EDUS372119A-D
202206

DAIKIN

Engineering Data

Design Manual

REYQ-AATJA, 208 / 230 V
REYQ-AAYDA, 460 V

Heat Recovery 60 Hz

R-410A

VRV EMERSON

Table of Contents

1. Features and Benefits

- New Simple and Stylish design with expanded line up with single-module units from 6 – 20 T and dual-modules up to 40 T.
- Space-saving 16 – 20 T single module units provide up to 34% footprint and up to 500 lbs./unit weight reduction compared to previous series[2].
- High energy efficiency with IEERs up to 30.0 delivers up to 30% efficiency increase compared to previous ***VRV*** systems[2].
- Year-round comfort and energy savings with Daikin's Variable Refrigerant Temperature technology (VRT), compared to standard VRF and previous ***VRV*** systems.
- Increased piping lengths of up to 361 ft. vertical separation between ODU and IDU provide additional application flexibility compared to previous ***VRV*** systems[1].
- Heating down to -13°F as standard and high heating capacities at 17°F make it an ideal choice for all-electric heat pump solutions.
- Continuous heating during defrost capability with single module (16 T – 20 T) and all dual module systems[1].
- Hot gas defrost circuit allows for installation without base pan heater.
- Sealed e-box design with an ingress protection rating of IP55 provides for high dust and moisture protection.
- Dual-fuel ready with connectivity to Daikin communicating gas furnace or all-electric heat pump heating for optimized operational costs based on utility rates.
- Design flexibility to enlarge system from single to a dual-module without changes to installed main pipe sizes for phased installation or tenant fit-out buildings.
- Meets several local code compliance certifications such as OSHPD Seismic, Miami Dade Wind, and Chicago pressure relief codes.
- Reduced wiring costs with up to 34% reduction in MCA values compared to previous series.
- Engineered for ease of installation and service with three-segment panel design.
- Enhanced installation and serviceability with increased space for easy field piping connections to service valves[1].
- Simplified diagnosis with built-in data recorder which stores up to 40 minutes of operational data.
- Integrates with new Daikin *HERO* ecosystem, an IoT-based remote monitoring and diagnostics platform. Available Spring of 2022.
- Currently available for heat recovery applications in 208/230V or 460V.

[1] Refer to engineering and installation manuals for application rules.
[2] Model specific; check product specification for details.

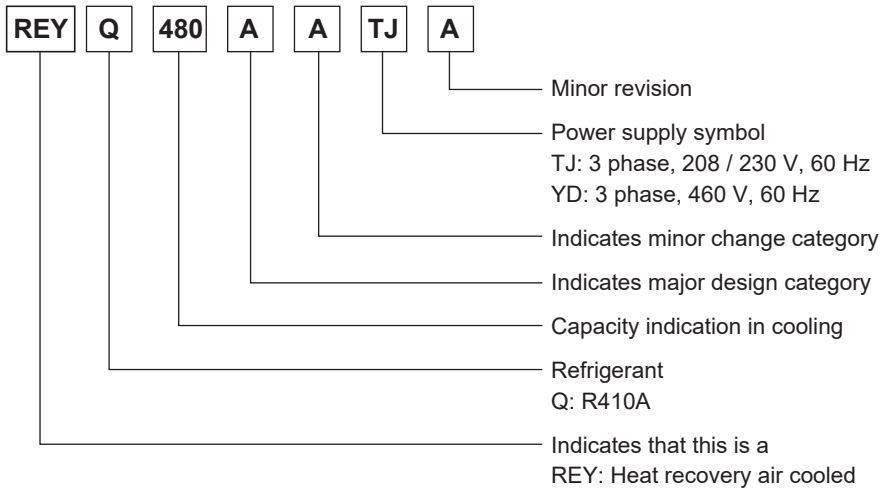
6 Ton

8 - 14 Ton

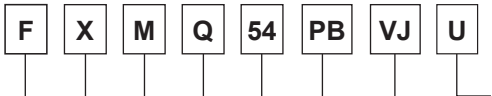
16 - 20 Ton

2. Nomenclature

Outdoor Unit



Indoor Unit



Standard symbol
U: United States of America

Power supply symbol
VJ: 1 phase, 208/230 V, 60 Hz
SBL: 1 phase, 120 V, 60 Hz

Indicates major design category

Capacity indication in cooling

05: 5,800 Btu/h	18: 18,000 Btu/h	48: 48,000 Btu/h
07: 7,500 Btu/h	24: 24,000 Btu/h	54: 54,000 Btu/h
09: 9,500 Btu/h	30: 30,000 Btu/h	60: 60,000 Btu/h
12: 12,000 Btu/h	36: 36,000 Btu/h	72: 72,000 Btu/h
15: 15,000 Btu/h	42: 42,000 Btu/h	96: 96,000 Btu/h

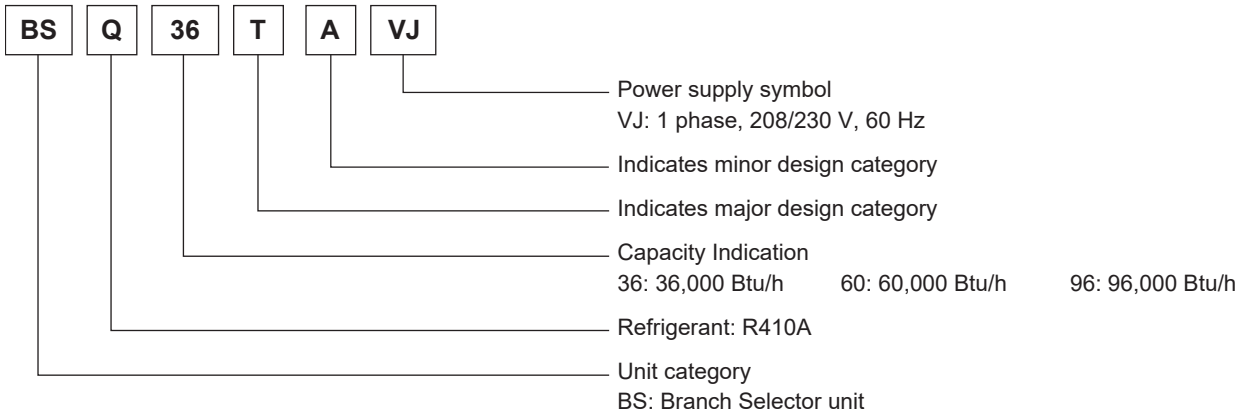
Refrigerant
Q: R410A

Shape
F: Ceiling mounted cassette (Round flow with sensing)
Z: VISTA™ 2 × 2 cassette unit
U: 4-way blow ceiling-suspended
E: One way blow cassette
D: Slim ceiling mounted duct
S: MSP concealed ducted unit
M: Ceiling mounted duct
H: Ceiling suspended
A: Wall mounted
L: Floor standing
N: Concealed floor standing
T: Air handling unit (FXTQ)
Upflow/Downflow (CXTQ)

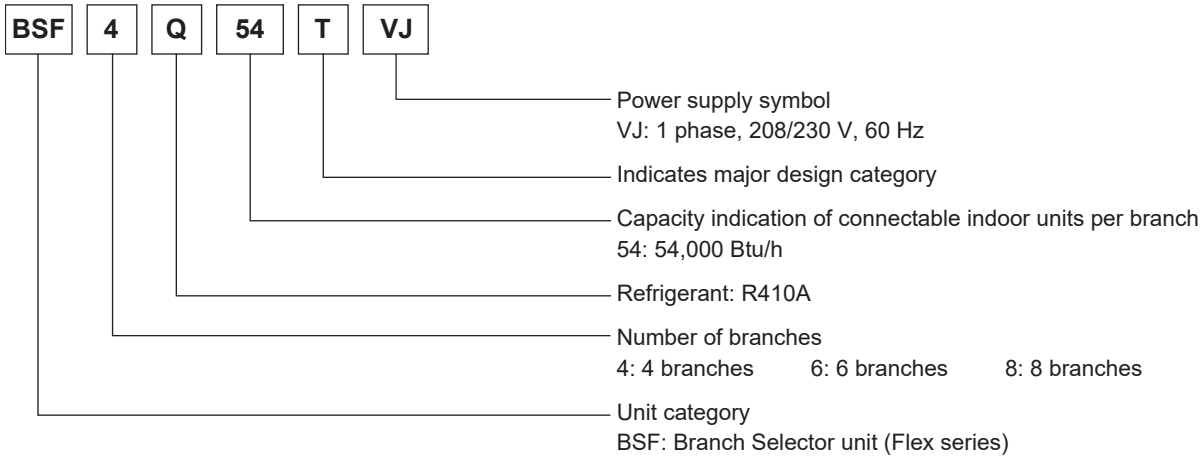
Series category
X: Inverter

Unit category
F: Indoor unit for air cooled type
C: Cased coil unit

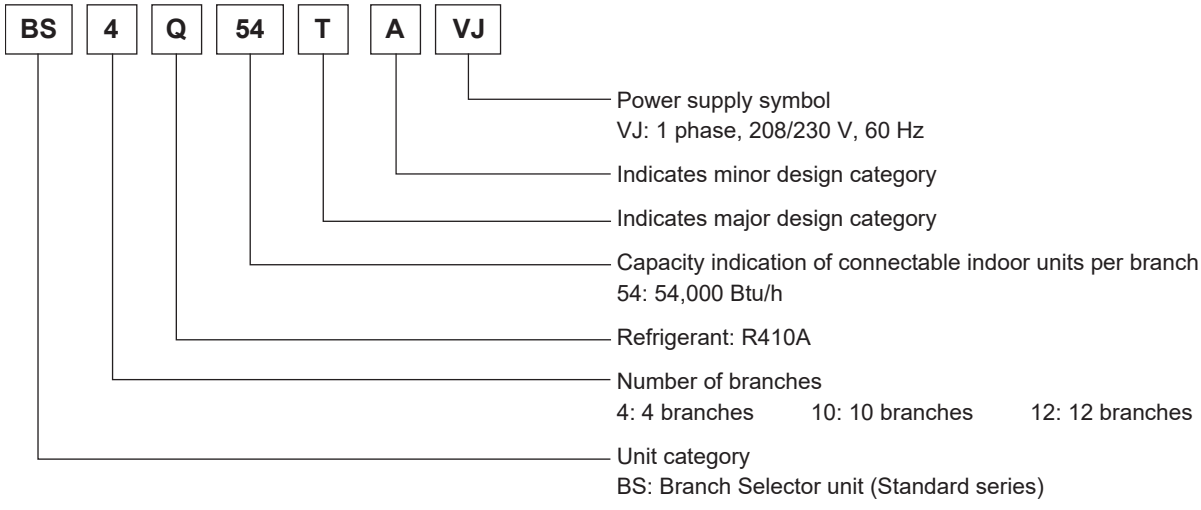
Single Branch Selector unit



Multi Branch Selector unit (Flex series)

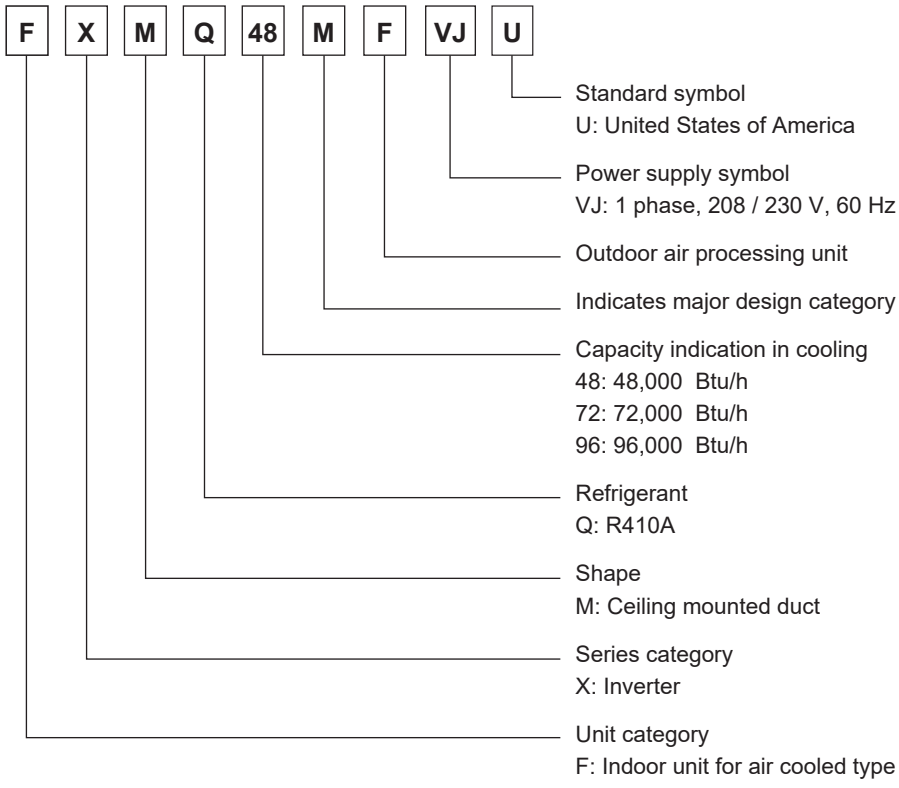


Multi Branch Selector unit (Standard series)

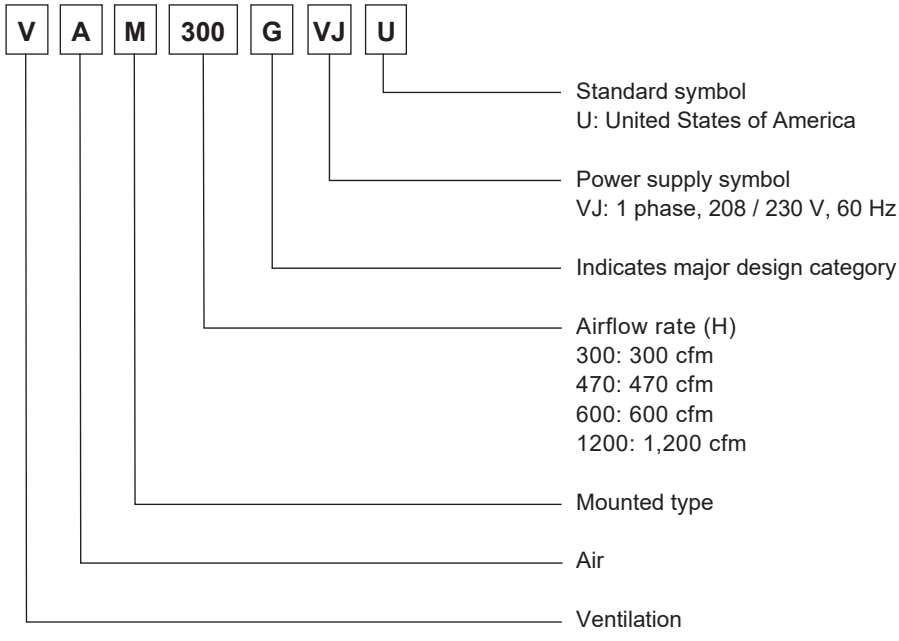


Air Treatment Equipment

Outdoor Air Processing Unit



Energy Recovery Ventilator (VAM series)



3. Model Names

3.1 Outdoor Units

Capacity range		6 ton	8 ton	10 ton	12 ton	14 ton	16 ton	18 ton	20 ton	Power supply, Standard
Capacity index		72	96	120	144	168	192	216	240	
REYQ	208 / 230 V	72AA	96AA	120AA	144AA	168AA	192AA	216AA	240AA	TJA
	460 V	72AA	96AA	120AA	144AA	168AA	192AA	216AA	240AA	YDA

Capacity range		22 ton	24 ton	26 ton	28 ton	30 ton	32 ton	34 ton	36 ton	38 ton	40 ton	Power supply, Standard
Capacity index		264	288	312	336	360	384	408	432	456	480	
REYQ	208 / 230 V	264AA	288AA	312AA	336AA	360AA	384AA	408AA	432AA	456AA	480AA	TJA
	460 V	264AA	288AA	312AA	336AA	360AA	384AA	408AA	432AA	456AA	480AA	YDA

TJ: 3 phase, 208 / 230 V, 60 Hz
YD: 3 phase, 460 V, 60 Hz
A: Minor revision

Heat Recovery 208 / 230 V

Model name	**REYQ72AATJA**	**REYQ96AATJA**	**REYQ120AATJA**	**REYQ144AATJA**
Outdoor unit 1	REYQ72AATJA	REYQ96AATJA	REYQ120AATJA	REYQ144AATJA

Model name	**REYQ168AATJA**	**REYQ192AATJA**	**REYQ216AATJA**	**REYQ240AATJA**
Outdoor unit 1	REYQ168AATJA	REYQ192AATJA	REYQ216AATJA	REYQ240AATJA

Model name	**REYQ264AATJA**	**REYQ288AATJA**	**REYQ312AATJA**	**REYQ336AATJA**	**REYQ360AATJA**
Outdoor unit 1	REYQ120AATJA	REYQ144AATJA	REYQ144AATJA	REYQ168AATJA	REYQ168AATJA
Outdoor unit 2	REYQ144AATJA	REYQ144AATJA	REYQ168AATJA	REYQ168AATJA	REYQ192AATJA

Model name	**REYQ384AATJA**	**REYQ408AATJA**	**REYQ432AATJA**	**REYQ456AATJA**	**REYQ480AATJA**
Outdoor unit 1	REYQ192AATJA	REYQ192AATJA	REYQ216AATJA	REYQ216AATJA	REYQ240AATJA
Outdoor unit 2	REYQ192AATJA	REYQ216AATJA	REYQ216AATJA	REYQ240AATJA	REYQ240AATJA

Heat Recovery 460 V

Model name	**REYQ72AAYDA**	**REYQ96AAYDA**	**REYQ120AAYDA**	**REYQ144AAYDA**
Outdoor unit 1	REYQ72AAYDA	REYQ96AAYDA	REYQ120AAYDA	REYQ144AAYDA

Model name	**REYQ168AAYDA**	**REYQ192AAYDA**	**REYQ216AAYDA**	**REYQ240AAYDA**
Outdoor unit 1	REYQ168AAYDA	REYQ192AAYDA	REYQ216AAYDA	REYQ240AAYDA

Model name	**REYQ264AAYDA**	**REYQ288AAYDA**	**REYQ312AAYDA**	**REYQ336AAYDA**	**REYQ360AAYDA**
Outdoor unit 1	REYQ120AAYDA	REYQ144AAYDA	REYQ144AAYDA	REYQ168AAYDA	REYQ168AAYDA
Outdoor unit 2	REYQ144AAYDA	REYQ144AAYDA	REYQ168AAYDA	REYQ168AAYDA	REYQ192AAYDA

Model name	**REYQ384AAYDA**	**REYQ408AAYDA**	**REYQ432AAYDA**	**REYQ456AAYDA**	**REYQ480AAYDA**
Outdoor unit 1	REYQ192AAYDA	REYQ192AAYDA	REYQ216AAYDA	REYQ216AAYDA	REYQ240AAYDA
Outdoor unit 2	REYQ192AAYDA	REYQ216AAYDA	REYQ216AAYDA	REYQ240AAYDA	REYQ240AAYDA

3.2 Indoor Units

Capacity Range		0.5 ton	0.6 ton	0.8 ton	1 ton	1.25 ton	1.5 ton		2 ton	2.5 ton	3 ton	3.5 ton	4 ton	4.5 ton	5 ton	6 ton	8 ton	Power Supply, Standard
Capacity Index		5.8	7.5	9.5	12	15	18	20	24	30	36	42	48	54	60	72	96	
Ceiling mounted cassette (Round flow with sensing) type	FXFQ	—	07T	09T	12T	15T	18T	—	24T	30T	36T	—	48T	—	—	—	—	VJU
VISTA™ 2 × 2 cassette unit	FXZQ	05TA	07TA	09TA	12TA	15TA	18TA	—	—	—	—	—	—	—	—	—	—	
4-way blow ceiling-suspended type	FXUQ	—	—	—	—	—	—	18PA	24PA	30PA	36PA	—	—	—	—	—	—	
One way blow cassette type	FXEQ	—	07P	09P	12P	15P	18P	—	24P	—	—	—	—	—	—	—	—	
Slim ceiling mounted duct type	FXDQ	—	07M	09M	12M	—	18M	—	24M	—	—	—	—	—	—	—	—	
MSP concealed ducted unit	FXSQ	05TA	07TA	09TA	12TA	15TA	18TA	—	24TA	30TA	36TA	—	48TA	54TA	—	—	—	
Ceiling mounted duct type (Middle and high static pressure)	FXMQ	—	07PB	09PB	12PB	15PB	18PB	—	24PB	30PB	36PB	—	48PB	54PB	—	—	—	
Ceiling mounted duct type	FXMQ	—	—	—	—	—	—	—	—	—	—	—	—	—	—	72M	96M	
Ceiling suspended type	FXHQ	—	—	—	12M	—	—	—	24M	—	36M	—	—	—	—	—	—	
Wall mounted type	FXAQ	—	07P	09P	12P	—	18P	—	24P	—	—	—	—	—	—	—	—	
Floor standing type	FXLQ	—	07M	09M	12M	—	18M	—	24M	—	—	—	—	—	—	—	—	
Concealed floor standing type	FXNQ	—	07M	09M	12M	—	18M	—	24M	—	—	—	—	—	—	—	—	
Air handling unit	FXTQ	—	—	09TA	12TA	—	18TA	—	24TA	30TA	36TA	42TA	48TA	54TA	60TA	—	—	VJUA
		—	—	09TA	12TA	—	18TA	—	24TA	30TA	36TA	42TA	48TA	54TA	60TA	—	—	VJUD
Cased coil unit	CXTQ	—	—	—	—	—	—	—	24TA	—	36TA	—	48TA	—	60TA	—	—	SBLU

3.3 Branch Selector Unit

3.3.1 Single Branch Selector Unit

Series		Model name			Power supply, standard
Heat recovery	BSQ	36TA	60TA	96TA	VJ

Note:

No interchangeability between BSVQ-PVJU and BSQ-TAVJ.

VJ: 1 phase, 208/230 V, 60 Hz

3.3.2 Multi Branch Selector Unit

Flex Series

Series		Model name			Power supply, standard
Heat recovery	BSF	4Q54T	6Q54T	8Q54T	VJ

Note:

No interchangeability between BSV-Q36PVJU and BSF-Q54TVJ.

VJ: 1 phase, 208/230 V, 60 Hz

Standard Series

Series		Model name			Power supply, standard
Heat recovery	BS	4Q54TA	10Q54TA	12Q54TA	VJ

Note:

No interchangeability between BSV-Q36PVJU and BS-Q54TAVJ.

VJ: 1 phase, 208/230 V, 60 Hz

3.4 Air Treatment Equipment

Outdoor Air Processing Unit

Series	Model name			Power supply, Standard
FXMQ	48MF	72MF	96MF	VJU

VJ: 1 phase, 208 / 230 V, 60 Hz
U(VJU): Standard symbol

Energy Recovery Ventilator (VAM series)

Series	Model name				Power supply, Standard
VAM	300G	470G	600G	1200G	VJU

VJ: 1 phase, 208 / 230 V, 60 Hz
U(VJU): Standard symbol

4. External Appearance

4.1 Outdoor Units

Single Outdoor Units

REYQ72AATJA	REYQ72AAYDA
 6 ton	

REYQ96AATJA REYQ120AATJA REYQ144AATJA REYQ168AATJA	REYQ96AAYDA REYQ120AAYDA REYQ144AAYDA REYQ168AAYDA
 8, 10, 12, 14 ton	

REYQ192AATJA REYQ216AATJA REYQ240AATJA	REYQ192AAYDA REYQ216AAYDA REYQ240AAYDA
 16, 18, 20 ton	

Double Outdoor Units

REYQ264AATJA REYQ288AATJA REYQ312AATJA REYQ336AATJA	REYQ264AAYDA REYQ288AAYDA REYQ312AAYDA REYQ336AAYDA

22, 24, 26, 28 ton

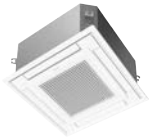
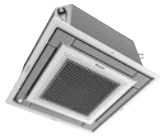
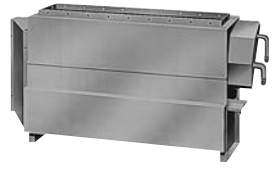
REYQ360AATJA	REYQ360AAYDA

30 ton

REYQ384AATJA REYQ408AATJA REYQ432AATJA REYQ456AATJA REYQ480AATJA	REYQ384AAYDA REYQ408AAYDA REYQ432AAYDA REYQ456AAYDA REYQ480AAYDA

32, 34, 36, 38, 40 ton

4.2 Indoor Units

Ceiling mounted cassette (Round flow with sensing) type FXFQ-T  Shown with BYCQ125B-W1	Ceiling mounted duct type FXMQ-M 
VISTA™ 2 × 2 cassette unit FXZQ-TA  Shown with BYFQ60C3W1W  Shown with BYFQ60C3W1S	Ceiling suspended type FXHQ-M 
4-way blow ceiling-suspended type FXUQ-PA 	Wall mounted type FXAQ-P
One way blow cassette type FXEQ-P 	Floor standing type FXLQ-M 
Slim ceiling mounted duct type FXDQ-M 	Concealed floor standing type FXNQ-M 
MSP concealed ducted unit FXSQ-TA 	Air handling unit FXTQ-TA 
Ceiling mounted duct type (Middle and high static pressure) FXMQ-PB 	Cased coil unit CXTQ-TA 

4.3 Branch Selector Unit

4.3.1 Single Branch Selector Unit

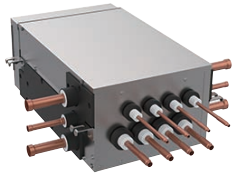
Single port

BSQ36TAVJ
BSQ60TAVJ
BSQ96TAVJ

4.3.2 Multi Branch Selector Unit

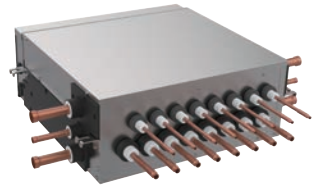
Flex Series

BSF4Q54TVJ



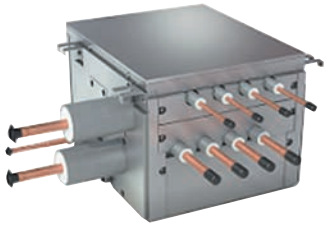
BSF6Q54TVJ

BSF8Q54TVJ



Standard Series

BS4Q54TAVJ



BS10Q54TAVJ
BS12Q54TAVJ

4.4 Air Treatment Equipment

Outdoor air processing unit

FXMQ-MF

Energy recovery ventilator
(VAM series)

VAM-G

5. Outdoor Unit Combination

Model name	System capacity			Number of units	Module							
	Ton	HP	kW		72	96	120	144	168	192	216	240
REYQ72AATJA REYQ72AAYDA	6	7.5	21.1	1	●							
REYQ96AATJA REYQ96AAYDA	8	10.0	28.1	1		●						
REYQ120AATJA REYQ120AAYDA	10	12.5	35.2	1			●					
REYQ144AATJA REYQ144AAYDA	12	15.0	42.2	1				●				
REYQ168AATJA REYQ168AAYDA	14	17.5	49.2	1					●			
REYQ192AATJA REYQ192AAYDA	16	20.0	56.3	1						●		
REYQ216AATJA REYQ216AAYDA	18	22.5	63.3	1							●	
REYQ240AATJA REYQ240AAYDA	20	25.0	70.3	1								●
REYQ264AATJA REYQ264AAYDA	22	27.5	77.4	2			●	●				
REYQ288AATJA REYQ288AAYDA	24	30.0	84.4	2				●●				
REYQ312AATJA REYQ312AAYDA	26	32.5	91.4	2				●	●			
REYQ336AATJA REYQ336AAYDA	28	35.0	98.5	2					●●			
REYQ360AATJA REYQ360AAYDA	30	37.5	105.5	2					●	●		
REYQ384AATJA REYQ384AAYDA	32	40.0	112.5	2						●●		
REYQ408AATJA REYQ408AAYDA	34	42.5	119.6	2						●	●	
REYQ432AATJA REYQ432AAYDA	36	45.0	126.6	2							●●	
REYQ456AATJA REYQ456AAYDA	38	47.5	133.6	2							●	●
REYQ480AATJA REYQ480AAYDA	40	50.0	140.6	2								●●

Note:

For multiple connection, the following kits are required;
- Outdoor unit multi connection piping kit: BHFP26P100U / BHFP26P100UA
- Reducer piping kit: KHFP26P100UA

6. Interchangeability

Outdoor unit	Branch selector unit	T-series branch selector unit			(Reference) P-series branch selector unit	
		Single branch selector unit	Multi branch selector unit		Single branch selector unit	Multi branch selector unit
			Flex series	Standard series		
		BSQ36T(A)VJ BSQ60T(A)VJ BSQ96T(A)VJ	BSF4Q54TVJ BSF6Q54TVJ BSF8Q54TVJ	BS4Q54T(A)VJ BS6Q54TVJ BS8Q54TVJ BS10Q54T(A)VJ BS12Q54T(A)VJ	BSVQ36PVJU BSVQ60PVJU BSVQ96PVJU	BSV4Q36PVJU BSV6Q36PVJU
Heat recovery	REYQ-AATJA	Connectable	Connectable	Connectable	Not connectable	Not connectable
	REYQ-AAYDA	Connectable	Connectable	Connectable	Not connectable	Not connectable

Note:

*1. Combination of P-series and T-series of Branch selector units in a single system is not permitted.
Combining the two series may cause malfunction.
*2. BSQ_TAVJ and BSQ_TVJ are compatible and can be mix and match or be used as direct replacement.
*3. BS_Q54TAVJ and BS_Q54TVJ are compatible and can be mix and match or be used as direct replacement.

7. Capacity Range

7.1 Connection Ratio

$$\text{Connection ratio} = \frac{\text{Total capacity index of the indoor units}}{\text{Capacity index of the outdoor units}}$$

Type		Min. connection ratio	Max. connection ratio				
			Types of connected indoor units			Type of connected air treatment equipment	
			When using only FXDQ, FXMQ-PB, FXAQ, FXSQ07T	When using at least one FXFQ07/09, FXZQ05T, FXSQ05T	When using other indoor unit models	FXMQ-MF	
						When FXMQ-MF is only connected	When FXMQ-MF and indoor units are connected
Single outdoor unit	6 - 14 ton	50%	200% *1	180% *1	200% *1	100%	100% *2
	16 - 20 ton			180% *1	180% *1		
Double outdoor units				160% *1	160% *1		

Note:

*1. If the operational capacity of indoor units is more than 130%, low airflow operation is enforced in all the indoor units. This limitation can be deactivated through field setting.

*2. When outdoor-air processing units (FXMQ-MF) and standard indoor units are connected, the total connection capacity of the outdoor-air processing units (FXMQ-MF) must not exceed 30% of the capacity index of the outdoor units. And the connection ratio must not exceed 100%.

*3. For indoor units used for cooling only (do not connect to Branch selector unit when using for heat recovery), total capacity index of cooling only indoor units must be 50% or less than the total capacity index of the indoor units.

7.2 Capacity Range of Connectable Indoor Units

Type	Ton	Capacity index	Model name	Total capacity index of connectable indoor units *1	Maximum number of connectable indoor units
Single outdoor unit	6	72	REYQ72AATJA REYQ72AAYDA	36 to 93 (144)	12
	8	96	REYQ96AATJA REYQ96AAYDA	48 to 124 (192)	16
	10	120	REYQ120AATJA REYQ120AAYDA	60 to 156 (240)	20
	12	144	REYQ144AATJA REYQ144AAYDA	72 to 187 (288)	25
	14	168	REYQ168AATJA REYQ168AAYDA	84 to 218 (336)	29
	16	192	REYQ192AATJA REYQ192AAYDA	96 to 249 (384)	33
	18	216	REYQ216AATJA REYQ216AAYDA	108 to 280 (432)	37
	20	240	REYQ240AATJA REYQ240AAYDA	120 to 312 (480)	41
Double outdoor units	22	264	REYQ264AATJA REYQ264AAYDA	132 to 343 (528)	45
	24	288	REYQ288AATJA REYQ288AAYDA	144 to 374 (576)	49
	26	312	REYQ312AATJA REYQ312AAYDA	156 to 405 (624)	54
	28	336	REYQ336AATJA REYQ336AAYDA	168 to 436 (672)	58
	30	360	REYQ360AATJA REYQ360AAYDA	180 to 468 (720)	62
	32	384	REYQ384AATJA REYQ384AAYDA	192 to 499 (768)	64
	34	408	REYQ408AATJA REYQ408AAYDA	204 to 530 (816)	64
	36	432	REYQ432AATJA REYQ432AAYDA	216 to 561 (864)	64
	38	456	REYQ456AATJA REYQ456AAYDA	228 to 592 (912)	64
	40	480	REYQ480AATJA REYQ480AAYDA	240 to 624 (960)	64

Note:

*1. Values inside brackets are based on maximum connection ratio of indoor units rated at 200%.

7.3 Limitation of Capacity Index for Heat Recovery

7.3.1 Single Branch Selector Unit

Model	BSQ36TAVJ	BSQ60TAVJ	BSQ96TAVJ
Maximum number of connectable indoor units	4	8	8
Total capacity index of connectable indoor units	unit ≤ 36	36 < unit ≤ 60	60 < unit ≤ 96

7.3.2 Multi Branch Selector Unit

Flex series

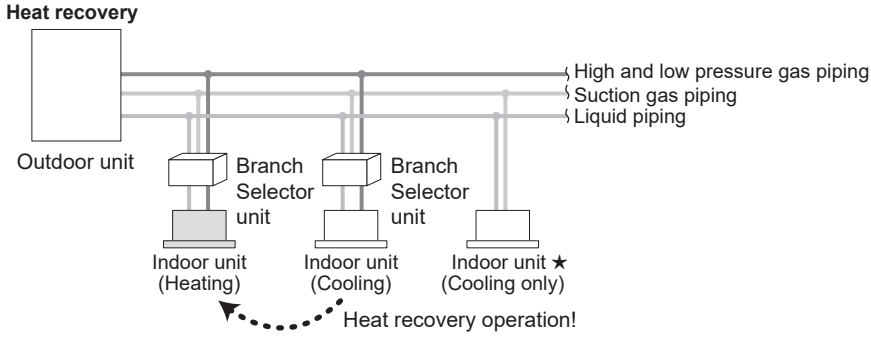
Model		BSF4Q54TVJ	BSF6Q54TVJ	BSF8Q54TVJ
Maximum number of connectable indoor units per branch		5	5	5
Number of branches		4	6	8
Maximum capacity index of connectable indoor units per branch (★1)		54 or less	54 or less	54 or less
Series configuration	Maximum number of connectable indoor units	30	30	30
	Maximum capacity index of connectable indoor units per branch selector unit	144 or less	162 or less	162 or less
	Maximum capacity index of connectable indoor units with branch selector units connected in series	230 or less	230 or less	230 or less
Parallel configuration	Maximum number of connectable indoor units	19	28	38
	Maximum capacity index of connectable indoor units	144 or less	216 or less	290 or less

Standard series

Model	BS4Q54TAVJ	BS10Q54TAVJ	BS12Q54TAVJ
Maximum number of connectable indoor units	19	38	38
Maximum number of connectable indoor units per branch	5	5	5
Number of branches	4	10	12
Maximum capacity index of connectable indoor units	144 or less	290 or less	290 or less
Maximum capacity index of connectable indoor units per branch (★1)	54 or less	54 or less	54 or less

Note:

★1. When the total capacity index of indoor units to be connected downstream is larger than 54 (Max 96), use a joint kit (KHRP26A250T, optional parts) to join two branches downstream from the Branch Selector unit.



★For indoor units used for cooling only (do not connect to Branch Selector unit when using for Heat recovery), total capacity index must be 50% or less than the capacity index of the outdoor units.

8. Specifications

8.1 REYQ-AATJA

REYQ72 - 120AATJA

Outdoor unit model No.			REYQ72AATJA	REYQ96AATJA	REYQ120AATJA
Power supply			3 phase, 60 Hz, 208/230 V	3 phase, 60 Hz, 208/230 V	3 phase, 60 Hz, 208/230 V
★1 Cooling capacity	Nominal	Btu/h (kW)	72,000 (21.1)	96,000 (28.1)	120,000 (35.2)
	Rated		69,000 (20.2)	92,000 (27.0)	114,000 (33.4)
★2 Heating capacity	Nominal	Btu/h (kW)	81,000 (23.7)	108,000 (31.7)	135,000 (39.6)
	Rated		77,000 (22.6)	103,000 (30.2)	129,000 (37.8)
Casing color			Ivory white (5Y 7.5/1)	Ivory white (5Y 7.5/1)	Ivory white (5Y 7.5/1)
Dimensions: (H × W × D)		in. (mm)	65-3/8 × 36-5/8 × 30-1/8 (1,660 × 930 × 765)	65-3/8 × 48-13/16 × 30-1/8 (1,660 × 1240 × 765)	65-3/8 × 48-13/16 × 30-1/8 (1,660 × 1240 × 765)
Heat exchanger			Cross fin coil	Cross fin coil	Cross fin coil
Compressor	Type		Hermetically sealed scroll type	Hermetically sealed scroll type	Hermetically sealed scroll type
	Volume	m^3/h	14.3	9.5 + 9.5	12.6 + 12.6
	Number of revolutions	r/min	4,212	4,482 + 4,482	5,934 + 5,934
	Motor output × Number of units	kW	4.39 × 1	(2.74 + 2.74) × 1	(3.63 + 3.63) × 1
	Starting method		Soft start	Soft start	Soft start
Fan	Type		Propeller fan	Propeller fan	Propeller fan
	Motor output	kW	0.95 × 1	0.65 × 2	0.65 × 2
	Airflow rate	cfm (m^3/min)	6,200 (175.6)	8,965 (253.9)	8,965 (253.9)
	Drive		Direct drive	Direct drive	Direct drive
Connecting pipes	Liquid pipe	in. (mm)	ϕ3/8 (9.5) C1220T (brazing connection)	ϕ3/8 (9.5) C1220T (brazing connection)	ϕ1/2 (12.7) C1220T (brazing connection)
	Suction gas pipe	in. (mm)	ϕ3/4 (19.1) C1220T (brazing connection)	ϕ7/8 (22.2) C1220T (brazing connection)	ϕ1-1/8 (28.6) C1220T (brazing connection)
	High/Low pressure gas pipe	in. (mm)	ϕ5/8 (15.9) C1220T (brazing connection)	ϕ3/4 (19.1) C1220T (brazing connection)	ϕ3/4 (19.1) C1220T (brazing connection)
Weight		lbs (kg)	509 (231)	710 (322)	712 (323)
Sound pressure level (reference data)		dB(A)	58	61	61
Sound power level (reference data)		dB	80	82	82
Safety devices			High pressure switch, Fan driver overload protector, Overcurrent fuse, Inverter overload protector, Leak detecting device	High pressure switch, Fan driver overload protector, Overcurrent fuse, Inverter overload protector, Leak detecting device	High pressure switch, Fan driver overload protector, Overcurrent fuse, Inverter overload protector, Leak detecting device
Defrost method			Deicer	Deicer	Deicer
Capacity control		%	7 - 100	4 - 100	3 - 100
Refrigerant	Refrigerant name		R410A	R410A	R410A
	Charge	lbs (kg)	23.4 (10.6)	25.8 (11.7)	25.8 (11.7)
	Control		Electronic expansion valve	Electronic expansion valve	Electronic expansion valve
Standard accessories			Installation manual, Operation manual, Connection pipes, Clamps	Installation manual, Operation manual, Connection pipes, Clamps	Installation manual, Operation manual, Connection pipes, Clamps

Note: ★1.Indoor temp.: 80°FDB (26.7°CDB) , 67°FWB (19.4°CWB) / Outdoor temp.: 95°FDB (35.0°CDB) / Rated capacity is certified under AHRI standard 1230.

★2.Indoor temp.: 70°FDB (21.1°CDB) / Outdoor temp.: 47°FDB (8.3°CDB) , 43°FWB (6.1°CWB) / Rated capacity is certified under AHRI standard 1230.

REYQ144 - 192AATJA

Outdoor unit model No.			REYQ144AATJA	REYQ168AATJA	REYQ192AATJA
Power supply			3 phase, 60 Hz, 208/230 V	3 phase, 60 Hz, 208/230 V	3 phase, 60 Hz, 208/230 V
★1 Cooling capacity	Nominal	Btu/h (kW)	144,000 (42.2)	168,000 (49.2)	192,000 (56.3)
	Rated		138,000 (40.4)	160,000 (46.9)	184,000 (53.9)
★2 Heating capacity	Nominal	Btu/h (kW)	162,000 (47.5)	189,000 (55.4)	216,000 (63.3)
	Rated		154,000 (45.1)	180,000 (52.8)	206,000 (60.4)
Casing color			Ivory white (5Y 7.5/1)	Ivory white (5Y 7.5/1)	Ivory white (5Y 7.5/1)
Dimensions: (H × W × D)		in. (mm)	65-3/8 × 48-13/16 × 30-1/8 (1,660 × 1240 × 765)	65-3/8 × 48-13/16 × 30-1/8 (1,660 × 1240 × 765)	65-3/8 x 68-7/8 x 30-1/8 (1660 x 1750 x 765)
Heat exchanger			Cross fin coil	Cross fin coil	Cross fin coil
Compressor	Type		Hermetically sealed scroll type	Hermetically sealed scroll type	Hermetically sealed scroll type
	Volume	m^3/h	11.6 + 18.6	14.2 + 22.7	18.9 + 18.9
	Number of revolutions	r/min	5,496 + 5,496	6,684 + 6,684	5,586 + 5,586
	Motor output × Number of units	kW	(3.36 + 5.72) × 1	(4.09 + 6.96) × 1	(5.82 + 5.82) × 1
	Starting method		Soft start	Soft start	Soft start
Fan	Type		Propeller fan	Propeller fan	Propeller fan
	Motor output	kW	0.65 × 2	0.65 × 2	0.95 × 2
	Airflow rate	cfm (m^3/min)	9,675 (274)	9,675 (274)	13,650 (386.5)
	Drive		Direct drive	Direct drive	Direct drive
Connecting pipes	Liquid pipe	in. (mm)	ϕ1/2 (12.7) C1220T (brazing connection)	ϕ5/8 (15.9) C1220T (brazing connection)	ϕ5/8 (15.9) C1220T (brazing connection)
	Suction gas pipe	in. (mm)	ϕ1-1/8 (28.6) C1220T (brazing connection)	ϕ1-1/8 (28.6) C1220T (brazing connection)	ϕ1-1/8 (28.6) C1220T (brazing connection)
	High/Low pressure gas pipe	in. (mm)	ϕ7/8 (22.2) C1220T (brazing connection)	ϕ7/8 (22.2) C1220T (brazing connection)	ϕ1-1/8 (28.6) C1220T (brazing connection)
Weight		lbs (kg)	785 (356)	787 (357)	957 (434)
Sound pressure level (reference data)		dB(A)	65	65	67
Sound power level (reference data)		dB	84	85	87
Safety devices			High pressure switch, Fan driver overload protector, Overcurrent fuse, Inverter overload protector, Leak detecting device	High pressure switch, Fan driver overload protector, Overcurrent fuse, Inverter overload protector, Leak detecting device	High pressure switch, Fan driver overload protector, Overcurrent fuse, Inverter overload protector, Leak detecting device
Defrost method			Deicer	Deicer	Deicer
Capacity control		%	3 - 100	2 - 100	4 - 100
Refrigerant	Refrigerant name		R410A	R410A	R410A
	Charge	lbs (kg)	25.8 (11.7)	25.8 (11.7)	25.8 (11.7)
	Control		Electronic expansion valve	Electronic expansion valve	Electronic expansion valve
Standard accessories			Installation manual, Operation manual, Connection pipes, Clamps	Installation manual, Operation manual, Connection pipes, Clamps	Installation manual, Operation manual, Connection pipes, Clamps

Note: ★1.Indoor temp.: 80°FDB (26.7°CDB) , 67°FWB (19.4°CWB) / Outdoor temp.: 95°FDB (35.0°CDB) / Rated capacity is certified under AHRI standard 1230.

★2.Indoor temp.: 70°FDB (21.1°CDB) / Outdoor temp.: 47°FDB (8.3°CDB) , 43°FWB (6.1°CWB) / Rated capacity is certified under AHRI standard 1230.

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REYQ216 - 240AATJA

Outdoor unit model No.			REYQ216AATJA	REYQ240AATJA
Power supply			3 phase, 60 Hz, 208/230 V	3 phase, 60 Hz, 208/230 V
★1 Cooling capacity	Nominal	Btu/h (kW)	216,000 (63.3)	240,000 (70.3)
	Rated		206,000 (60.4)	228,000 (66.8)
★2 Heating capacity	Nominal	Btu/h (kW)	243,000 (71.2)	270,000 (79.1)
	Rated		232,000 (68.0)	256,000 (75.0)
Casing color			Ivory white (5Y 7.5/1)	Ivory white (5Y 7.5/1)
Dimensions: (H × W × D)		in.(mm)	65-3/8 x 68-7/8 x 30-1/8 (1660 x 1750 x 765)	65-3/8 x 68-7/8 x 30-1/8 (1660 x 1750 x 765)
Heat exchanger			Cross fin coil	Cross fin coil
Compressor	Type		Hermetically sealed scroll type	Hermetically sealed scroll type
	Volume	m^3/h	21.3+ 21.3	24.7 + 24.7
	Number of revolutions	r/min	6,294 + 6,294	7,272 + 7,272
	Motor output × Number of units	kW	(6.56 + 6.56) × 1	(7.58 + 7.58) × 1
	Starting method		Soft start	Soft start
Fan	Type		Propeller fan	Propeller fan
	Motor output	kW	0.95 × 2	0.95 × 2
	Airflow rate	cfm (m^3/min)	14,505 (410.8)	14,505 (410.8)
	Drive		Direct drive	Direct drive
Connecting pipes	Liquid pipe	in. (mm)	ϕ5/8 (15.9) C1220T (brazing connection)	ϕ5/8 (15.9) C1220T (brazing connection)
	Suction gas pipe	in. (mm)	ϕ1-1/8 (28.6) C1220T (brazing connection)	ϕ1-3/8 (34.9) C1220T (brazing connection)
	High/Low pressure gas pipe	in. (mm)	ϕ1-1/8 (28.6) C1220T (brazing connection)	ϕ1-1/8 (28.6) C1220T (brazing connection)
Weight		lbs (kg)	957 (434)	957 (434)
Sound pressure level (reference data)		dB(A)	68	69
Sound power level (reference data)		dB	90	90
Safety devices			High pressure switch, Fan driver overload protector, Overcurrent fuse, Inverter overload protector, Leak detecting device	High pressure switch, Fan driver overload protector, Overcurrent fuse, Inverter overload protector, Leak detecting device
Defrost method			Deicer	Deicer
Capacity control		%	3 - 100	3 - 100
Refrigerant	Refrigerant name		R410A	R410A
	Charge	lbs (kg)	25.8 (11.7)	25.8 (11.7)
	Control		Electronic expansion valve	Electronic expansion valve
Standard accessories			Installation manual, Operation manual, Connection pipes, Clamps	Installation manual, Operation manual, Connection pipes, Clamps

Note: ★1.Indoor temp.: 80°FDB (26.7°CDB) , 67°FWB (19.4°CWB) / Outdoor temp.: 95°FDB (35.0°CDB) / Rated capacity is certified under AHRI standard 1230.

★2.Indoor temp.: 70°FDB (21.1°CDB) / Outdoor temp.: 47°FDB (8.3°CDB) , 43°FWB (6.1°CWB) / Rated capacity is certified under AHRI standard 1230.

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REYQ264 - 312AATJA

Outdoor unit model No. (Combination unit)			REYQ264AATJA	REYQ288AATJA	REYQ312AATJA
Outdoor unit model No.(Independent unit)			REYQ120AATJA	REYQ144AATJA	REYQ144AATJA
			REYQ144AATJA	REYQ144AATJA	REYQ168AATJA
Power supply			3 phase, 60 Hz, 208/230 V	3 phase, 60 Hz, 208/230 V	3 phase, 60 Hz, 208/230 V
★1 Cooling capacity	Nominal	Btu/h (kW)	264,000 (77.4)	288,000 (84.4)	312,000 (91.4)
	Rated		252,000 (73.9)	274,000 (80.3)	296,000 (86.7)
★2 Heating capacity	Nominal	Btu/h (kW)	297,000 (87.0)	324,000 (95.0)	351,000 (103)
	Rated		282,000 (82.6)	294,000 (86.2)	320,000 (93.8)
Casing color			Ivory white (5Y 7.5/1)	Ivory white (5Y 7.5/1)	Ivory white (5Y 7.5/1)
Dimensions: (H × W × D)		in. (mm)	65-3/8 × 48-13/16 × 30-1/8 + 65-3/8 × 48-13/16 × 30-1/8 (1,660 × 1240 × 765 + 1,660 × 1240 × 765)	65-3/8 × 48-13/16 × 30-1/8 + 65-3/8 × 48-13/16 × 30-1/8 (1,660 × 1240 × 765 + 1,660 × 1240 × 765)	65-3/8 × 48-13/16 × 30-1/8 + 65-3/8 × 48-13/16 × 30-1/8 (1,660 × 1240 × 765 + 1,660 × 1240 × 765)
Heat exchanger			Cross fin coil	Cross fin coil	Cross fin coil
Compressor	Type		Hermetically sealed scroll type	Hermetically sealed scroll type	Hermetically sealed scroll type
	Volume	m^3/h	(12.5 + 12.5) + (11.3 + 18.1)	(10.8 + 17.3) + (10.8 + 17.3)	(11 + 17.6) + (13.1 + 20.9)
	Number of revolutions	r/min	(5,892 + 5,892) + (5,334 + 5,334)	(5,094 + 5,094) + (5,094 + 5,094)	(5184 + 5184) + (6174 + 6174)
	Motor output × Number of units	kW	(3.6 + 3.6) × 1 + (3.26 + 5.55) × 1	(3.11 + 5.31) × 1 + (3.11 + 5.31) × 1	(3.17 + 5.4) × 1 + (3.77 + 6.43) × 1
	Starting method		Soft start	Soft start	Soft start
Fan	Type		Propeller fan	Propeller fan	Propeller fan
	Motor output	kW	0.65 × 2 +0.65 × 2	0.65 × 2 +0.65 × 2	0.65 × 2 +0.65 × 2
	Airflow rate	cfm (m^3/min)	8,965 (253.9)+9,675 (274)	9,675 (274)+9,675 (274)	9,675 (274)+9,675 (274)
	Drive		Direct drive	Direct drive	Direct drive
Connecting pipes	Liquid pipe	in. (mm)	ϕ3/4 (19.1) C1220T (brazing connection)	ϕ3/4 (19.1) C1220T (brazing connection)	ϕ3/4 (19.1) C1220T (brazing connection)
	Suction gas pipe	in. (mm)	ϕ1-3/8 (34.9) C1220T (brazing connection)	ϕ1-3/8 (34.9) C1220T (brazing connection)	ϕ1-3/8 (34.9) C1220T (brazing connection)
	High/Low pressure gas pipe	in. (mm)	ϕ1-1/8 (28.6) C1220T (brazing connection)	ϕ1-1/8 (28.6) C1220T (brazing connection)	ϕ1-1/8 (28.6) C1220T (brazing connection)
Weight		lbs (kg)	712 (323)+785 (356)	785 (356)+785 (356)	785 (356)+787 (357)
Sound pressure level (reference data)		dB(A)	67	69	69
Sound power level (reference data)		dB	88	88	89
Safety devices			High pressure switch, Fan driver overload protector, Overcurrent fuse, Inverter overload protector, Leak detecting device	High pressure switch, Fan driver overload protector, Overcurrent fuse, Inverter overload protector, Leak detecting device	High pressure switch, Fan driver overload protector, Overcurrent fuse, Inverter overload protector, Leak detecting device
Defrost method			Deicer	Deicer	Deicer
Capacity control		%	1 - 100	1 - 100	1 - 100
Refrigerant	Refrigerant name		R410A	R410A	R410A
	Charge	lbs (kg)	25.8 (11.7)+25.8 (11.7)	25.8 (11.7)+25.8 (11.7)	25.8 (11.7)+25.8 (11.7)
	Control		Electronic expansion valve	Electronic expansion valve	Electronic expansion valve
Standard accessories			Installation manual, Operation manual, Connection pipes, Clamps	Installation manual, Operation manual, Connection pipes, Clamps	Installation manual, Operation manual, Connection pipes, Clamps

Note: ★1.Indoor temp.: 80°FDB (26.7°CDB) , 67°FWB (19.4°CWB) / Outdoor temp.: 95°FDB (35.0°CDB) / Rated capacity is certified under AHRI standard 1230.

★2.Indoor temp.: 70°FDB (21.1°CDB) / Outdoor temp.: 47°FDB (8.3°CDB) , 43°FWB (6.1°CWB) / Rated capacity is certified under AHRI standard 1230.

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REYQ336 - 384AATJA

Outdoor unit model No. (Combination unit)			REYQ336AATJA	REYQ360AATJA	REYQ384AATJA
Outdoor unit model No.(Independent unit)			REYQ168AATJA	REYQ168AATJA	REYQ192AATJA
			REYQ168AATJA	REYQ192AATJA	REYQ192AATJA
Power supply			3 phase, 60 Hz, 208/230 V	3 phase, 60 Hz, 208/230 V	3 phase, 60 Hz, 208/230 V
★1 Cooling capacity	Nominal	Btu/h (kW)	336,000 (98.5)	360,000 (106)	384,000 (113)
	Rated		320,000 (93.8)	342,000 (100)	364,000 (107)
★2 Heating capacity	Nominal	Btu/h (kW)	378,000 (111)	405,000 (119)	432,000 (127)
	Rated		338,000 (99.1)	376,000 (110)	386,000 (113)
Casing color			Ivory white (5Y 7.5/1)	Ivory white (5Y 7.5/1)	Ivory white (5Y 7.5/1)
Dimensions: (H × W × D)		in. (mm)	65-3/8 × 48-13/16 × 30-1/8 + 65-3/8 × 48-13/16 × 30-1/8 (1,660 × 1240 × 765 + 1,660 × 1240 × 765)	65-3/8 × 48-13/16 × 30-1/8 + 65-3/8 x 68-7/8 x 30-1/8 (1,660 × 1240 × 765 + 1660 x 1750 x 765)	65-3/8 x 68-7/8 x 30-1/8 + 65-3/8 x 68-7/8 x 30-1/8 (1660 x 1750 x 765 + 1660 x 1750 x 765)
Heat exchanger			Cross fin coil	Cross fin coil	Cross fin coil
Compressor	Type		Hermetically sealed scroll type	Hermetically sealed scroll type	Hermetically sealed scroll type
	Volume	m³/h	(12.9 + 20.6) + (12.9 + 20.6)	(13.2 + 21.1) + (18 + 18)	(17.2 + 17.2) + (17.2 + 17.2)
	Number of revolutions	r/min	(6,078 + 6,078) + (6,078 + 6,078)	(6,228 + 6,228) + (5,310 + 5,310)	(5,064 + 5,064) + (5,064 + 5,064)
	Motor output × Number of units	kW	(3.71 + 6.33) × 1 + (3.71 + 6.33) × 1	(3.81 + 6.49) × 1 + (5.53 + 5.53) × 1	(5.27 + 5.27) × 1 + (5.27 + 5.27) × 1
	Starting method		Soft start	Soft start	Soft start
Fan	Type		Propeller fan	Propeller fan	Propeller fan
	Motor output	kW	0.65 × 2 +0.65 × 2	0.65 × 2 +0.95 × 2	0.95 × 2 +0.95 × 2
	Airflow rate	cfm (m³/min)	9,675 (274)+9,675 (274)	9,675 (274)+13,650 (386.5)	13,650 (386.5)+13,650 (386.5)
	Drive		Direct drive	Direct drive	Direct drive
Connecting pipes	Liquid pipe	in. (mm)	ϕ3/4 (19.1) C1220T (brazing connection)	ϕ3/4 (19.1) C1220T (brazing connection)	ϕ3/4 (19.1) C1220T (brazing connection)
	Suction gas pipe	in. (mm)	ϕ1-3/8 (34.9) C1220T (brazing connection)	ϕ1-5/8 (41.3) C1220T (brazing connection)	ϕ1-5/8 (41.3) C1220T (brazing connection)
	High/Low pressure gas pipe	in. (mm)	ϕ1-1/8 (28.6) C1220T (brazing connection)	ϕ1-3/8 (34.9) C1220T (brazing connection)	ϕ1-3/8 (34.9) C1220T (brazing connection)
Weight		lbs (kg)	787 (357)+787 (357)	787 (357)+957 (434)	957 (434)+957 (434)
Sound pressure level (reference data)		dB(A)	69	70	71
Sound power level (reference data)		dB	89	91	92
Safety devices			High pressure switch, Fan driver overload protector, Overcurrent fuse, Inverter overload protector, Leak detecting device	High pressure switch, Fan driver overload protector, Overcurrent fuse, Inverter overload protector, Leak detecting device	High pressure switch, Fan driver overload protector, Overcurrent fuse, Inverter overload protector, Leak detecting device
Defrost method			Deicer	Deicer	Deicer
Capacity control		%	1 - 100	1 - 100	1 - 100
Refrigerant	Refrigerant name		R410A	R410A	R410A
	Charge	lbs (kg)	25.8 (11.7)+25.8 (11.7)	25.8 (11.7)+25.8 (11.7)	25.8 (11.7)+25.8 (11.7)
	Control		Electronic expansion valve	Electronic expansion valve	Electronic expansion valve
Standard accessories			Installation manual, Operation manual, Connection pipes, Clamps	Installation manual, Operation manual, Connection pipes, Clamps	Installation manual, Operation manual, Connection pipes, Clamps

Note: ★1.Indoor temp.: 80°FDB (26.7°CDB) , 67°FWB (19.4°CWB) / Outdoor temp.: 95°FDB (35.0°CDB) / Rated capacity is certified under AHRI standard 1230.

★2.Indoor temp.: 70°FDB (21.1°CDB) / Outdoor temp.: 47°FDB (8.3°CDB) , 43°FWB (6.1°CWB) / Rated capacity is certified under AHRI standard 1230.

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REYQ408 - 456AATJA

Outdoor unit model No. (Combination unit)			REYQ408AATJA	REYQ432AATJA	REYQ456AATJA
Outdoor unit model No.(Independent unit)			REYQ192AATJA	REYQ216AATJA	REYQ216AATJA
			REYQ216AATJA	REYQ216AATJA	REYQ240AATJA
Power supply			3 phase, 60 Hz, 208/230 V	3 phase, 60 Hz, 208/230 V	3 phase, 60 Hz, 208/230 V
★1 Cooling capacity	Nominal	Btu/h (kW)	408,000 (120)	432,000 (127)	456,000 (134)
	Rated		388,000 (114)	410,000 (120)	434,000 (127)
★2 Heating capacity	Nominal	Btu/h (kW)	459,000 (135)	486,000 (142)	513,000 (150)
	Rated		394,000 (115)	404,000 (118)	414,000 (121)
Casing color			Ivory white (5Y 7.5/1)	Ivory white (5Y 7.5/1)	Ivory white (5Y 7.5/1)
Dimensions: (H × W × D)		in. (mm)	65-3/8 x 68-7/8 x 30-1/8 + 65-3/8 x 68-7/8 x 30-1/8 (1660 x 1750 x 765 + 1660 x 1750 x 765)	65-3/8 x 68-7/8 x 30-1/8 + 65-3/8 x 68-7/8 x 30-1/8 (1660 x 1750 x 765 + 1660 x 1750 x 765)	65-3/8 x 68-7/8 x 30-1/8 + 65-3/8 x 68-7/8 x 30-1/8 (1660 x 1750 x 765 + 1660 x 1750 x 765)
Heat exchanger			Cross fin coil	Cross fin coil	Cross fin coil
Compressor	Type		Hermetically sealed scroll type	Hermetically sealed scroll type	Hermetically sealed scroll type
	Volume	m³/h	(16.3 + 16.3) + (18.5 + 18.5)	(17.7 + 17.7) + (17.7 + 17.7)	(17.5 + 17.5) + (20 + 20)
	Number of revolutions	r/min	(4,818 + 4,818) + (5,442 + 5,442)	(5,232 + 5,232) + (5,232 + 5,232)	(5,154 + 5,154) + (5,886 + 5,886)
	Motor output × Number of units	kW	(5.02 + 5.02) × 1 + (5.67 + 5.67) × 1	(5.45 + 5.45) × 1 + (5.45 + 5.45) × 1	(5.37 + 5.37) × 1 + (6.13 + 6.13) × 1
	Starting method		Soft start	Soft start	Soft start
Fan	Type		Propeller fan	Propeller fan	Propeller fan
	Motor output	kW	0.95 × 2 +0.95 × 2	0.95 × 2 +0.95 × 2	0.95 × 2 +0.95 × 2
	Airflow rate	cfm (m³/min)	13,650 (386.5)+14,505 (410.8)	14,505 (410.8)+14,505 (410.8)	14,505 (410.8)+14,505 (410.8)
	Drive		Direct drive	Direct drive	Direct drive
Connecting pipes	Liquid pipe	in. (mm)	ϕ3/4 (19.1) C1220T (brazing connection)	ϕ3/4 (19.1) C1220T (brazing connection)	ϕ3/4 (19.1) C1220T (brazing connection)
	Suction gas pipe	in. (mm)	ϕ1-5/8 (41.3) C1220T (brazing connection)	ϕ1-5/8 (41.3) C1220T (brazing connection)	ϕ1-5/8 (41.3) C1220T (brazing connection)
	High/Low pressure gas pipe	in. (mm)	ϕ1-3/8 (34.9) C1220T (brazing connection)	ϕ1-3/8 (34.9) C1220T (brazing connection)	ϕ1-3/8 (34.9) C1220T (brazing connection)
Weight		lbs (kg)	957 (434)+957 (434)	957 (434)+957(434)	957 (434)+957 (434)
Sound pressure level (reference data)		dB(A)	71	72	72
Sound power level (reference data)		dB	93	95	95
Safety devices			High pressure switch, Fan driver overload protector, Overcurrent fuse, Inverter overload protector, Leak detecting device	High pressure switch, Fan driver overload protector, Overcurrent fuse, Inverter overload protector, Leak detecting device	High pressure switch, Fan driver overload protector, Overcurrent fuse, Inverter overload protector, Leak detecting device
Defrost method			Deicer	Deicer	Deicer
Capacity control		%	1 - 100	1 - 100	1 - 100
Refrigerant	Refrigerant name		R410A	R410A	R410A
	Charge	lbs (kg)	25.8 (11.7)+25.8 (11.7)	25.8 (11.7)+25.8 (11.7)	25.8 (11.7)+25.8 (11.7)
	Control		Electronic expansion valve	Electronic expansion valve	Electronic expansion valve
Standard accessories			Installation manual, Operation manual, Connection pipes, Clamps	Installation manual, Operation manual, Connection pipes, Clamps	Installation manual, Operation manual, Connection pipes, Clamps

Note: ★1.Indoor temp.: 80°FDB (26.7°CDB) , 67°FWB (19.4°CWB) / Outdoor temp.: 95°FDB (35.0°CDB) / Rated capacity is certified under AHRI standard 1230.

★2.Indoor temp.: 70°FDB (21.1°CDB) / Outdoor temp.: 47°FDB (8.3°CDB) , 43°FWB (6.1°CWB) / Rated capacity is certified under AHRI standard 1230.

C: 4D134606A

REYQ480AATJA

Outdoor unit model No. (Combination unit)			REYQ480AATJA
Outdoor unit model No.(Independent unit)			REYQ240AATJA
			REYQ240AATJA
Power supply			3 phase, 60 Hz, 208/230 V
★1 Cooling capacity	Nominal	Btu/h (kW)	480,000 (141)
	Rated		456,000 (134)
★2 Heating capacity	Nominal	Btu/h (kW)	540,000 (158)
	Rated		424,000 (124)
Casing color			Ivory white (5Y 7.5/1)
Dimensions: (H × W × D)		in. (mm)	65-3/8 x 68-7/8 x 30-1/8 + 65-3/8 x 68-7/8 x 30-1/8 (1660 x 1750 x 765 + 1660 x 1750 x 765)
Heat exchanger			Cross fin coil
Compressor	Type		Hermetically sealed scroll type
	Volume	m^3/h	(20.4 + 20.4) + (20.4 + 20.4)
	Number of revolutions	r/min	(6,018 + 6,018) + (6,018 + 6,018)
	Motor output × Number of units	kW	(6.27 + 6.27) × 1 + (6.27 + 6.27) × 1
	Starting method		Soft start
Fan	Type		Propeller fan
	Motor output	kW	0.95 × 2 +0.95 × 2
	Airflow rate	cfm (m^3/min)	14,505 (410.8)+14,505 (410.8)
	Drive		Direct drive
Connecting pipes	Liquid pipe	in. (mm)	ϕ3/4 (19.1) C1220T (brazing connection)
	Suction gas pipe	in. (mm)	ϕ1-5/8 (41.3) C1220T (brazing connection)
	High/Low pressure gas pipe	in. (mm)	ϕ1-3/8 (34.9) C1220T (brazing connection)
Weight		lbs (kg)	957 (434)+957 (434)
Sound pressure level (reference data)		dB(A)	73
Sound power level (reference data)		dB	95
Safety devices			High pressure switch, Fan driver overload protector, Overcurrent fuse, Inverter overload protector, Leak detecting device
Defrost method			Deicer
Capacity control		%	1 - 100
Refrigerant	Refrigerant name		R410A
	Charge	lbs (kg)	25.8 (11.7)+25.8 (11.7)
	Control		Electronic expansion valve
Standard accessories			Installation manual, Operation manual, Connection pipes, Clamps

Note: ★1.Indoor temp.: 80°FDB (26.7°CDB) , 67°FWB (19.4°CWB) / Outdoor temp.: 95°FDB (35.0°CDB)
/ Rated capacity is certified under AHRI standard 1230.
★2.Indoor temp.: 70°FDB (21.1°CDB) / Outdoor temp.: 47°FDB (8.3°CDB) , 43°FWB (6.1°CWB)
/ Rated capacity is certified under AHRI standard 1230.

C: 4D134607A

8.2 REYQ-AAYDA

REYQ72 - 120AAYDA

Outdoor unit model No.			REYQ72AAYDA	REYQ96AAYDA	REYQ120AAYDA
Power supply			3 phase, 60 Hz, 460 V	3 phase, 60 Hz, 460 V	3 phase, 60 Hz, 460 V
★1 Cooling capacity	Nominal	Btu/h (kW)	72,000 (21.1)	96,000 (28.1)	120,000 (35.2)
	Rated		69,000 (20.2)	92,000 (27.0)	114,000 (33.4)
★2 Heating capacity	Nominal	Btu/h (kW)	81,000 (23.7)	108,000 (31.7)	135,000 (39.6)
	Rated		77,000 (22.6)	103,000 (30.2)	129,000 (37.8)
Casing color			Ivory white (5Y 7.5/1)	Ivory white (5Y 7.5/1)	Ivory white (5Y 7.5/1)
Dimensions: (H × W × D)		in. (mm)	65-3/8 × 36-5/8 × 30-1/8 (1,660 × 930 × 765)	65-3/8 × 48-13/16 × 30-1/8 (1,660 × 1240 × 765)	65-3/8 × 48-13/16 × 30-1/8 (1,660 × 1240 × 765)
Heat exchanger			Cross fin coil	Cross fin coil	Cross fin coil
Compressor	Type		Hermetically sealed scroll type	Hermetically sealed scroll type	Hermetically sealed scroll type
	Volume	m³/h	14.3	9.5 + 9.5	12.6 + 12.6
	Number of revolutions	r/min	4,212	4,482 + 4,482	5,934 + 5,934
	Motor output × Number of units	kW	4.39 × 1	(2.74 + 2.74) × 1	(3.63 + 3.63) × 1
	Starting method		Soft start	Soft start	Soft start
Fan	Type		Propeller fan	Propeller fan	Propeller fan
	Motor output	kW	0.95 × 1	0.65 × 2	0.65 × 2
	Airflow rate	cfm (m³/min)	6,200 (175.6)	8,965 (253.9)	8,965 (253.9)
	Drive		Direct drive	Direct drive	Direct drive
Connecting pipes	Liquid pipe	in. (mm)	ϕ3/8 (9.5) C1220T (brazing connection)	ϕ3/8 (9.5) C1220T (brazing connection)	ϕ1/2 (12.7) C1220T (brazing connection)
	Suction gas pipe	in. (mm)	ϕ3/4 (19.1) C1220T (brazing connection)	ϕ7/8 (22.2) C1220T (brazing connection)	ϕ1-1/8 (28.6) C1220T (brazing connection)
	High/Low pressure gas pipe	in. (mm)	ϕ5/8 (15.9) C1220T (brazing connection)	ϕ3/4 (19.1) C1220T (brazing connection)	ϕ3/4 (19.1) C1220T (brazing connection)
Weight		lbs (kg)	525 (238)	725 (329)	728 (330)
Sound pressure level (reference data)		dB(A)	58	61	61
Sound power level (reference data)		dB	80	82	82
Safety devices			High pressure switch, Fan driver overload protector, Overcurrent fuse, Inverter overload protector, Leak detecting device	High pressure switch, Fan driver overload protector, Overcurrent fuse, Inverter overload protector, Leak detecting device	High pressure switch, Fan driver overload protector, Overcurrent fuse, Inverter overload protector, Leak detecting device
Defrost method			Deicer	Deicer	Deicer
Capacity control		%	7 - 100	4 - 100	3 - 100
Refrigerant	Refrigerant name		R410A	R410A	R410A
	Charge	lbs (kg)	23.4 (10.6)	25.8 (11.7)	25.8 (11.7)
	Control		Electronic expansion valve	Electronic expansion valve	Electronic expansion valve
Standard accessories			Installation manual, Operation manual, Connection pipes, Clamps	Installation manual, Operation manual, Connection pipes, Clamps	Installation manual, Operation manual, Connection pipes, Clamps

Note: ★1.Indoor temp.: 80°FDB (26.7°CDB) , 67°FWB (19.4°CWB) / Outdoor temp.: 95°FDB (35.0°CDB) / Rated capacity is certified under AHRI standard 1230.

★2.Indoor temp.: 70°FDB (21.1°CDB) / Outdoor temp.: 47°FDB (8.3°CDB) , 43°FWB (6.1°CWB) / Rated capacity is certified under AHRI standard 1230.

C: 4D134608A

REYQ144 - 192AAYDA

Outdoor unit model No.			REYQ144AAYDA	REYQ168AAYDA	REYQ192AAYDA
Power supply			3 phase, 60 Hz, 460 V	3 phase, 60 Hz, 460 V	3 phase, 60 Hz, 460 V
★1 Cooling capacity	Nominal	Btu/h (kW)	144,000 (42.2)	168,000 (49.2)	192,000 (56.3)
	Rated		138,000 (40.4)	160,000 (46.9)	184,000 (53.9)
★2 Heating capacity	Nominal	Btu/h (kW)	162,000 (47.5)	189,000 (55.4)	216,000 (63.3)
	Rated		154,000 (45.1)	180,000 (52.8)	206,000 (60.4)
Casing color			Ivory white (5Y 7.5/1)	Ivory white (5Y 7.5/1)	Ivory white (5Y 7.5/1)
Dimensions: (H × W × D)		in. (mm)	65-3/8 × 48-13/16 × 30-1/8 (1,660 × 1240 × 765)	65-3/8 × 48-13/16 × 30-1/8 (1,660 × 1240 × 765)	65-3/8 x 68-7/8 x 30-1/8 (1660 x 1750 x 765)
Heat exchanger			Cross fin coil	Cross fin coil	Cross fin coil
Compressor	Type		Hermetically sealed scroll type	Hermetically sealed scroll type	Hermetically sealed scroll type
	Volume	m³/h	11.6 + 18.6	14.2 + 22.7	18.9 + 18.9
	Number of revolutions	r/min	5,496 + 5,496	6,684 + 6,684	5,586 + 5,586
	Motor output × Number of units	kW	(3.36 + 5.72) × 1	(4.09 + 6.96) × 1	(5.82 + 5.82) × 1
	Starting method		Soft start	Soft start	Soft start
Fan	Type		Propeller fan	Propeller fan	Propeller fan
	Motor output	kW	0.65 × 2	0.65 × 2	0.95 × 2
	Airflow rate	cfm (m³/min)	9,675 (274)	9,675 (274)	13,650 (386.5)
	Drive		Direct drive	Direct drive	Direct drive
Connecting pipes	Liquid pipe	in. (mm)	ϕ1/2 (12.7) C1220T (brazing connection)	ϕ5/8 (15.9) C1220T (brazing connection)	ϕ5/8 (15.9) C1220T (brazing connection)
	Suction gas pipe	in. (mm)	ϕ1-1/8 (28.6) C1220T (brazing connection)	ϕ1-1/8 (28.6) C1220T (brazing connection)	ϕ1-1/8 (28.6) C1220T (brazing connection)
	High/Low pressure gas pipe	in. (mm)	ϕ7/8 (22.2) C1220T (brazing connection)	ϕ7/8 (22.2) C1220T (brazing connection)	ϕ1-1/8 (28.6) C1220T (brazing connection)
Weight		lbs (kg)	800 (363)	802 (364)	972 (441)
Sound pressure level (reference data)		dB(A)	65	65	67
Sound power level (reference data)		dB	84	85	87
Safety devices			High pressure switch, Fan driver overload protector, Overcurrent fuse, Inverter overload protector, Leak detecting device	High pressure switch, Fan driver overload protector, Overcurrent fuse, Inverter overload protector, Leak detecting device	High pressure switch, Fan driver overload protector, Overcurrent fuse, Inverter overload protector, Leak detecting device
Defrost method			Deicer	Deicer	Deicer
Capacity control		%	3 - 100	2 - 100	4 - 100
Refrigerant	Refrigerant name		R410A	R410A	R410A
	Charge	lbs (kg)	25.8 (11.7)	25.8 (11.7)	25.8 (11.7)
	Control		Electronic expansion valve	Electronic expansion valve	Electronic expansion valve
Standard accessories			Installation manual, Operation manual, Connection pipes, Clamps	Installation manual, Operation manual, Connection pipes, Clamps	Installation manual, Operation manual, Connection pipes, Clamps

Note: ★1.Indoor temp.: 80°FDB (26.7°CDB) , 67°FWB (19.4°CWB) / Outdoor temp.: 95°FDB (35.0°CDB) / Rated capacity is certified under AHRI standard 1230.

★2.Indoor temp.: 70°FDB (21.1°CDB) / Outdoor temp.: 47°FDB (8.3°CDB) , 43°FWB (6.1°CWB) / Rated capacity is certified under AHRI standard 1230.

C: 4D134609A

REYQ216 - 240AAYDA

Outdoor unit model No.			REYQ216AAYDA	REYQ240AAYDA
Power supply			3 phase, 60 Hz, 460 V	3 phase, 60 Hz, 460 V
★1 Cooling capacity	Nominal	Btu/h (kW)	216,000 (63.3)	240,000 (70.3)
	Rated		206,000 (60.4)	228,000 (66.8)
★2 Heating capacity	Nominal	Btu/h (kW)	243,000 (71.2)	270,000 (79.1)
	Rated		232,000 (68.0)	256,000 (75.0)
Casing color			Ivory white (5Y 7.5/1)	Ivory white (5Y 7.5/1)
Dimensions: (H × W × D)		in. (mm)	65-3/8 x 68-7/8 x 30-1/8 (1660 x 1750 x 765)	65-3/8 x 68-7/8 x 30-1/8 (1660 x 1750 x 765)
Heat exchanger			Cross fin coil	Cross fin coil
Compressor	Type		Hermetically sealed scroll type	Hermetically sealed scroll type
	Volume	m^3/h	21.3 + 21.3	24.7 + 24.7
	Number of revolutions	r/min	6,294 + 6,294	7,272 + 7,272
	Motor output × Number of units	kW	(6.56 + 6.56) × 1	(7.58 + 7.58) × 1
	Starting method		Soft start	Soft start
Fan	Type		Propeller fan	Propeller fan
	Motor output	kW	0.95 × 2	0.95 × 2
	Airflow rate	cfm (m^3/min)	14,505 (410.8)	14,505 (410.8)
	Drive		Direct drive	Direct drive
Connecting pipes	Liquid pipe	in. (mm)	ϕ5/8 (15.9) C1220T (brazing connection)	ϕ5/8 (15.9) C1220T (brazing connection)
	Suction gas pipe	in. (mm)	ϕ1-1/8 (28.6) C1220T (brazing connection)	ϕ1-3/8 (34.9) C1220T (brazing connection)
	High/Low pressure gas pipe	in. (mm)	ϕ1-1/8 (28.6) C1220T (brazing connection)	ϕ1-1/8 (28.6) C1220T (brazing connection)
Weight		lbs (kg)	972 (441)	972 (441)
Sound pressure level (reference data)		dB(A)	68	69
Sound power level (reference data)		dB	90	90
Safety devices			High pressure switch, Fan driver overload protector, Overcurrent fuse, Inverter overload protector, Leak detecting device	High pressure switch, Fan driver overload protector, Overcurrent fuse, Inverter overload protector, Leak detecting device
Defrost method			Deicer	Deicer
Capacity control		%	3 - 100	3 - 100
Refrigerant	Refrigerant name		R410A	R410A
	Charge	lbs (kg)	25.8 (11.7)	25.8 (11.7)
	Control		Electronic expansion valve	Electronic expansion valve
Standard accessories			Installation manual, Operation manual, Connection pipes, Clamps	Installation manual, Operation manual, Connection pipes, Clamps

Note: ★1.Indoor temp.: 80°FDB (26.7°CDB) , 67°FWB (19.4°CWB) / Outdoor temp.: 95°FDB (35.0°CDB) / Rated capacity is certified under AHRI standard 1230.

★2.Indoor temp.: 70°FDB (21.1°CDB) / Outdoor temp.: 47°FDB (8.3°CDB) , 43°FWB (6.1°CWB) / Rated capacity is certified under AHRI standard 1230.

REYQ264 - 312AAYDA

Outdoor unit model No. (Combination unit)			REYQ264AAYDA	REYQ288AAYDA	REYQ312AAYDA
Outdoor unit model No.(Independent unit)			REYQ120AAYDA REYQ144AAYDA	REYQ144AAYDA REYQ144AAYDA	REYQ144AAYDA REYQ168AAYDA
Power supply			3 phase, 60 Hz, 460 V	3 phase, 60 Hz, 460 V	3 phase, 60 Hz, 460 V
★1 Cooling capacity	Nominal	Btu/h (kW)	264,000 (77.4)	288,000 (84.4)	312,000 (91.4)
	Rated		252,000 (73.9)	274,000 (80.3)	296,000 (86.7)
★2 Heating capacity	Nominal	Btu/h (kW)	297,000 (87.0)	324,000 (95.0)	351,000 (103)
	Rated		282,000 (82.6)	294,000 (86.2)	320,000 (93.8)
Casing color			Ivory white (5Y 7.5/1)	Ivory white (5Y 7.5/1)	Ivory white (5Y 7.5/1)
Dimensions: (H × W × D)		in. (mm)	65-3/8 × 48-13/16 × 30-1/8 + 65-3/8 × 48-13/16 × 30-1/8 (1,660 × 1240 × 765 + 1,660 × 1240 × 765)	65-3/8 × 48-13/16 × 30-1/8 + 65-3/8 × 48-13/16 × 30-1/8 (1,660 × 1240 × 765 + 1,660 × 1240 × 765)	65-3/8 × 48-13/16 × 30-1/8 + 65-3/8 × 48-13/16 × 30-1/8 (1,660 × 1240 × 765 + 1,660 × 1240 × 765)
Heat exchanger			Cross fin coil	Cross fin coil	Cross fin coil
Compressor	Type		Hermetically sealed scroll type	Hermetically sealed scroll type	Hermetically sealed scroll type
	Volume	m³/h	(12.5 + 12.5) + (11.3 + 18.1)	(10.8 + 17.3) + (10.8 + 17.3)	(11 + 17.6) + (13.1 + 20.9)
	Number of revolutions	r/min	(5,892 + 5,892) + (5,334 + 5,334)	(5,094 + 5,094) + (5,094 + 5,094)	(5,184 + 5,184) + (6,174 + 6,174)
	Motor output × Number of units	kW	(3.6 + 3.6) × 1 + (3.26 + 5.55) × 1	(3.11 + 5.31) × 1 + (3.11 + 5.31) × 1	(3.17 + 5.4) × 1 + (3.77 + 6.43) × 1
	Starting method		Soft start	Soft start	Soft start
Fan	Type		Propeller fan	Propeller fan	Propeller fan
	Motor output	kW	0.65 × 2 +0.65 × 2	0.65 × 2 +0.65 × 2	0.65 × 2 +0.65 × 2
	Airflow rate	cfm (m³/min)	8,965 (253.9)+9,675 (274)	9,675 (274)+9,675 (274)	9,675 (274)+9,675 (274)
	Drive		Direct drive	Direct drive	Direct drive
Connecting pipes	Liquid pipe	in. (mm)	ϕ3/4 (19.1) C1220T (brazing connection)	ϕ3/4 (19.1) C1220T (brazing connection)	ϕ3/4 (19.1) C1220T (brazing connection)
	Suction gas pipe	in. (mm)	ϕ1-3/8 (34.9) C1220T (brazing connection)	ϕ1-3/8 (34.9) C1220T (brazing connection)	ϕ1-3/8 (34.9) C1220T (brazing connection)
	High/Low pressure gas pipe	in. (mm)	ϕ1-1/8 (28.6) C1220T (brazing connection)	ϕ1-1/8 (28.6) C1220T (brazing connection)	ϕ1-1/8 (28.6) C1220T (brazing connection)
Weight		lbs (kg)	728 (330)+800 (363)	800 (363)+800 (363)	800 (363)+802 (364)
Sound pressure level (reference data)		dB(A)	67	69	69
Sound power level (reference data)		dB	88	88	89
Safety devices			High pressure switch, Fan driver overload protector, Overcurrent fuse, Inverter overload protector, Leak detecting device	High pressure switch, Fan driver overload protector, Overcurrent fuse, Inverter overload protector, Leak detecting device	High pressure switch, Fan driver overload protector, Overcurrent fuse, Inverter overload protector, Leak detecting device
Defrost method			Deicer	Deicer	Deicer
Capacity control		%	1 - 100	1 - 100	1 - 100
Refrigerant	Refrigerant name		R410A	R410A	R410A
	Charge	lbs (kg)	25.8 (11.7)+25.8 (11.7)	25.8 (11.7)+25.8 (11.7)	25.8 (11.7)+25.8 (11.7)
	Control		Electronic expansion valve	Electronic expansion valve	Electronic expansion valve
Standard accessories			Installation manual, Operation manual, Connection pipes, Clamps	Installation manual, Operation manual, Connection pipes, Clamps	Installation manual, Operation manual, Connection pipes, Clamps

Note: ★1.Indoor temp.: 80°FDB (26.7°CDB) , 67°FWB (19.4°CWB) / Outdoor temp.: 95°FDB (35.0°CDB) / Rated capacity is certified under AHRI standard 1230.

★2.Indoor temp.: 70°FDB (21.1°CDB) / Outdoor temp.: 47°FDB (8.3°CDB) , 43°FWB (6.1°CWB) / Rated capacity is certified under AHRI standard 1230.

C: 4D134611A

REYQ336 - 384AAYDA

Outdoor unit model No. (Combination unit)			REYQ336AAYDA	REYQ360AAYDA	REYQ384AAYDA
Outdoor unit model No.(Independent unit)			REYQ168AAYDA	REYQ168AAYDA	REYQ192AAYDA
			REYQ168AAYDA	REYQ192AAYDA	REYQ192AAYDA
Power supply			3 phase, 60 Hz, 460 V	3 phase, 60 Hz, 460 V	3 phase, 60 Hz, 460 V
★1 Cooling capacity	Nominal	Btu/h (kW)	336,000 (98.5)	360,000 (106)	384,000 (113)
	Rated		320,000 (93.8)	342,000 (100)	364,000 (107)
★2 Heating capacity	Nominal	Btu/h (kW)	378,000 (111)	405,000 (119)	432,000 (127)
	Rated		338,000 (99.1)	376,000 (110)	386,000 (113)
Casing color			Ivory white (5Y 7.5/1)	Ivory white (5Y 7.5/1)	Ivory white (5Y 7.5/1)
Dimensions: (H × W × D)		in. (mm)	65-3/8 × 48-13/16 × 30-1/8 + 65-3/8 × 48-13/16 × 30-1/8 (1,660 × 1240 × 765 + 1,660 × 1240 × 765)	65-3/8 × 48-13/16 × 30-1/8 + 65-3/8 x 68-7/8 x 30-1/8 (1,660 × 1240 × 765 + 1660 x 1750 x 765)	65-3/8 x 68-7/8 x 30-1/8 + 65-3/8 x 68-7/8 x 30-1/8 (1660 x 1750 x 765 + 1660 x 1750 x 765)
Heat exchanger			Cross fin coil	Cross fin coil	Cross fin coil
Compressor	Type		Hermetically sealed scroll type	Hermetically sealed scroll type	Hermetically sealed scroll type
	Volume	m³/h	(12.9 + 20.6) + (12.9 + 20.6)	(13.2 + 21.1) + (18 + 18)	(17.2 + 17.2) + (17.2 + 17.2)
	Number of revolutions	r/min	(6,078 + 6,078) + (6,078 + 6,078)	(6,228 + 6,228) + (5,310 + 5,310)	(5,064 + 5,064) + (5,064 + 5,064)
	Motor output × Number of units	kW	(3.71 + 6.33) × 1 + (3.71 + 6.33) × 1	(3.81 + 6.49) × 1 + (5.53 + 5.53) × 1	(5.27 + 5.27) × 1 + (5.27 + 5.27) × 1
	Starting method		Soft start	Soft start	Soft start
Fan	Type		Propeller fan	Propeller fan	Propeller fan
	Motor output	kW	0.65 × 2 +0.65 × 2	0.65 × 2 +0.95 × 2	0.95 × 2 +0.95 × 2
	Airflow rate	cfm (m³/min)	9,675 (274)+9,675 (274)	9,675 (274)+13,650 (386.5)	13,650 (386.5)+13,650 (386.5)
	Drive		Direct drive	Direct drive	Direct drive
Connecting pipes	Liquid pipe	in. (mm)	ϕ3/4 (19.1) C1220T (brazing connection)	ϕ3/4 (19.1) C1220T (brazing connection)	ϕ3/4 (19.1) C1220T (brazing connection)
	Suction gas pipe	in. (mm)	ϕ1-3/8 (34.9) C1220T (brazing connection)	ϕ1-5/8 (41.3) C1220T (brazing connection)	ϕ1-5/8 (41.3) C1220T (brazing connection)
	High/Low pressure gas pipe	in. (mm)	ϕ1-1/8 (28.6) C1220T (brazing connection)	ϕ1-3/8 (34.9) C1220T (brazing connection)	ϕ1-3/8 (34.9) C1220T (brazing connection)
Weight		lbs (kg)	802 (364)+802 (364)	802 (364)+972 (441)	972 (441)+972 (441)
Sound pressure level (reference data)		dB(A)	69	70	71
Sound power level (reference data)		dB	89	91	92
Safety devices			High pressure switch, Fan driver overload protector, Overcurrent fuse, Inverter overload protector, Leak detecting device	High pressure switch, Fan driver overload protector, Overcurrent fuse, Inverter overload protector, Leak detecting device	High pressure switch, Fan driver overload protector, Overcurrent fuse, Inverter overload protector, Leak detecting device
Defrost method			Deicer	Deicer	Deicer
Capacity control		%	1 - 100	1 - 100	1 - 100
Refrigerant	Refrigerant name		R410A	R410A	R410A
	Charge	lbs (kg)	25.8 (11.7)+25.8 (11.7)	25.8 (11.7)+25.8 (11.7)	25.8 (11.7)+25.8 (11.7)
	Control		Electronic expansion valve	Electronic expansion valve	Electronic expansion valve
Standard accessories			Installation manual, Operation manual, Connection pipes, Clamps	Installation manual, Operation manual, Connection pipes, Clamps	Installation manual, Operation manual, Connection pipes, Clamps

Note: ★1.Indoor temp.: 80°FDB (26.7°CDB) , 67°FWB (19.4°CWB) / Outdoor temp.: 95°FDB (35.0°CDB) / Rated capacity is certified under AHRI standard 1230.

★2.Indoor temp.: 70°FDB (21.1°CDB) / Outdoor temp.: 47°FDB (8.3°CDB) , 43°FWB (6.1°CWB) / Rated capacity is certified under AHRI standard 1230.

C: 4D134612A

REYQ408 - 456AAYDA

Outdoor unit model No. (Combination unit)			REYQ408AAYDA	REYQ432AAYDA	REYQ456AAYDA
Outdoor unit model No.(Independent unit)			REYQ192AAYDA	REYQ216AAYDA	REYQ216AAYDA
			REYQ216AAYDA	REYQ216AAYDA	REYQ240AAYDA
Power supply			3 phase, 60 Hz, 460 V	3 phase, 60 Hz, 460 V	3 phase, 60 Hz, 460 V
★1 Cooling capacity	Nominal	Btu/h (kW)	408,000 (120)	432,000 (127)	456,000 (134)
	Rated		388,000 (114)	410,000 (120)	434,000 (127)
★2 Heating capacity	Nominal	Btu/h (kW)	459,000 (135)	486,000 (142)	513,000 (150)
	Rated		394,000 (115)	404,000 (118)	414,000 (121)
Casing color			Ivory white (5Y 7.5/1)	Ivory white (5Y 7.5/1)	Ivory white (5Y 7.5/1)
Dimensions: (H × W × D)		in. (mm)	65-3/8 x 68-7/8 x 30-1/8 + 65-3/8 x 68-7/8 x 30-1/8 (1660 x 1750 x 765 + 1660 x 1750 x 765)	65-3/8 x 68-7/8 x 30-1/8 + 65-3/8 x 68-7/8 x 30-1/8 (1660 x 1750 x 765 + 1660 x 1750 x 765)	65-3/8 x 68-7/8 x 30-1/8 + 65-3/8 x 68-7/8 x 30-1/8 (1660 x 1750 x 765 + 1660 x 1750 x 765)
Heat exchanger			Cross fin coil	Cross fin coil	Cross fin coil
Compressor	Type		Hermetically sealed scroll type	Hermetically sealed scroll type	Hermetically sealed scroll type
	Volume	m³/h	(16.3 + 16.3) + (18.5 + 18.5)	(17.7 + 17.7) + (17.7 + 17.7)	(17.5 + 17.5) + (20 + 20)
	Number of revolutions	r/min	(4,818 + 4,818) + (5,442 + 5,442)	(5,232 + 5,232) + (5,232 + 5,232)	(5,154 + 5,154) + (5,886 + 5,886)
	Motor output × Number of units	kW	(5.02 + 5.02) × 1 + (5.67 + 5.67) × 1	(5.45 + 5.45) × 1 + (5.45 + 5.45) × 1	(5.37 + 5.37) × 1 + (6.13 + 6.13) × 1
	Starting method		Soft start	Soft start	Soft start
Fan	Type		Propeller fan	Propeller fan	Propeller fan
	Motor output	kW	0.95 × 2 +0.95 × 2	0.95 × 2 +0.95 × 2	0.95 × 2 +0.95 × 2
	Airflow rate	cfm (m³/min)	13,650 (386.5)+14,505 (410.8)	14,505 (410.8)+14,505 (410.8)	14,505 (410.8)+14,505 (410.8)
	Drive		Direct drive	Direct drive	Direct drive
Connecting pipes	Liquid pipe	in. (mm)	ϕ3/4 (19.1) C1220T (brazing connection)	ϕ3/4 (19.1) C1220T (brazing connection)	ϕ3/4 (19.1) C1220T (brazing connection)
	Suction gas pipe	in. (mm)	ϕ1-5/8 (41.3) C1220T (brazing connection)	ϕ1-5/8 (41.3) C1220T (brazing connection)	ϕ1-5/8 (41.3) C1220T (brazing connection)
	High/Low pressure gas pipe	in. (mm)	ϕ1-3/8 (34.9) C1220T (brazing connection)	ϕ1-3/8 (34.9) C1220T (brazing connection)	ϕ1-3/8 (34.9) C1220T (brazing connection)
Weight		lbs (kg)	972 (441)+972 (441)	972 (441)+972 (441)	972 (441)+972 (441)
Sound pressure level (reference data)		dB(A)	71	72	72
Sound power level (reference data)		dB	93	95	95
Safety devices			High pressure switch, Fan driver overload protector, Overcurrent fuse, Inverter overload protector, Leak detecting device	High pressure switch, Fan driver overload protector, Overcurrent fuse, Inverter overload protector, Leak detecting device	High pressure switch, Fan driver overload protector, Overcurrent fuse, Inverter overload protector, Leak detecting device
Defrost method			Deicer	Deicer	Deicer
Capacity control		%	1 - 100	1 - 100	1 - 100
Refrigerant	Refrigerant name		R410A	R410A	R410A
	Charge	lbs (kg)	25.8 (11.7)+25.8 (11.7)	25.8 (11.7)+25.8 (11.7)	25.8 (11.7)+25.8 (11.7)
	Control		Electronic expansion valve	Electronic expansion valve	Electronic expansion valve
Standard accessories			Installation manual, Operation manual, Connection pipes, Clamps	Installation manual, Operation manual, Connection pipes, Clamps	Installation manual, Operation manual, Connection pipes, Clamps

Note: ★1.Indoor temp.: 80°FDB (26.7°CDB) , 67°FWB (19.4°CWB) / Outdoor temp.: 95°FDB (35.0°CDB) / Rated capacity is certified under AHRI standard 1230.

★2.Indoor temp.: 70°FDB (21.1°CDB) / Outdoor temp.: 47°FDB (8.3°CDB) , 43°FWB (6.1°CWB) / Rated capacity is certified under AHRI standard 1230.

C: 4D134613A

REYQ480AAYDA

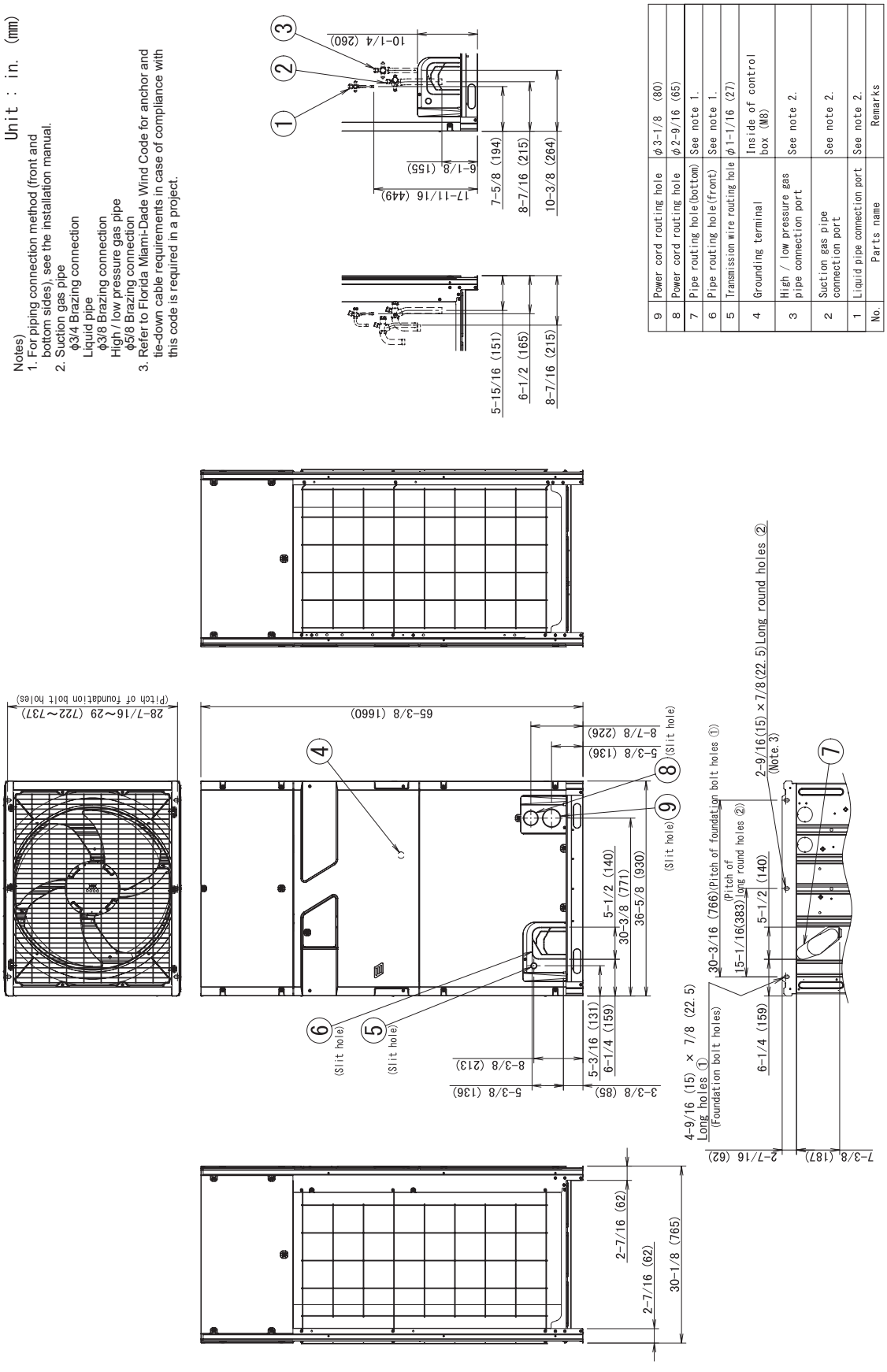
Outdoor unit model No. (Combination unit)			REYQ480AAYDA
Outdoor unit model No.(Independent unit)			REYQ240AAYDA
			REYQ240AAYDA
Power supply			3 phase, 60 Hz, 460 V
★1 Cooling capacity	Nominal	Btu/h (kW)	480,000 (141)
	Rated		456,000 (134)
★2 Heating capacity	Nominal	Btu/h (kW)	540,000 (158)
	Rated		424,000 (124)
Casing color			Ivory white (5Y 7.5/1)
Dimensions: (H × W × D)		in. (mm)	65-3/8 x 68-7/8 x 30-1/8 + 65-3/8 x 68-7/8 x 30-1/8 (1660 x 1750 x 765 + 1660 x 1750 x 765)
Heat exchanger			Cross fin coil
Compressor	Type		Hermetically sealed scroll type
	Volume	m³/h	(20.4 + 20.4) + (20.4 + 20.4)
	Number of revolutions	r/min	(6,018 + 6,018) + (6,018 + 6,018)
	Motor output × Number of units	kW	(6.27 + 6.27) × 1 + (6.27 + 6.27) × 1
	Starting method		Soft start
Fan	Type		Propeller fan
	Motor output	kW	0.95 × 2 +0.95 × 2
	Airflow rate	cfm (m³/min)	14,505 (410.8)+14,505 (410.8)
	Drive		Direct drive
Connecting pipes	Liquid pipe	in. (mm)	ϕ3/4 (19.1) C1220T (brazing connection)
	Suction gas pipe	in. (mm)	ϕ1-5/8 (41.3) C1220T (brazing connection)
	High/Low pressure gas pipe	in. (mm)	ϕ1-3/8 (34.9) C1220T (brazing connection)
Weight		lbs (kg)	972 (441)+972 (441)
Sound pressure level (reference data)		dB(A)	73
Sound power level (reference data)		dB	95
Safety devices			High pressure switch, Fan driver overload protector, Overcurrent fuse, Inverter overload protector, Leak detecting device
Defrost method			Deicer
Capacity control		%	1 - 100
Refrigerant	Refrigerant name		R410A
	Charge	lbs (kg)	25.8 (11.7)+25.8 (11.7)
	Control		Electronic expansion valve
Standard accessories			Installation manual, Operation manual, Connection pipes, Clamps

Note: ★1.Indoor temp.: 80°FDB (26.7°CDB) , 67°FWB (19.4°CWB) / Outdoor temp.: 95°FDB (35.0°CDB)
/ Rated capacity is certified under AHRI standard 1230.
★2.Indoor temp.: 70°FDB (21.1°CDB) / Outdoor temp.: 47°FDB (8.3°CDB) , 43°FWB (6.1°CWB)
/ Rated capacity is certified under AHRI standard 1230.

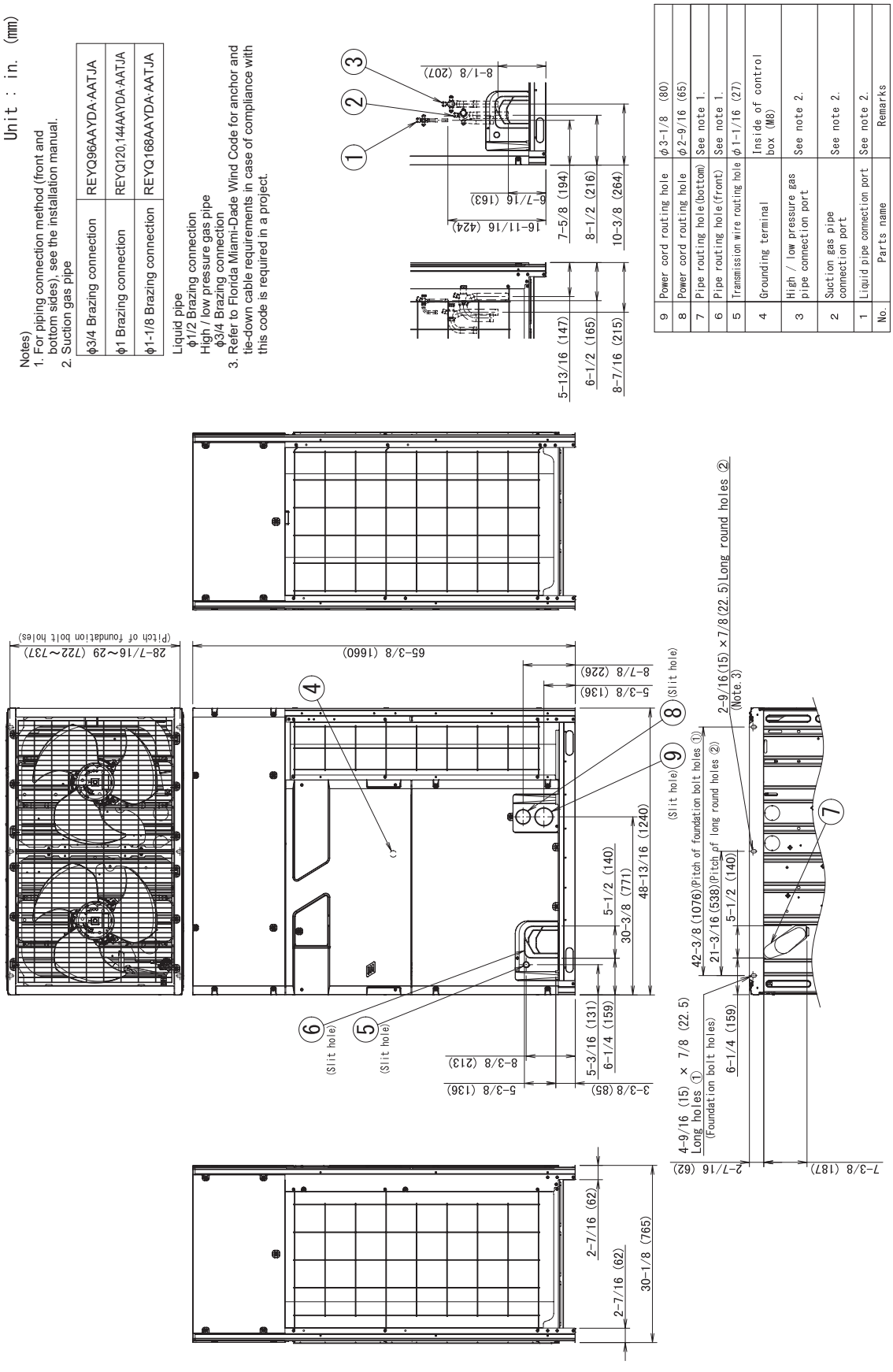
C: 4D134614A

9. Dimensions

REYQ72AATJA / AAYDA

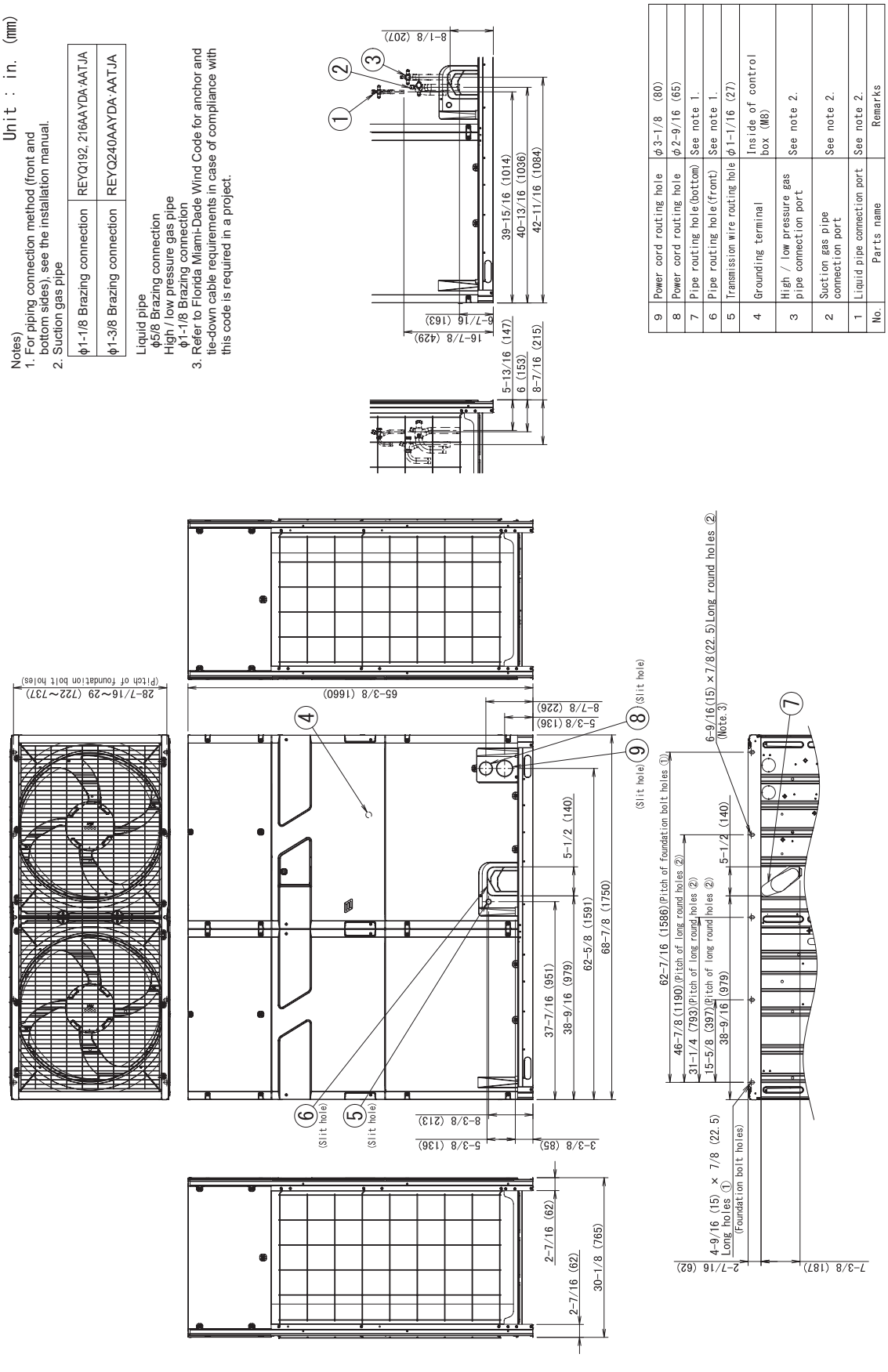


REYQ96 - 168AATJA / AAYDA



C: 3D133768C

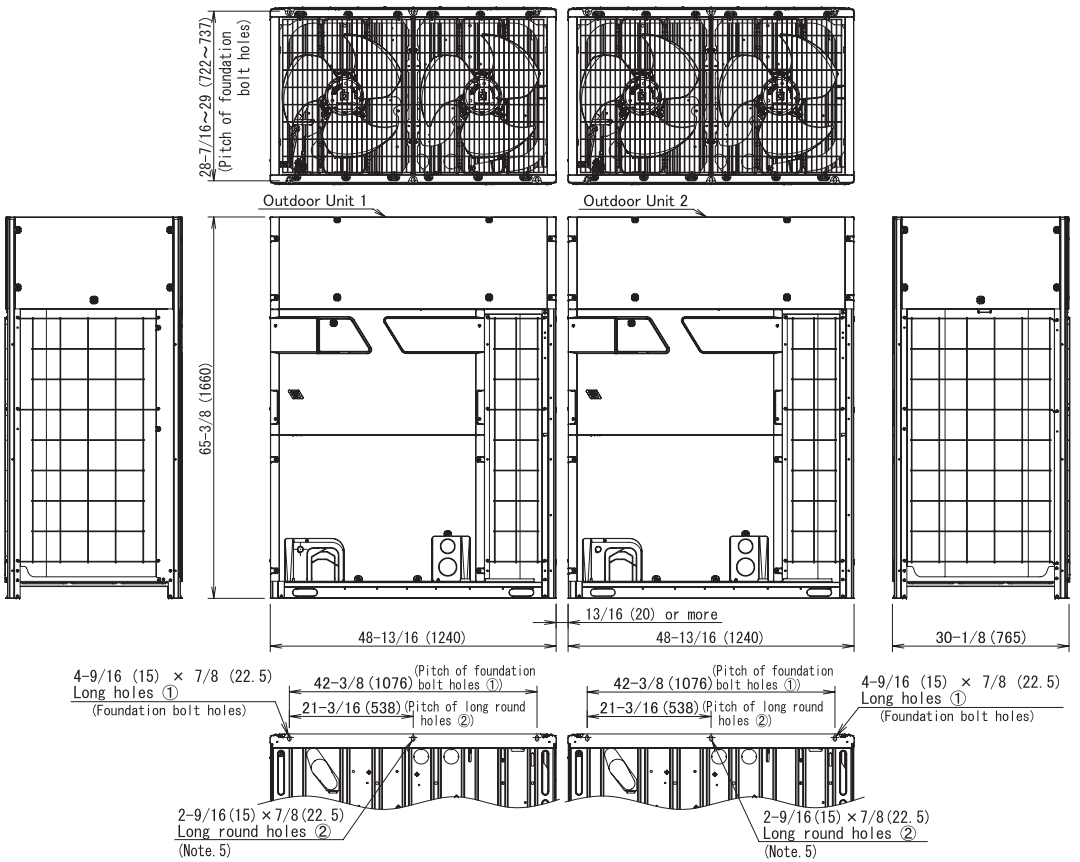
REYQ192 - 240AATJA / AAYDA

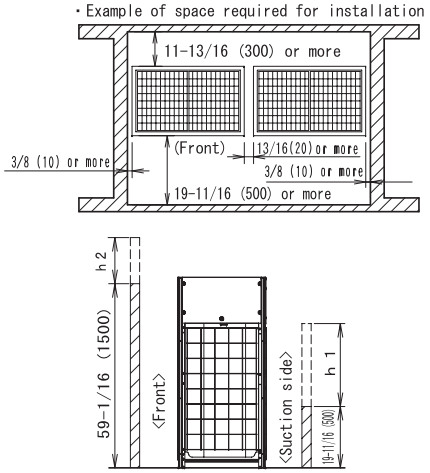


C: 3D133769C

REYQ264 - 336AATJA / AAYDA

Unit : in. (mm)





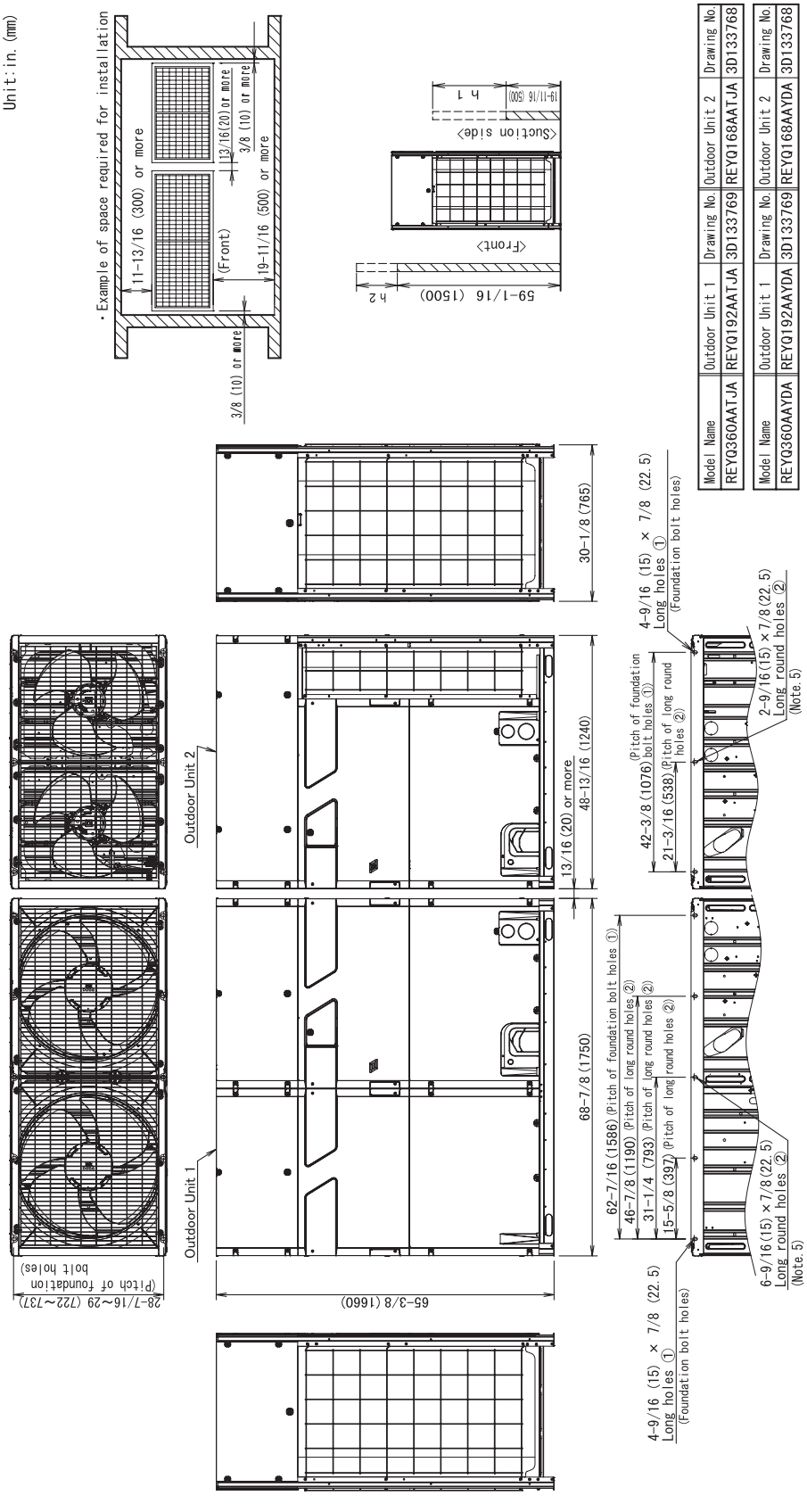
Model Name	Outdoor Unit 1	Drawing No.	Outdoor Unit 2	Drawing No.
REYQ264AATJA	REYQ144AATJA	3D133768	REYQ120AATJA	3D133768
REYQ288AATJA	REYQ144AATJA	3D133768	REYQ144AATJA	3D133768
REYQ312AATJA	REYQ168AATJA	3D133768	REYQ144AATJA	3D133768
REYQ336AATJA	REYQ168AATJA	3D133768	REYQ168AATJA	3D133768

Model Name	Outdoor Unit 1	Drawing No.	Outdoor Unit 2	Drawing No.
REYQ264AAYDA	REYQ144AAYDA	3D133768	REYQ120AAYDA	3D133768
REYQ288AAYDA	REYQ144AAYDA	3D133768	REYQ144AAYDA	3D133768
REYQ312AAYDA	REYQ168AAYDA	3D133768	REYQ144AAYDA	3D133768
REYQ336AAYDA	REYQ168AAYDA	3D133768	REYQ168AAYDA	3D133768

Notes :
1. Heights of walls of this example;
   Front : 59-1/16in.(1500mm)
   Suction side : 19-11/16in.(500mm)
   Side : Height unrestricted
   The installation space shown in this figure is based on the condition of cooling operation at the outdoor air temperature of 95°FDB(35°CDB).
   The installation space of suction side shown above must be expanded in the following case.
   • Design outdoor temperature becomes over 95°FDB(35°CDB).
   • Operating over max. operating load (In case of causing a heavy heating load at indoor unit side).
2. If the above wall heights are exceeded then "h2"/2 and "h1"/2 should be added to the front and suction side service spaces respectively as shown in the following figure.
3. When installing the units the most appropriate pattern should be selected from "Installation and repair space drawing" in order to obtain the best fit in the space available always bearing in mind the need to leave enough room 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 shown in "Installation and repair space drawing", your layout should take account of the possibility of short circuiting.)
4. The units should be installed to leave sufficient space at the front for the on site refrigerant piping work to be carried out comfortably.
5. Refer to Florida Miami-Dade Wind Code for anchor and tie-down cable requirements in case of compliance with this code is required in a project.

C: 3D133770B

REYQ360AATJA / AAYDA



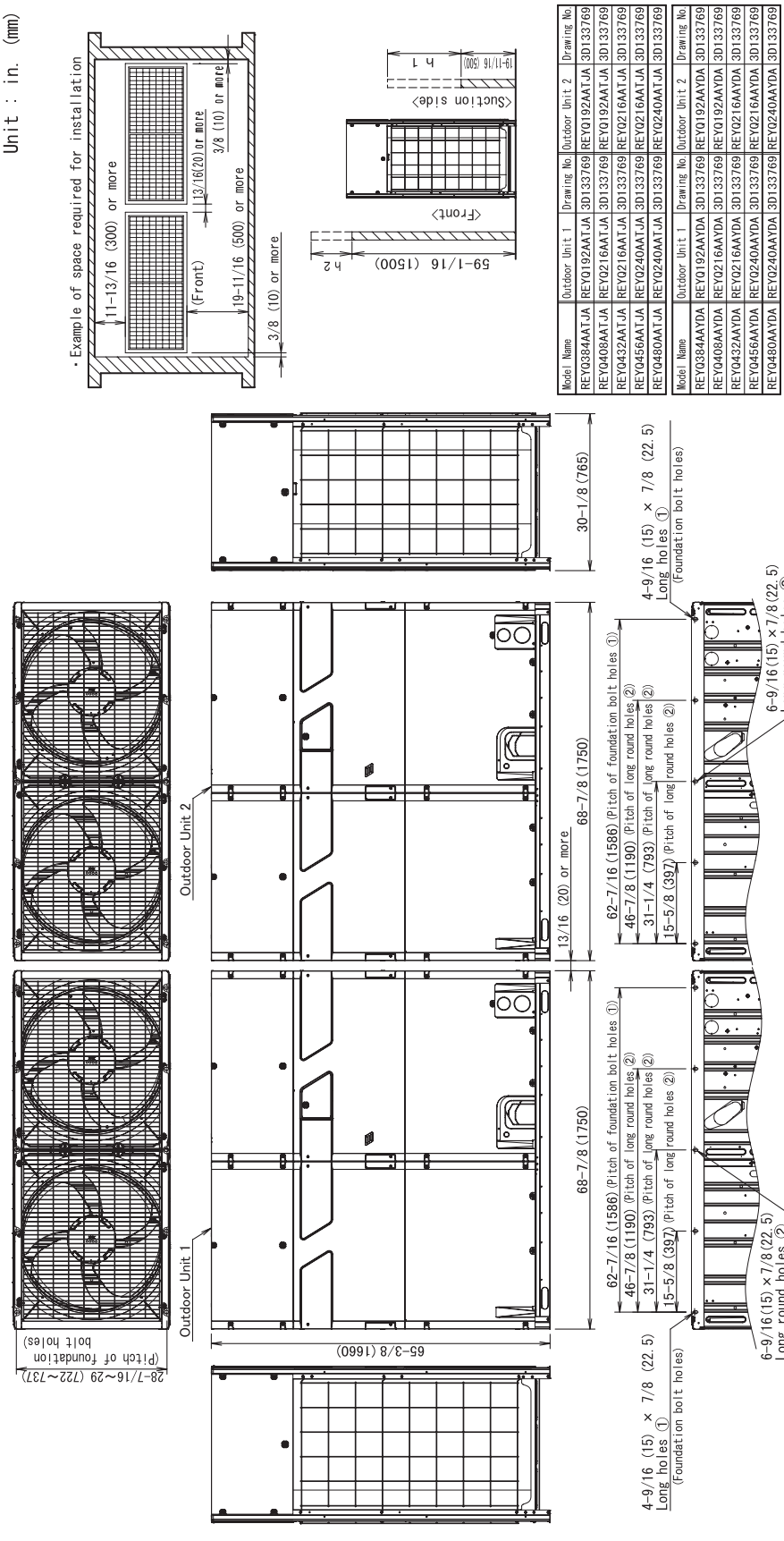
Model Name	Outdoor Unit 1	Drawing No.	Outdoor Unit 2	Drawing No.
REYQ360AATJA	REYQ192AATJA	3D133769	REYQ168AATJA	3D133768

Model Name	Outdoor Unit 1	Drawing No.	Outdoor Unit 2	Drawing No.
REYQ360AAYDA	REYQ192AAYDA	3D133769	REYQ168AAYDA	3D133768

Notes :
1. Heights of walls of this example:
   Front : 59-1/16in.(1500mm)
   Suction side : 19-11/16in.(500mm)
   Side : Height unrestricted
   The installation space shown in this figure is based on the condition of cooling operation at the outdoor air temperature of 95°FDB(35°CDB).
   The installation space of suction side shown above must be expanded in the following case.
   • Design outdoor temperature becomes over 95°FDB(35°CDB).
   • Operating over max. operating load (In case of causing a heavy heating load at indoor unit side).
2. If the above wall heights are exceeded then h2*2 and h1*2 should be added to the front and suction side service spaces respectively as shown in the following figure.
3. When installing the units the most appropriate pattern should be selected from "Installation and repair space drawing" in order to obtain the best fit in the space available always bearing in mind the need to leave enough room 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 shown in "Installation and repair space drawing", your layout should take account of the possibility of short circuiting.)
4. The units should be installed to leave sufficient space at the front for the on site refrigerant piping work to be carried out comfortably.
5. Refer to Florida Miami-Dade Wind Code for anchor and tie-down cable requirements in case of compliance with this code is required in a project.

C: 3D133771B

REYQ384 - 480AATJA / AAYDA



Model Name	Outdoor Unit 1	Drawing No.	Outdoor Unit 2	Drawing No.
REYQ384AATJA	REYQ192AATJA	3D133769	REYQ192AATJA	3D133769
REYQ408AATJA	REYQ216AATJA	3D133769	REYQ192AATJA	3D133769
REYQ432AATJA	REYQ216AATJA	3D133769	REYQ216AATJA	3D133769
REYQ456AATJA	REYQ240AATJA	3D133769	REYQ216AATJA	3D133769
REYQ480AATJA	REYQ240AATJA	3D133769	REYQ240AATJA	3D133769

Model Name	Outdoor Unit 1	Drawing No.	Outdoor Unit 2	Drawing No.
REYQ384AAYDA	REYQ192AYDA	3D133769	REYQ192AAYDA	3D133769
REYQ408AAYDA	REYQ216AAYDA	3D133769	REYQ192AAYDA	3D133769
REYQ432AAYDA	REYQ216AAYDA	3D133769	REYQ216AAYDA	3D133769
REYQ456AAYDA	REYQ240AAYDA	3D133769	REYQ216AAYDA	3D133769
REYQ480AAYDA	REYQ240AAYDA	3D133769	REYQ240AAYDA	3D133769

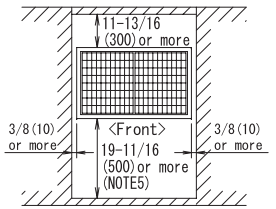
Notes :
1. Heights of walls of this example:
   Front : 59-1/16in.(1500mm)
   Suction side : 19-11/16in.(500mm)
   Side : Height unrestricted
   The installation space shown in this figure is based on the condition of cooling operation at the outdoor air temperature of 95°FDB(35°CDB).
   The installation space of suction side shown above must be expanded in the following case.
   • Design outdoor temperature becomes over 95°FDB(35°CDB).
   • Operating over max. operating load (In case of causing a heavy heating load at indoor unit side).
2. If the above wall heights are exceeded then "h2"/2 and "h1"/2 should be added to the front and suction side service spaces respectively as shown in the following figure.
3. When installing the units the most appropriate pattern should be selected from "installation and repair space drawing" in order to obtain the best fit in the space available always bearing in mind the need to leave enough room 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 shown in "Installation and repair space drawing", your layout should take account of the possibility of short circuiting.)
4. The units should be installed to leave sufficient space at the front for the on site refrigerant piping work to be carried out comfortably.
5. Refer to Florida Miami-Dade Wind Code for anchor and tie-down cable requirements in case of compliance with this code is required in a project.

C: 3D133772B

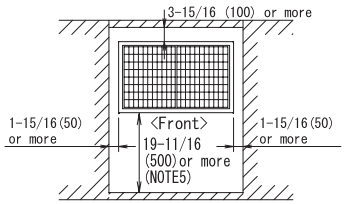
Unit : in. (mm)

For single unit installation

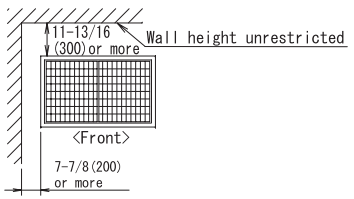
《Pattern 1》



《Pattern 2》

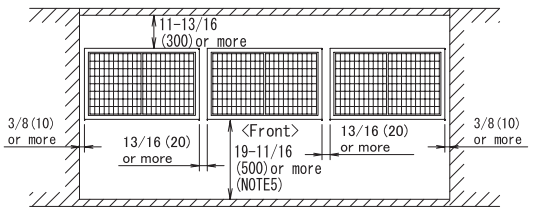


《Pattern 3》

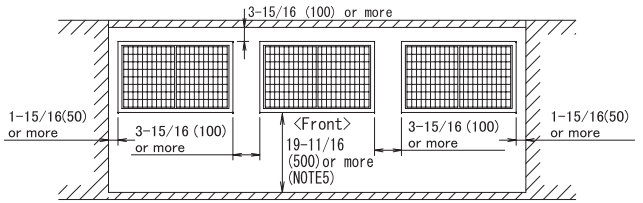


For installation in rows

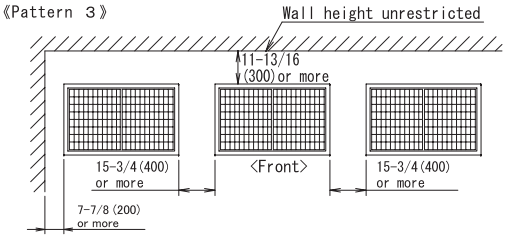
《Pattern 1》



《Pattern 2》

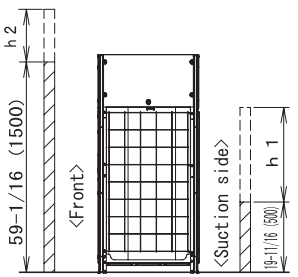


《Pattern 3》



Notes:

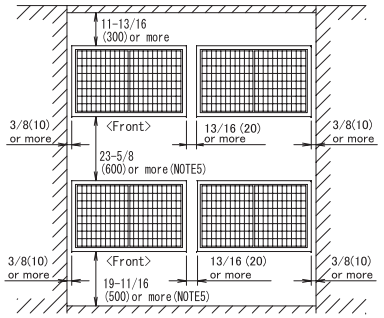
1. Heights of walls in case of Patterns 1 and 2;
   Front : 59-1/16in.(1500mm)
   Suction side : 19-11/16in.(500mm)
   Side : Height unrestricted
   The installation space shown in this figure is based on the condition of cooling operation at the outdoor air temperature of 95°FDB(35°CDB).
   The installation space of suction side shown above must be expanded in the following case.
   • Design outdoor temperature becomes over 95°FDB(35°CDB).
   • Operating over max. operating load (In case of causing a heavy heating load at indoor unit side)
2. If the above wall heights are exceeded then h2/2 and h1/2 should be added to the front and suction side service spaces respectively as shown in the following figure.
3. When installing the units the most appropriate pattern should be selected from "Installation and repair space drawing" in order to obtain the best fit in the space available always bearing in mind the need to leave enough room 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 shown in "Installation and repair space drawing", your layout should take account of the possibility of short circuiting.)
4. The units should be installed to leave sufficient space at the front for the on site refrigerant piping work to be carried out comfortably.
5. It is not mandatory but recommended to leave 28 in.(710mm) distance in front of the equipment if enough working space is needed for service work.



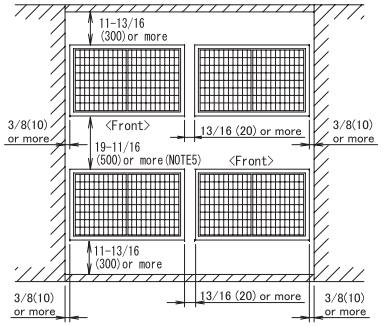
Unit : in. (mm)

For centralized group layout

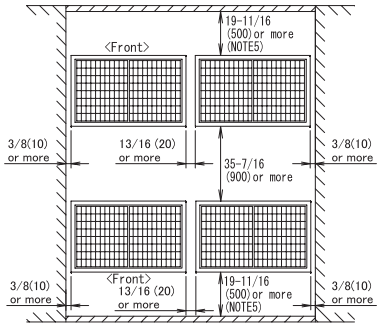
《Pattern 1》



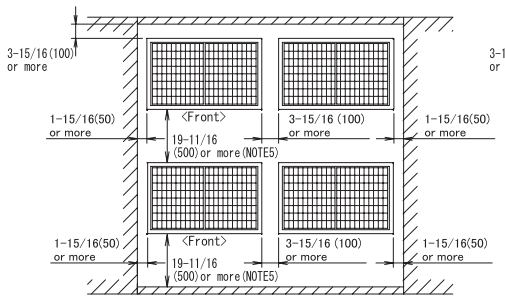
《Pattern 1》



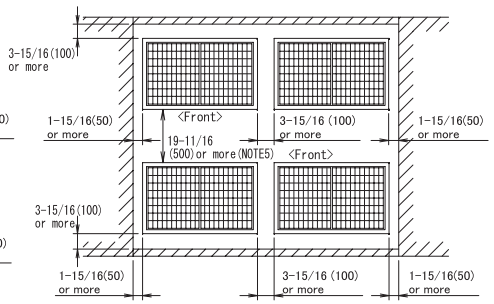
《Pattern 1》



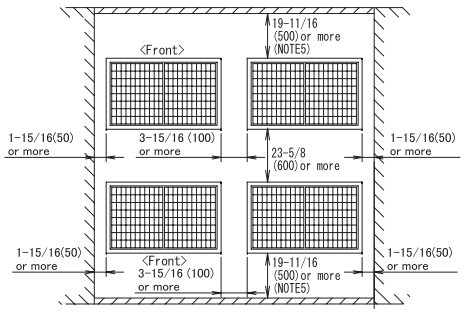
《Pattern 2》



《Pattern 2》

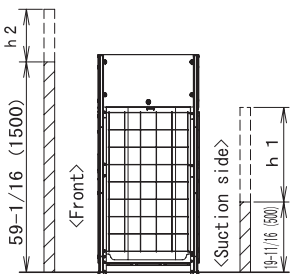


《Pattern 2》



Notes:

1. Heights of walls in case of Patterns 1 and 2;
   Front : 59-1/16in.(1500mm)
   Suction side : 19-11/16in.(500mm)
   Side : Height unrestricted
   The installation space shown in this figure is based on the condition of cooling operation at the outdoor air temperature of 95°FDB(35°CDB).
   The installation space of suction side shown above must be expanded in the following case.
   • Design outdoor temperature becomes over 95°FDB(35°CDB).
   • Operating over max. operating load (In case of causing a heavy heating load at indoor unit side)
2. If the above wall heights are exceeded then h2/2 and h1/2 should be added to the front and suction side service spaces respectively as shown in the following figure.
3. When installing the units the most appropriate pattern should be selected from "Installation and repair space drawing" in order to obtain the best fit in the space available always bearing in mind the need to leave enough room 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 shown in "Installation and repair space drawing", your layout should take account of the possibility of short circuiting.)
4. The units should be installed to leave sufficient space at the front for the on site refrigerant piping work to be carried out comfortably.
5. It is not mandatory but recommended to leave 28 in.(710mm) distance in front of the equipment if enough working space is needed for service work.

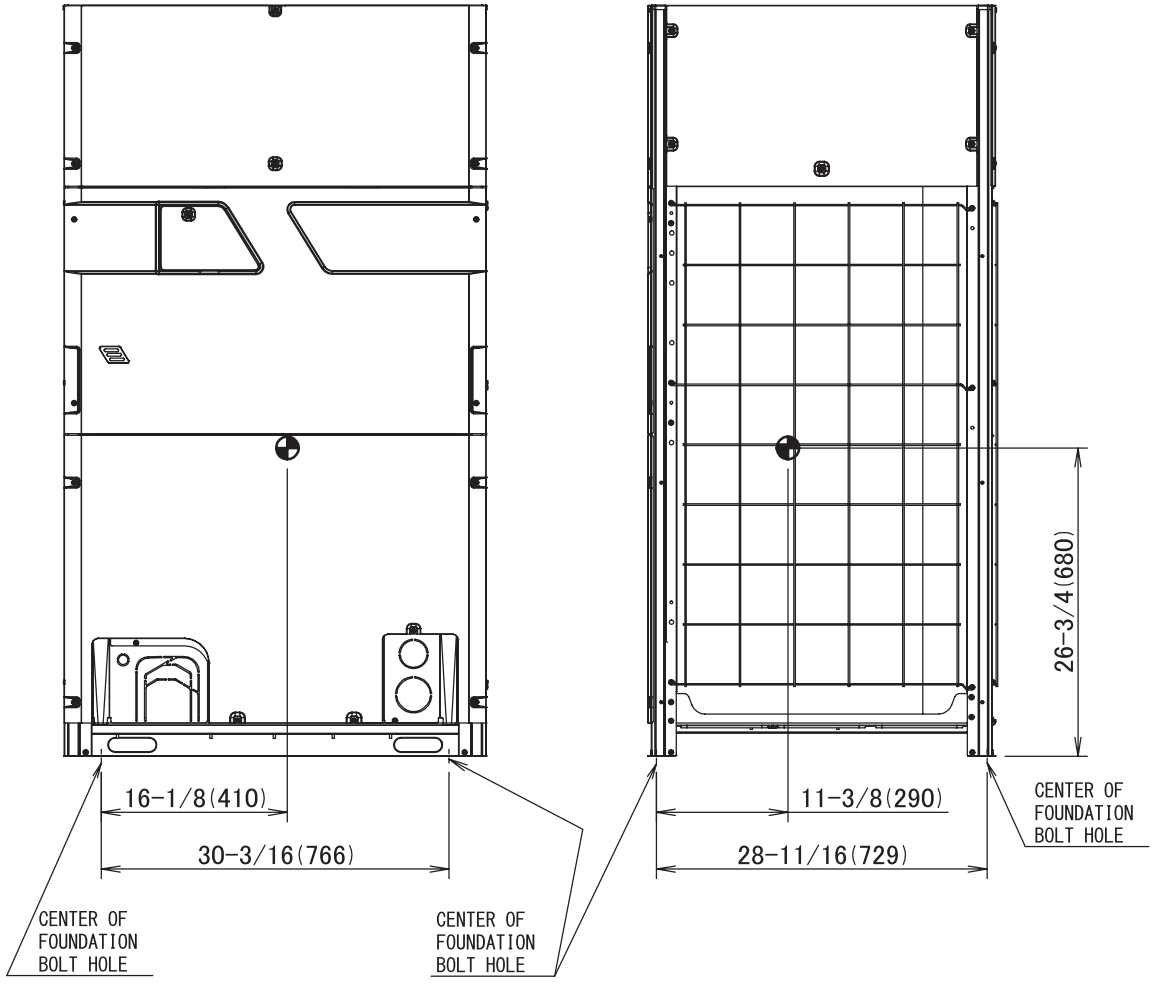


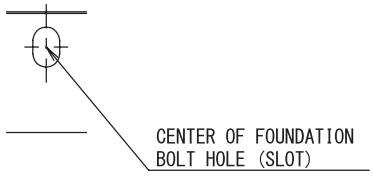
C: 3D133774A

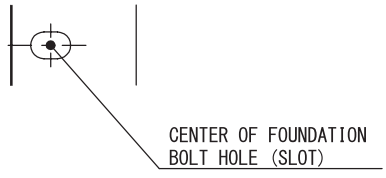
11. Center of Gravity

REYQ72AATJA / AAYDA

Unit : in. (mm)



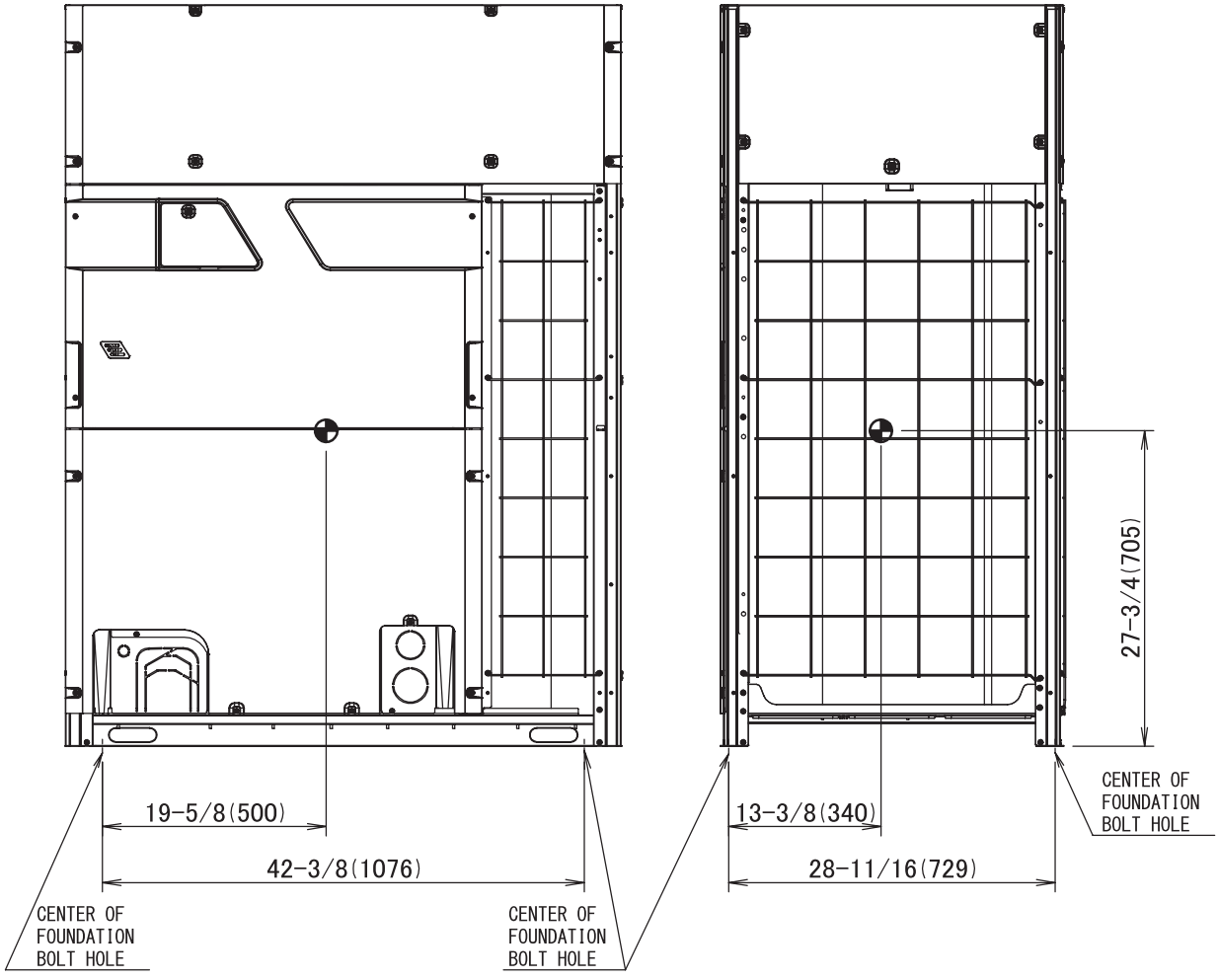


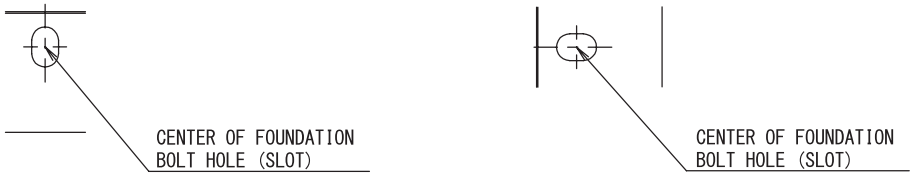


4D133775B

REYQ96 - 168AATJA / AAYDA

Unit : in. (mm)

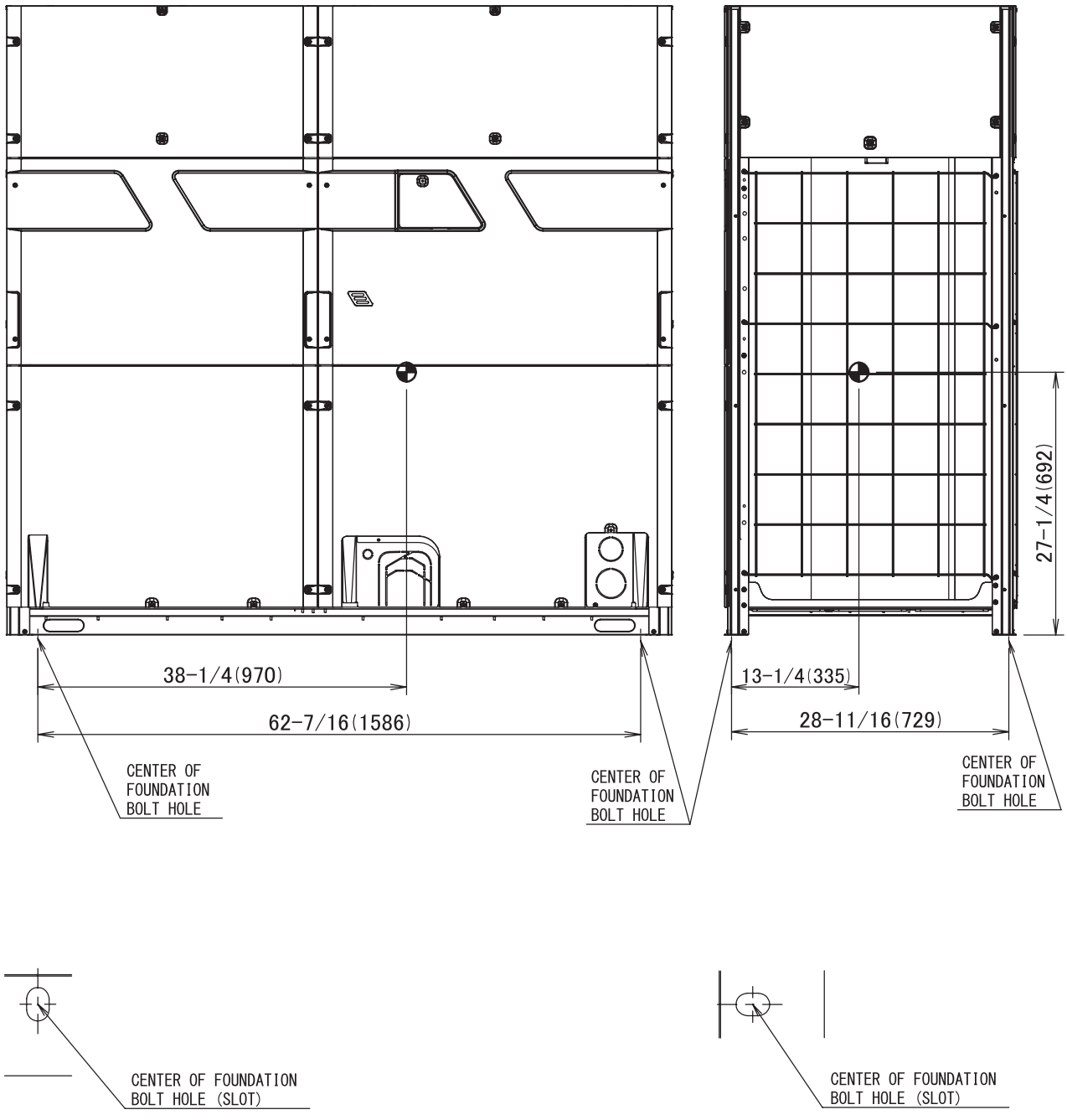




4D133776B

REYQ192 - 240AATJA / AAYDA

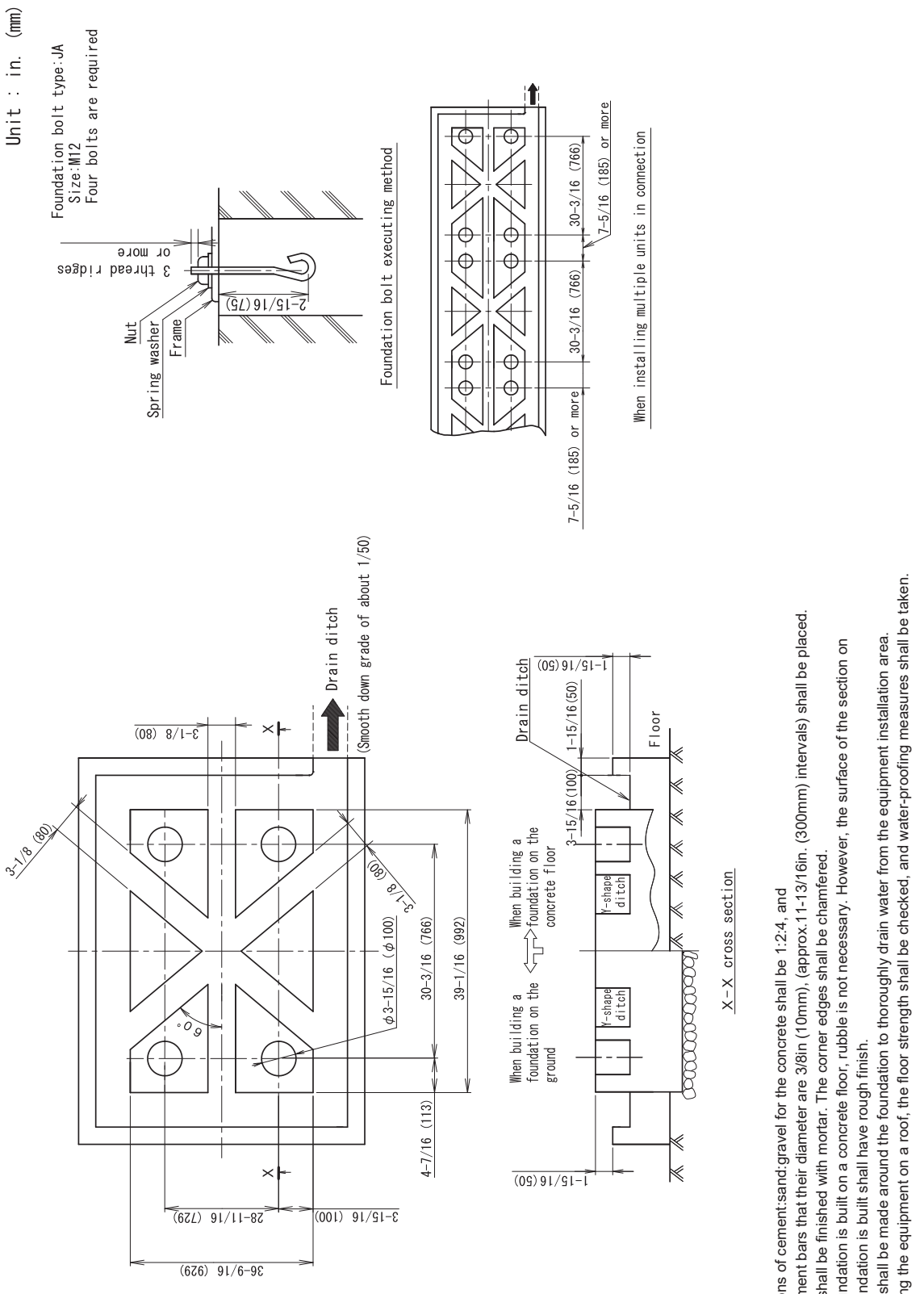
Unit : in. (mm)



4D133777B

12.Foundation Drawing

REYQ72AATJA / AAYDA

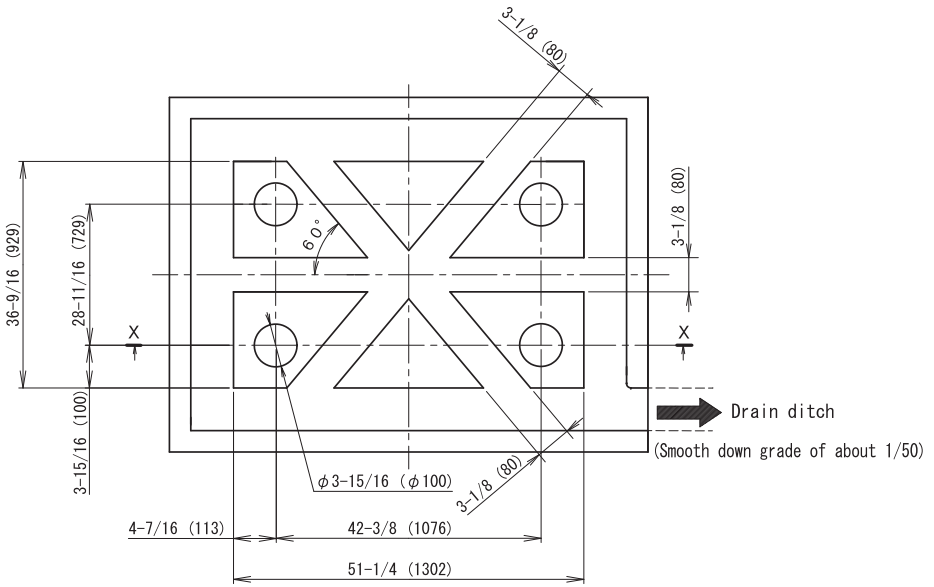


C: 3D133718

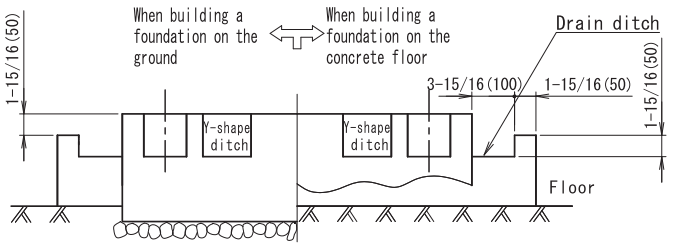
(Notes)
1. The proportions of cement:sand:gravel for the concrete shall be 1:2:4, and the reinforcement bars that their diameter are 3/8in (10mm), (approx.11-13/16in. (300mm) intervals) shall be placed.
2. The surface shall be finished with mortar. The corner edges shall be chamfered.
3. When the foundation 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.

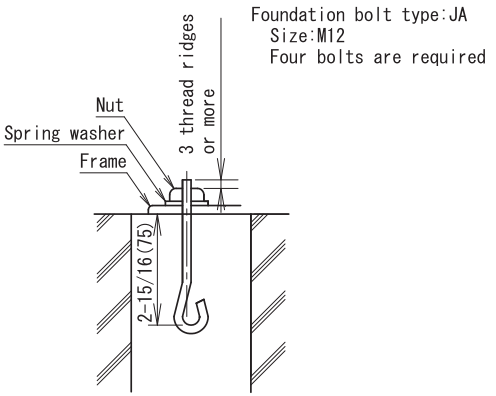
REYQ96 - 168AATJA / AAYDA

Unit : in. (mm)

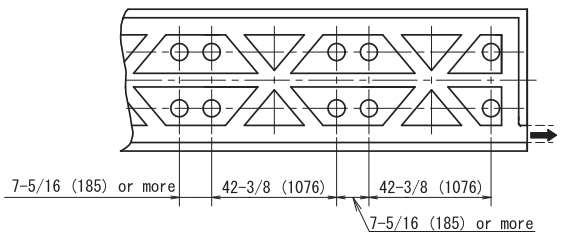


X-X cross section





Foundation bolt executing method



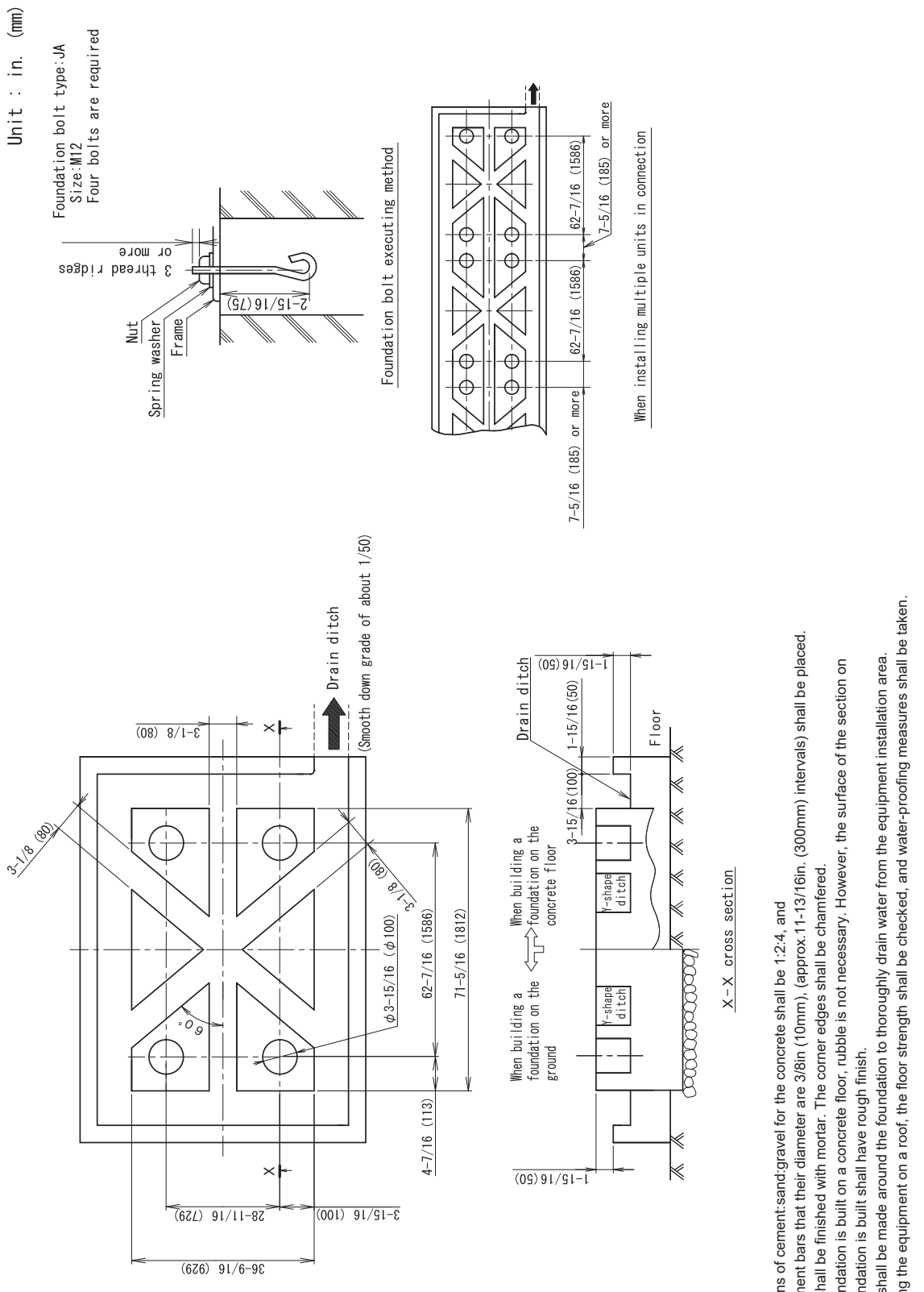
When installing multiple units in connection

(Notes)

1. The proportions of cement:sand:gravel for the concrete shall be 1:2:4, and the reinforcement bars that their diameter are 3/8in (10mm), (approx.11-13/16in. (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.

C: 3D133719

REYQ192 - 240AATJA / AAYDA

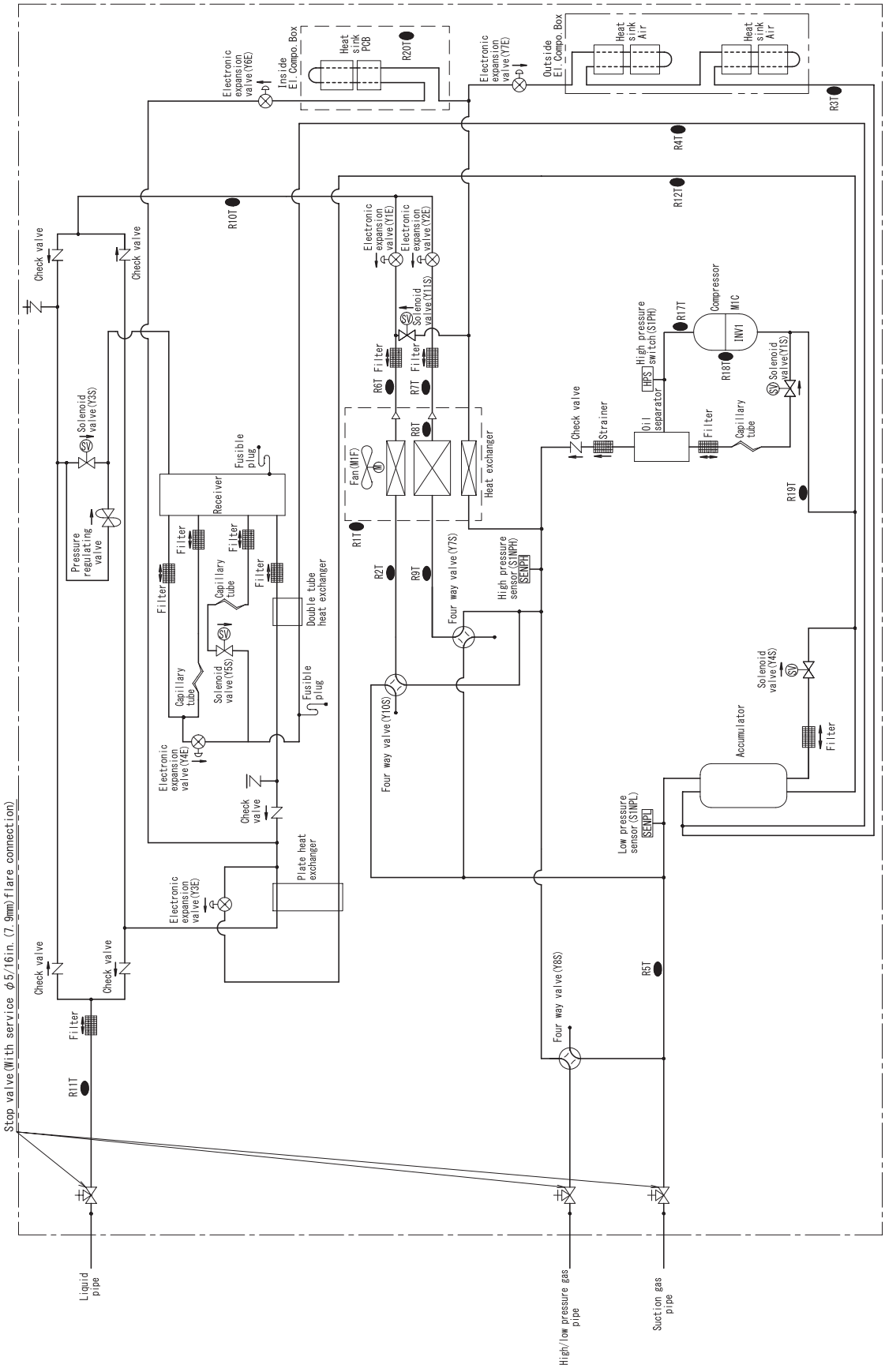


(Notes)
1. The proportions of cement:sand:gravel for the concrete shall be 1:2:4, and the reinforcement bars that their diameter are 3/8in (10mm), (approx.11-13/16in. (300mm) intervals) shall be placed.
2. The surface shall be finished with mortar. The corner edges shall be chamfered.
3. When the foundation 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.

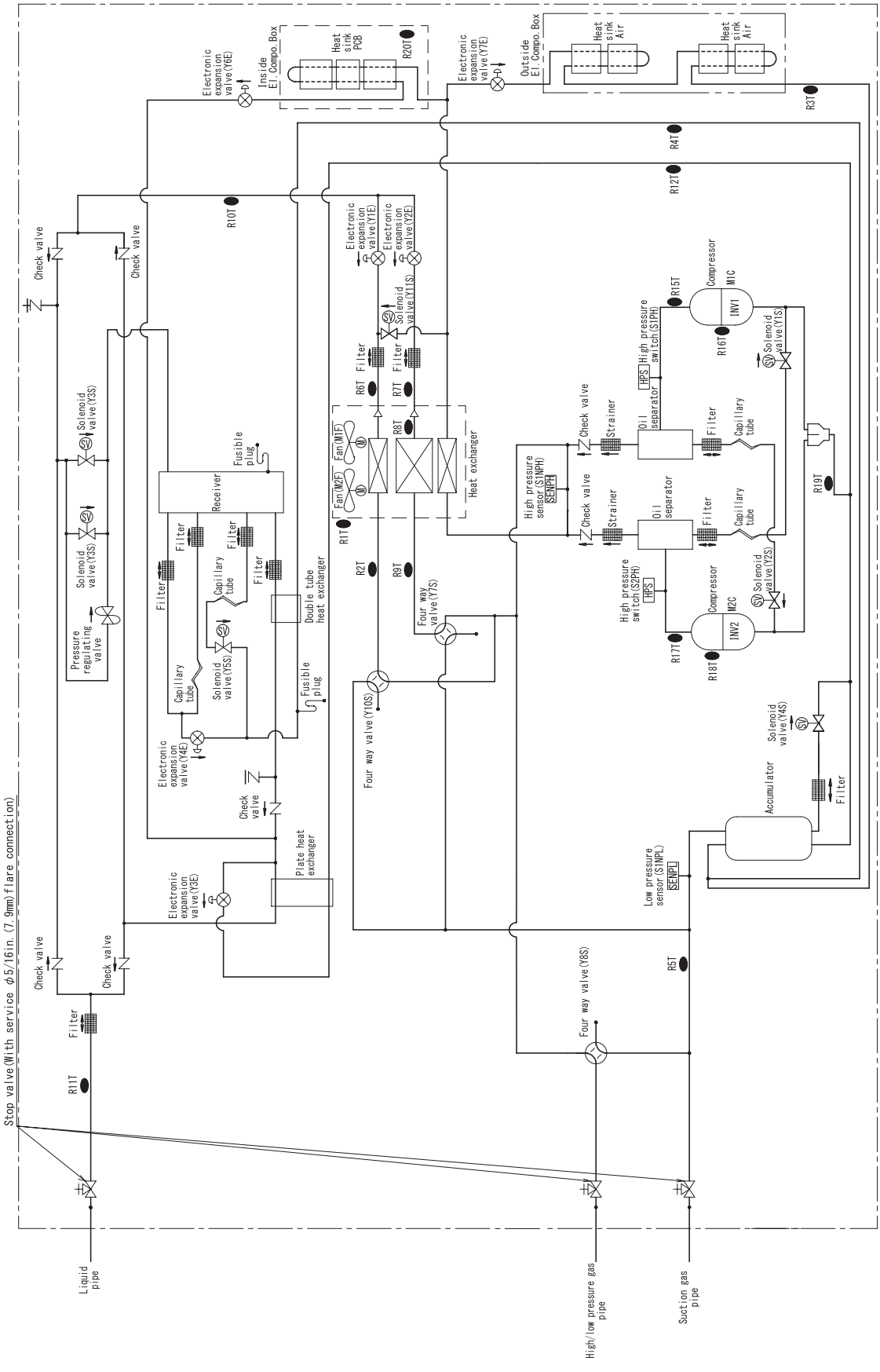
C: 3D133720

13.Piping Diagrams

REYQ72AATJA / AAYDA

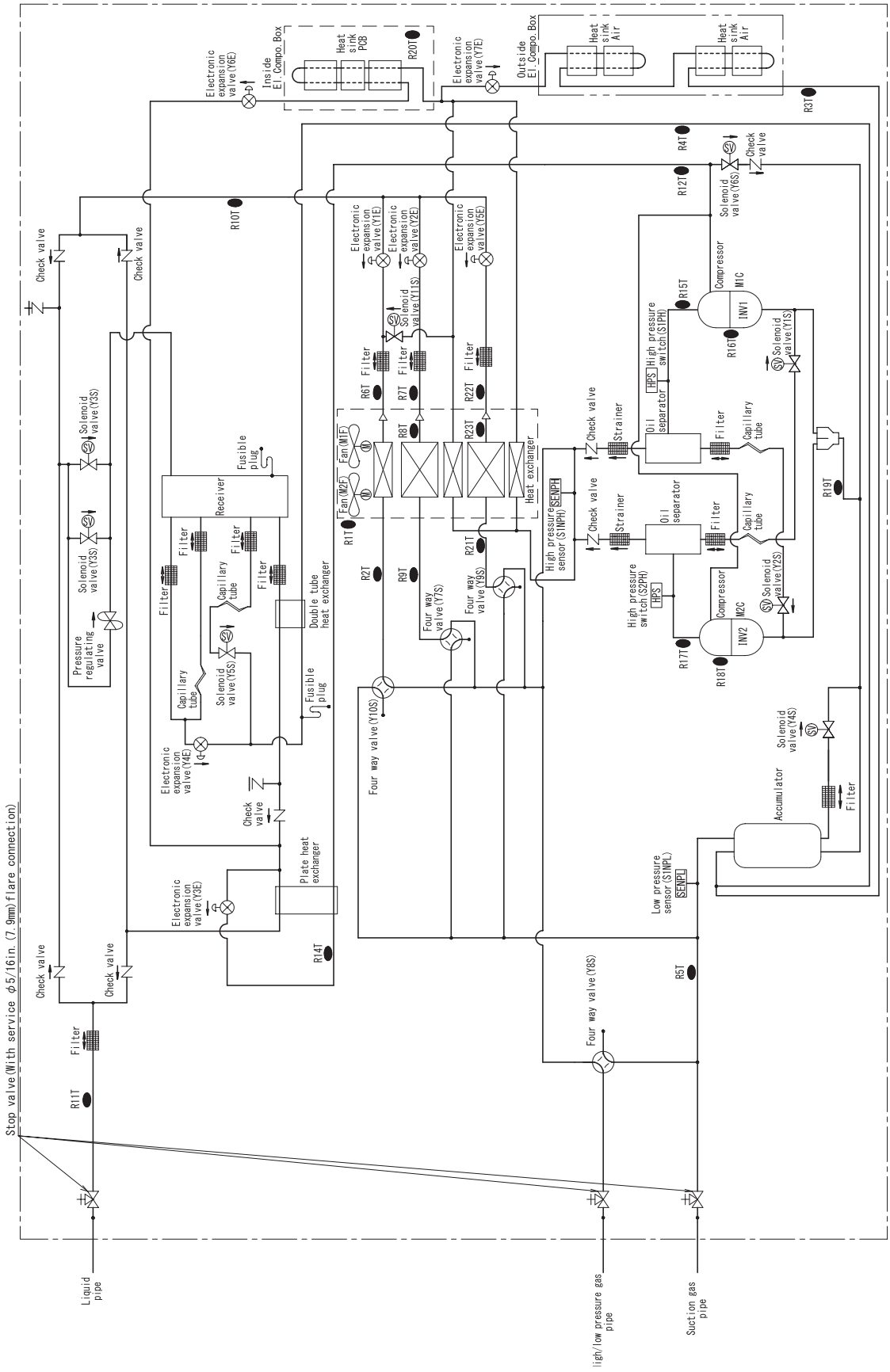


REYQ96 - 168AATJA / AAYDA



3D135726C

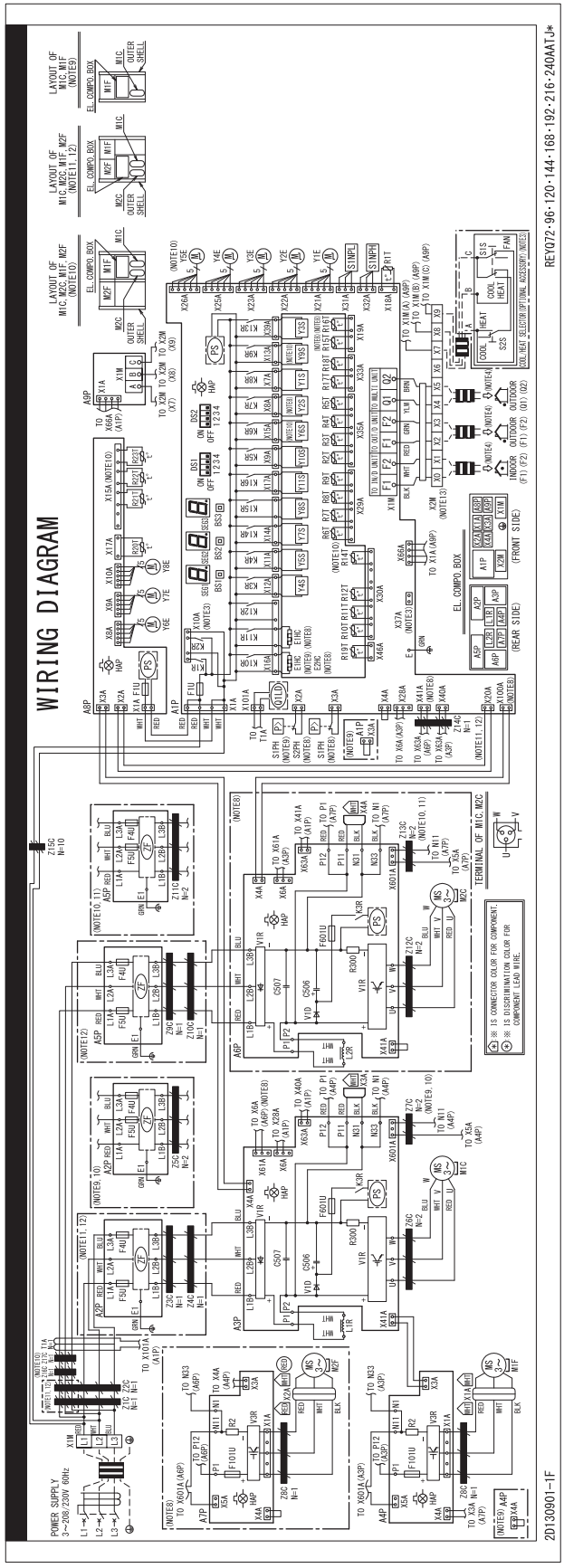
REYQ192 - 240AATJA / AAYDA



3D135727C

14.Wiring Diagrams

REYQ72 - 240AATJA



NOTES)
1. THIS WIRING DIAGRAM APPLIES ONLY TO THE OUTDOOR UNIT.
2. : FIELD WIRING, : TERMINAL BLOCK, : CONNECTOR, : TERMINAL,
   : PROTECTIVE GROUND (SCREW), : NOISELESS GROUND.
3. WHEN USING THE OPTIONAL ADAPTER, REFER TO THE INSTALLATION MANUAL OF THE OPTIONAL ADAPTER.
4. FOR CONNECTION WIRING TO INDOOR-OUTDOOR TRANSMISSION F1·F2, OUTDOOR-OUTDOOR TRANSMISSION F1·F2, OUTDOOR-MULTI TRANSMISSION Q1·Q2, REFER TO THE INSTALLATION MANUAL.
5. HOW TO USE BS1~3 SWITCH, REFER TO "SERVICE PRECAUTIONS" LABEL ON CONTROL BOX COVER.
6. WHEN OPERATING, DON'T SHORT-CIRCUIT THE PROTECTION DEVICE(S1PH).
7. COLORS BLK:BLACK;RED:RED;BLU:BLUE;WHT:WHITE;GRN:GREEN;GRY:GRAY;YLW:YELLOW;BRN:BROWN.
8. ONLY REYQ96~240AATJA.
9. ONLY REYQ72AATJA.
10. ONLY REYQ192~240AATJA.
11. ONLY REYQ144, 168AATJA.
12. ONLY REYQ96, 120AATJA
13. CLASS 2 WIRE.

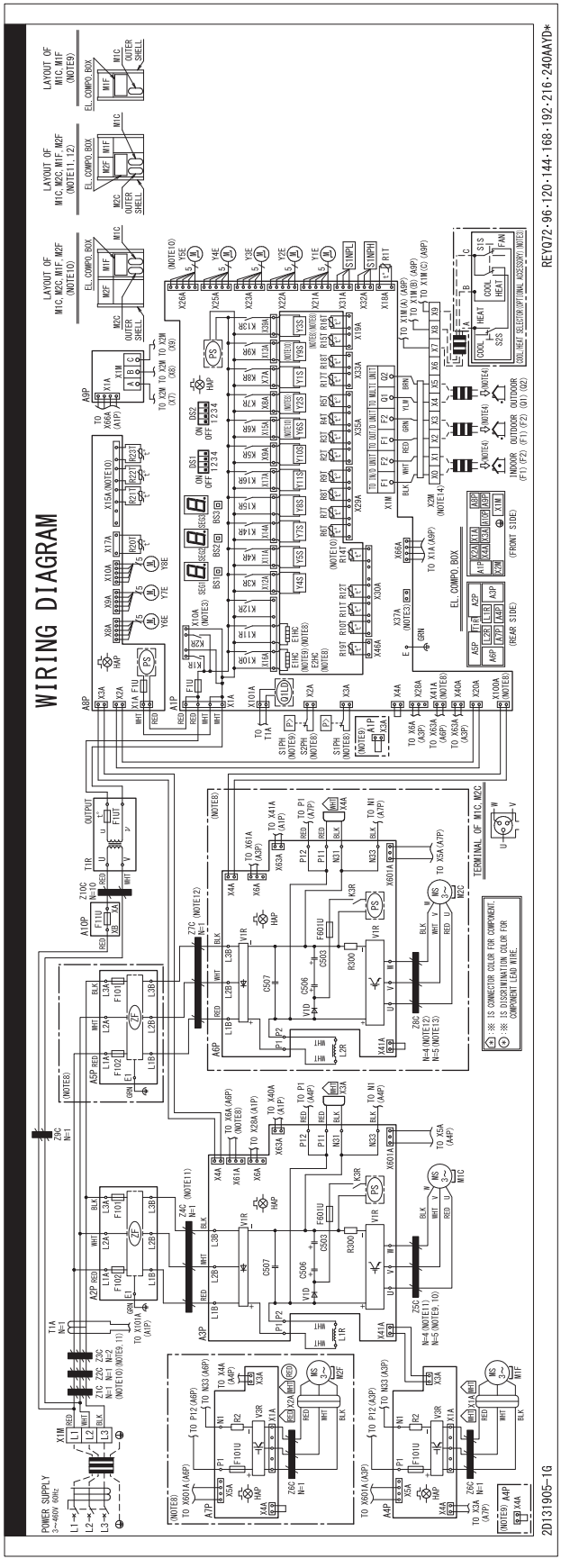
C: 2D130901F

REYQ72 - 240AATJA

A1P	PRINTED CIRCUIT BOARD (MAIN)	R19T	THERMISTOR (SUCTION)
A2P, A5P	PRINTED CIRCUIT BOARD (NOISE FILTER)	R20T	THERMISTOR (BOX AIR)
A3P, A6P	PRINTED CIRCUIT BOARD (COMP.INV.)	R21T (NOTE10)	THERMISTOR (HEAT EXC.LEFT GAS)
A4P, A7P	PRINTED CIRCUIT BOARD (FAN INV.)	R22T (NOTE10)	THERMISTOR (HEAT EXC.LEFT LIQUID)
A8P	PRINTED CIRCUIT BOARD (SUB)	R23T (NOTE10)	THERMISTOR (HEAT EXC.LEFT DEICER)
A9P	PRINTED CIRCUIT BOARD (ABC I/P)	S1NPH	PRESSURE SENSOR (HIGH)
BS1~BS3	PUSH BUTTON SWITCH (MODE, SET, RETURN) (A1P)	S1NPL	PRESSURE SENSOR (LOW)
C506, C507	CAPACITOR (A3P, A6P)	S1PH	PRESSURE SWITCH (M1C)
DS1, DS2	DIP SWTCH (A1P)	S2PH	PRESSURE SWITCH (M2C)
E1HC, E2HC	CRANKCASE HEATER	SEG1~SEG3	7-SEGMENT DISPLAY (A1P)
F1U	FUSE (A1P, A8P)	T1A	CURRENT SENSOR
F4U, F5U	FUSE (A2P, A5P)	V1D	DIODE (A3P, A6P)
F601U	FUSE (A3P, A6P)	V1R	POWER MODULE (A3P, A6P)
F101U	FUSE (A4P, A7P)	V3R	POWER MODULE (A4P, A7P)
HAP	PILOTLAMP (A1P, A3P, A4P, A6P, A7P, A8P) (SERVICE MONITOR-GREEN)	X1A, X2A	CONNECTOR (M1F, M2F)
		X3A, X4A	CONNECTOR (RESIDUAL CHARGE CHECK)
K1R~K16R	MAGNETIC RELAY (A1P)	X1M	TERMINAL BLOCK (POWER SUPPLY)
K3R	MAGNETIC RELAY (A3P, A6P)	X1M	TERMINAL BLOCK (CONTROL) (A1P)
L1R, L2R	REACTOR	X2M	TERMINAL BLOCK (RELAY)
M1C, M2C	MOTOR (COMPRESSOR)	Y1E	ELEC.EXP.VALVE (HEAT EXC.RIGHT UPPER)
M1F, M2F	MOTOR (FAN)	Y2E	ELEC.EXP.VALVE (HEAT EXC.RIGHT LOWER)
PS	SWITCHING POWER SUPPLY (A1P, A3P, A6P, A8P)	Y3E	ELEC.EXP.VALVE (SUBCOOL HEAT EXC.)
Q1LD	LEAKAGE DETECTION CIRCUIT (A1P)	Y4E	ELEC.EXP.VALVE (RECEIVER GAS PURGE)
R2	R2 RESISTOR (CURRENT SENSOR) (A4P, A7P)	Y5E (NOTE10)	ELEC.EXP.VALVE (HEAT EXC.LEFT)
R300	RESISTOR (CURRENT SENSOR) (A3P, A6P)	Y6E	ELEC.EXP.VALVE (REFRIGERANT COOLING IPM)
R1T	THERMISTOR (AIR)	Y7E	ELEC.EXP.VALVE (REFRIGERANT COOLING AIR)
R2T	THERMISTOR (HEAT EXC.GAS)	Y8E	ELEC.EXP.VALVE (AUTO CHARGE)
R3T	THERMISTOR (E.BOX AIR OUTLET)	Y1S (NOTE9)	SOLENOID VALVE (OS OIL RETURN 1)
R4T	THERMISTOR (RECEIVER GAS PURGE)	Y1S (NOTE8)	SOLENOID VALVE (OS OIL RETURN 2)
R5T	THERMISTOR (SUCTION BEFORE ACCUMULATOR)	Y2S (NOTE8)	SOLENOID VALVE (OS OIL RETURN 1)
R6T	THERMISTOR (HEAT EXC.RIGHT UPPER LIQUID)	Y3S	SOLENOID VALVE (LIQUID SHUT OFF)
R7T	THERMISTOR (HEAT EXC.RIGHT LOWER LIQUID)	Y4S	SOLENOID VALVE (ACCUUMULATOR OIL RETURN)
R8T	THERMISTOR (HEAT EXC.RIGHT DEICER)	Y5S	SOLENOID VALVE (REFRIGERANT ADJUSTMENT)
R9T	THERMISTOR (HEAT EXC.RIGHT GAS)	Y6S (NOTE10)	SOLENOID VALVE (INJ.)
R10T	THERMISTOR (LIQUID)	Y7S	4 WAY VALVE (HEAT EXC.LOWER)
R11T	THERMISTOR (SUB COOLING LIQUID)	Y8S	4 WAY VALVE (HP/LP GAS PIPE)
R12T	THERMISTOR (SUB COOLING GAS)	Y9S (NOTE10)	4 WAY VALVE (HEAT EXC.LEFT)
R14T (NOTE10)	THERMISTOR (SUB COOLING INJ)	Y10S	4 WAY VALVE (HEAT EXC.UPPER)
R15T (NOTE8)	THERMISTOR (M1C DISCHARGE)	Y11S	SOLENOID VALVE (REFRIGERANT COOLING BYPASS)
R16T (NOTE8)	THERMISTOR (M1C COMPRESSOR BODY)	Z1C~Z17C	NOISE FILTER (FERRITE CORE)
R17T (NOTE9)	THERMISTOR (M1C DISCHARGE)	ZF	NOISE FILTER (A2P, A5P)
R17T (NOTE8)	THERMISTOR (M2C DISCHARGE)	COOL/HEAT SELECTOR	
R18T (NOTE9)	THERMISTOR (M1C COMPRESSOR BODY)	S1S	SELECTOR SWITCH (FAN/COOL·HEAT)
R18T (NOTE8)	THERMISTOR (M2C COMPRESSOR BODY)	S2S	SELECTOR SWITCH (COOL/HEAT)

C: 2D130901F

REYQ72 - 240AAYDA



NOTES)
1. THIS WIRING DIAGRAM APPLIES ONLY TO THE OUTDOOR UNIT.
2. : FIELD WIRING, : TERMINAL BLOCK, : CONNECTOR, : TERMINAL,
   : PROTECTIVE GROUND (SCREW), : NOISELESS GROUND.
3. WHEN USING THE OPTIONAL ADAPTER, REFER TO THE INSTALLATION MANUAL OF THE OPTIONAL ADAPTER.
4. FOR CONNECTION WIRING TO INDOOR-OUTDOOR TRANSMISSION F1·F2, OUTDOOR-OUTDOOR TRANSMISSION F1·F2, OUTDOOR-MULTI TRANSMISSION Q1·Q2, REFER TO THE INSTALLATION MANUAL.
5. HOW TO USE BS1~3 SWITCH, REFER TO "SERVICE PRECAUTIONS" LABEL ON CONTROL BOX COVER.
6. WHEN OPERATING, DON'T SHORT-CIRCUIT THE PROTECTION DEVICE(S1PH).
7. COLORS BLK:BLACK;RED:RED;BLU:BLUE;WHT:WHITE;GRN:GREEN;GRY:GRAY;YLW:YELLOW;BRN:BROWN.
8. ONLY REYQ96~240AAYDA.
9. ONLY REYQ72AAYDA.
10. ONLY REYQ192~240AAYDA.
11. ONLY REYQ96~168AAYDA.
12. ONLY REYQ96, 120AAYDA.
13. ONLY REYQ144~240AAYDA.
14. CLASS 2 WIRE.

C: 2D131905G

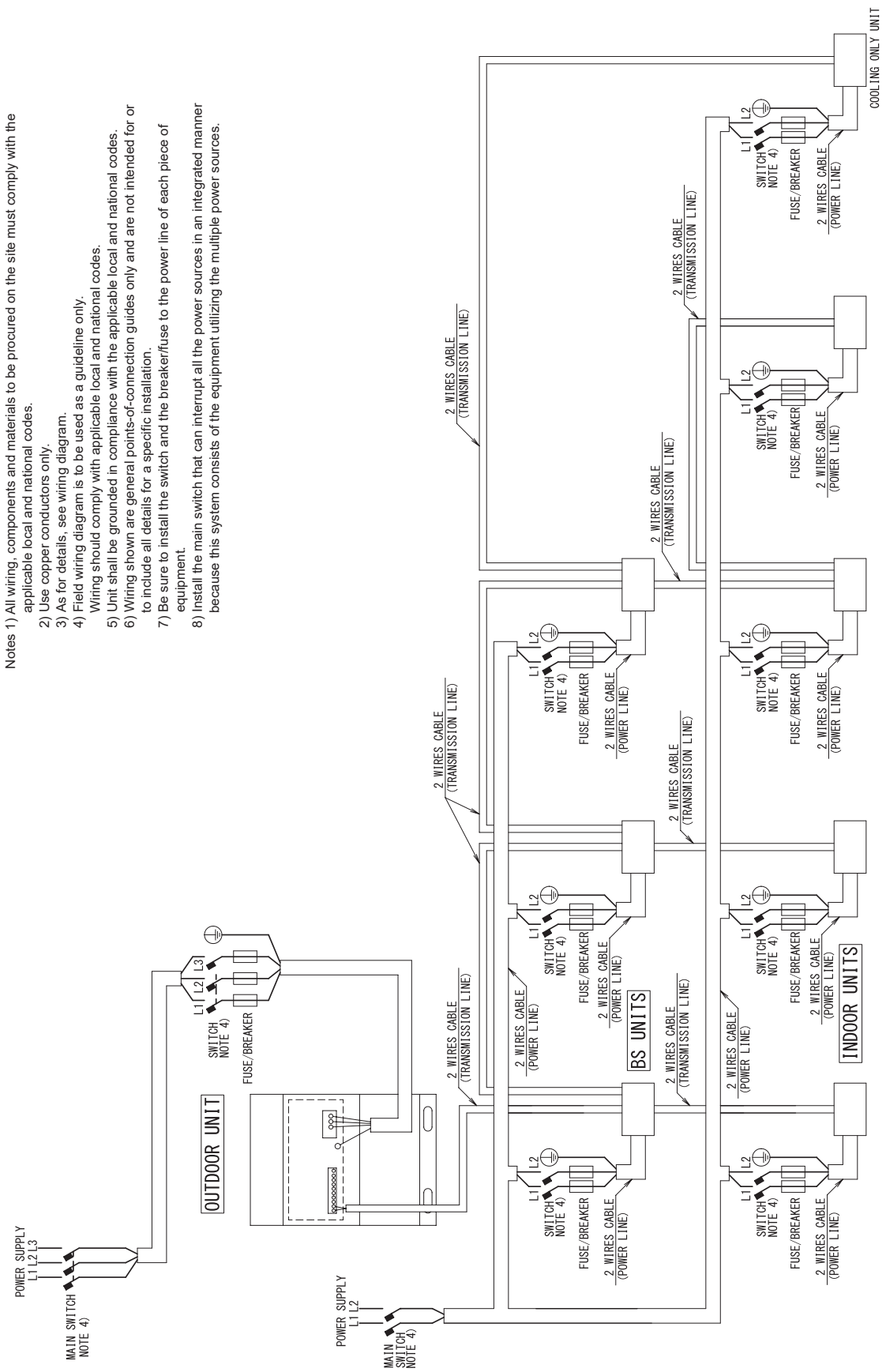
REYQ72 - 240AAYDA

A1P	PRINTED CIRCUIT BOARD (MAIN)	R18T (NOTE8)	THERMISTOR (M2C COMPRESSOR BODY)
A2P, A5P	PRINTED CIRCUIT BOARD (NOISE FILTER)	R19T	THERMISTOR (SUCTION)
A3P, A6P	PRINTED CIRCUIT BOARD (COMP.INV.)	R20T	THERMISTOR (BOX AIR)
A4P, A7P	PRINTED CIRCUIT BOARD (FAN INV.)	R21T (NOTE10)	THERMISTOR (HEAT EXC.LEFT GAS)
A8P	PRINTED CIRCUIT BOARD (SUB)	R22T (NOTE10)	THERMISTOR (HEAT EXC.LEFT LIQUID)
A9P	PRINTED CIRCUIT BOARD (ABC I/P)	R23T (NOTE10)	THERMISTOR (HEAT EXC.LEFT DEICER)
A10P	PRINTED CIRCUIT BOARD (FUSE)	S1NPH	PRESSURE SENSOR (HIGH)
BS1~BS3	PUSH BUTTON SWITCH (MODE, SET, RETURN) (A1P)	S1NPL	PRESSURE SENSOR (LOW)
C503, C506, C507	CAPACITOR (A3P, A6P)	S1PH	PRESSURE SWITCH (M1C)
DS1, DS2	DIP SWTCH (A1P)	S2PH	PRESSURE SWITCH (M2C)
E1HC, E2HC	CRANKCASE HEATER	SEG1~SEG3	7-SEGMENT DISPLAY (A1P)
F1U	FUSE (A1P, A8P)	T1A	CURRENT SENSOR
F101, F102	FUSE (A2P, A5P)	T1R	TRANSFORMER (460/230V)
F11U	FUSE (A10P)	V1D	DIODE (A3P, A6P)
F601U	FUSE (A3P, A6P)	V1R	POWER MODULE (A3P, A6P)
F101U	FUSE (A4P, A7P)	V3R	POWER MODULE (A4P, A7P)
F1UT	FUSE (T1R)	X1A, X2A	CONNECTOR (M1F, M2F)
HAP	PILOTLAMP (A1P, A3P, A4P, A6P, A7P, A8P) (SERVICE MONITOR-GREEN)	X3A, X4A	CONNECTOR (RESIDUAL CHARGE CHECK)
		X1M	TERMINAL BLOCK (POWER SUPPLY)
K1R~K16R	MAGNETIC RELAY (A1P)	X1M	TERMINAL BLOCK (CONTROL) (A1P)
K3R	MAGNETIC RELAY (A3P, A6P)	X2M	TERMINAL BLOCK (RELAY)
L1R, L2R	REACTOR	Y1E	ELEC.EXP.VALVE (HEAT EXC.RIGHT UPPER)
M1C, M2C	MOTOR (COMPRESSOR)	Y2E	ELEC.EXP.VALVE (HEAT EXC.RIGHT LOWER)
M1F, M2F	MOTOR (FAN)	Y3E	ELEC.EXP.VALVE (SUBCOOL HEAT EXC.)
PS	SWITCHING POWER SUPPLY (A1P, A3P, A6P, A8P)	Y4E	ELEC.EXP.VALVE (RECEIVER GAS PURGE)
Q1LD	LEAKAGE DETECTION CIRCUIT (A1P)	Y5E (NOTE10)	ELEC.EXP.VALVE (HEAT EXC.LEFT)
R2	R2 RESISTOR (CURRENT SENSOR) (A4P, A7P)	Y6E	ELEC.EXP.VALVE (REFRIGERANT COOLING IPM)
R300	RESISTOR (CURRENT SENSOR) (A3P, A6P)	Y7E	ELEC.EXP.VALVE (REFRIGERANT COOLING AIR)
R1T	THERMISTOR (AIR)	Y8E	ELEC.EXP.VALVE (AUTO CHARGE)
R2T	THERMISTOR (HEAT EXC.GAS)	Y1S (NOTE9)	SOLENOID VALVE (OS OIL RETURN 1)
R3T	THERMISTOR (E.BOX AIR OUTLET)	Y1S (NOTE8)	SOLENOID VALVE (OS OIL RETURN 2)
R4T	THERMISTOR (RECEIVER GAS PURGE)	Y2S (NOTE8)	SOLENOID VALVE (OS OIL RETURN 1)
R5T	THERMISTOR (SUCTION BEFORE ACCUMULATOR)	Y3S	SOLENOID VALVE (LIQUID SHUT OFF)
R6T	THERMISTOR (HEAT EXC.RIGHT UPPER LIQUID)	Y4S	SOLENOID VALVE (ACCUUMULATOR OIL RETURN)
R7T	THERMISTOR (HEAT EXC.RIGHT LOWER LIQUID)	Y5S	SOLENOID VALVE (REFRIGERANT ADJUSTMENT)
R8T	THERMISTOR (HEAT EXC.RIGHT DEICER)	Y6S (NOTE10)	SOLENOID VALVE (INJ.)
R9T	THERMISTOR (HEAT EXC.RIGHT GAS)	Y7S	4 WAY VALVE (HEAT EXC.LOWER)
R10T	THERMISTOR (LIQUID)	Y8S	4 WAY VALVE (HP/LP GAS PIPE)
R11T	THERMISTOR (SUB COOLING LIQUID)	Y9S (NOTE10)	4 WAY VALVE (HEAT EXC.LEFT)
R12T	THERMISTOR (SUB COOLING GAS)	Y10S	4 WAY VALVE (HEAT EXC.UPPER)
R14T (NOTE10)	THERMISTOR (SUB COOLING INJ)	Y11S	SOLENOID VALVE (REFRIGERANT COOLING BYPASS)
R15T (NOTE8)	THERMISTOR (M1C DISCHARGE)	Z1C~Z10C	NOISE FILTER (FERRITE CORE)
R16T (NOTE8)	THERMISTOR (M1C COMPRESSOR BODY)	ZF	NOISE FILTER (A2P, A5P)
R17T (NOTE9)	THERMISTOR (M1C DISCHARGE)	COOL/HEAT SELECTOR	
R17T (NOTE8)	THERMISTOR (M2C DISCHARGE)	S1S	SELECTOR SWITCH (FAN/COOL·HEAT)
R18T (NOTE9)	THERMISTOR (M1C COMPRESSOR BODY)	S2S	SELECTOR SWITCH (COOL/HEAT)

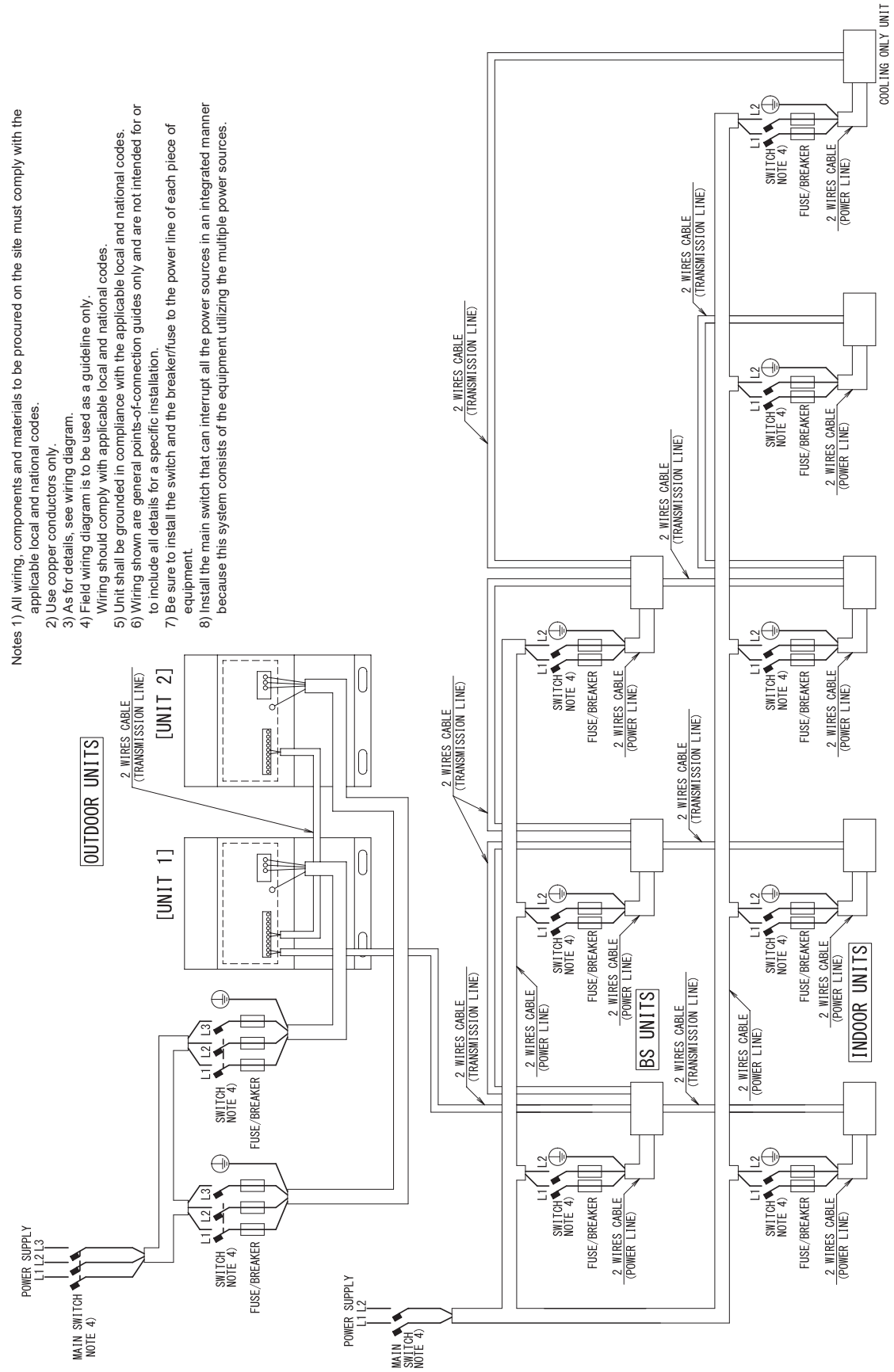
C: 2D131905G

15.Field Wiring

REYQ72 - 240AATJA / AAYDA



REYQ264 - 480AATJA /AAYDA



C: 3D134372

16. Electrical Characteristics

16.1 REYQ-AATJA

REYQ72 - 240AATJA

Model name	Units				Power supply		Comp.	OFM		
	Hz	Volts	Min.	Max.	MCA	MOP	RLA	kW	FLA	SCCR
REYQ72AATJA	60	208 / 230	187	253	27.3	30	11.1	0.95	3.4	SCCR kA rms, Symmetrical @600 V MAX: 5
REYQ96AATJA	60	208 / 230	187	253	34.1	35	7.6 + 7.6	0.65 × 2	2.3 × 2	
REYQ120AATJA	60	208 / 230	187	253	36.5	40	10.5 + 10.6	0.65 × 2	2.3 × 2	
REYQ144AATJA	60	208 / 230	187	253	47.8	50	10.0 + 15.8	0.65 × 2	2.3 × 2	
REYQ168AATJA	60	208 / 230	187	253	54.9	60	12.5 + 20.0	0.65 × 2	2.3 × 2	
REYQ192AATJA	60	208 / 230	187	253	59.8	60	16.6 + 16.6	0.95 × 2	3.4 × 2	
REYQ216AATJA	60	208 / 230	187	253	67.2	70	20.0 + 20.0	0.95 × 2	3.4 × 2	
REYQ240AATJA	60	208 / 230	187	253	73.7	80	24.3 + 24.4	0.95 × 2	3.4 × 2	

Symbols:
MCA :Min.Circuit Amps.(A)
MOP :Max.Overcurrent Protector(A)
RLA :Rated Load Amps.(A)
OFM :Outdoor Fan Motor
kW :Rated Motor Output(kW)
FLA :Full Load Amps.(A)
SCCR :Short-Circuit Current

Notes:
1. RLA is based on the following conditions.
   Indoor temp. 80°FDB (26.7°CDB)/67°F WB (19.4°CWB)
   Outdoor temp. 95°FDB (35.0°CDB)
2. Voltage range
   Units are designed to operate only at the rated voltage provided in the table above.
3. The maximum percent unbalance of phase voltage shall be 2%.
4. Select wire size based on the value of MCA.
5. MOP is used to select the circuit breaker.
6. Refer to electrical characteristics of each independent unit for SCCR.
7. MOP is based on the UL60335-2-40 calculated value.

C: 3D134615CC

REYQ264 - 480AATJA

Model name		Units				Power supply		Comp.	OFM	
Combination unit	Independent unit	Hz	Volts	Min.	Max.	MCA	MOP	RLA	kW	FLA
REYQ264AATJA	REYQ120AATJA REYQ144AATJA	60	208 / 230	187	253	36.5 + 47.8	40 + 50	(10.5 + 10.6) + (10.0 + 15.8)	(0.65 × 2) × 2	(2.3 × 2) × 2
REYQ288AATJA	REYQ144AATJA REYQ144AATJA	60	208 / 230	187	253	47.8 + 47.8	50 + 50	(10.0 + 15.8) ×2	(0.65 × 2) × 2	(2.3 × 2) × 2
REYQ312AATJA	REYQ144AATJA REYQ168AATJA	60	208 / 230	187	253	47.8 + 54.9	50 + 60	(10.0 + 15.8) + (12.5 + 20.0)	(0.65 × 2) × 2	(2.3 × 2) × 2
REYQ336AATJA	REYQ168AATJA REYQ168AATJA	60	208 / 230	187	253	54.9 + 54.9	60 + 60	(12.5+ 20.0) ×2	(0.65 × 2) × 2	(2.3 × 2) × 2
REYQ360AATJA	REYQ168AATJA REYQ192AATJA	60	208 / 230	187	253	54.9 + 59.8	60 + 60	(12.5 + 20.0) + (16.6 + 16.6)	(0.65 × 2) + (0.95 × 2)	(2.3 × 2) + (3.4 × 2)
REYQ384AATJA	REYQ192AATJA REYQ192AATJA	60	208 / 230	187	253	59.8 + 59.8	60 + 60	(16.6 +16.6) ×2	(0.95 × 2) × 2	(3.4 × 2) × 2
REYQ408AATJA	REYQ192AATJA REYQ216AATJA	60	208 / 230	187	253	59.8 + 67.2	60 + 70	(16.6 + 16.6) + (20.0 + 20.0)	(0.95 × 2) × 2	(3.4 × 2) × 2
REYQ432AATJA	REYQ216AATJA REYQ216AATJA	60	208 / 230	187	253	67.2 + 67.2	70 + 70	(20.0 + 20.0) ×2	(0.95 × 2) × 2	(3.4 × 2) × 2
REYQ456AATJA	REYQ216AATJA REYQ240AATJA	60	208 / 230	187	253	67.2 + 73.7	70 + 80	(20.0 + 20.0) + (24.3 +24.4)	(0.95 × 2) × 2	(3.4 × 2) × 2
REYQ480AATJA	REYQ240AATJA REYQ240AATJA	60	208 / 230	187	253	73.7 + 73.7	80 + 80	(24.3 + 24.4) ×2	(0.95 × 2) × 2	(3.4 × 2) × 2

Symbols:
MCA :Min.Circuit Amps.(A)
MOP :Max.Overcurrent Protector(A)
RLA :Rated Load Amps.(A)
OFM :Outdoor Fan Motor
kW :Rated Motor Output(kW)
FLA :Full Load Amps.(A)

Notes:
1. RLA is based on the following conditions.
   Indoor temp. 80°FDB (26.7°CDB)/67°F WB (19.4°CWB)
   Outdoor temp. 95°FDB (35.0°CDB)
2. Voltage range
   Units are designed to operate only at the rated voltage provided in the table above.
3. The maximum percent unbalance of phase voltage shall be 2%.
4. Select wire size based on the value of MCA.
5. MOP is used to select the circuit breaker.
6. Refer to electrical characteristics of each independent unit for SCCR.
7. MOP is based on the UL60335-2-40 calculated value.

C: 3D134616B

16.2 REYQ-AAYDA

REYQ72 - 240AAYDA

Model name	Units				Power supply		Comp.	OFM		
	Hz	Volts	Min.	Max.	MCA	MOP	RLA	kW	FLA	SCCR
REYQ72AAYDA	60	460	416	508	12.4	15	5.1	0.95	1.5	SCCR kA rms, Symmetrical @600 V MAX: 5
REYQ96AAYDA	60	460	416	508	16.4	20	3.4 + 3.5	0.65 × 2	1.0 × 2	
REYQ120AAYDA	60	460	416	508	16.6	20	4.8 + 4.8	0.65 × 2	1.0 × 2	
REYQ144AAYDA	60	460	416	508	21.3	25	4.5 + 7.2	0.65 × 2	1.0 × 2	
REYQ168AAYDA	60	460	416	508	24.9	30 (25*)	5.7 + 9.1	0.65 × 2	1.0 × 2	
REYQ192AAYDA	60	460	416	508	28.3	35 (30*)	7.5 + 7.6	0.95 × 2	1.5 × 2	
REYQ216AAYDA	60	460	416	508	29.9	35 (30*)	9.1 + 9.1	0.95 × 2	1.5 × 2	
REYQ240AAYDA	60	460	416	508	33.4	40	11.0 + 11.1	0.95 × 2	1.5 × 2	

Symbols:
MCA :Min.Circuit Amps.(A)
MOP :Max.Overcurrent Protector(A)
RLA :Rated Load Amps.(A)
OFM :Outdoor Fan Motor
kW :Rated Motor Output(kW)
FLA :Full Load Amps.(A)
SCCR :Short-Circuit Current

Notes:
1. RLA is based on the following conditions.
   Indoor temp. 80°FDB (26.7°CDB)/67°F WB (19.4°CWB)
   Outdoor temp. 95°FDB (35.0°CDB)
2. Voltage range
   Units are designed to operate only at the rated voltage provided in the table above.
3. The maximum percent unbalance of phase voltage shall be 2%.
4. Select wire size based on the value of MCA.
5. MOP is used to select the circuit breaker.
6. Refer to electrical characteristics of each independent unit for SCCR.
7. * : UL60335-2-40 calculated MOP values.

C: 3D134617C

REYQ264 - 480AAYDA

Model name		Units				Power supply		Comp.	OFM	
Combination unit	Independent unit	Hz	Volts	Min.	Max.	MCA	MOP	RLA	kW	FLA
REYQ264AAYDA	REYQ120AAYDA REYQ144AAYDA	60	460	416	508	16.6 + 21.3	20 + 25	(4.8+ 4.8) + (4.5 + 7.2)	(0.65 × 2) × 2	(1.0 × 2) × 2
REYQ288AAYDA	REYQ144AAYDA REYQ144AAYDA	60	460	416	508	21.3 + 21.3	25 + 25	(4.5 + 7.2) × 2	(0.65 × 2) × 2	(1.0 × 2) × 2
REYQ312AAYDA	REYQ144AAYDA REYQ168AAYDA	60	460	416	508	21.3 + 24.9	25 + 30 (25 + 25*)	(4.5 + 7.2) + (5.7 + 9.1)	(0.65 × 2) × 2	(1.0 × 2) × 2
REYQ336AAYDA	REYQ168AAYDA REYQ168AAYDA	60	460	416	508	24.9 + 24.9	30 + 30 (25* + 25*)	(5.7 + 9.1) × 2	(0.65 × 2) × 2	(1.0 × 2) × 2
REYQ360AAYDA	REYQ168AAYDA REYQ192AAYDA	60	460	416	508	24.9 + 28.3	30 + 35 (30* + 30*)	(5.7 + 9.1) + (7.5 + 7.6)	(0.65 × 2) + (0.95 × 2)	(1.0 × 2) + (1.5 × 2)
REYQ384AAYDA	REYQ192AAYDA REYQ192AAYDA	60	460	416	508	28.3 + 28.3	35 + 35 (30* + 30*)	(7.5 + 7.6) × 2	(0.95 × 2) × 2	(1.5 × 2) × 2
REYQ408AAYDA	REYQ192AAYDA REYQ216AAYDA	60	460	416	508	28.3 + 29.9	35 + 35 (30* + 30*)	(7.5 + 7.6) + (9.1+ 9.1)	(0.95 × 2) × 2	(1.5 × 2) × 2
REYQ432AAYDA	REYQ216AAYDA REYQ216AAYDA	60	460	416	508	29.9 + 29.9	35 + 35 (30* + 30*)	(9.1+ 9.1) × 2	(0.95 × 2) × 2	(1.5 × 2) × 2
REYQ456AAYDA	REYQ216AAYDA REYQ240AAYDA	60	460	416	508	29.9 + 33.4	35 + 40 (30* + 40*)	(9.1 + 9.1) + (11.0 + 11.1)	(0.95 × 2) × 2	(1.5 × 2) × 2
REYQ480AAYDA	REYQ240AAYDA REYQ240AAYDA	60	460	416	508	33.4 + 33.4	40 + 40	(11.0 + 11.1) × 2	(0.95 × 2) × 2	(1.5 × 2) × 2

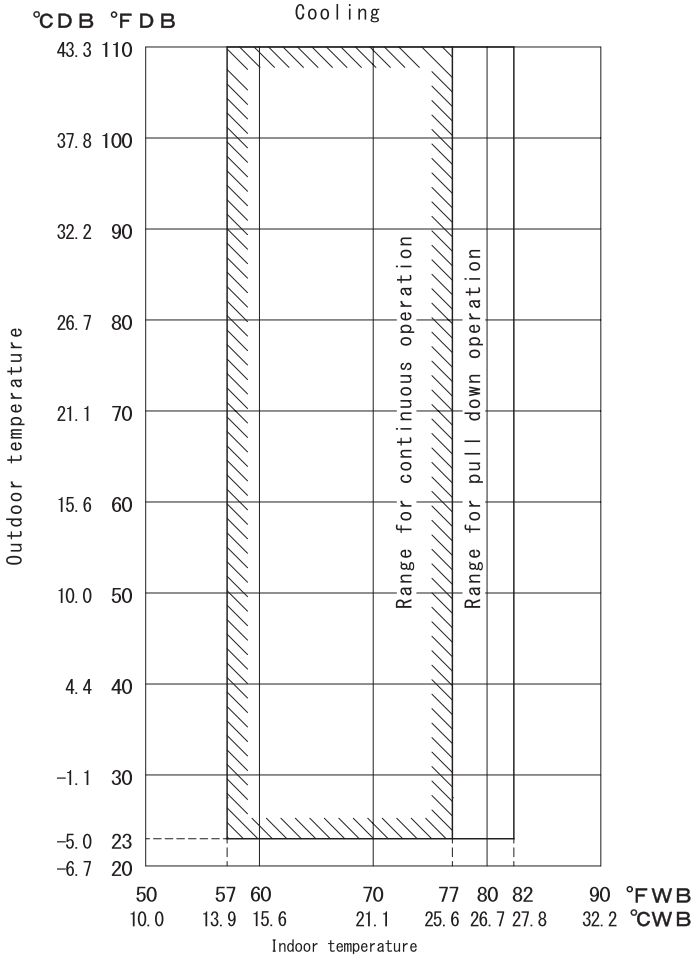
Symbols:
MCA :Min.Circuit Amps.(A)
MOP :Max.Overcurrent Protector(A)
RLA :Rated Load Amps.(A)
OFM :Outdoor Fan Motor
kW :Rated Motor Output(kW)
FLA :Full Load Amps.(A)

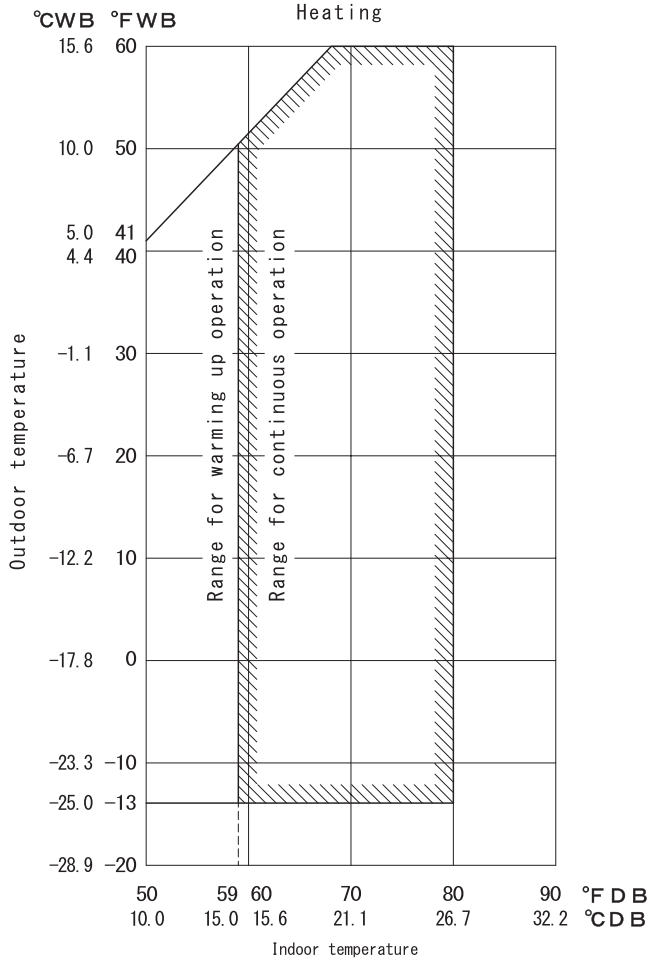
Notes:
1. RLA is based on the following conditions.
   Indoor temp. 80°FDB (26.7°CDB)/67°F WB (19.4°CWB)
   Outdoor temp. 95°FDB (35.0°CDB)
2. Voltage range
   Units are designed to operate only at the rated voltage provided in the table above.
3. The maximum percent unbalance of phase voltage shall be 2%.
4. Select wire size based on the value of MCA.
5. MOP is used to select the circuit breaker.
6. Refer to electrical characteristics of each independent unit for SCCR.
7. * : UL60335-2-40 calculated MOP values.

C: 3D134618B

17.Operation Limits

REYQ - AATJA / AAYDA



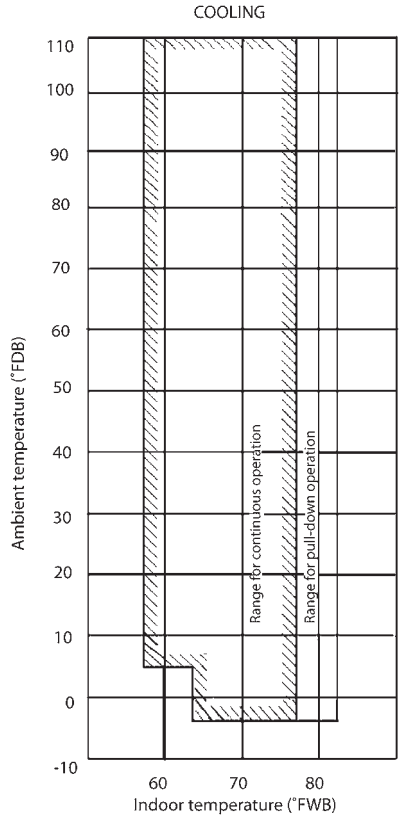


3D134600

18.Low Ambient Cooling Enhancement

REYQ72 - 456AATJA / AAYDA

- REYQ-A series include a feature for Low Ambient Cooling.
- The function enhances REYQ-A series as follows:
  - Allows operation to −4°FDB (−20°CDB) ambient temperature in cooling mode. (Normal limit is 23°FDB (−5°CDB).)
  - Operation below 23°FDB (−5°CDB) requires the addition of wind covers onto the outdoor unit.*2



Application Rules:

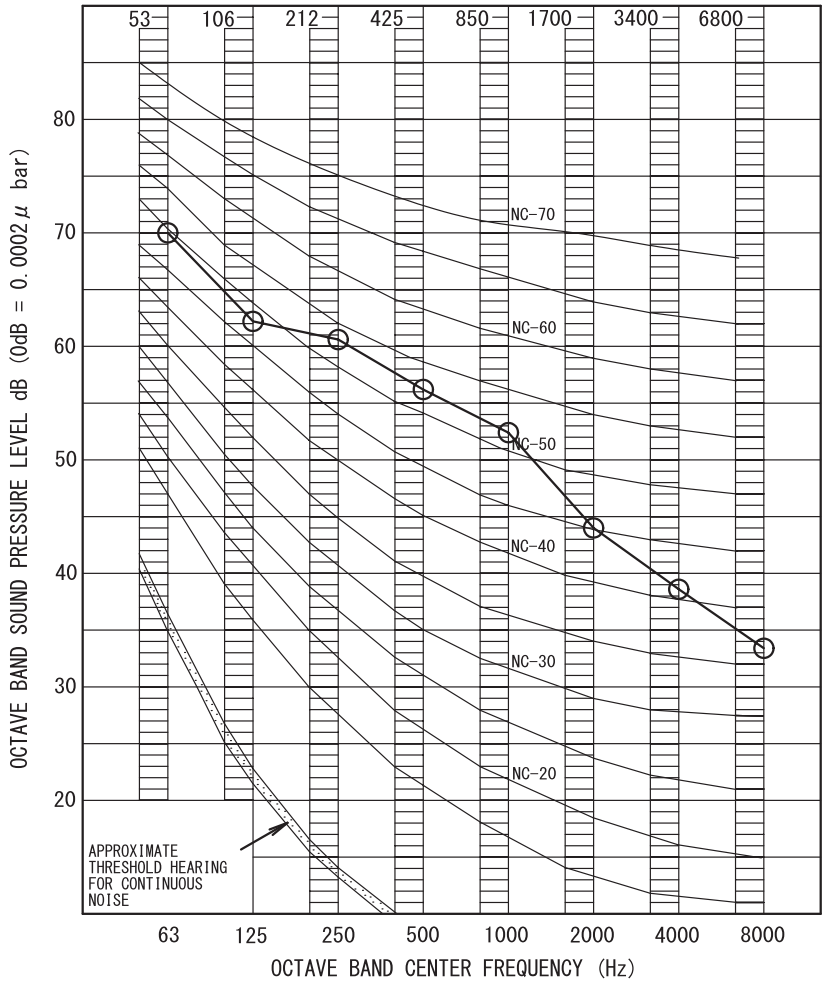
- Total connection index of each system is limited to 50-130% when height difference is 0-194 ft. (0-50 m), 80-130% when 194-295 ft. (50-90 m).
- All units on the system must be connected to a Branch Selector Box. Low Ambient Cooling is available on indoor units connected to either single-port (BSQ_T) or Flex Series (BSF_Q54T) multi-port branch selector boxes *1. Both single port and multi port boxes can be used in the same system, however indoor units connected to Standard Series (BS_Q54T) multi port branch selector boxes will operate as standard without Low Ambient Cooling functionality.
- Function is engaged by a field setting on the outdoor unit to enable Low ambient cooling.*1 A dip switch setting is necessary on the Single Branch Selector Boxes BSQ-T series serving the indoor units NOT subject to Low Ambient Cooling requirements. For Flex series (BSF_Q54T) Multi-port Branch Selector Boxes, all indoor units connected to each port are subject to Low Ambient Cooling mode if the field setting on the outdoor unit is effective.
- During operation below 23°FDB (−5°CDB), the available cooling capacity decreases as follows:
  14°FDB (−10°CDB) - Reduces to 80% of nominal.
  5°FDB (−15°CDB) - Reduces to 65% of nominal.
  −4°FDB (−20°CDB) - Reduces to 60% of nominal. *1
- While system is operating in low ambient cooling mode, Branch selector boxes supporting low ambient cooling could experience operation sound levels of up to 3 dB(A) higher than maximum. It is recommended to locate units away from zones sensitive to sound levels. *1
- The allowable height difference between outdoor and indoor units (when outdoor unit is below) is 130 ft. (40 m).
  The standard height difference limit is 164 ft. (50 m) when outdoor unit is above indoor unit (it can be extended to 361 ft. (110 m) for ***VRV*** Emerion) and 130 ft. (40 m) when outdoor unit is below indoor unit (it can be extended to 361 ft. (110 m) for ***VRV*** Emerion).
- If ambient temperature is less than the setting of Heat pump lockout temp, indoor units connected to the system cannot operate in cooling mode. In this case the system can operate only in heating mode via an auxiliary heat or secondary heat source. *3

Note:

*1. Applicable for single branch selector unit (BSQ-T) and Flex branch selector unit (BSF-Q54T). (Standard multi port branch selector unit (BS-Q54T) is not applicable)
*2. Contact your local Daikin representative for wind cover specification requirements and part numbers.
*3. The heat pump lockout function is not activated by default. Refer to the installation or service manual for more details about this function.

19.Sound Levels (Reference Data)

REYQ72AATJA / AAYDA



OVER ALL (dB)

SCALE	60Hz
A	58

(B.G.N IS ALREADY RECTIFIED)

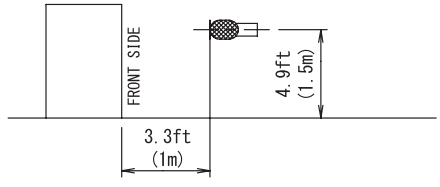
OPERATING CONDITIONS

POWER SOURCE	208/230V	60Hz
	460V	60Hz

MEASURING PLACE

ANECHOIC CHAMBER (CONVERSION VALUE)

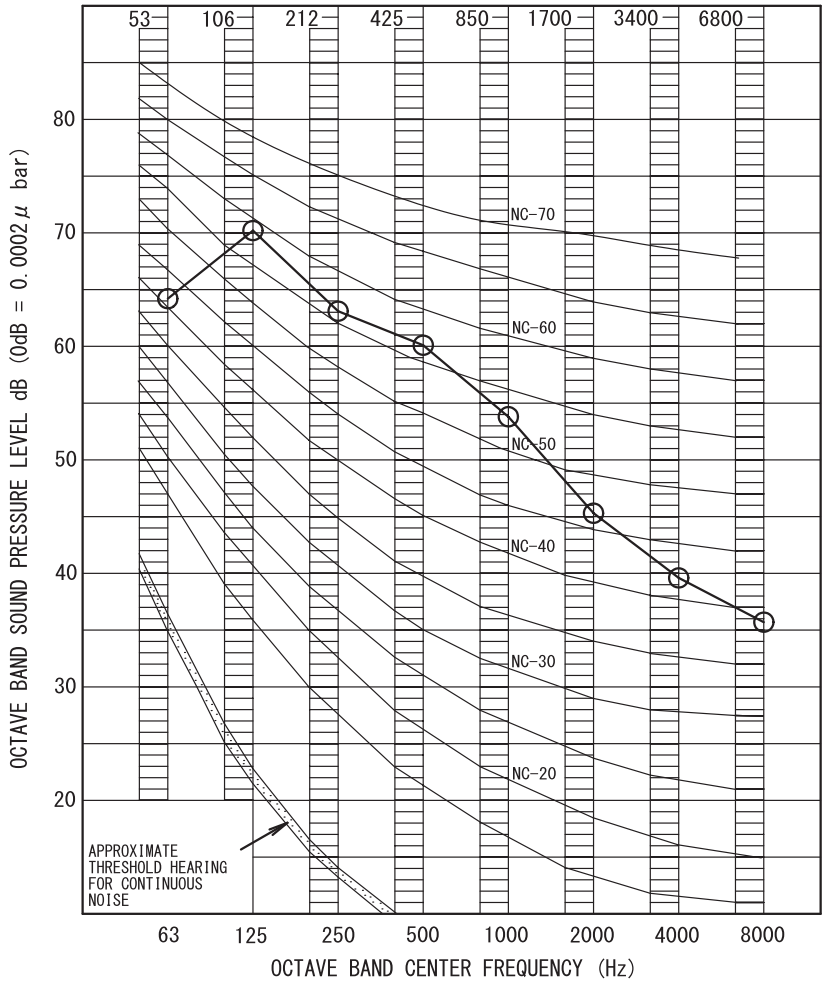
LOCATION OF MICROPHONE



NOTE : 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.

4D135796B

REYQ96AATJA / AAYDA



OVER ALL (dB)

SCALE	60Hz
A	61

(B.G.N IS ALREADY RECTIFIED)

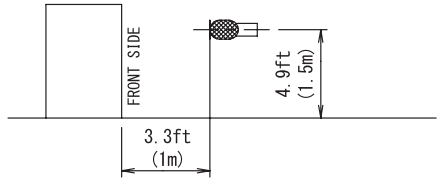
OPERATING CONDITIONS

POWER SOURCE	208/230V	60Hz
	460V	60Hz

MEASURING PLACE

ANECHOIC CHAMBER (CONVERSION VALUE)

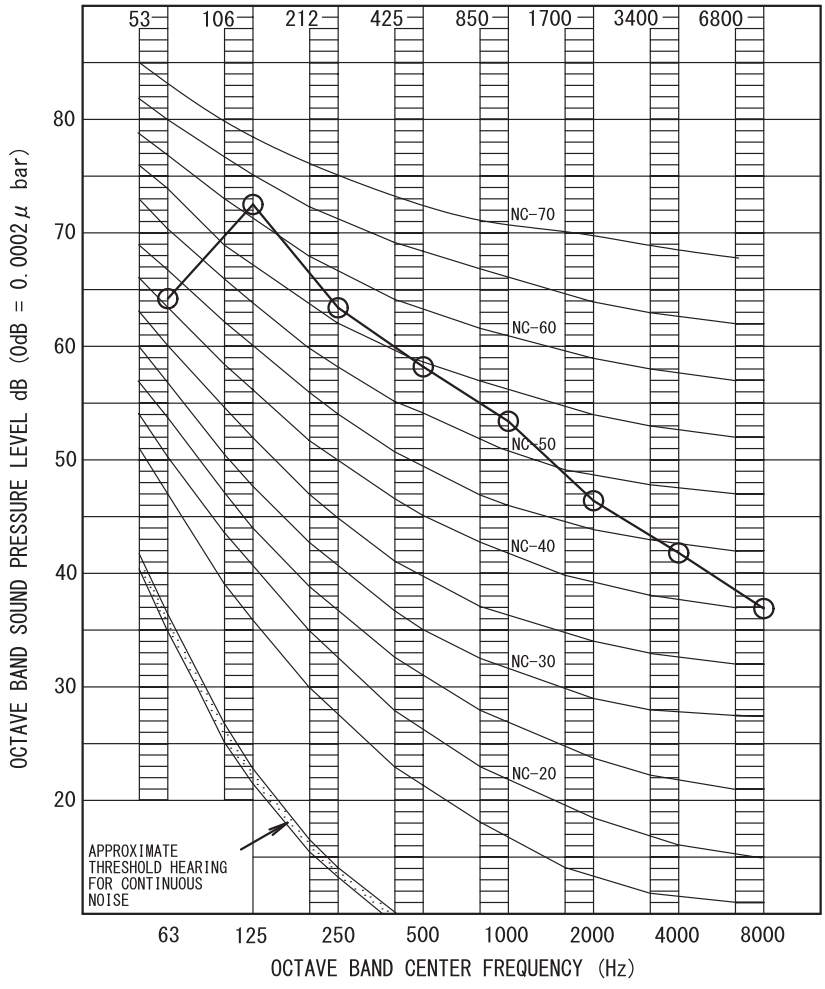
LOCATION OF MICROPHONE



NOTE : 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.

4D135797B

REYQ120AATJA / AAYDA



OVER ALL (dB)

SCALE	60Hz
A	61

(B.G.N IS ALREADY RECTIFIED)

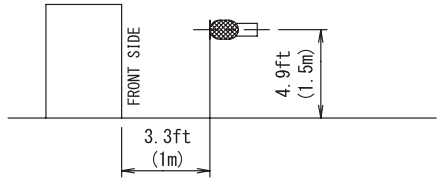
OPERATING CONDITIONS

POWER SOURCE	208/230V	60Hz
	460V	60Hz

MEASURING PLACE

ANECHOIC CHAMBER (CONVERSION VALUE)

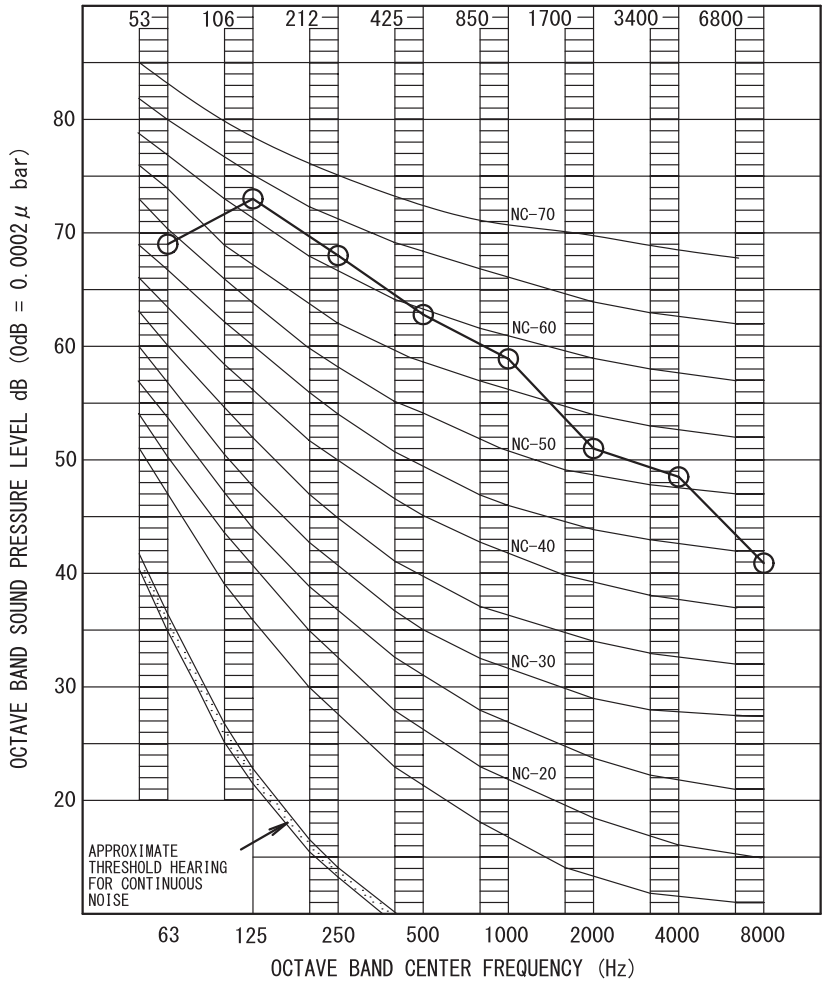
LOCATION OF MICROPHONE



NOTE : 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.

4D135798B

REYQ144AATJA / AAYDA



OVER ALL (dB)

SCALE	60Hz
A	65

(B.G.N IS ALREADY RECTIFIED)

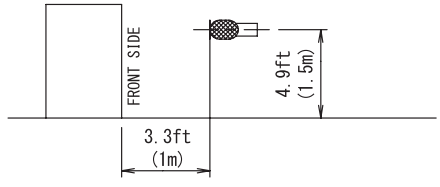
OPERATING CONDITIONS

POWER SOURCE	208/230V	60Hz
	460V	60Hz

MEASURING PLACE

ANECHOIC CHAMBER (CONVERSION VALUE)

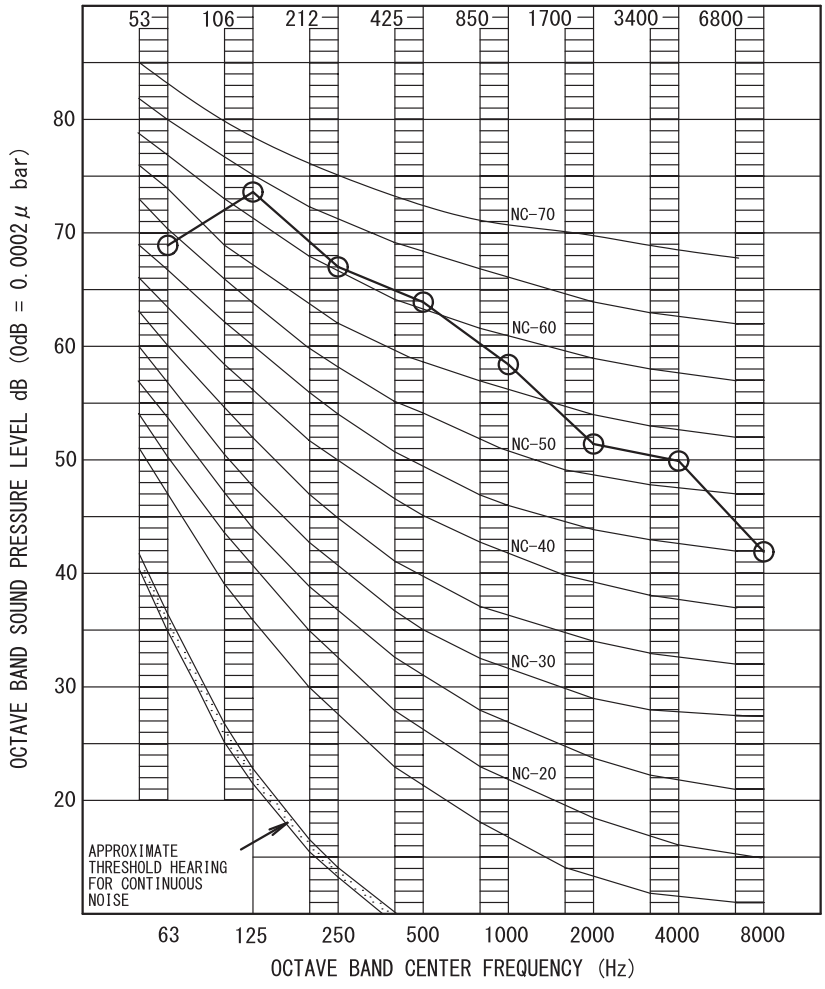
LOCATION OF MICROPHONE



NOTE : 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.

4D135799B

REYQ168AATJA / AAYDA



OVER ALL (dB)

SCALE	60Hz
A	65

(B.G.N IS ALREADY RECTIFIED)

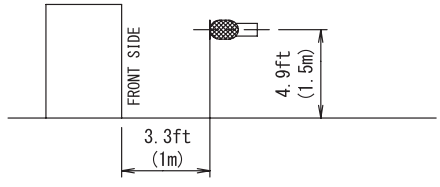
OPERATING CONDITIONS

POWER SOURCE	208/230V	60Hz
	460V	60Hz

MEASURING PLACE

ANECHOIC CHAMBER (CONVERSION VALUE)

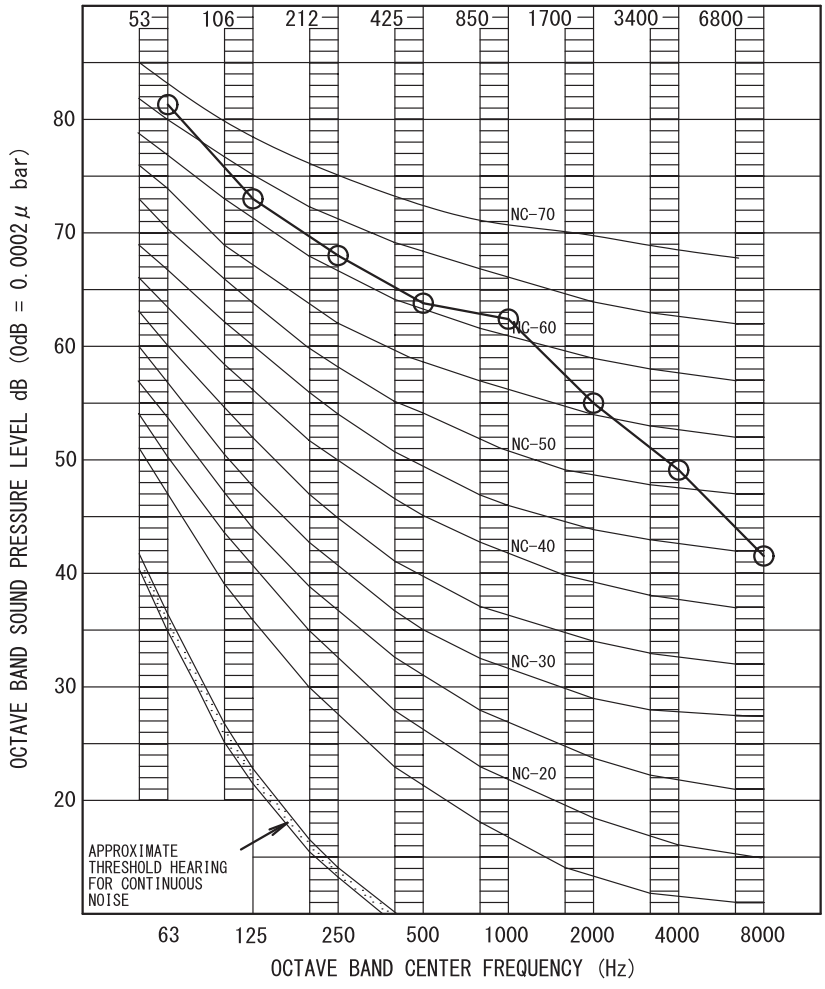
LOCATION OF MICROPHONE



NOTE : 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.

4D135800B

REYQ192AATJA / AAYDA



OVER ALL (dB)

SCALE	60Hz
A	67

(B.G.N IS ALREADY RECTIFIED)

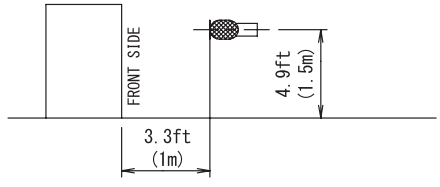
OPERATING CONDITIONS

POWER SOURCE	208/230V	60Hz
	460V	60Hz

MEASURING PLACE

ANECHOIC CHAMBER (CONVERSION VALUE)

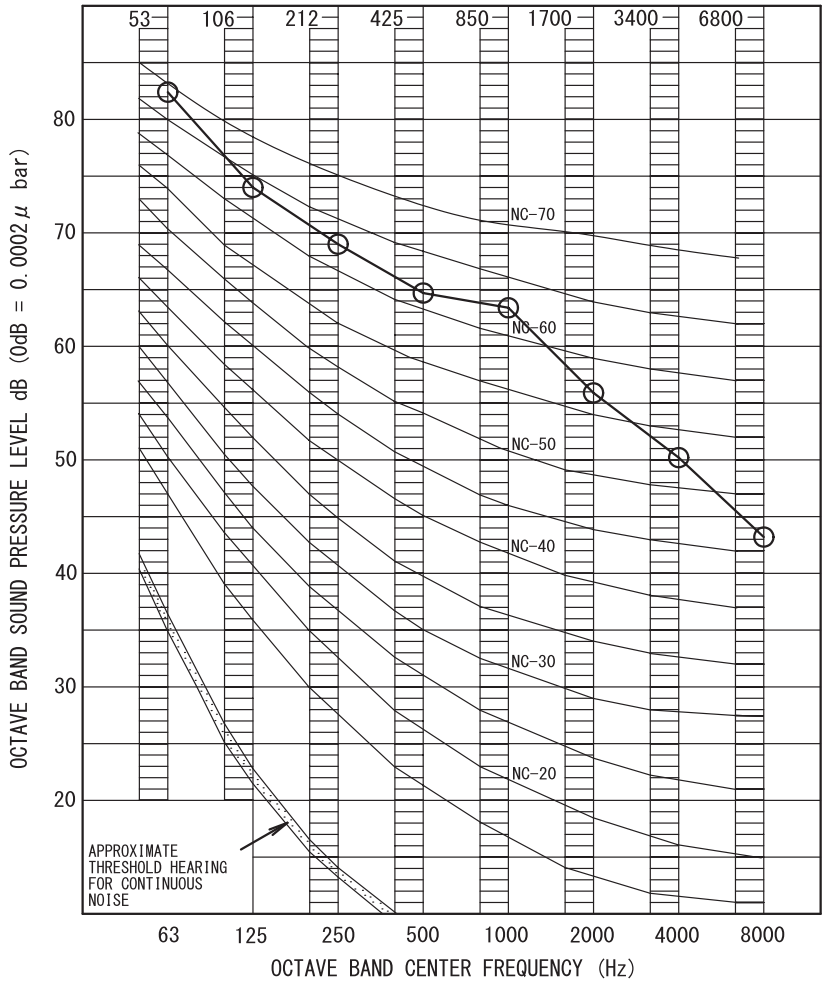
LOCATION OF MICROPHONE



NOTE : 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.

4D135801B

REYQ216AATJA / AAYDA



OVER ALL (dB)

SCALE	60Hz
A	68

(B.G.N IS ALREADY RECTIFIED)

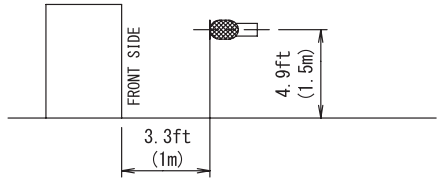
OPERATING CONDITIONS

POWER SOURCE	208/230V	60Hz
	460V	60Hz

MEASURING PLACE

ANECHOIC CHAMBER (CONVERSION VALUE)

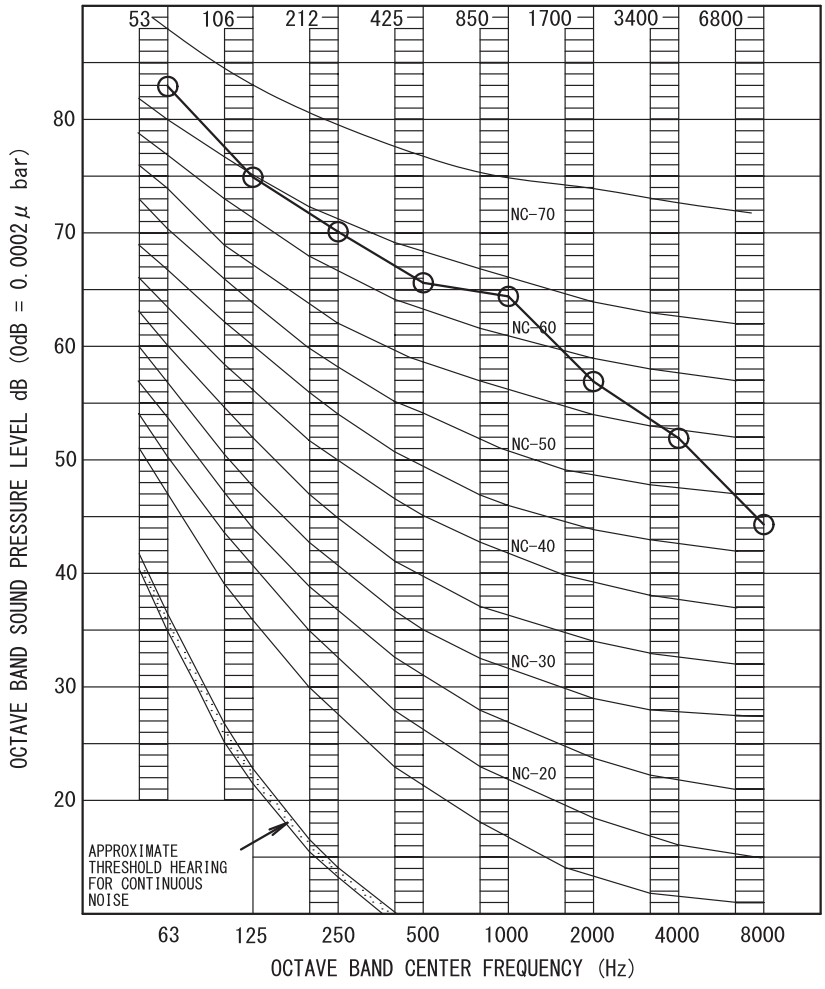
LOCATION OF MICROPHONE



NOTE : 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.

4D135802B

REYQ240AATJA / AAYDA



OVER ALL (dB)

SCALE	60Hz
A	69

(B.G.N IS ALREADY RECTIFIED)

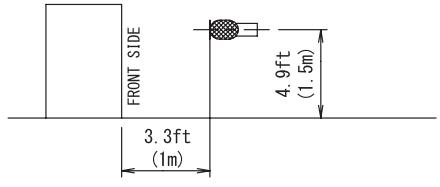
OPERATING CONDITIONS

POWER SOURCE	208/230V	60Hz
	460V	60Hz

MEASURING PLACE

ANECHOIC CHAMBER (CONVERSION VALUE)

LOCATION OF MICROPHONE



NOTE : 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.

4D135803B

20.Accessories

20.1 Optional Accessories

REYQ - AATJA / AAYDA

Outdoor unit capacity type	Outdoor unit multi connection piping kit and reducer piping kit	REFNET joint kit at the first branch from the outdoor units
REYQ72, 96A type	-	KHRP25A33T9 KHRP25A33TA
REYQ120-216A type		KHRP25M72TU9 KHRP25M72TUA
REYQ240A type		KHRP25M73TU9 KHRP25M73TUA
REYQ264-480A type	BHFP26P100U BHFP26P100UA + KHFP26P100UA *2	

Indoor unit capacity index	REFNET header kit *1		REFNET joint kit *1	
	(for 3 pipes)	(for 2 pipes)	(for 3 pipes)	(for 2 pipes)
<72	KHRP25M33H9 KHRP25M33HA	KHRP26M22H9 KHRP26M22HA (Max. 4 branch)	KHRP25A22T9 KHRP25A22TA	KHRP26A22T9 KHRP26A22TA
		KHRP26M33H9 KHRP26M33HA (Max. 8 branch)		
72≤×<111		KHRP26M33H9 KHRP26M33HA	KHRP25A33T9 KHRP25A33TA	KHRP26A33T9 KHRP26A33TA
111≤×<230	KHRP25M72H9 KHRP25M72HA	KHRP26M72H9 KHRP26M72HA	KHRP25M72TU9 KHRP25M72TUA	KHRP26M72TU9 KHRP26M72TUA
230≤×<246	KHRP25M73HU9 KHRP25M73HUA	KHRP26M73HU9 KHRP26M73HUA		
≥246			KHRP25M73TU9 KHRP25M73TUA	KHRP26M73TU9 KHRP26M73TUA

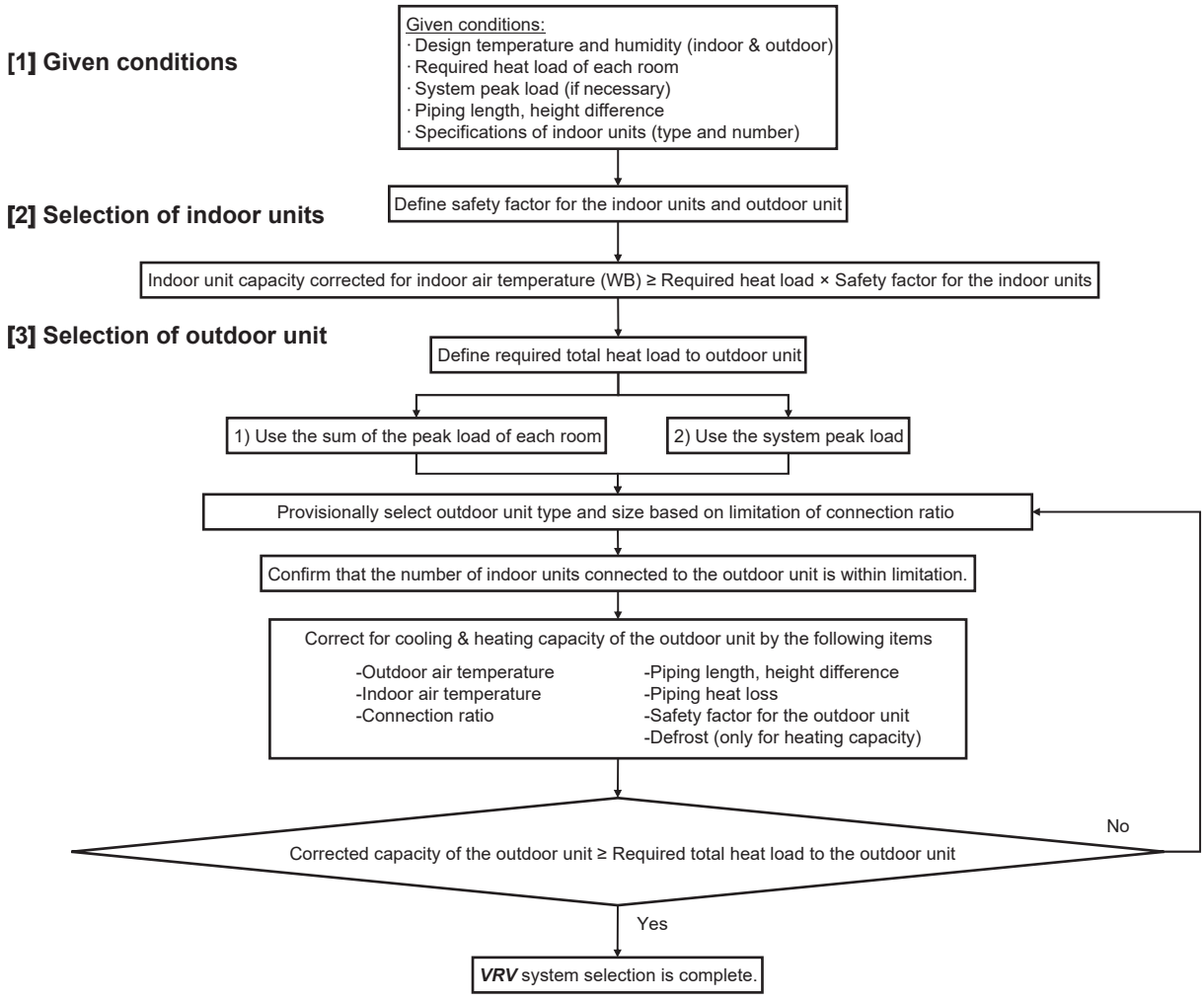
*1. For REFNET joints and REFNET headers, select the proper branch kit model based on the total capacity of all indoor units connected after the refrigerant branch.
*2. This reducer pipe kit is required for REYQ264-480A models.

C: 3D136984

21.Selection Procedure

21.1 Selection Procedure

21.1.1 Flowchart



21.1.2 Selection Example

The following is a selection example based on total heat load for cooling.

<table>
<tr><td rowspan="2">Room A</td><td>Room H</td><td>Room G</td><td rowspan="2">Room F</td></tr>
<tr><td colspan="2"></td></tr>
<tr><td rowspan="2">Room B</td><td colspan="2"></td><td rowspan="2">Room E</td></tr>
<tr><td>Room C</td><td>Room D</td></tr>
</table>

Floor plan

[1] Given conditions

-Design conditions

Indoor air temperature: 67°FWB / 80°FDB, Outdoor air temperature: 93°FDB

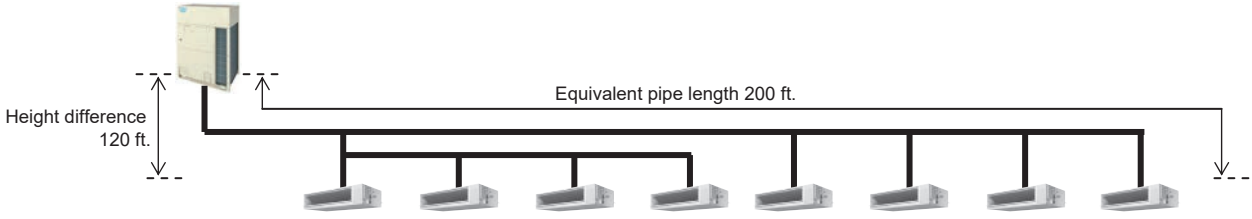
-Determine peak load of each room (and system peak load if necessary)

-Required heat load of each room

Time	Room A	Room B	Room C	Room D	Room E	Room F	Room G	Room H	Total
9:00	16.4	16.5	10.4	10.4	**30.9**	**30.8**	10.0	10.0	135.4
12:00	22.4	24.4	**17.3**	**17.3**	25.1	23.2	13.7	13.7	157.1
14:00	30.7	32.2	16.8	16.8	24.9	23.4	**14.1**	**14.1**	**173.0**
16:00	**36.1**	**36.4**	13.3	13.3	21.5	21.2	13.0	13.0	167.8

Total heat load (MBH)

From the above heat load calculation, the maximum heat load for the system (system peak load) is 173.0 MBH.



Select ***VRV*** indoor units FXMQ-PB series for each room.

-Safety factor

In this example, safety factor is not used. (i. e., safety factor = 1.0)

[2] Selection of indoor units

Calculate total heat capacity of indoor units corrected for indoor air temperature.

In case design temperature of the indoor air falls between temperatures listed in the table, calculate the capacity by interpolation.

The corrected total heat capacity of indoor units shall satisfy the maximum heat load of each room.

Capacity table of indoor unit
Cooling Capacity

Model	Capacity indication	Indoor air temp.°FWB (Te: 43°F (6°C))											
		61		64		67		70		72		75	
		TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC
		MBH	MBH	MBH	MBH	MBH	MBH	MBH	MBH	MBH	MBH	MBH	MBH
FXMQ07PBVJU	07	5.7	5.5	6.4	5.9	7.2	6.1	7.3	6.5	7.4	5.8	7.6	5.8
FXMQ09PBVJU	09	7.5	6.9	8.5	7.3	9.5	7.8	9.7	8.1	9.8	7.1	10.0	7.2
FXMQ12PBVJU	12	9.5	8.5	10.7	9.1	12.0	9.7	12.2	10.0	12.4	9.2	12.6	9.2
FXMQ15PBVJU	15	11.2	10.2	12.7	10.7	14.2	11.4	14.5	11.6	14.7	11.5	14.9	9.6
FXMQ18PBVJU	18	14.2	13.9	16.1	14.7	18.0	15.6	18.4	16.1	18.6	14.6	18.9	12.1
FXMQ24PBVJU	24	19.0	16.5	21.5	17.7	24.0	18.8	24.5	19.2	24.8	17.9	25.3	20.1
FXMQ30PBVJU	30	23.7	20.8	26.8	22.3	30.0	23.8	30.6	24.4	31.0	22.5	31.6	22.5
FXMQ36PBVJU	36	28.4	25.0	32.2	26.9	36.0	28.8	36.7	30.0	37.2	27.7	37.9	27.7
FXMQ48PBVJU	48	37.9	31.3	43.0	33.6	48.0	35.8	49.0	36.9	49.6	34.7	50.5	33.2
FXMQ54PBVJU	54	42.6	35.2	48.3	37.8	54.0	40.3	55.1	41.5	55.8	39.0	56.8	37.4

TC: Total capacity: MBH
SHC: Sensible heat capacity: MBH

Selection results of indoor units

	Room A	Room B	Room C	Room D	Room E	Room F	Room G	Room H
Max. heat load (MBH)	36.1	36.4	17.3	17.3	30.9	30.8	14.1	14.1
Selected IDU	FXMQ48PBVJU	FXMQ48PBVJU	FXMQ18PBVJU	FXMQ18PBVJU	FXMQ36PBVJU	FXMQ36PBVJU	FXMQ15PBVJU	FXMQ15PBVJU
Corrected TC (MBH)	48.0	48.0	18.0	18.0	36.0	36.0	14.2	14.2

* In case of selection based on Total Heat Load and Sensible Heat Load, select indoor units which satisfy not only the Total Heat Load but also the Sensible Heat Load of each room. The sensible heat capacity of indoor units is to be corrected for indoor air temperature. If the design temperature of indoor air falls between temperatures listed in table, calculate sensible heat capacity by using the bypass factor calculated by interpolation for each indoor air temperature.

[3] Selection of outdoor unit

[3] –1 Define the required total heat load from the indoor units to the outdoor unit

Define the required total heat load (A) based on (1) the sum of the peak load of each room or (2) the system peak load.
In this example, select an outdoor unit by (2).
Therefore, (A) = 173.0 MBH

[3] –2 Provisionally select outdoor unit

(1) Calculate CI (Capacity Index) of the selected indoor units.

CI of ***VRV*** indoor units

CI of FXMQ15PBVJU = 15
CI of FXMQ18PBVJU = 18
CI of FXMQ36PBVJU = 36
CI of FXMQ48PBVJU = 48

Capacity Range		0.5 ton	0.6 ton	0.8 ton	1 ton	1.25 ton	1.5 ton		2 ton	2.5 ton	3 ton	3.5 ton	4 ton	4.5 ton	5 ton	6 ton	8 ton	Power Supply, Standard
Capacity Index		5.8	7.5	9.5	12	15	18	20	24	30	36	42	48	54	60	72	96	
Ceiling Mounted Duct Type (Middle and High Static Pressure)	FXMQ	—	07PB	09PB	12PB	15PB	18PB	—	24PB	30PB	36PB	—	48PB	54PB	—	—	—	VJU

Calculate the total CI of the indoor units.
Total CI = 15 × 2 + 18 × 2 + 36 × 2 + 48 × 2 = 234

(2) Provisionally select an outdoor unit based on the total CI of the indoor units

The connection ratio of REYQ-AA shall be between 50% and 130%.
As the total CI of the indoor units is 234, outdoor units from 16 ton to 38 ton are connectable.
Start from 16 ton which is the smallest outdoor unit.

Type	Ton	Capacity index	Model name	Total capacity index of connectable indoor units *1	Maximum number of connectable indoor units
Single outdoor unit	6	72	REYQ72AATJA REYQ72AAYDA	36 to 93 (144)	12
	8	96	REYQ96AATJA REYQ96AAYDA	48 to 124 (192)	16
	10	120	REYQ120AATJA REYQ120AAYDA	60 to 156 (240)	20
	12	144	REYQ144AATJA REYQ144AAYDA	72 to 187 (288)	25
	14	168	REYQ168AATJA REYQ168AAYDA	84 to 218 (336)	29
	16	192	REYQ192AATJA REYQ192AAYDA	96 to 249 (384)	33
	18	216	REYQ216AATJA REYQ216AAYDA	108 to 280 (432)	37
	20	240	REYQ240AATJA REYQ240AAYDA	120 to 312 (480)	41
Double outdoor units	22	264	REYQ264AATJA REYQ264AAYDA	132 to 343 (528)	45
	24	288	REYQ288AATJA REYQ288AAYDA	144 to 374 (576)	49
	26	312	REYQ312AATJA REYQ312AAYDA	156 to 405 (624)	54
	28	336	REYQ336AATJA REYQ336AAYDA	168 to 436 (672)	58
	30	360	REYQ360AATJA REYQ360AAYDA	180 to 468 (720)	62
	32	384	REYQ384AATJA REYQ384AAYDA	192 to 499 (768)	64
	34	408	REYQ408AATJA REYQ408AAYDA	204 to 530 (816)	64
	36	432	REYQ432AATJA REYQ432AAYDA	216 to 561 (864)	64
	38	456	REYQ456AATJA REYQ456AAYDA	228 to 592 (912)	64
	40	480	REYQ480AATJA REYQ480AAYDA	240 to 624 (960)	64

(3) Confirm that the number of the connected indoor units is within the limitation.

The number of the connected indoor units = 8
The max. number of connectable indoor units of 16 ton outdoor unit = 33

[3] –3 Calculate the corrected capacity of the outdoor unit.

-Calculate the connection ratio of the system.

Total CI = 234, CI of REYQ192AAYDA = 192

Connection ratio = 234 / 192 = 122%

-Using the capacity table of the outdoor unit, calculate the capacity (B) corrected for outdoor air temperature, indoor air temperature, and connection ratio.

* In case the outdoor air temperature, the indoor air temperature, or the connection ratio falls between temperatures listed in the table, calculate the capacity by interpolation.

REYQ192AATJA /AAYDA Cooling Capacity for Standard Condition (Te: 43°F)

Connection ratio	Outdoor air temp.	Indoor air temp. (°FWB)													
		57		61		64		67		70		72		75	
		TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
%	°FDB	MBH	kW	MBH	kW	MBH	kW	MBH	kW	MBH	kW	MBH	kW	MBH	kW
130	23	146	5.40	188	7.10	219	8.46	250	9.86	271	10.9	275	10.9	281	11.0
	30	146	5.56	188	7.33	219	8.74	250	10.2	265	11.0	269	11.1	275	11.2
	40	146	5.82	188	7.69	219	9.17	250	11.1	256	11.2	260	11.3	266	11.4
	50	146	6.10	188	8.08	219	9.85	242	11.4	248	11.5	251	11.5	257	11.6
	54	146	6.23	188	8.25	219	10.2	238	11.4	244	11.5	248	11.6	254	11.7
	58	146	6.35	188	8.43	219	10.5	235	11.5	241	11.6	245	11.7	250	11.8
	62	146	6.49	188	8.69	219	10.9	231	11.6	237	11.7	241	11.8	247	11.9
	66	146	6.63	188	8.99	219	11.3	228	11.7	234	11.8	238	11.9	243	12.0
	70	146	6.77	188	9.46	219	11.9	224	12.0	230	12.1	234	12.2	240	12.3
	72	146	6.94	188	9.83	217	12.2	223	12.3	229	12.4	232	12.5	238	12.6
	75	146	7.34	188	10.4	214	12.6	220	12.7	226	12.9	230	12.9	236	13.1
	79	146	7.89	188	11.2	211	13.2	217	13.4	222	13.5	226	13.6	232	13.7
	83	146	8.47	188	12.1	207	13.8	213	14.0	219	14.1	223	14.2	229	14.3
	87	146	9.09	188	13.0	204	14.4	210	14.6	216	14.7	219	14.8	225	15.0
	91	146	9.75	188	14.0	200	15.0	206	15.2	212	15.4	216	15.5	217	15.5
	93	146	10.1	188	14.5	199	15.3	205	15.5	210	15.7	212	15.7	212	15.7
	95	146	10.4	188	15.0	197	15.7	203	15.8	208	16.0	208	16.0	208	16.0
	99	146	11.2	188	16.1	194	16.3	199	16.4	199	16.5	200	16.5	200	16.5
	103	146	12.0	184	16.7	190	16.9	191	16.9	191	16.9	191	16.9	191	16.9
	106	146	12.8	182	17.4	184	17.5	185	17.5	185	17.5	185	17.5	185	17.5
	110	146	13.9	176	18.2	176	18.3	176	18.3	176	18.3	176	18.3	176	18.3
	115	142	14.7	142	14.8	142	14.9	143	14.9	143	15.0	143	15.0	143	15.0
	118	121	12.6	122	12.7	122	12.7	122	12.8	123	12.8	123	12.9	123	12.9
	122	94.5	9.82	94.9	9.88	95.2	9.92	95.5	9.96	95.9	10.0	96.1	10.0	96.4	10.1
120	23	135	4.96	173	6.49	202	7.71	230	8.98	259	10.3	271	10.9	276	11.0
	30	135	5.11	173	6.70	202	7.96	230	9.28	259	10.8	264	11.0	270	11.1
	40	135	5.34	173	7.02	202	8.36	230	9.82	252	11.2	256	11.2	261	11.3
	50	135	5.59	173	7.37	202	8.79	230	10.6	244	11.4	247	11.4	252	11.5
	54	135	5.70	173	7.53	202	9.04	230	11.0	240	11.5	244	11.5	249	11.6
	58	135	5.82	173	7.68	202	9.34	230	11.4	237	11.6	240	11.6	246	11.7
	62	135	5.94	173	7.85	202	9.66	228	11.5	233	11.6	237	11.7	242	11.8
	66	135	6.06	173	8.02	202	9.99	224	11.6	230	11.7	233	11.8	239	11.9
	70	135	6.19	173	8.43	202	10.5	221	11.9	226	12.0	230	12.1	235	12.2
	72	135	6.26	173	8.76	202	10.9	219	12.2	224	12.3	228	12.4	233	12.5
	75	135	6.59	173	9.27	202	11.6	217	12.7	222	12.8	225	12.9	231	13.0
	79	135	7.09	173	9.99	202	12.5	213	13.3	218	13.4	222	13.5	227	13.6
	83	135	7.60	173	10.7	202	13.5	210	13.9	215	14.0	219	14.1	224	14.2
	87	135	8.15	173	11.5	201	14.3	206	14.5	211	14.6	215	14.7	220	14.9
	91	135	8.73	173	12.4	197	15.0	203	15.1	208	15.2	212	15.3	217	15.5
	93	135	9.04	173	12.8	196	15.3	201	15.4	206	15.6	210	15.7	212	15.7
	95	135	9.35	173	13.3	194	15.6	199	15.7	205	15.9	208	16.0	208	16.0
	99	135	10.0	173	14.3	190	16.2	196	16.3	199	16.5	200	16.5	200	16.5
	103	135	10.7	173	15.3	187	16.8	191	16.9	191	16.9	191	16.9	191	16.9
	106	135	11.4	173	16.3	184	17.5	185	17.5	185	17.5	185	17.5	185	17.5
	110	135	12.4	173	17.9	176	18.3	176	18.3	176	18.3	176	18.3	176	18.3
	115	135	13.8	142	14.8	142	14.9	143	14.9	143	15.0	143	15.0	143	15.0
	118	121	12.6	122	12.7	122	12.7	122	12.8	123	12.8	123	12.9	123	12.9
	122	94.5	9.82	94.9	9.88	95.2	9.92	95.5	9.96	95.9	10.0	96.1	10.0	96.4	10.1

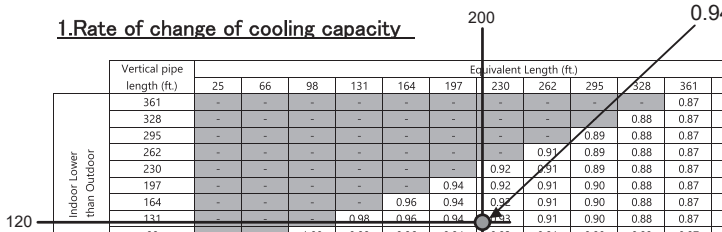
Connection ratio	120%	122%	130%
Cooling capacity	201	(B)	205

(B) = 201 + (205 – 201) × (122 – 120) / (130 – 120) = 201.8

-Confirm capacity correction factor by piping length and level difference (K1)

(K1) = 0.94

1.Rate of change of cooling capacity



	Vertical pipe length (ft.)	Equivalent Length (ft.)													
		25	66	98	131	164	197	230	262	295	328	361	394	427	460
Indoor Lower than Outdoor	361	-	-	-	-	-	-	-	-	-	-	0.87	0.86	0.85	0.84
	328	-	-	-	-	-	-	-	-	-	0.88	0.87	0.86	0.85	0.84
	295	-	-	-	-	-	-	-	-	0.89	0.88	0.87	0.86	0.85	0.84
	262	-	-	-	-	-	-	-	0.91	0.89	0.88	0.87	0.86	0.85	0.84
	230	-	-	-	-	-	-	0.92	0.91	0.89	0.88	0.87	0.86	0.85	0.84
	197	-	-	-	-	-	0.94	0.92	0.91	0.90	0.88	0.87	0.86	0.85	0.84
	164	-	-	-	-	0.96	0.94	0.92	0.91	0.90	0.88	0.87	0.86	0.85	0.84
	131	-	-	-	0.98	0.96	0.94	0.93	0.91	0.90	0.88	0.87	0.86	0.85	0.84
	98	-	-	1.00	0.98	0.96	0.94	0.93	0.91	0.90	0.89	0.87	0.86	0.85	0.84
	66	-	1.00	1.00	0.98	0.96	0.94	0.93	0.91	0.90	0.89	0.87	0.86	0.85	0.84
	25	1.00	1.00	1.00	0.98	0.96	0.95	0.93	0.92	0.90	0.89	0.88	0.86	0.85	0.84
FL±	0	1.00	1.00	1.00	0.98	0.96	0.95	0.93	0.92	0.90	0.89	0.88	0.87	0.85	0.85
Indoor Higher than Outdoor	25	1.00	1.00	1.00	0.98	0.97	0.95	0.93	0.92	0.90	0.89	0.88	0.87	0.86	0.85
	66	-	1.00	1.00	0.99	0.97	0.95	0.93	0.92	0.90	0.89	0.88	0.87	0.86	0.85
	98	-	-	1.00	0.99	0.97	0.95	0.94	0.92	0.91	0.89	0.88	0.87	0.86	0.85
	131	-	-	-	0.99	0.97	0.95	0.94	0.92	0.91	0.89	0.88	0.87	0.86	0.85
	164	-	-	-	-	0.97	0.96	0.94	0.92	0.91	0.89	0.88	0.87	0.86	0.85
	197	-	-	-	-	-	0.96	0.94	0.92	0.91	0.90	0.88	0.87	0.86	0.85
	230	-	-	-	-	-	-	0.94	0.93	0.91	0.90	0.88	0.87	0.86	0.85
	262	-	-	-	-	-	-	-	0.93	0.91	0.90	0.89	0.87	0.86	0.85
	295	-	-	-	-	-	-	-	-	0.91	0.90	0.89	0.87	0.86	0.85
	328	-	-	-	-	-	-	-	-	-	0.90	0.89	0.88	0.86	0.85
	361	-	-	-	-	-	-	-	-	-	-	0.89	0.88	0.87	0.85

-Calculate capacity correction factor by piping heat loss (K2)

(K2) = 1 + (heat loss factor per feet of piping × (equivalent piping length – 25 ft.)) / 100

In cooling mode, heat loss factor per feet at 93°F is calculated as below.

(R) Heat loss factor per feet = $0.072^{*2} + (0.098^{*1} - 0.072^{*2}) \times (93^{*3} - 86^{*4}) / (95^{*5} - 86^{*4})$ = 0.0922

Using “Equivalent piping length = 200 ft” and “Heat loss factor per feet = 0.0922”,

(K2) = 1 + (0.0922 × (200 – 25)) / 100 = 1.161

Cooling	Ambient temperature								
Heat loss factor per feet of piping (%)	41°F	50°F	59°F	68°F	77°F	86°F*4	93°F*3	95°F*5	104°F
	0.000	0.000	0.013	0.030	0.046	0.072*2	(R)	0.098*1	0.125

Heating	Ambient temperature							
Heat loss factor per feet of piping (%)	5°F	14°F	23°F	32°F	41°F	50°F	59°F	68°F
	0.328	0.305	0.282	0.256	0.233	0.210	0.187	0.161

-Calculate the corrected capacity of REYQ192AAYDA (C) by using (K1) and (K2).

Corrected capacity of REYQ192AAYDA (C) = (B) × (K1) / (K2) (add defrost correction factor for heating capacity)

Therefore (C) = 204.25 × 0.94 / 1.161 = 165.5 MBH

If the corrected capacity (C) is the same or greater than the required total heat load (A), selection is complete.

If (C) < (A), return to Procedure [3]–2 and provisionally select a larger outdoor unit.

In this example, 165.5 MBH (C) < 173.0 MBH (A), so need to select a larger outdoor unit.

The capacity of REYQ216AAYDA at the same condition is 177.54 MBH, which is more than the heat load (A): 173.0 MBH.

So the selection is complete.

22.Caution Label

22.1 Cautions on Service

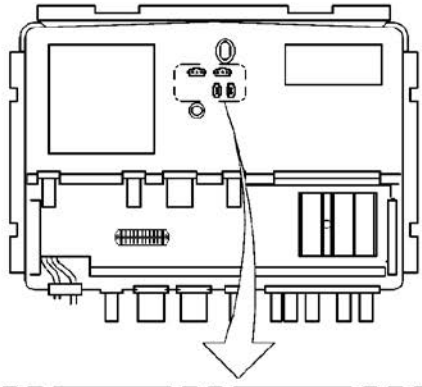
REYQ - AATJA / AAYDA

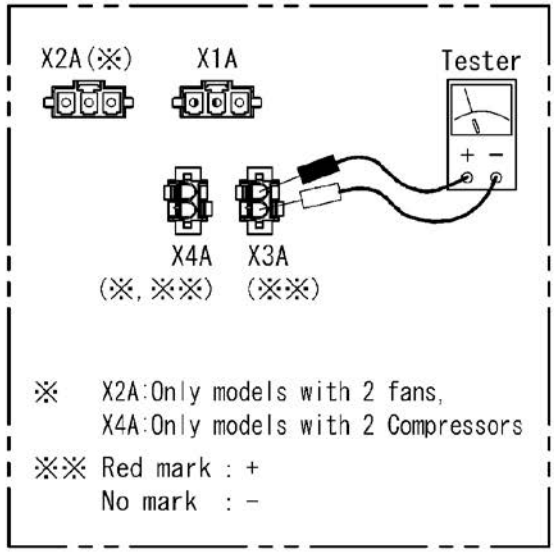
Service Precautions (Touch the non-coating metal part(Ex. the EL. COMPO. BOX cover) to eliminate static electricity before performing service.) After finish service, make sure to close service cover. (water soaking and foreign object may cause failure)

Caution when performing service inside the EL. COMPO. BOX

⚠ WARNING | ⚠ Caution to ELECTRIC SHOCK

1. Make sure to turn off power supply before remove the EL. COMPO. BOX cover. (Touching electric parts may cause electric shock.)
2. Do not open the EL. COMPO. BOX cover for 10 minutes after the power supply is turned off.
3. Measure the voltage between terminals on the terminal block for power supply with a tester and confirm that the power supply is turned off. In addition, for models that have connector for residual voltage check (X3A, X4A), measure the points shown in the right figure with a tester and confirm that voltage of the capacitor in the main circuit is less than DC50V.
4. To prevent a damage of the PC board touch the non-coating metal part and make sure to eliminate static electricity before pulling out or plugging in the connector.
5. The work must be started after pulling out the junction connector X1A, X2A for the fan motor in the outdoor unit and be careful not to touch the live parts. (If the fan rotates by strong wind, it may cause storage of electricity in the capacitor in the main circuit and electric shock.)
6. After the service is finished, plug in the junction connector.





・For details, see the wiring diagram labeled on the back of the EL. COMPO. BOX cover.
・Otherwise, error code "E7" will be displayed on 7 segment display of outdoor unit PC board (A1P) and in the remote controller due to wrong connection, and normal operation will not be performed.

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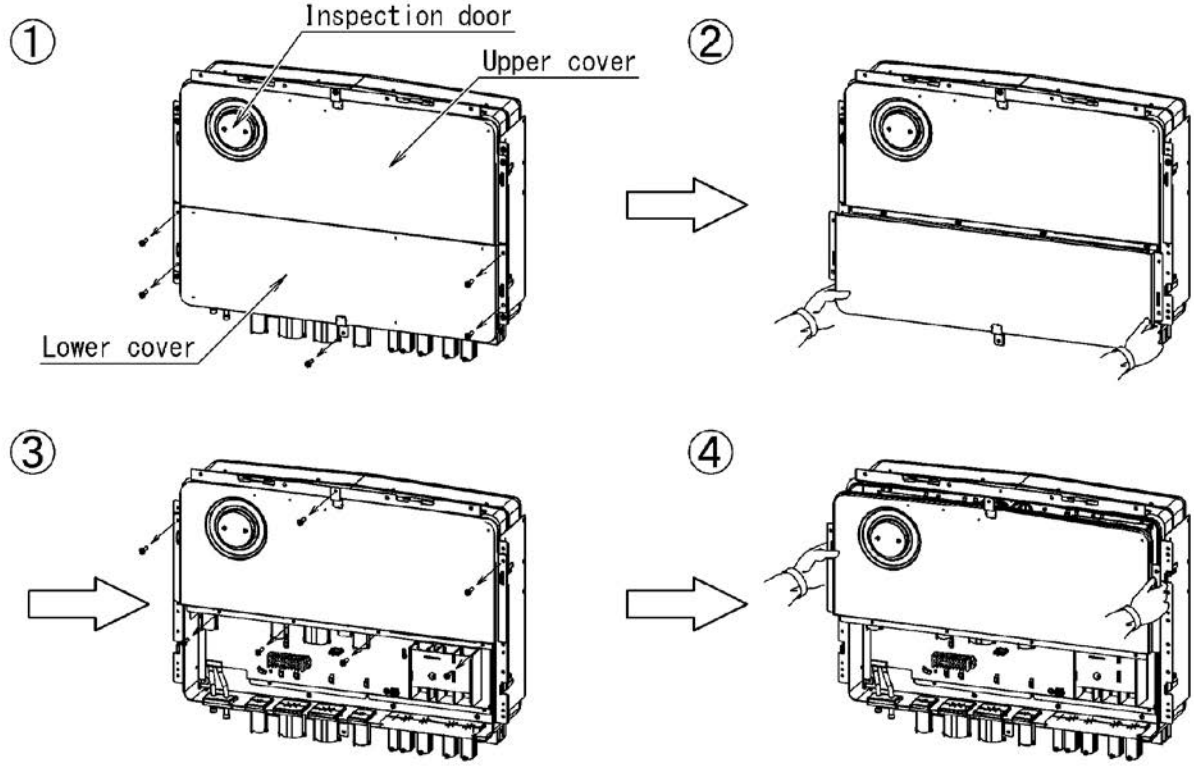
Caution for removing and installing the EL.COMPO.BOX cover

[Method of removal]

① Remove the 5 screws fixing the lower cover.
② Remove the lower cover towards you.
③ Remove the 7 screws fixing the upper cover.
④ Remove the upper cover towards you.

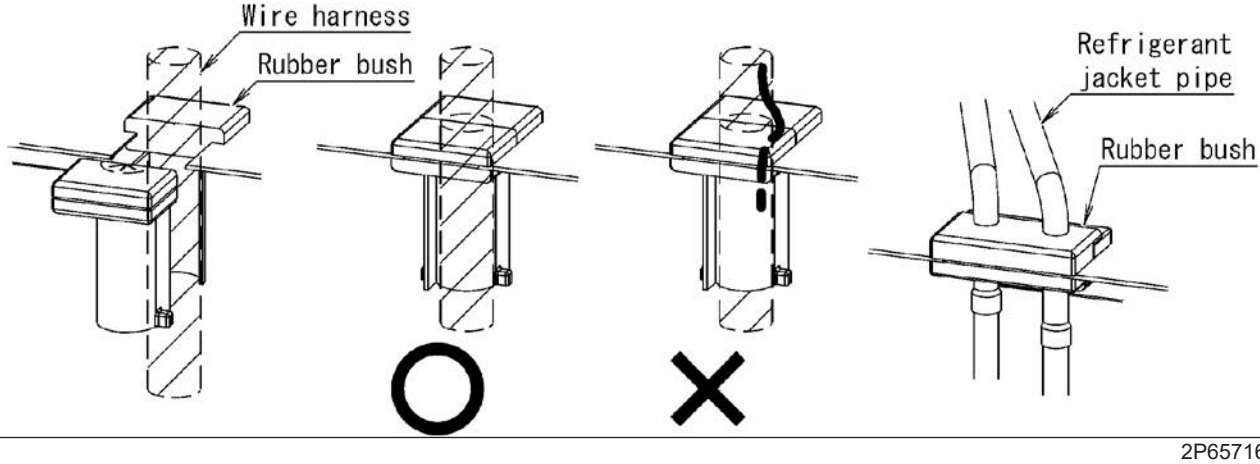
[Method of installation]

For installing the cover follow the procedures in the reverse order.



[Caution]

- Pinch the wire harness with a rubber bush.
- Be careful not to chew the wire harness.



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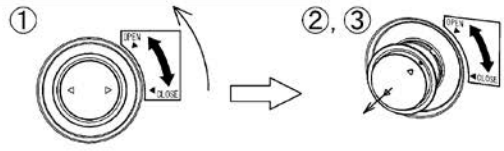
Caution for removing and installing the inspection door

[Method of removal]

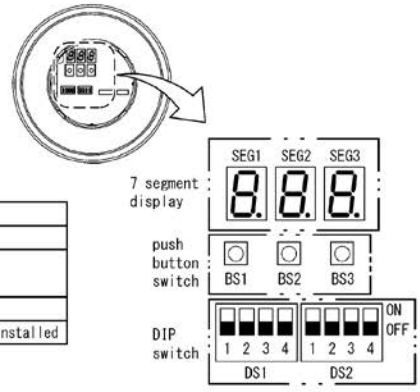
① Turn the inspection door counterclockwise.
② Align the ▲ mark with the ▲ mark (open).
③ Remove the inspection door towards you.



Field Setting

1. How to operate

- When setting the DIP switch, make sure to turn off the power supply and open the EL. COMPO. BOX cover.
- For operating the push button switch open the inspection door as shown on the right figure with the power supply turned on and use a resin ballpoint or non-conducting object. After the work is finished, make sure to close the inspection door.



2. Setting by the push button switch (BS1~3)

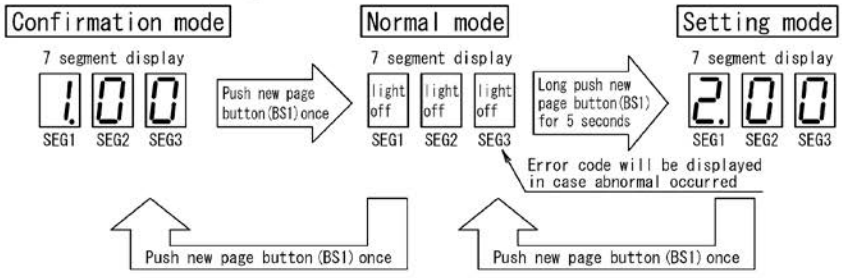
●Function of push button

Push button	Button types	Use
BS1	New page button	For changing setting mode
BS2	Operation button	For changing field setting
BS3	Confirm button	
BS2 long push	Operation button	For check operation
BS3 long push	Confirm button	For resetting the address when the wiring is changed or an additional indoor unit is installed

●Normal mode, Setting mode, Confirmation mode change method

Push new page button (BS1) it can be switched to as shown below Normal mode, Setting mode, Confirmation mode.

(Setting mode can use for setting Ⓐ~Ⓙ items as shown in the table below.
Confirmation mode can use for confirmation of Ⓚ, Ⓛ items as shown in the table below.
(Note) About other setting and error code, see service manual.)



- For each type setting, make sure to set by master unit. Sub unit setting is invalid.
- Outdoor unit which connect with indoor units by transmission wiring is master unit, other are sub units.
- Master unit and sub unit can be distinguished by 7 segment display according to operation below.

If you get confused in the setting process, push the new page button (BS1), then it will return to initial state (Normal mode)

			7 segment display		
			SEG1	SEG2	SEG3
(1)	In Normal mode push new page button (BS1) once then make it as Confirmation mode to confirm 7 segment display as shown in right description.		1	0	0
(2)	To confirm master unit or unit1, unit2, push confirmation button (BS3)	Master unit	light off	light off	0
		Sub unit1	light off	light off	1
		Sub unit2	light off	light off	2

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Set [Setting mode] or [Confirmation mode] first, then perform procedure as below.			Details of setting	7 segment display		
				SEG1	SEG2	SEG3
Setting procedure	① Push the operation button (BS2) following to setting items (Ⓐ~Ⓙ) and adjust the 7 segment display to require mode shown in the right. (※1) For selecting low noise operation, demand operation by outside order or VRT setting by external control adapter for outdoor unit (optional accessory) is required. For details, see the instruction attached the adapter.		Ⓐ VRT setting (※1)	2	0	7
			Ⓑ External low noise demand operation setting (※1)	2	1	2
			Ⓒ High static pressure setting	2	1	8
			Ⓓ Additional refrigerant charge or wrong wiring automatic detection setting	2	2	0
			Ⓔ Refrigerant recovery / Evacuation mode setting	2	2	1
			Ⓕ Night time low noise setting	2	2	2
			Ⓖ External low noise level setting (※1)	2	2	5
			Ⓗ Demand operation level setting (※1)	2	3	0
			Ⓙ Low ambient cooling (outdoor temp. -4°F(-20°C)) setting	2	4	5
	② Push the confirmation button (BS3) (The present setting will be indicated).			Either of ③		
	③ Push the operation button (BS2) and adjust the 7 segment display to required mode, shown in the right. (※2) Setting level efficiency For Ⓕ and Ⓖ: Setting value: level 1~level 3; Noise value: ⟶ low noise For Ⓗ: Setting value: level 1~level 8; Power consumption: less power ⟵ For details, see the service manual. (※3) A is a number of 1 ~ 3 (※4) B is a number of 1 ~ 8	For Ⓐ	OFF (Factory setting)	light off	light off	0
			VRT setting by connecting "low noise sound" terminal	light off	light off	1
			VRT setting by connecting "demand input" terminal	light off	light off	2
		For ⒷⒸⒺⒿ	ON	light off	light off	1
			OFF (Factory setting)	light off	light off	0
		For Ⓓ	For additional refrigerant charging operation	light off	light off	1
			For wrong wiring automatic detection operation	light off	light off	2
		For Ⓕ (※2)	OFF (Factory setting)	light off	light off	0
			level A (※3)	light off	light off	A(※3)
		For Ⓖ (※2)	level A (※3) (Factory setting:2)	light off	light off	A(※3)
		For Ⓗ (※2)	level B (※4) (Factory setting:3)	light off	light off	B(※4)
	④ Push confirmation button (BS3)		The setting in ③ is defined	If will turn to light ON.		
	⑤ Push confirmation button again (BS3)		The system start the operation according to the setting.	2	0	0
	⑥ Push new page button (BS1)		Return to Normal mode	light off	light off	light off
Confirmation procedure	① Push operation button (BS2) according to confirmation item (Ⓚ, Ⓛ) and adjust the 7 segment display to required mode, shown in the right.		Ⓚ Low noise mode	1	0	1
			Ⓛ Demand operation	1	0	2
	② Push confirmation button (BS3) (The present setting will be indicated)		For during setting operation	light off	light off	1
			For during normal operation	light off	light off	0

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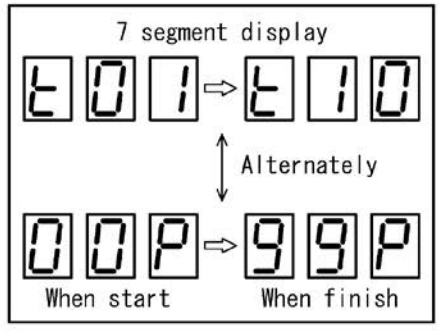
Check operation method

Make sure to open the gas side and liquid side stop valve before starting operation.

- Make sure to turn on the power supply of all connect units (indoor・outdoor) before operation.
- Make sure to close all outside panels, then operate. If not, the system cannot be checked properly.

- For multi system, make sure to confirm setting and result indication by master unit.
- Make sure to carry out the check operation after the first installation. Otherwise, the error code."U3" will be displayed in the remote controller. Normal operation can be carried out after 5 minutes from check operation.
- The check operation is automatically carried out in a cooling mode. The 7 segment will be indicated as shown in right, and "Test operation" and "Under centralized" will be displayed in the remote controller.
- During the check operation, it is impossible to stop the unit from the remote controller. When discontinue the operation, push the confirmation button (BS3). The system will stop after behind operation for 30 seconds.
- It may takes 5 minutes to bring the state of refrigerant uniform before the compressor starts. Moreover, during the check operation, the refrigerant running sound, the magnetic sound of a solenoid valve may become loud during operation, but these are not malfunctions.
- The abnormality of each indoor unit cannot be checked. After the check operation is finished, check the indoor units individually by normal operation using the remote controller.



【Operation procedure】

① To protect the compressor, make sure to turn on the power supply for 6 hours before starting operation. After turning on the power supply, the unit can not start the operation until 7 segment goes off. (Maximum 12 minutes)

Result	7 segment display
Normally finished	Light off
Abnormally finished	Error code

② In stop condition, set to Normal mode.

③ Push the operation button (BS2) for 5 seconds or more (Then the unit will start the check operation).

④ When the checks are completed (unit run for 30～40 min.), the system will stop automatically. Check the operation results by the outdoor unit 7 segment display (see the table shown upward).

Push new page button (BS1) in case taking a wrong operation, then follow procedure since ② again.

【Measure for error finish】

① Confirm the error code by the remote controller and 7 segment display, and correct the abnormality (For how to correct abnormality and correction method, see the Installation manual, Operation manual and Service manual)

② After correcting the abnormality, push the confirmation button (BS3) and reset the error code.

③ Carry out the check operation again and confirm that the abnormality is properly corrected.

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Additional refrigerant charging operation

・When installation was finished, make sure to charge the refrigerant by using this procedure. If the refrigerant quantity is insufficient, the unit may malfunction.

Setting procedure

① Connect the refrigerant charge hose and valve to the stop valve service port on the suction gas side.

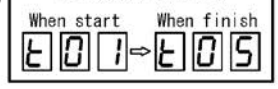
② Make sure to completely open stop valve on the suction gas side, high/low pressure gas side and the liquid side.

③ Turn ON the power of the indoor unit and the outdoor unit.
To protect the compressor, make sure to turn on the power supply for 6 hours before starting operation.

④ In the stopped status, set the addition set ON to the additional refrigerant charging operation by Setting mode, and open refrigerant cylinder valve. About valve pulse, make sure to adjust refrigerant charging speed as 1kg/minute.

Test operation・
Under centralized control
7 segment display

When start ⇨ When finish



Example 7 segment display

0.17 MPa

- The operation is automatically started, 7 segment display will be charged as shown in right (up) and "Test operation" and "Under centralized control" are displayed in the remote controller.
- Low pressure indication may display on 7 segment display (as shown in right (down)), however, operation can be carried out continuously.

⑤ After charging the specified quantity of refrigerant, close refrigerant cylinder valve, push confirmation button (BS3).
- The operation will be stopped. The operation is automatically stopped within 30 minutes.
  If charging is not completed, set and perform the additional refrigerant charging operation again.
- If the additional refrigerant charging operation is stopped soon, the refrigerant may be overcharged. Stop additional charging, make sure to confirm charged amount again.

Caution for piping work and additional refrigerant charge

・Use the charging hose and gauge manifold designed exclusive use R410A in order to withstand the pressure and prevent impurities (such as SUNISO oil) from mixing into.
・Carry out a nitrogen blow when brazing.
・Charge the additional refrigerant in liquid state.
・Perform the airtightness and the vacuum drying certainly.
(Test pressure 550psi (3.8MPa))

Service mode operation method

・After turning on the power supply, the unit can not start until the 7 segment indication goes off for maximum 12 minutes.
・Do not turn off the power and do not reset the Setting mode when evacuating or recovering the refrigerant. (The expansion valves will close and the system can not be evacuated or recovered the refrigerant)

[Evacuation method] (At the first installation this evacuation is not required. It is only required for service)

① When the units is in stopping condition and under the Setting mode set the Ⓔ Refrigerant recovery/Evacuation mode (※).
② Evacuate the system with a vacuum pump.
③ Push confirm button (BS3) after finish evacuation and reset the evacuation mode.
④ Push new page button (BS1) and reset Setting mode.
(※) The expansion valves in the indoor and outdoor units will be opened completely 7 segment display will be changed as shown in the below and "Test operation" and "Under centralized control" will be displayed in the remote controller. The operation will be rejected.

[Refrigerant recovery operation method] 7 segment display E01
(Make sure to use a refrigerant reclaimer)

① When the unit is at standstill and under the Setting mode set the Ⓔ Refrigerant recovery/Evacuation mode to ON.
② Recovery the refrigerant by a refrigerant reclaimer (For details, see the manual attached in refrigerant reclaimer recovery operation method).
③ After completed, push the confirm button (BS3) and reset the refrigerant recovery mode.
④ Push new page button (BS3) and reset Setting mode.

DANGER

ELECTRIC SHOCK HAZARD!
DISCONNECT ALL REMOTE POWER SUPPLIES BEFORE INSTALLING OR SERVICING THIS EQUIPMENT.
Failure to do so could lead to serious injury or death.
Only a qualified service technician should install or service this equipment.

DANGER D'ELECTROCUTION!
DÉCONNÉCTER TOUTES LES ALIMENTATIONS ÉLECTRIQUES ÉLOIGNEES AVANT D'INSTALLER OU DE REPARER CET APPAREIL.
Le non respect de cette recommandation peut entraîer des blessures graves ou la mort.
Seul un technicien de service qualifié peut installer ou réparer cet appareil.

2P657164-1C

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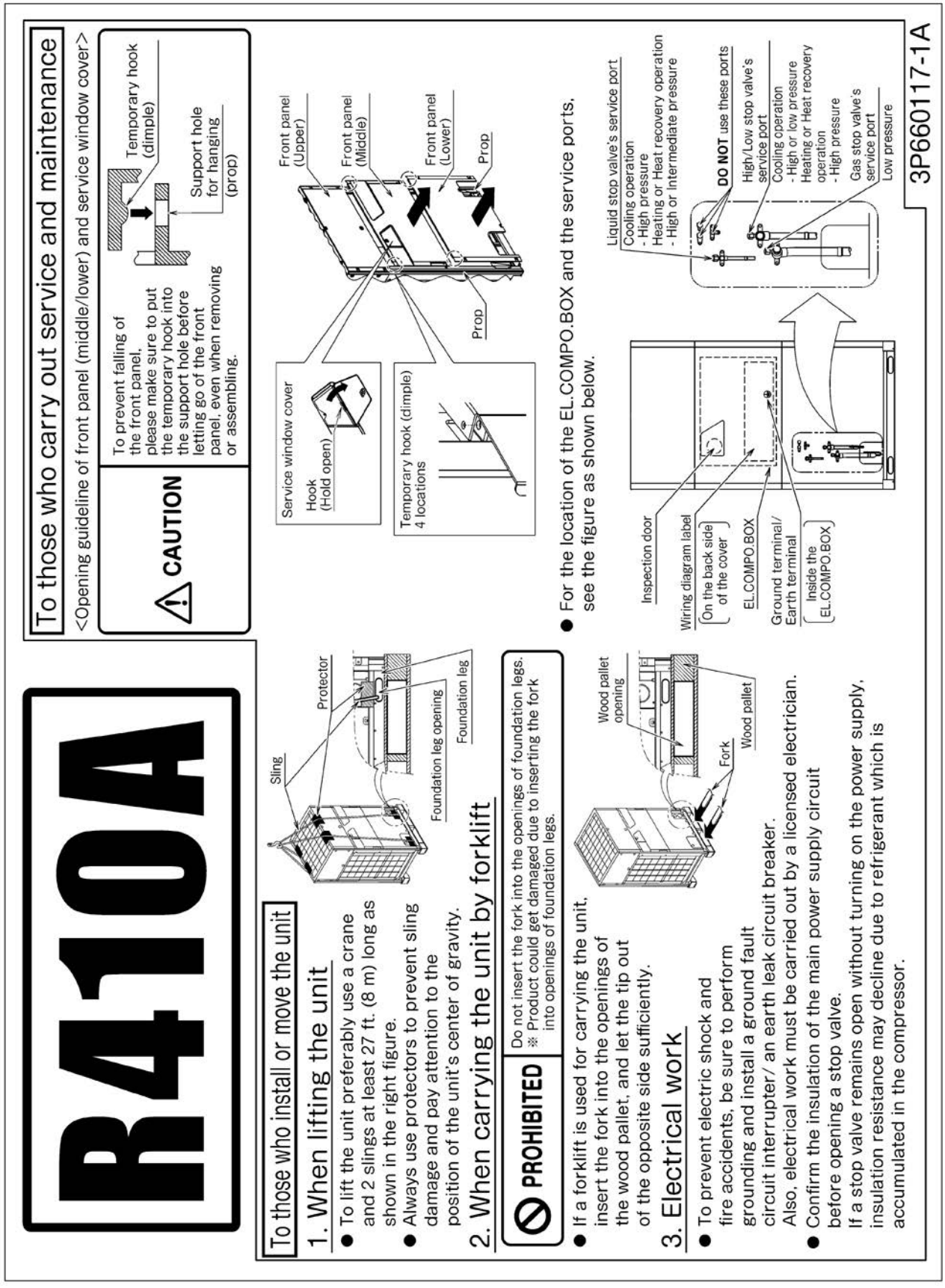
22.2 Collective Indications Label

REYQ72AATJA / AAYDA



3P660117A

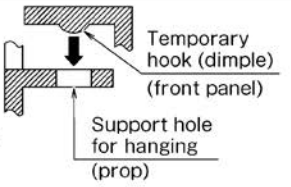
R410A

To those who carry out service and maintenance

<Opening guideline of front panel (middle/lower) and service window cover>

⚠ CAUTION

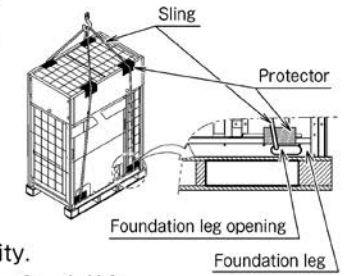
To prevent falling of the front panel, please make sure to put the temporary hook into the support hole before letting go of the front panel, even when removing or assembling.



To those who install or move the unit

1. When lifting the unit

- To lift the unit preferably use a crane and 2 slings at least 27 ft. (8 m) long as shown in the right figure.
- Always use protectors to prevent sling damage and pay attention to the position of the unit's center of gravity.

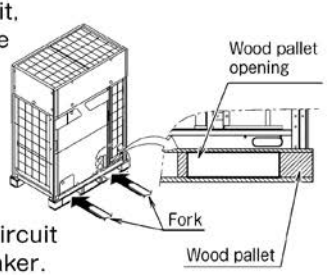


2. When carrying the unit by forklift

⊘ PROHIBITED

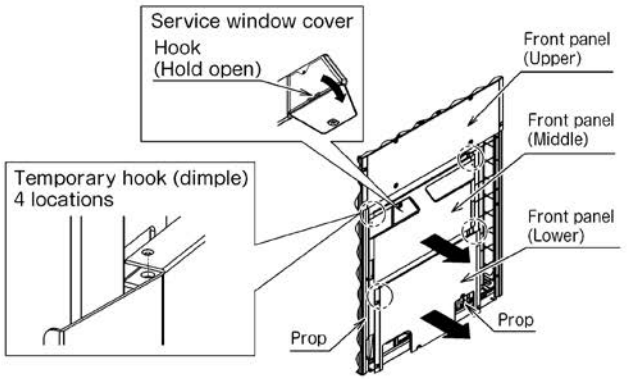
Do not insert the fork into the openings of foundation legs.
※ Product could get damaged due to inserting the fork into openings of foundation legs.

- If a forklift is used for carrying the unit, insert the fork into the openings of the wood pallet, and let the tip out of the opposite side sufficiently.

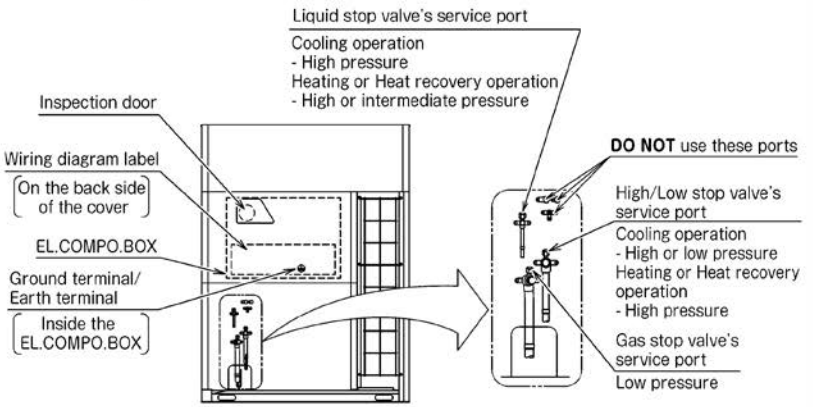


3. Electrical work

- To prevent electric shock and fire accidents, be sure to perform grounding and install a ground fault circuit interrupter/ an earth leak circuit breaker.
  Also, electrical work must be carried out by a licensed electrician.
- Confirm the insulation of the main power supply circuit before opening a stop valve.
  If a stop valve remains open without turning on the power supply, insulation resistance may decline due to refrigerant which is accumulated in the compressor.



- For the location of the EL.COMPO.BOX and the service ports, see the figure as shown below.



3P660116-1A

3P660116A

R410A

To those who install or move the unit

1. When lifting the unit

- To lift the unit preferably use a crane and 2 slings at least 27 ft. (8 m) long as shown in the right figure.
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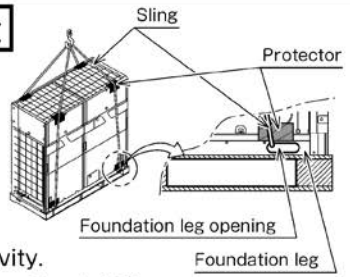

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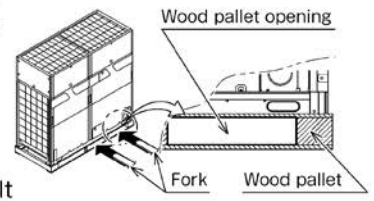

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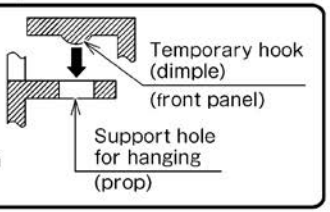
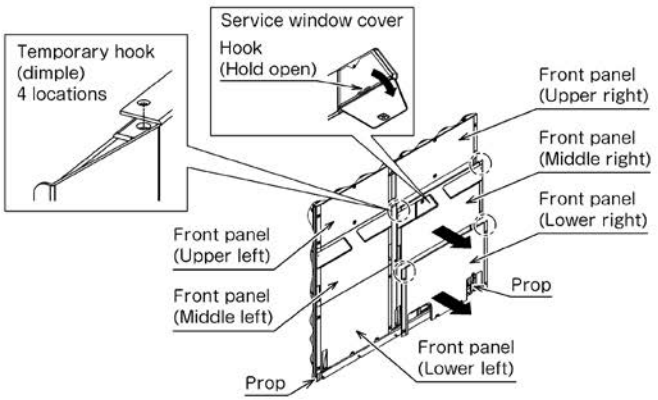
To those who carry out service and maintenance

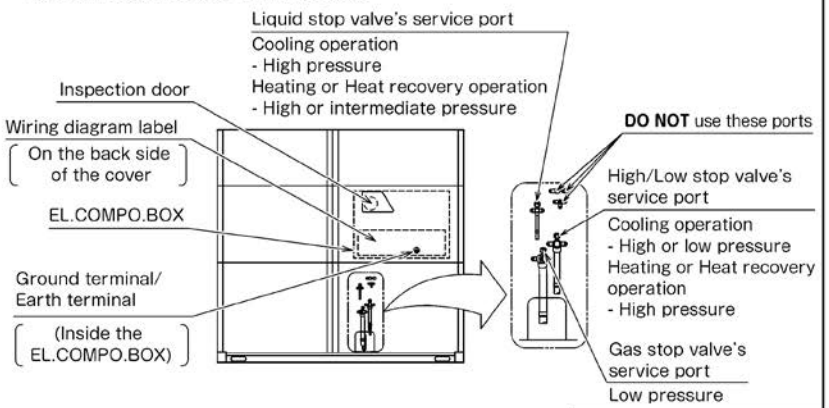
<Opening guideline of front panel (middle/lower) and service window cover>

⚠ CAUTION To prevent falling of the front panel, please make sure to put the temporary hook into the support hole before letting go of the front panel, even when removing or assembling.





- For the location of the EL.COMPO.BOX and the service ports, see the figure as shown below.



3P660112-1A

3P660112A

23. Caution for Refrigerant Leaks

23.1 Introduction

The installer and system specialist shall secure safety against leakage according to local regulations or standards. The following standards may be applicable if local regulations are not available.

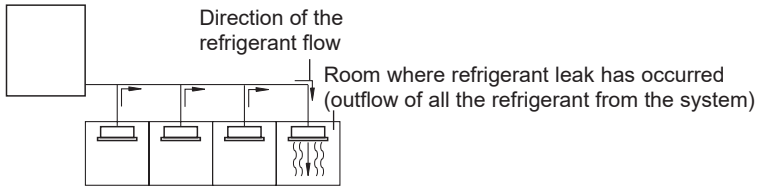
The ***VRV*** System, like other air conditioning systems, uses R410A as refrigerant. R410A itself is an entirely safe non-toxic, non-combustible refrigerant. Nevertheless care must be taken to ensure that air conditioning facilities are installed in a room which is sufficiently large. This assures that the maximum concentration level of refrigerant gas is not exceeded, in the unlikely event of major leak in the system and this in accordance to the local applicable regulations and standards.

Maximum concentration level

The maximum charge of refrigerant and the calculation of the maximum concentration of refrigerant is directly related to the humanly occupied space in to which it could leak.

The unit of measurement of the concentration is lbs./ft.³ (kg/m³) (the weight in lbs. (kg) of the refrigerant gas in 1 ft.³ (1 m³) volume of the occupied space).

Compliance to the local applicable regulations and standards for the maximum allowable concentration level is required.



Pay special attention to places, such as basements, etc. where refrigerant could stay, since refrigerant is heavier than air.

23.2 Procedure for Checking Maximum Concentration

Check the maximum concentration level in accordance with steps 1 to 4 below and take whatever action is necessary to comply.

Step1: Calculate the amount of refrigerant (lbs. (kg)) charged to each system separately.

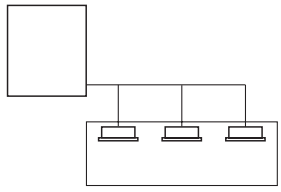
Amount of refrigerant in a single unit system (amount of refrigerant with which the system is charged before leaving the factory)	+	Additional charging amount (amount of refrigerant added locally in accordance with the length or diameter of the refrigerant piping)	=	Total amount of refrigerant (lbs. (kg)) in the system

Note:
Where a single refrigerant facility is divided into 2 entirely independent refrigerant systems then use the amount of refrigerant with which each separate system is charged.

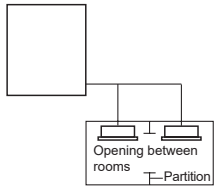
Step 2: Calculate the smallest room volume (ft.³(m³))

In case like the following, calculate the volume of (a), (b) as a single room or as the smallest room.

(a) Where there are no smaller room divisions.

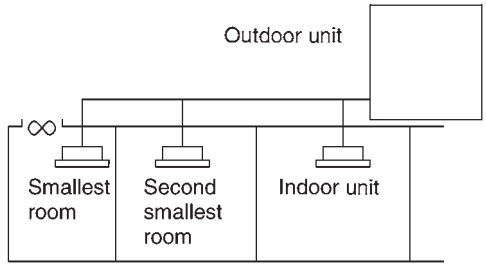


(b) Where there is a room division but there is an opening between the rooms sufficiently large to permit a free flow of air back and forth.



(Where there is an opening without a door or where there are openings above and below the door which are each equivalent in size to 0.15% or more of the floor area.)

(c) Where there is a gas leak detection alarm device linked to a mechanical ventilator in the smallest room then the next smallest room will become the measurement target.



Step 3: Calculating the refrigerant density using the results of the calculations in steps 1 and 2 above.

$$\frac{\text{Total volume of refrigerant in the refrigerant system}}{\text{Size (ft.}^3\text{(m}^3\text{)) of the smallest room in which there is an indoor unit installed}} \leq \text{Maximum concentration level (lbs./ft.}^3\text{(kg/m}^3\text{))}$$

If the result of the above calculation exceeds the maximum concentration level then make similar calculations for the second then third smallest room and so until the result falls short of the maximum concentration.

Step 4: Dealing with the situations where the result exceeds the maximum concentration level.

Where the installation of a facility results in a concentration in excess of the maximum concentration level then it will be necessary to revise the system.

Please consult your Daikin supplier.

24. Safety Devices Setting

24.1 FXFQ-T

Model		FXFQ07TVJU	FXFQ09TVJU	FXFQ12TVJU	FXFQ15TVJU	FXFQ18TVJU
Printed circuit board fuse		250 V, 3.15 A	250 V, 3.15 A	250 V, 3.15 A	250 V, 3.15 A	250 V, 3.15 A
Drain pump thermal fuse	°F (°C)	–	–	–	–	–
Fan motor thermal protector	°F (°C)	–	–	–	–	–
Fan motor thermal fuse	°F (°C)	–	–	–	–	–

Model		FXFQ24TVJU	FXFQ30TVJU	FXFQ36TVJU	FXFQ48TVJU
Printed circuit board fuse		250 V, 3.15 A	250 V, 3.15 A	250 V, 3.15 A	250 V, 3.15 A
Drain pump thermal fuse	°F (°C)	–	–	–	–
Fan motor thermal protector	°F (°C)	–	–	–	–
Fan motor thermal fuse	°F (°C)	–	–	–	–

C: 3D086932C

24.2 FXZQ-TA

Model		FXZQ05TAVJU	FXZQ07TAVJU	FXZQ09TAVJU	FXZQ12TAVJU	FXZQ15TAVJU	FXZQ18TAVJU
Printed circuit board fuse		250 V, 3.15 A	250 V, 3.15 A	250 V, 3.15 A	250 V, 3.15 A	250 V, 3.15 A	250 V, 3.15 A
Fan motor thermal fuse	°F (°C)	–	–	–	–	–	–
Fan motor thermal protector	°F (°C)	–	–	–	–	–	–
Drain pump fuse	°F (°C)	–	–	–	–	–	–

C: 4D110603

24.3 FXUQ-PA

Model		FXUQ18PAVJU	FXUQ24PAVJU	FXUQ30PAVJU	FXUQ36PAVJU
Printed circuit board fuse		250 V, 3.15 A	250 V, 3.15 A	250 V, 3.15 A	250 V, 3.15 A
Drain pump thermal fuse	°F (°C)	–	–	–	–
Fan motor thermal protector	°F (°C)	–	–	–	–
Fan motor thermal fuse	°F (°C)	–	–	–	–

C: 3D133254

24.4 FXEQ-P

Model		FXEQ07PVJU	FXEQ09PVJU	FXEQ12PVJU	FXEQ15PVJU	FXEQ18PVJU	FXEQ24PVJU
Printed circuit board fuse	A1P	250 V, 3.15 A	250 V, 3.15 A	250 V, 3.15 A	250 V, 3.15 A	250 V, 3.15 A	250 V, 3.15 A
Fan motor thermal protector	°F (°C)	OFF: 223±9 (106±5) ON: 205±27 (96±15)	OFF: 223±9 (106±5) ON: 205±27 (96±15)	OFF: 223±9 (106±5) ON: 205±27 (96±15)	OFF: 223±9 (106±5) ON: 205±27 (96±15)	OFF: 223±9 (106±5) ON: 205±27 (96±15)	OFF: 223±9 (106±5) ON: 205±27 (96±15)

C: 4D098709

24.5 FXDQ-M

Model		FXDQ07MVJU	FXDQ09MVJU	FXDQ12MVJU	FXDQ18MVJU	FXDQ24MVJU
Printed circuit board fuse	A1P	250 V, 5 A	250 V, 5 A	250 V, 5 A	250 V, 5 A	250 V, 5 A
Fan motor thermal protector	°F	OFF: 266±9 ON: 181±27	OFF: 266±9 ON: 181±27	OFF: 266±9 ON: 181±27	OFF: 266±9 ON: 181±27	OFF: 266±9 ON: 181±27

C: 3D051758

24.6 FXSQ-TA

Model		FXSQ05TAVJU	FXSQ07TAVJU	FXSQ09TAVJU	FXSQ12TAVJU	FXSQ15TAVJU
Printed circuit board fuse		250 V, 3.15 A	250 V, 3.15 A	250 V, 3.15 A	250 V, 3.15 A	250 V, 3.15 A
Printed circuit board fuse (Fan driver)		250 V, 6.3 A	250 V, 6.3 A	250 V, 6.3 A	250 V, 6.3 A	250 V, 6.3 A
Drain pump thermal fuse	°F (°C)	—	—	—	—	—

Model		FXSQ18TAVJU	FXSQ24TAVJU	FXSQ30TAVJU	FXSQ36TAVJU	FXSQ48TAVJU	FXSQ54TAVJU
Printed circuit board fuse		250 V, 3.15 A	250 V, 3.15 A	250 V, 3.15 A	250 V, 3.15 A	250 V, 3.15 A	250 V, 3.15 A
Printed circuit board fuse (Fan driver)		250 V, 6.3 A	250 V, 6.3 A	250 V, 6.3 A	250 V, 6.3 A	250 V, 6.3 A	250 V, 6.3 A
Drain pump thermal fuse	°F (°C)	—	—	—	—	—	—

3D112398

24.7 FXMQ-PB

Model		FXMQ07PBVJU	FXMQ09PBVJU	FXMQ12PBVJU	FXMQ15PBVJU	FXMQ18PBVJU
Printed circuit board fuse		250 V, 3.15 A	250 V, 3.15 A	250 V, 3.15 A	250 V, 3.15 A	250 V, 3.15 A
Printed circuit board fuse (Fan driver)		250 V, 5 A	250 V, 5 A	250 V, 5 A	250 V, 6.3 A	250 V, 6.3 A
Drain pump thermal fuse	°F (°C)	293 (145)	293 (145)	293 (145)	293 (145)	293 (145)

Model		FXMQ24PBVJU	FXMQ30PBVJU	FXMQ36PBVJU	FXMQ48PBVJU	FXMQ54PBVJU
Printed circuit board fuse		250 V, 3.15 A	250 V, 3.15 A	250 V, 3.15 A	250 V, 3.15 A	250 V, 3.15 A
Printed circuit board fuse (Fan driver)		250 V, 6.3 A	250 V, 6.3 A	250 V, 6.3 A	250 V, 6.3 A	250 V, 6.3 A
Drain pump thermal fuse	°F (°C)	293 (145)	293 (145)	293 (145)	293 (145)	293 (145)

C: 3D086916B

24.8 FXMQ-M

Model		FXMQ72MVJU	FXMQ96MVJU
Printed circuit board fuse		250 V, 5 A	250 V, 5 A
Fan motor thermal fuse	°F	–	–
Fan motor thermal protector	°F	OFF: 275±14 (ON: 189±27)	OFF: 275±14 (ON: 189±27)

24.9 FXHQ-M

Model		FXHQ12MVJU	FXHQ24MVJU	FXHQ36MVJU
Printed circuit board fuse		250 V, 5 A	250 V, 5 A	250 V, 5 A
Fan motor thermal fuse	°F	–	–	–
Fan motor thermal protector	°F	OFF: 266±9 ON: 176±36	OFF: 266±9 ON: 176±36	OFF: 266±9 ON: 176±36

C: 3D049334A

24.10 FXAQ-P

Model		FXAQ07PVJU	FXAQ09PVJU	FXAQ12PVJU	FXAQ18PVJU	FXAQ24PVJU
Printed circuit board fuse		250 V, 3.15 A	250 V, 3.15 A	250 V, 3.15 A	250 V, 3.15 A	250 V, 3.15 A
Fan motor thermal fuse	°F	–	–	–	–	–
Fan motor thermal protector	°F	–	–	–	–	–

C: 4D047085D

24.11 FXLQ-M, FXNQ-M

Model		FXLQ07MVJU FXNQ07MVJU	FXLQ09MVJU FXNQ09MVJU	FXLQ12MVJU FXNQ12MVJU	FXLQ18MVJU FXNQ18MVJU	FXLQ24MVJU FXNQ24MVJU
Printed circuit board fuse		250 V, 5 A	250 V, 5 A	250 V, 5 A	250 V, 5 A	250 V, 5 A
Fan motor thermal protector	°F (°C)	OFF: 275±18 (135±10) ON: 248 (120) or less	OFF: 275±18 (135±10) ON: 248 (120) or less	OFF: 275±18 (135±10) ON: 248 (120) or less	OFF: 275±18 (135±10) ON: 248 (120) or less	OFF: 275±18 (135±10) ON: 248 (120) or less

C: 3D045646B

24.12 FXTQ-TA

Model	FXTQ09TAVJUA	FXTQ12TAVJUA	FXTQ18TAVJUA	FXTQ24TAVJUA	FXTQ30TAVJUA
Model (with factory disconnect)	FXTQ09TAVJUD	FXTQ12TAVJUD	FXTQ18TAVJUD	FXTQ24TAVJUD	FXTQ30TAVJUD
Printed circuit board fuse (F1U)	32 V, 3 A	32 V, 3 A	32 V, 3 A	32 V, 3 A	32 V, 3 A
Printed circuit board fuse (F2U)	250 V, 3.15 A	250 V, 3.15 A	250 V, 3.15 A	250 V, 3.15 A	250 V, 3.15 A
Others	Blower motor, Fan driver overload protector				

Model	FXTQ36TAVJUA	FXTQ42TAVJUA	FXTQ48TAVJUA	FXTQ54TAVJUA	FXTQ60TAVJUA
Model (with factory disconnect)	FXTQ36TAVJUD	FXTQ42TAVJUD	FXTQ48TAVJUD	FXTQ54TAVJUD	FXTQ60TAVJUD
Printed circuit board fuse (F1U)	32 V, 3 A	32 V, 3 A	32 V, 3 A	32 V, 3 A	32 V, 3 A
Printed circuit board fuse (F2U)	250 V, 3.15 A	250 V, 3.15 A	250 V, 3.15 A	250 V, 3.15 A	250 V, 3.15 A
Others	Blower motor, Fan driver overload protector				

24.13 CXTQ-TA

Model	CXTQ24TASBLU	CXTQ36TASBLU	CXTQ48TASBLU	CXTQ60TASBLU
Printed circuit board fuse (F1U)	32 V, 3 A	32 V, 3 A	32 V, 3 A	32 V, 3 A
Printed circuit board fuse (F2U)	250 V, 3.15 A	250 V, 3.15 A	250 V, 3.15 A	250 V, 3.15 A

Appendix

1. Introduction

1.1 ED Book List

Design Manual ..... REYQ-AA ..... **EDUS372119A-D (This booklet)**

Capacity Table Book

Heat Recovery ..... REYQ-AA **EDUS372119A-C**

Installation

Heat Pump, Heat Recovery ..... RXYQ REYQ **EDUS371848-N**

Indoor Units

Ceiling Mounted Cassette Type (Round Flow with Sensing) ..... FXFQ-T **EDUS391400B-F14**

VISTA™ 2 × 2 Cassette Unit ..... FXZQ-TA **EDUS391776A-F9**

4-Way Blow Ceiling-Suspended Type ..... FXUQ-PA **EDUS392109-F15**

One Way Blow Cassette Type ..... FXEQ-P **EDUS391533-F16**

Slim Ceiling Mounted Duct Type ..... FXDQ-M **EDUS39-600A-F2**

MSP Concealed Duct Unit ..... FXSQ-TA **EDUS391777A-F17**

Ceiling Mounted Duct Type ..... FXMQ-PB **EDUS391503B-F4**

Ceiling Mounted Duct Type ..... FXMQ-M **EDUS39-900B-F11**

Ceiling Suspended Type ..... FXHQ-M **EDUS39-600A-F5**

Wall Mounted Type ..... FXAQ-P **EDUS391100A-F6**

Floor Standing Type / Concealed Floor Standing Type ..... FXLQ-M FXNQ-M **EDUS391502A-F7**

Air Handling Unit ..... FXTQ-TA ..... **Engineering Data FXTQ-TA**

Cased Coil Unit ..... CXTQ-TA ..... **Engineering Data CXTQ-TA**

Branch Selector Unit ..... BSQ-T BSF-Q54T BS-Q54T **EDUS392110-B**

Air Treatment Equipment

Outdoor Air Processing Unit ..... FXMQ-MF **EDUS39-900B-F10**

Energy Recovery Ventilator ..... VAM-G **EDUS711116B**

Controls **EDUS721909A-T**

Remote Controller

Navigation Remote Controller ..... BRC1E73 ..... **EDUS721438**

1.2 Publication List of Engineering Data for *VRV* Products

Shaded sections indicate Engineering Data Book/s published for this series.
Timing of publication is subject to change without notice.

Outdoor Unit

Refrigerant	Category	Product series	Type	Volts	Model name	Area	Book category	Book No.	Published in
R410A	Air cooled	***VRV EMERION***	H/R	208/230 V 460 V	REYQ-AATJA, AAYDA	USA Canada	Design manual	EDUS372119A-D	Jun.2022
							Capacity table	EDUS372119A-C	Jun.2022
		VRV IV-X	H/R	208/230 V 460 V 575 V	REYQ-XATJA, XAYDA, XAYCA	USA Canada	Design manual	EDUS371848D-D	Apr.2022
							Capacity table	EDUS371848B-C	Mar.2022
			H/P	208/230 V 460 V	RXYQ-XATJA, XAYDA	USA Canada	Design manual	EDUS341923A-D	Oct.2020
							Capacity table	EDUS341923-C	Nov.2019
				575 V	RXYQ-XAYCA	Canada	Design manual	EDUS341928A-D	Oct.2020
							Capacity table	EDUS341928-C	Nov.2019
		VRV IV	H/R	208/230 V 460 V	REYQ-TATJA, TAYDA	USA Canada	Design manual	EDUS371704C-D	Feb.2020
							Capacity table	EDUS371704C-C	
				575 V	REYQ-TAYCA	Canada	Design manual	EDUS371706C-D	
							Capacity table	EDUS371706C-C	
			H/P	208/230 V 460 V	RXYQ-TATJA, TAYDA	USA Canada	Design manual	EDUS341703B-D	Jan.2020
							Capacity table	EDUS341703B-C	
				575 V	RXYQ-TAYCA	Canada	Design manual	EDUS341824A-D	
							Capacity table	EDUS341824A-C	
		VRV Aurora	H/R	208/230 V 460 V 575 V	RELQ-TATJA, TAYDA, TAYCA	USA Canada	Design manual	EDUS371705E-D	Mar.2022
							Capacity table	EDUS371705C-C	Feb.2020
			H/P	208/230 V 460 V 575 V	RXLQ-TATJA, TAYDA, TAYCA	USA Canada	Design manual	EDUS341819A-D	Jan.2020
							Capacity table	EDUS341819A-C	
		VRV IV-S	H/P	208/230 V	RXTQ36TAVJ9A RXTQ48/60TAVJUA	USA Canada	Design manual	EDUS331608C-D	Feb.2020
							Capacity table	EDUS331608C-C	
		VRV LIFE	H/P	208/230 V	RXSQ-TAVJUA	USA Canada	Design manual	EDUS331721A-D	Feb.2020
							Capacity table	EDUS331721A-C	
		Installation for all ***VRV*** air cooled type					Installation	EDUS371848-N	Aug.2019
	Water cooled	***VRV-W***	H/P H/R	208/230 V 460 V 575 V	RWEQ-TATJU, TAYDU, TAYCU RWEQ-TATJA, TAYDA	USA Canada	Design manual	EDUS301864C-D	Mar.2022
							Capacity table	EDUS301864A-C	Jan.2020
		Installation for all ***VRV*** water cooled type					Installation	EDUS301864-N	Aug.2019

Note:
C/O: Cooling only, H/P: Heat pump, H/R: Heat recovery

Indoor Unit and Other Products

Refrigerant	Product category	Product type	Model name	Area	Book No.	Published in
R410A	***VRV*** Indoor units	Ceiling Mounted Cassette Type (Round Flow with Sensing)	FXFQ07-48TVJU	USA	EDUS391400B-F14	Jun.2020
		VISTA™ 2 x 2 Cassette Unit	FXZQ05-18TAVJU	USA	EDUS391776A-F9	Sep.2020
		4-Way Blow Ceiling- Suspended Type	FXUQ18-36PAVJU	USA	EDUS392109-F15	Jul.2021
		One Way Blow Cassette Type	FXEQ07-24PVJU	USA	EDUS391533A-F16	Jan.2021
		Slim Ceiling Mounted Duct Type	FXDQ07-24MVJU	USA	EDUS39-600A-F2	Mar.2021
		MSP Concealed Ducted Unit	FXSQ05-54TAVJU	USA	EDUS391777A-F17	Sep.2020
		Ceiling Mounted Duct Type (Middle and High Static Pressure)	FXMQ07-54PBVJU	USA	EDUS391503B-F4	Jun.2020
		Ceiling Mounted Duct Type	FXMQ72/96MVJU	USA	EDUS39-900B-F11	Mar.2021
		Ceiling Suspended Type	FXHQ12-36MVJU	USA	EDUS39-600A-F5	Mar.2021
		Wall Mounted Type	FXAQ07-24PVJU	USA	EDUS391100A-F6	Jan.2021
		Floor Standing Type Concealed Floor Standing Type	FXLQ07-24MVJU FXNQ07-24MVJU	USA	EDUS391502A-F7	Jan.2021
		Low-temperature hydrobox	HXY48TAVJU	USA	EDUS392021-F18	Sep.2020
		Cased Coil Unit	CXTQ24-60TASBLU	USA	Engineering Data CXTQ-TA	—
		Air Handling Unit	FXTQ09-60TAVJUA FXTQ09-60TAVJUD	USA	Engineering Data FXTQ-TA	Sep.2016
		Outdoor Air Processing Unit	FXMQ48-96MFVJU	USA	EDUS39-900B-F10	Mar.2021
		Branch Selector Unit	BSQ-TAVJ BSF-Q54TVJ BS-Q54TAVJ	USA	EDUS392110-B	Jun.2021
	Controls and networks	Control systems Control devices Adaptors	Please refer to ED Book with No. on the right for applicable models.	USA	EDUS721909A-T	Oct.2020
		Navigation remote controller	BRC1E73	USA	EDUS721438	Apr.2015
		intelligent Touch Manager	DCM601A71, DCM601A72	USA	EDUS721212A	Nov.2021 (planned)
		intelligent Touch Controller	DCS601C71	USA	EDUS72-608	Dec.2006
		Interface for use in BACnet®	DMS502B71	USA	EDUS72-749	Oct.2007
Option for all type			Please refer to ED Book with No. on the right for applicable models.	USA	OHUS07-1	Nov.2007
Energy Recovery Ventilator (VAM)			VAM300-1200GVJU	USA	EDUS711116B	Dec.2020

Warning

- Ask a qualified installer or contractor to install this product. Do not try to install the product yourself. Improper installation can result in water or refrigerant leakage, electrical shock, fire or explosion.
- Use only those parts and accessories supplied or specified by Daikin. Ask a qualified installer or contractor to install those parts and accessories. Use of unauthorised parts and accessories or improper installation of parts and accessories can result in water or refrigerant leakage, electrical shock, fire or explosion.
- Read the user's manual carefully before using this product. The user's manual provides important safety instructions and warnings. Be sure to follow these instructions and warnings.

If you have any inquiries, please contact your local importer, distributor and/or retailer.

Cautions on product corrosion

1. Air conditioners should not be installed in areas where corrosive gases, such as acid gas or alkaline gas, are produced.
2. If the outdoor unit is to be installed close to the sea shore, direct exposure to the sea breeze should be avoided. If you need to install the outdoor unit close to the sea shore, contact your local distributor.

●Specifications, designs and other content appearing in this brochure are current as of June 2022 but subject to change without notice.