Z

13 Installation

13 - 3 Refrigerant Pipe Selection

REMQ-P8/P9
REMHQ-P8

13

E. Piping between refrigerant branch kit and BS unit

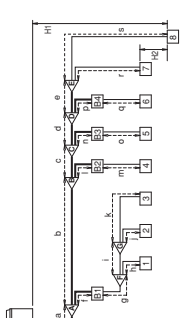
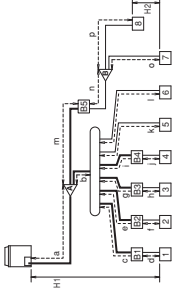
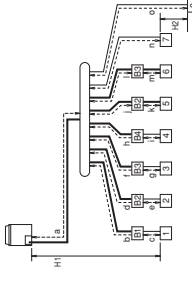
Pipe size for direct connection to indoor unit must be the same as the connection size of indoor unit. Choose from the following table in accordance with the indoor unit total capacity type, connected downstream.

Indoor unit capacity type	Suction gas pipe	HP/LP gas pipe	Liquid pipe
<150	15.9	12.7	9.5
150-x<200	19.1	15.9	9.5
200-x<280	22.2	19.1	9.5
280-x<350	25.4	22.2	12.7
350-x<420	28.6	25.4	15.9
420-x<490	31.8	28.6	19.1
490-x<560	35.0	31.8	22.2
560-x<630	38.2	35.0	25.4
630-x<700	41.3	38.2	28.6
700-x<770	44.5	41.3	31.8
770-x<840	47.7	44.5	35.0
840-x<910	50.9	47.7	38.2
910-x<980	54.1	50.9	41.3
980-x<1050	57.3	54.1	44.5
1050-x<1120	60.5	57.3	47.7
1120-x<1190	63.7	60.5	50.9
1190-x<1260	66.9	63.7	54.1
1260-x<1330	70.1	66.9	57.3
1330-x<1400	73.3	70.1	60.5
1400-x<1470	76.5	73.3	63.7
1470-x<1540	79.7	76.5	66.9
1540-x<1610	82.9	79.7	70.1
1610-x<1680	86.1	82.9	73.3
1680-x<1750	89.3	86.1	76.5
1750-x<1820	92.5	89.3	79.7
1820-x<1890	95.7	92.5	82.9
1890-x<1960	98.9	95.7	86.1
1960-x<2030	102.1	98.9	89.3
2030-x<2100	105.3	102.1	92.5
2100-x<2170	108.5	105.3	95.7
2170-x<2240	111.7	108.5	98.9
2240-x<2310	114.9	111.7	102.1
2310-x<2380	118.1	114.9	105.3
2380-x<2450	121.3	118.1	108.5
2450-x<2520	124.5	121.3	111.7
2520-x<2590	127.7	124.5	114.9
2590-x<2660	130.9	127.7	118.1
2660-x<2730	134.1	130.9	121.3
2730-x<2800	137.3	134.1	124.5
2800-x<2870	140.5	137.3	127.7
2870-x<2940	143.7	140.5	130.9
2940-x<3010	146.9	143.7	134.1
3010-x<3080	150.1	146.9	137.3
3080-x<3150	153.3	150.1	140.5
3150-x<3220	156.5	153.3	143.7
3220-x<3290	159.7	156.5	146.9
3290-x<3360	162.9	159.7	150.1
3360-x<3430	166.1	162.9	153.3
3430-x<3500	169.3	166.1	156.5
3500-x<3570	172.5	169.3	159.7
3570-x<3640	175.7	172.5	162.9
3640-x<3710	178.9	175.7	166.1
3710-x<3780	182.1	178.9	169.3
3780-x<3850	185.3	182.1	172.5
3850-x<3920	188.5	185.3	175.7
3920-x<3990	191.7	188.5	178.9
3990-x<4060	194.9	191.7	182.1
4060-x<4130	198.1	194.9	185.3
4130-x<4200	201.3	198.1	188.5
4200-x<4270	204.5	201.3	191.7
4270-x<4340	207.7	204.5	194.9
4340-x<4410	210.9	207.7	198.1
4410-x<4480	214.1	210.9	201.3
4480-x<4550	217.3	214.1	204.5
4550-x<4620	220.5	217.3	207.7
4620-x<4690	223.7	220.5	210.9
4690-x<4760	226.9	223.7	214.1
4760-x<4830	230.1	226.9	217.3
4830-x<4900	233.3	230.1	220.5
4900-x<4970	236.5	233.3	223.7
4970-x<5040	239.7	236.5	226.9
5040-x<5110	242.9	239.7	230.1
5110-x<5180	246.1	242.9	233.3
5180-x<5250	249.3	246.1	236.5
5250-x<5320	252.5	249.3	239.7
5320-x<5390	255.7	252.5	242.9
5390-x<5460	258.9	255.7	246.1
5460-x<5530	262.1	258.9	249.3
5530-x<5600	265.3	262.1	252.5
5600-x<5670	268.5	265.3	255.7
5670-x<5740	271.7	268.5	258.9
5740-x<5810	274.9	271.7	262.1
5810-x<5880	278.1	274.9	265.3
5880-x<5950	281.3	278.1	268.5
5950-x<6020	284.5	281.3	271.7
6020-x<6090	287.7	284.5	274.9
6090-x<6160	290.9	287.7	278.1
6160-x<6230	294.1	290.9	281.3
6230-x<6300	297.3	294.1	284.5
6300-x<6370	300.5	297.3	287.7
6370-x<6440	303.7	300.5	290.9
6440-x<6510	306.9	303.7	294.1
6510-x<6580	310.1	306.9	297.3
6580-x<6650	313.3	310.1	300.5
6650-x<6720	316.5	313.3	303.7
6720-x<6790	319.7	316.5	306.9
6790-x<6860	322.9	319.7	310.1
6860-x<6930	326.1	322.9	313.3
6930-x<7000	329.3	326.1	316.5
7000-x<7070	332.5	329.3	319.7
7070-x<7140	335.7	332.5	322.9
7140-x<7210	338.9	335.7	326.1
7210-x<7280	342.1	338.9	329.3
7280-x<7350	345.3	342.1	332.5
7350-x<7420	348.5	345.3	335.7
7420-x<7490	351.7	348.5	338.9
7490-x<7560	354.9	351.7	342.1
7560-x<7630	358.1	354.9	345.3
7630-x<7700	361.3	358.1	348.5
7700-x<7770	364.5	361.3	351.7
7770-x<7840	367.7	364.5	354.9
7840-x<7910	370.9	367.7	358.1
7910-x<7980	374.1	370.9	361.3
7980-x<8050	377.3	374.1	364.5
8050-x<8120	380.5	377.3	367.7
8120-x<8190	383.7	380.5	370.9
8190-x<8260	386.9	383.7	374.1
8260-x<8330	390.1	386.9	377.3
8330-x<8400	393.3	390.1	380.5
8400-x<8470	396.5	393.3	383.7
8470-x<8540	399.7	396.5	386.9
8540-x<8610	402.9	399.7	390.1
8610-x<8680	406.1	402.9	393.3
8680-x<8750	409.3	406.1	396.5
8750-x<8820	412.5	409.3	399.7
8820-x<8890	415.7	412.5	402.9
8890-x<8960	418.9	415.7	406.1
8960-x<9030	422.1	418.9	409.3
9030-x<9100	425.3	422.1	412.5
9100-x<9170	428.5	425.3	415.7
9170-x<9240	431.7	428.5	418.9
9240-x<9310	434.9	431.7	422.1
9310-x<9380	438.1	434.9	425.3
9380-x<9450	441.3	438.1	428.5
9450-x<9520	444.5	441.3	431.7
9520-x<9590	447.7	444.5	434.9
9590-x<9660	450.9	447.7	438.1
9660-x<9730	454.1	450.9	441.3
9730-x<9800	457.3	454.1	444.5
9800-x<9870	460.5	457.3	447.7
9870-x<9940	463.7	460.5	450.9
9940-x<10010	466.9	463.7	454.1
10010-x<10080	470.1	466.9	457.3
10080-x<10150	473.3	470.1	460.5
10150-x<10220	476.5	473.3	463.7
10220-x<10290	479.7	476.5	466.9
10290-x<10360	482.9	479.7	470.1
10360-x<10430	486.1	482.9	473.3
10430-x<10500	489.3	486.1	476.5
10500-x<10570	492.5	489.3	479.7
10570-x<10640	495.7	492.5	482.9
10640-x<10710	498.9	495.7	486.1
10710-x<10780	502.1	498.9	489.3
10780-x<10850	505.3	502.1	492.5
10850-x<10920	508.5	505.3	495.7
10920-x<10990	511.7	508.5	498.9
10990-x<11060	514.9	511.7	502.1
11060-x<11130	518.1	514.9	505.3
11130-x<11200	521.3	518.1	508.5
11200-x<11270	524.5	521.3	511.7
11270-x<11340	527.7	524.5	514.9
11340-x<11410	530.9	527.7	518.1
11410-x<11480	534.1	530.9	521.3
11480-x<11550	537.3	534.1	524.5
11550-x<11620	540.5	537.3	527.7
11620-x<11690	543.7	540.5	530.9
11690-x<11760	546.9	543.7	534.1
11760-x<11830	550.1	546.9	537.3
11830-x<11900	553.3	550.1	540.5
11900-x<11970	556.5	553.3	543.7
11970-x<12040	559.7	556.5	546.9
12040-x<12110	562.9	559.7	550.1
12110-x<12180	566.1	562.9	553.3
12180-x<12250	569.3	566.1	556.5
12250-x<12320	572.5	569.3	559.7
12320-x<12390	575.7	572.5	562.9
12390-x<12460	578.9	575.7	566.1
12460-x<12530	582.1	578.9	569.3
12530-x<12600	585.3	582.1	572.5
12600-x<12670	588.5	585.3	575.7
12670-x<12740	591.7	588.5	578.9
12740-x<12810	594.9	591.7	582.1
12810-x<12880	598.1	594.9	585.3
12880-x<12950	601.3	598.1	588.5
12950-x<13020	604.5	601.3	591.7
13020-x<13090	607.7	604.5	594.9
13090-x<13160	610.9	607.7	598.1
13160-x<13230	614.1	610.9	601.3
13230-x<13300	617.3	614.1	604.5
13300-x<13370	620.5	617.3	607.7
13370-x<13440	623.7	620.5	610.9
13440-x<13510	626.9	623.7	614.1
13510-x<13580	630.1	626.9	617.3
13580-x<13650	633.3	630.1	620.5
13650-x<13720	636.5	633.3	623.7
13720-x<13790	639.7	636.5	626.9
13790-x<13860	642.9	639.7	630.1
13860-x<13930	646.1	642.9	633.3
13930-x<14000	649.3	646.1	636.5
14000-x<14070	652.5	649.3	639.7
14070-x<14140	655.7	652.5	642.9
14140-x<14210	658.9	655.7	646.1
14210-x<14280	662.1	658.9	649.3
14280-x<14350	665.3	662.1	652.5
14350-x<14420	668.5	665.3	655.7
14420-x<14490	671.7	668.5	658.9
14490-x<14560	674.9	671.7	662.1
14560-x<14630	678.1	674.9	665.3
14630-x<14700	681.3	678.1	668.5
14700-x<14770	684.5	681.3	671.7
14770-x<14840	687.7	684.5	674.9
14840-x<14910	690.9	687.7	678.1
14910-x<14980	694.1	690.9	681.3
14980-x<15050	697.3	694.1	684.5
15050-x<15120	700.5	697.3	687.7
15120-x<15190	703.7	700.5	690.9
15190-x<15260	706.9	703.7	694.1
15260-x<15330	710.1	706.9	697.3
15330-x<15400	713.3	710.1	700.5
15400-x<15470	716.5	713.3	703.7
15470-x<15540	719.7	716.5	706.9
15540-x<15610	722.9	719.7	710.1
15610-x<15680	726.1	722.9	713.3
15680-x<15750	729.3	726.1	716.5
15750-x<15820	732.5	729.3	719.7
15820-x<15890	735.7	732.5	722.9
15890-x<15960	738.9	735.7	726.1
15960-x<16030	742.1	738.9	729.3
16030-x<16100	745.3	742.1	732.

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13 - 3 Refrigerant Pipe Selection

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Example of connection (Connection of 8 indoor units)		Branch with refnet joint	Branch with refnet joint and refnet header	Branch with refnet header																										
Outdoor unit side (3 pipes) Suction gas pipe High pressure/low pressure gas pipe Liquid pipe BS unit Indoor unit side (2 pipes) Gas pipe Liquid pipe		 1 indoor unit refnet joint		 Outdoor unit side (3 pipes) Indoor unit side (2 pipes)																										
Maximum allowable length	Single outdoor unit system (REYQ8~16)	Pipe length between outdoor and indoor units ≤165 m [Example] unit 8: a+b+c+d+e+s≤165 m	[Example] unit 6: a+b+L≤165 m, unit 8: a+m+n+p≤165 m	[Example] unit 8: a+o≤165 m																										
	Between outdoor and indoor units	Equivalent length	Equivalent pipe length between outdoor and indoor units ≤190 m (Assume equivalent pipe length of the refnet joint to be 0.5 m, of the refnet header to be 1.0 m, of the BSVQ100 and BSVQ160 to be 4 m and of the BSVQ250 to be 6 m (for calculation purposes)) (See note 1 on next page)																											
Allowable height difference	Between outdoor and indoor units	Total extension length	Total piping length from outdoor to all indoor units ≤1000 m																											
	Between indoor and indoor units		Difference in height between outdoor and indoor units (H1)≤50 m if outdoor unit is located in a lower position). Difference in height between adjacent indoor units (H2)≤15 m																											
Allowable length after the branch		Actual pipe length	Pipe length from first refrigerant branch kit (either refnet joint or refnet header) to indoor unit ≤40 m (See note 2 on next page) [Example] unit 8: b+L≤40 m, unit 8: m+n+p≤40 m	[Example] unit 8: o≤40 m																										
	Refrigerant branch kit selection	Outdoor unit capacity type (Hp) 8+10 12~16 Refrigerant branch kit name KHRQ23M29T9 KHRQ23M64T For refnet joints other than the first branch, select the proper branch kit model based on the total capacity index of all indoor units connected after the refrigerant branch. <table><tr><th rowspan="2">Indoor capacity type</th><th colspan="2">Refrigerant branch kit name</th></tr><tr><th>3 pipes</th><th>2 pipes</th></tr><tr><td><200</td><td>KHRQ23M20T</td><td>KHRQ22M20T</td></tr><tr><td>200~x<290</td><td>KHRQ23M29T9</td><td>KHRQ22M29T</td></tr><tr><td>290~x<640</td><td>KHRQ23M64T</td><td>KHRQ22M64T</td></tr><tr><td>≥640</td><td>KHRQ23M75T</td><td>KHRQ22M75T</td></tr></table> How to select the refnet joint When using refnet joints at the first branch counted from the outdoor unit side, choose from the following table in accordance with the capacity of the outdoor unit (example: refnet joint A). <table><tr><th>Indoor capacity type</th><th>Refrigerant branch kit name</th></tr><tr><td><200</td><td>KHRQ23M29H</td></tr><tr><td>200~x<290</td><td>KHRQ23M29H</td></tr><tr><td>290~x<640</td><td>KHRQ23M64H</td></tr><tr><td>≥640</td><td>KHRQ23M75H</td></tr></table> Note: 250 type indoor unit can not be connected lower than the refnet header.			Indoor capacity type	Refrigerant branch kit name		3 pipes	2 pipes	<200	KHRQ23M20T	KHRQ22M20T	200~x<290	KHRQ23M29T9	KHRQ22M29T	290~x<640	KHRQ23M64T	KHRQ22M64T	≥640	KHRQ23M75T	KHRQ22M75T	Indoor capacity type	Refrigerant branch kit name	<200	KHRQ23M29H	200~x<290	KHRQ23M29H	290~x<640	KHRQ23M64H	≥640
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Example of downstream indoor units		[Example] in case of refnet joint C: indoor units 5+6+7+8	[Example] in case of refnet joint B: indoor units 7+8, in case of refnet header: indoor units 1+2+3+4+5+6+7+8	[Example] in case of refnet header: indoor units 1+2+3+4+5+6+7+8																										

13 Installation

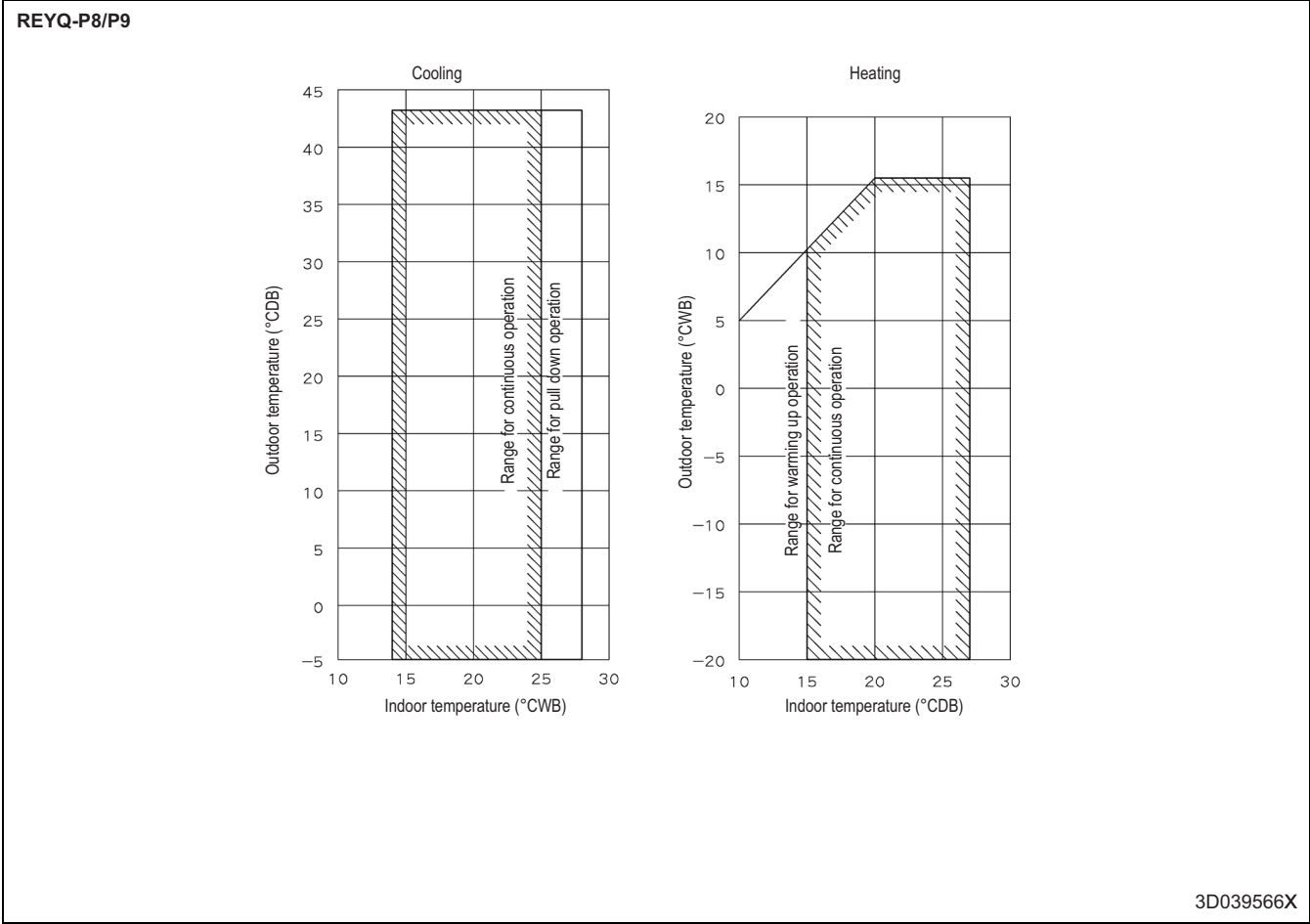
13 - 3 Refrigerant Pipe Selection

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Pipe size selection For an outdoor unit, select the pipe size in accordance with the following figure.	A. Piping between outdoor unit and refrigerant branch kit Choose from the following table in accordance with the outdoor unit total capacity type, connected downstream. <table><tr><th rowspan="2">Outdoor unit capacity type (Hp)</th><th colspan="3">Piping outer diameter size (mm)</th></tr><tr><th>Suction gas pipe</th><th>HP/LP gas pipe</th><th>Liquid pipe</th></tr><tr><td>8</td><td>19.1</td><td>15.9</td><td>9.5</td></tr><tr><td>10</td><td>22.2</td><td>19.1</td><td>9.5</td></tr><tr><td>12</td><td>28.6</td><td>19.1</td><td>12.7</td></tr><tr><td>14+16</td><td>28.6</td><td>22.2</td><td>12.7</td></tr></table>	Outdoor unit capacity type (Hp)	Piping outer diameter size (mm)			Suction gas pipe	HP/LP gas pipe	Liquid pipe	8	19.1	15.9	9.5	10	22.2	19.1	9.5	12	28.6	19.1	12.7	14+16	28.6	22.2	12.7	B. Piping between refrigerant branch kit and BS unit Pipe size for direct connection to indoor unit must be the same as the connection size of indoor unit. Choose from the following table in accordance with the indoor unit total capacity type, connected downstream. <table><tr><th>Indoor unit capacity type</th><th>Suction gas pipe</th><th>HP/LP gas pipe</th><th>Liquid pipe</th></tr><tr><td><150</td><td>15.9</td><td>12.7</td><td>9.5</td></tr><tr><td>150-sx<200</td><td>19.1</td><td>15.9</td><td>9.5</td></tr><tr><td>200-sx<290</td><td>22.2</td><td>19.1</td><td>9.5</td></tr><tr><td>290-sx<420</td><td>28.6</td><td>19.1</td><td>12.7</td></tr><tr><td>420-sx<640</td><td>28.6</td><td>28.6</td><td>15.9</td></tr><tr><td>640-sx<920</td><td>34.9</td><td>28.6</td><td>19.1</td></tr><tr><td>≥920</td><td>41.3</td><td>28.6</td><td>19.1</td></tr></table>	Indoor unit capacity type	Suction gas pipe	HP/LP gas pipe	Liquid pipe	<150	15.9	12.7	9.5	150-sx<200	19.1	15.9	9.5	200-sx<290	22.2	19.1	9.5	290-sx<420	28.6	19.1	12.7	420-sx<640	28.6	28.6	15.9	640-sx<920	34.9	28.6	19.1	≥920	41.3	28.6	19.1
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How to calculate the additional refrigerant to be charged Additional refrigerant to be charged R (kg) R should be rounded off in units of 0.1 kg	C. Piping between refrigerant branch kit or BS unit and indoor unit Choose from the following table in accordance with the capacity type of the connected indoor unit. <table><tr><th>Indoor unit capacity type</th><th>Suction gas pipe</th><th>HP/LP gas pipe</th><th>Liquid pipe</th></tr><tr><td>20, 25, 32, 40, 50</td><td>12.7</td><td>15.9</td><td>6.4</td></tr><tr><td>63, 80, 100, 125</td><td>15.9</td><td>19.1</td><td>9.5</td></tr><tr><td>200</td><td>19.1</td><td>22.2</td><td>9.5</td></tr><tr><td>250</td><td>22.2</td><td>28.6</td><td>9.5</td></tr></table>	Indoor unit capacity type	Suction gas pipe	HP/LP gas pipe	Liquid pipe	20, 25, 32, 40, 50	12.7	15.9	6.4	63, 80, 100, 125	15.9	19.1	9.5	200	19.1	22.2	9.5	250	22.2	28.6	9.5	R = $\left[\left(X_1 \times \frac{0.222}{0.127} \right) \times 0.37 \right] + \left[\left(X_2 \times \frac{0.191}{0.127} \right) \times 0.26 \right] + \left[\left(X_3 \times \frac{0.159}{0.127} \right) \times 0.18 \right] + \left[\left(X_4 \times \frac{0.127}{0.127} \right) \times 0.12 \right] + \left[\left(X_5 \times \frac{0.095}{0.127} \right) \times 0.059 \right] + \left[\left(X_6 \times \frac{0.064}{0.127} \right) \times 0.022 \right] \times 1.02 + 3.6 + A$ X₁₋₆ = Total length (m) of liquid piping size at Øa A = Weight according to table A in function of indoor unit connection ratio																																			
Indoor unit capacity type	Suction gas pipe	HP/LP gas pipe	Liquid pipe																																																						
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Note 1	When the equivalent pipe length between outdoor and indoor units is 90 m or more, the size of the main liquid pipe must be increased. Never increase suction gas pipe and HP/LP gas pipe sizes. Depending on the length of the piping, the capacity may drop, but even in such a case it is possible to increase the size of the main liquid pipe.	Note 2																																																							
Note 2	Allowable length after the first refrigerant branch kit to indoor units is 40 m or less, however it can be extended up to 90 m if all the following conditions are fulfilled. Required conditions It is necessary to increase the pipe size of the liquid and suction gas pipe if the pipe length between the first and the final branch kit is over 40 m (reducers must be procured on site). Increasing the HP/LP gas pipe size is not allowed. ■ If the increased liquid pipe size is larger than the pipe size of the main liquid pipe, then the pipe size of the main liquid pipe needs to be increased as well. ■ If the increased suction gas pipe size is larger than the pipe size of the main suction gas pipe, then the allowable length after the first refrigerant branch kit may not be increased to 90 m. Size-up of the main suction gas pipe may affect a good oil return to the outdoor unit due to influence of the HP/LP gas pipe. For calculation of total extension length, the actual length of above pipes must be doubled (except length of main pipes and of pipes which do not have an increased pipe size). Indoor unit to the nearest branch kit ≤40 m The difference between the distance of the outdoor unit to the farthest indoor unit and the distance of the outdoor unit to the nearest indoor unit ≤40 m	Example drawings Indoor unit 8: b-c-d-e-f-g-h-p=90 m increase the pipe size of b, c, d, e, f, g <table><tr><th>Gas side</th><th>Liquid side</th></tr><tr><td>REYQ8</td><td>Ø9.5 → Ø12.7</td></tr><tr><td>REYQ10</td><td>Ø12.7 → Ø15.9</td></tr><tr><td>REYQ12+14</td><td>Ø15.9 → Ø19.1</td></tr><tr><td>REYQ16</td><td>Ø19.1 → Ø22.2</td></tr></table> — Increase is not allowed (a) If not available, increase is not allowed	Gas side	Liquid side	REYQ8	Ø9.5 → Ø12.7	REYQ10	Ø12.7 → Ø15.9	REYQ12+14	Ø15.9 → Ø19.1	REYQ16	Ø19.1 → Ø22.2																																													
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14 Operation range

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