



EDUS 391006 - R1

R-410A

Engineering Data



RXYQ-PBTJ
3 phase
208/230V, 60Hz

DAIKIN AC (AMERICAS), INC.

RXYQ-PBTJ

Heat Pump

3 phase

208/230V, 60Hz

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1. Specifications

Model Name			RXYQ72PBTJ	RXYQ96PBTJ	RXYQ120PBTJ
Power Supply			3 phase, 208/230V, 60Hz	3 phase, 208/230V, 60Hz	3 phase, 208/230V, 60Hz
★1 Cooling Capacity	Nominal	Btu / h	72,000	96,000	120,000
	Rated		69,000	92,000	114,000
★2 Heating Capacity	Nominal	Btu / h	81,000	108,000	135,000
	Rated		77,000	103,000	129,000
Casing Color			Ivory White (5Y7.5/1)	Ivory White (5Y7.5/1)	Ivory White (5Y7.5/1)
Dimensions: (H×W×D)		in. (mm)	66-1/8 × 36-5/8 × 30-1/8 (1680 × 930 × 765)	66-1/8 × 48-7/8 × 30-1/8 (1680 × 1241 × 765)	66-1/8 × 48-7/8 × 30-1/8 (1680 × 1241 × 765)
Heat Exchanger			Cross Fin Coil	Cross Fin Coil	Cross Fin Coil
Comp.	Type		Hermetically Sealed Scroll Type	Hermetically Sealed Scroll Type	Hermetically Sealed Scroll Type
	Displacement	m ³ /h	16.90	10.53+13.34	10.53+13.34
	Number of Revolutions	r/min	7980	2900, 6300	2900, 6300
	Motor Output×Number of Units	kW	4.5 × 1	(2.2+4.5) × 1	(3.5+4.5) × 1
	Starting Method		Soft Start	Soft Start	Soft Start
Fan	Type		Propeller Fan	Propeller Fan	Propeller Fan
	Motor Output	kW	0.75 × 1	0.35 × 2	0.35 × 2
	Airflow Rate	cfm	6,350	8,230	8,230
	Drive		Direct Drive	Direct Drive	Direct Drive
Connecting Pipes	Liquid Pipe	in. (mm)	φ 3/8 (9.5) C1220T (Brazing Connection)	φ 3/8 (9.5) C1220T (Brazing Connection)	φ 1/2 (12.7) C1220T (Brazing Connection)
	Gas Pipe	in. (mm)	φ 3/4 (19.1) C1220T (Brazing Connection)	φ 7/8 (22.2) C1220T (Brazing Connection)	φ 1-1/8 (28.6) C1220T (Brazing Connection)
	Discharge Gas Pipe	in. (mm)	—	—	—
Mass	Lbs (kg)	420 (191)	620 (281)	620 (281)	
★3 Sound Level (Reference Value)	dBA	57	60	60	
Safety Devices			High Pressure Switch, Fan Driver Overload Protector, Overcurrent Relay, Inverter Overload Protector	High Pressure Switch, Fan Driver Overload Protector, Overcurrent Relay, Inverter Overload Protector	High Pressure Switch, Fan Driver Overload Protector, Overcurrent Relay, Inverter Overload Protector
Defrost Method			Deicer	Deicer	Deicer
Capacity Control		%	20~100	14~100	14~100
Refrigerant	Refrigerant Name		R-410A	R-410A	R-410A
	Charge	Lbs (kg)	16.5 (7.4)	21.4 (9.7)	22.1 (10)
	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
Drawing No.			C: 4D070501	C: 4D070502	C: 4D070503

Notes:

- ★1 Indoor temp. : 80°FDB(27°CDB), 67°FWB(19.4°CWB) / outdoor temp. : 95°FDB (35°CDB) / Equivalent piping length : 25ft (7.5 m), level difference : 0 ft.
- ★2 Indoor temp. : 70°FDB(21°CDB) / outdoor temp. : 47°FDB, 43°FWB (8.3° CDB, 6° CWB) / Equivalent piping length : 25ft (7.5 m), difference : 0 ft.
- ★3 Anechoic chamber conversion value, measure under JISB8616 conditions. During actual operation, these values are normally somewhat higher as a result of ambient conditions.

Model Name (Combination Unit)		RXYQ144PBTJ		RXYQ168PBTJ		RXYQ192PBTJ		
Model Name (Independent Unit)		—		RXYQ72PBTJ RXYQ96PBTJ		RXYQ72PBTJ RXYQ120PBTJ		
Power Supply		3 phase, 208/230V, 60Hz		3 phase, 208/230V, 60Hz		3 phase, 208/230V, 60Hz		
★1 Cooling Capacity	Nominal	Btu / h	144,000	168,000	192,000			
	Rated		138,000	160,000	184,000			
★2 Heating Capacity	Nominal	Btu / h	162,000	188,000	216,000			
	Rated		154,000	180,000	206,000			
Casing Color		Ivory White (5Y7.5/1)		Ivory White (5Y7.5/1)		Ivory White (5Y7.5/1)		
Dimensions: (HxWxD)		in. (mm)	66-1/8 x 51-3/16 x 30-1/8 (1680 x 1300 x 765)	66-1/8 x 36-5/8 x 30-1/8 + 66-1/8 x 48-7/8 x 30-1/8 (1680 x 930 x 765)+ (1680 x 1241 x 765)	66-1/8 x 36-5/8 x 30-1/8 + 66-1/8 x 48-7/8 x 30-1/8 (1680 x 930 x 765)+ (1680 x 1241 x 765)			
Heat Exchanger		Cross Fin Coil		Cross Fin Coil		Cross Fin Coil		
Comp.	Type	Hermetically Sealed Scroll Type		Hermetically Sealed Scroll Type		Hermetically Sealed Scroll Type		
	Displacement	m ³ /h	16.90 + 16.90	16.90 + (10.53+13.34)	16.90 + (10.53+13.34)			
	Number of Revolutions	r/min	7980, 7980	7980, (2900, 6300)	7980, (2900, 6300)			
	Motor Output×Number of Units	kW	(3.8+3.8) × 1	(4.5) × 1 + (2.2+4.5) × 1	(4.5) × 1 + (3.5+4.5) × 1			
Starting Method		Soft Start		Soft Start		Soft Start		
Fan	Type	Propeller Fan		Propeller Fan		Propeller Fan		
	Motor Output	kW	0.75 × 2	(0.75) × 1 + (0.35) × 2	(0.75) × 1 + (0.35) × 2			
	Airflow Rate	cfm	8,300	6,350+8,230	6,350+8,230			
	Drive		Direct Drive		Direct Drive		Direct Drive	
Connecting Pipes	Liquid Pipe	in. (mm)	φ1/2 (12.7) C1220T (Brazing Connection)	φ5/8 (15.8) C1220T (Brazing Connection)	φ5/8 (15.8) C1220T (Brazing Connection)			
	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)			
Mass	Lbs	747	420+620	420+620				
★3 Sound Level (Reference Value)	dBA	62	62	62				
Safety Devices		High Pressure Switch, Fan Driver Overload Protector, Overcurrent Relay, Inverter Overload Protector		High Pressure Switch, Fan Driver Overload Protector, Overcurrent Relay, Inverter Overload Protector		High Pressure Switch, Fan Driver Overload Protector, Overcurrent Relay, Inverter Overload Protector		
Defrost Method		Deicer		Deicer		Deicer		
Capacity Control	%	10~100	9~100	8~100				
Refrigerant	Refrigerant Name		R-410A		R-410A		R-410A	
	Charge	Lbs (kg)	24.5 (11.1)	16.5 + 21.4 (7.5 + 9.7)	16.5+22.1 (7.5 + 10)			
	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		
Drawing No.		C: 4D070759		C: 4D070868		C: 4D070869		

Notes:

- ★1 Indoor temp. : 80°FDB(27°CDB), 67°FWB(19.4°CWB) / outdoor temp. : 95°FDB (35°CDB) / Equivalent piping length : 25ft (7.5 m), level difference : 0 ft.
- ★2 Indoor temp. : 70°FDB(21°CDB) / outdoor temp. : 47°FDB, 43°FWB (8.3° CDB, 6° CWB) / Equivalent piping length : 25ft (7.5 m), difference : 0 ft.
- ★3 Anechoic chamber conversion value, measure under JISB8616 conditions. During actual operation, these values are normally somewhat higher as a result of ambient conditions.

Model Name (Combination Unit)			RXYQ216PBTJ	RXYQ240PBTJ	RXYQ264PBTJ
Model Name (Independent Unit)			RXYQ96PBTJ RXYQ120PBTJ	RXYQ120PBTJ RXYQ120PBTJ	RXYQ72PBTJ RXYQ96PBTJ RXYQ96PBTJ
Power Supply			3 phase, 208/230V, 60Hz	3 phase, 208/230V, 60Hz	3 phase, 208/230V, 60Hz
★1 Cooling Capacity	Nominal	Btu / h	216,000	240,000	264,000
	Rated		206,000	228,000	251,000
★2 Heating Capacity	Nominal	Btu / h	243,000	270,000	297,000
	Rated		231,000	257,000	283,000
Casing Color			Ivory White (5Y7.5/1)	Ivory White (5Y7.5/1)	Ivory White (5Y7.5/1)
Dimensions: (H×W×D)		in. (mm)	66-1/8 × 48-7/8 × 30-1/8 + 66-1/8 × 48-7/8 × 30-1/8 (1680 × 1241 × 765) + (1680 × 1241 × 765)	66-1/8 × 48-7/8 × 30-1/8 + 66-1/8 × 48-7/8 × 30-1/8 (1680 × 1241 × 765) + (1680 × 1241 × 765)	66-1/8 × 36-5/8 × 30-1/8 + 66-1/8 × 48-7/8 × 30-1/8 + 66-1/8 × 48-7/8 × 30-1/8 (1680 × 930 × 765) + (1680 × 1241 × 765) (1680 × 1241 × 765)
Heat Exchanger			Cross Fin Coil	Cross Fin Coil	Cross Fin Coil
Comp.	Type		Hermetically Sealed Scroll Type	Hermetically Sealed Scroll Type	Hermetically Sealed Scroll Type
	Displacement	m ³ /h	(10.53+13.34) × 2	(10.53+13.34) × 2	16.90 + (10.53+13.34) × 2
	Number of Revolutions	r/min	(2900, 6300) × 2	(2900, 6300) × 2	7980, (2900, 6300) × 2
	Motor Output×Number of Units	kW	(2.2+4.5) × 1 + (3.5+4.5) × 1	(3.5+4.5) × 2	(4.5) × 1 + (2.2+4.5) × 2
Starting Method			Soft Start	Soft Start	Soft Start
Fan	Type		Propeller Fan	Propeller Fan	Propeller Fan
	Motor Output	kW	(0.35) × 2 + (0.35) × 2	(0.35) × 2 + (0.35) × 2	(0.75) × 1 + (0.35) × 2 + (0.35) × 2
	Airflow Rate	cfm	8,230+8,230	8,230+8,230	6,350+8,230+8,230
	Drive		Direct Drive	Direct Drive	Direct Drive
Connecting Pipes	Liquid Pipe	in. (mm)	φ5/8 (15.8) C1220T (Brazing Connection)	φ5/8 (15.8) C1220T (Brazing Connection)	φ3/4 (19.1) C1220T (Brazing Connection)
	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)
Mass		Lbs (kg)	620+620 (281+281)	620+620 (281+281)	420+620+620 (190.5+281+281)
★3 Sound Level (Reference Value)		dBA	63	63	64
Safety Devices			High Pressure Switch, Fan Driver Overload Protector, Overcurrent Relay, Inverter Overload Protector	High Pressure Switch, Fan Driver Overload Protector, Overcurrent Relay, Inverter Overload Protector	High Pressure Switch, Fan Driver Overload Protector, Overcurrent Relay, Inverter Overload Protector
Defrost Method			Deicer	Deicer	Deicer
Capacity Control		%	7~100	6~100	6~100
Refrigerant	Refrigerant Name		R-410A	R-410A	R-410A
	Charge	Lbs (kg)	21.4+22.1(9.7 + 10)	22.1+22.1(10 +1 0)	16.5+21.4+21.4(7.5 + 9.7+ 9.7)
	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
Drawing No.			C: 4D070870	C: 4D070871	C: 4D070872

Notes:

- ★1 Indoor temp. : 80°FDB (27°CDB), 67°FWB(19.4°CWB) / outdoor temp. : 95°FDB (35°CDB) / Equivalent piping length : 25ft (7.5 m), level difference : 0 ft.
- ★2 Indoor temp. : 70°FDB (21°CDB) / outdoor temp. : 47°FDB, 43°FWB (8.3° CDB, 6° CWB) / Equivalent piping length : 25ft (7.5 m), difference : 0 ft.
- ★3 Anechoic chamber conversion value, measure under JISB8616 conditions. During actual operation, these values are normally somewhat higher as a result of ambient conditions.

Model Name (Combination Unit)			RXYQ288PBTJ	RXYQ312PBTJ	RXYQ336PBTJ
Model Name (Independent Unit)			RXYQ72PBTJ RXYQ96PBTJ RXYQ120PBTJ	RXYQ72PBTJ RXYQ120PBTJ RXYQ120PBTJ	RXYQ96PBTJ RXYQ120PBTJ RXYQ120PBTJ
Power Supply			3 phase, 208/230V, 60Hz	3 phase, 208/230V, 60Hz	3 phase, 208/230V, 60Hz
★1 Cooling Capacity	Nominal	Btu / h	288,000	312,000	336,000
	Rated		274,000	297,000	320,000
★2 Heating Capacity	Nominal	Btu / h	324,000	351,000	378,000
	Rated		308,000	334,000	360,000
Casing Color			Ivory White (5Y7.5/1)	Ivory White (5Y7.5/1)	Ivory White (5Y7.5/1)
Dimensions: (H×W×D)		in	66-1/8 × 36-5/8 × 30-1/8 + 66-1/8 × 48-7/8 × 30-1/8 + 66-1/8 × 48-7/8 × 30-1/8 (1680 × 930 × 765) + (1680 × 1241 × 765) + (1680 × 1241 × 765)	66-1/8 × 36-5/8 × 30-1/8 + 66-1/8 × 48-7/8 × 30-1/8 + 66-1/8 × 48-7/8 × 30-1/8 (1680 × 930 × 765) + (1680 × 1241 × 765) + (1680 × 1241 × 765)	66-1/8 × 48-7/8 × 30-1/8 + 66-1/8 × 48-7/8 × 30-1/8 + 66-1/8 × 48-7/8 × 30-1/8 (1680 × 1241 × 765) + (1680 × 1241 × 765) + (1680 × 1241 × 765)
Heat Exchanger			Cross Fin Coil	Cross Fin Coil	Cross Fin Coil
Comp.	Type		Hermetically Sealed Scroll Type	Hermetically Sealed Scroll Type	Hermetically Sealed Scroll Type
	Displacement	m ³ /h	16.90 + (10.53+13.34) × 2	16.90 + (10.53+13.34) × 2	(10.53+13.34) × 3
	Number of Revolutions	r/min	7980, (2900, 6300) × 2	7980, (2900, 6300) × 2	(2900, 6300) × 3
	Motor Output×Number of Units	kW	(4.5) × 1 + (2.2+4.5) × 1 + (3.5+4.5) × 1	(4.5) × 1 + (3.5+4.5) × 2	(2.2+4.5) × 1 + (3.5+4.5) × 2
Starting Method			Soft Start	Soft Start	Soft Start
Fan	Type		Propeller Fan	Propeller Fan	Propeller Fan
	Motor Output	kW	(0.75) × 1 + (0.35) × 2 + (0.35) × 2	(0.75) × 1 + (0.35) × 2 + (0.35) × 2	(0.35) × 2 + (0.35) × 2 + (0.35) × 2
	Airflow Rate	cfm	6,350+8,230+8,230	6,350+8,230+8,230	8,230+8,230+8,230
	Drive			Direct Drive	Direct Drive
Connecting Pipes	Liquid Pipe	in	φ3/4 (19.1) C1220T (Brazing Connection)	φ3/4 (19.1) C1220T (Brazing Connection)	φ3/4 (19.1) C1220T (Brazing Connection)
	Gas Pipe	in	φ1-3/8 (34.9) C1220T (Brazing Connection)	φ1-3/8 (34.9) C1220T (Brazing Connection)	φ1-3/8 (34.9)C1220T (Brazing Connection)
Mass		Lbs	420 + 620 + 620 (190.5 + 281 + 281)	420+620+620 (190.5 + 281 + 281)	620+620+620 (281 + 281 + 281)
★3 Sound Level (Reference Value)		dBA	64	64	65
Safety Devices			High Pressure Switch, Fan Driver Overload Protector, Overcurrent Relay, Inverter Overload Protector	High Pressure Switch, Fan Driver Overload Protector, Overcurrent Relay, Inverter Overload Protector	High Pressure Switch, Fan Driver Overload Protector, Overcurrent Relay, Inverter Overload Protector
Defrost Method			Deicer	Deicer	Deicer
Capacity Control		%	5~100	5~100	4~100
Refrigerant	Refrigerant Name		R-410A	R-410A	R-410A
	Charge	Lbs	16.5 + 21.4 + 22.1 (7.5 + 9.7 + 10)	16.5 + 22.1+ 22.1 (7.5 + 10 + 10)	21.4 + 22.1+ 22.1(9.7 + 10 + 10)
	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
Drawing No.			C: 4D070873	C: 4D070874	C: 4D070875

Notes:

- ★1 Indoor temp. : 80°FDB (27°CDB), 67°FWB(19.4°CWB) / outdoor temp. : 95°FDB (35°CDB) / Equivalent piping length : 25ft (7.5 m), level difference : 0 ft.
- ★2 Indoor temp. : 70°FDB (21°CDB) / outdoor temp. : 47°FDB, 43°FWB (8.3° CDB, 6° CWB) / Equivalent piping length : 25ft (7.5 m), difference : 0 ft.
- ★3 Anechoic chamber conversion value, measure under JISB8616 conditions. During actual operation, these values are normally somewhat higher as a result of ambient conditions.

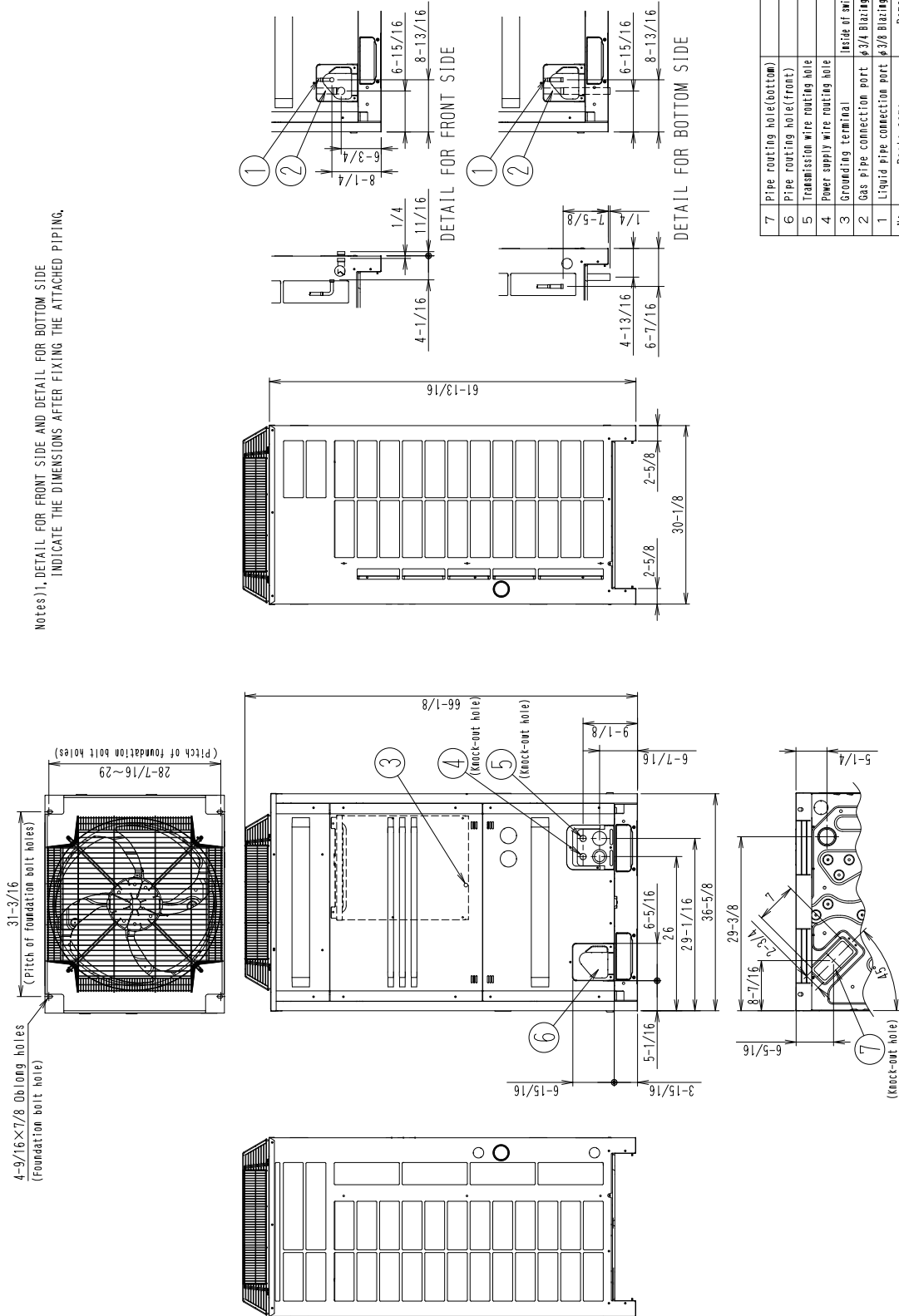
Model Name (Combination Unit)			RXYQ360PBTJ
Model Name (Independent Unit)			RXYQ120PBTJ RXYQ120PBTJ RXYQ120PBTJ
Power Supply			3 phase, 208/230V, 60Hz
★1 Cooling Capacity	Nominal	Btu / h	360,000
	Rated		342,000
★2 Heating Capacity	Nominal	Btu / h	405,000
	Rated		385,000
Casing Color			Ivory White (5Y7.5/1)
Dimensions: (HxWxD)		in. (mm)	66-1/8 x 48-7/8 x 30-1/8 + 66-1/8 x 48-7/8 x 30-1/8 + 66-1/8 x 48-7/8 x 30-1/8 (1680 x 1241 x 765) + (1680 x 1241 x 765) + (1680 x 1241 x 765)
Heat Exchanger			Cross Fin Coil
Comp.	Type		Hermetically Sealed Scroll Type
	Displacement	m ³ /h	(10.53+13.34) x 3
	Number of Revolutions	r/min	(2900, 6300) x 3
	Motor OutputxNumber of Units	kW	(3.5+4.5) x 3
	Starting Method		Soft Start
Fan	Type		Propeller Fan
	Motor Output	kW	(0.35) x 2 + (0.35) x 2 + (0.35) x 2
	Airflow Rate	cfm	8,230+8,230+8,230
	Drive		Direct Drive
Connecting Pipes	Liquid Pipe	in. (mm)	φ3/4 (19.1) C1220T (Brazing Connection)
	Gas Pipe	in. (mm)	φ1-5/8 (41.3) C1220T (Brazing Connection)
Mass		Lbs (kg)	620 + 620 + 620 (281 + 281 + 281)
★3 Sound Level (Reference Value)		dBA	65
Safety Devices			High Pressure Switch, Fan Driver Overload Protector, Overcurrent Relay, Inverter Overload Protector
Defrost Method			Deicer
Capacity Control		%	5~100
Refrigerant	Refrigerant Name		R-410A
	Charge	Lbs (kg)	22.1 + 22.1 + 22.1 (10 + 10 + 10)
	Control		Electronic Expansion Valve
Standard Accessories			Installation Manual, Operation Manual, Connection Pipes, Clamps
Drawing No.			C: 4D070876

Notes:

- ★1 Indoor temp. : 80°FDB (27°CDB), 67°FWB(19.4°CWB) / outdoor temp. : 95°FDB (35°CDB) / Equivalent piping length : 25ft (7.5 m), level difference : 0 ft.
- ★2 Indoor temp. : 70°FDB (21°CDB) / outdoor temp. : 47°FDB, 43°FWB (8.3° CDB, 6° CWB) / Equivalent piping length : 25ft (7.5 m), difference : 0 ft.
- ★3 Anechoic chamber conversion value, measure under JISB8616 conditions. During actual operation, these values are normally somewhat higher as a result of ambient conditions.

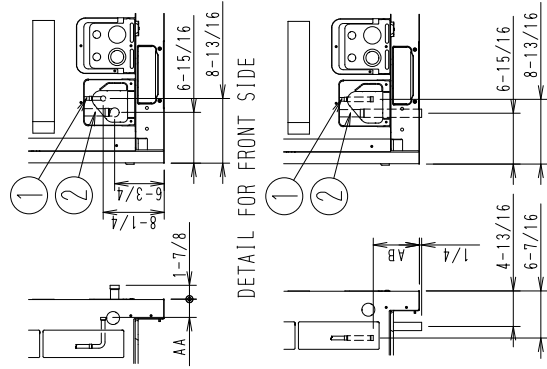
2. Dimensions

RXYQ72PBTJ



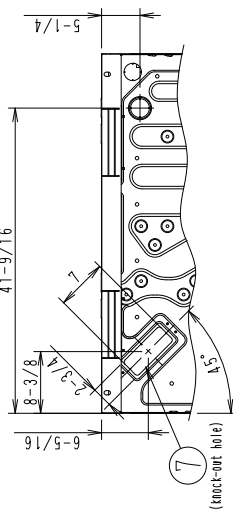
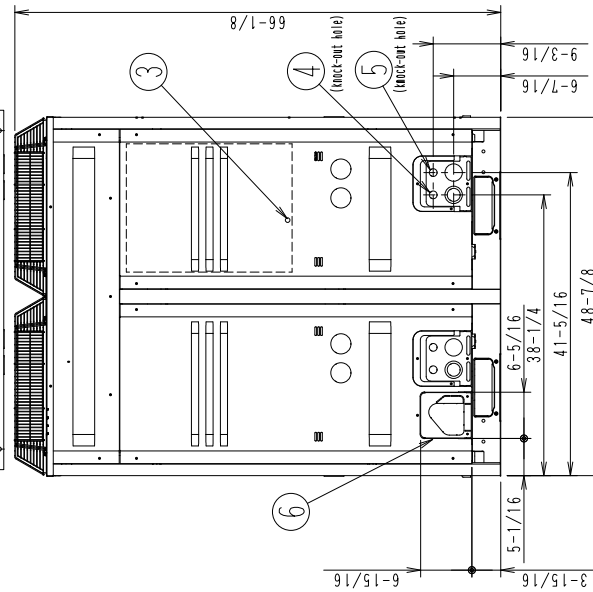
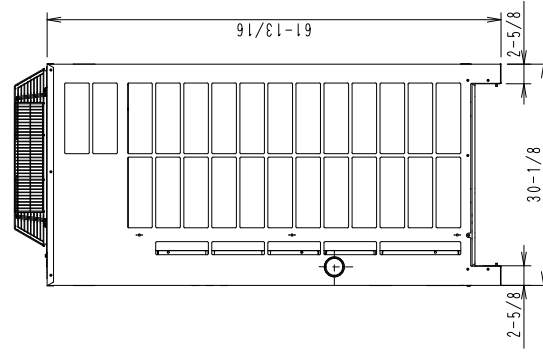
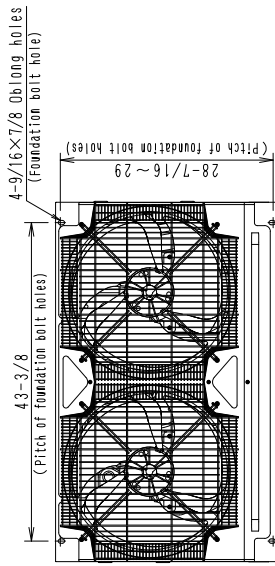
RXYQ96PBTJ / RXYQ120PBTJ

MODEL	AA	BB
RXYQ96PBTJ	4-1/16	7-11/16
RXYQ120PBTJ	3-1/4	6-7/8



DETAIL FOR BOTTOM SIDE

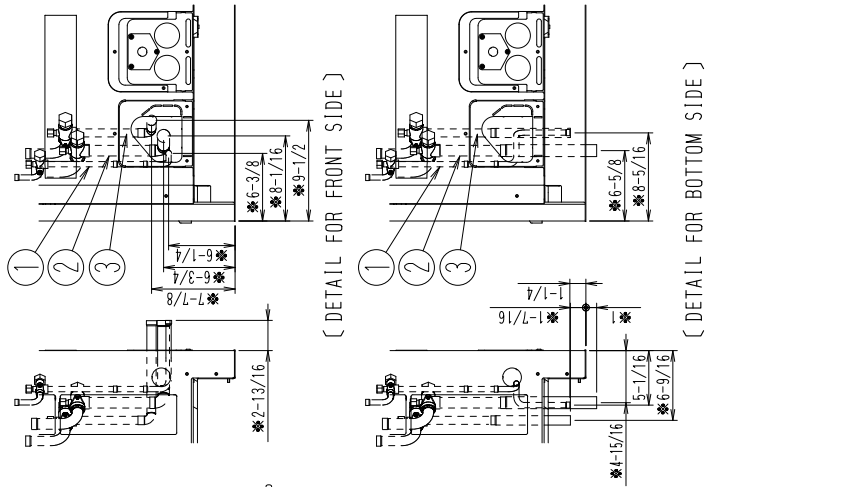
No.	Parts name	Remarks
7	Pipe routing hole(bottom)	
6	Pipe routing hole(front)	
5	Transmission wire routing hole	
4	Power supply wire routing hole	
3	Grounding terminal	Inside of switch box(W)
2	Gas pipe connection port	See note 2.
1	Liquid pipe connection port	See note 2.



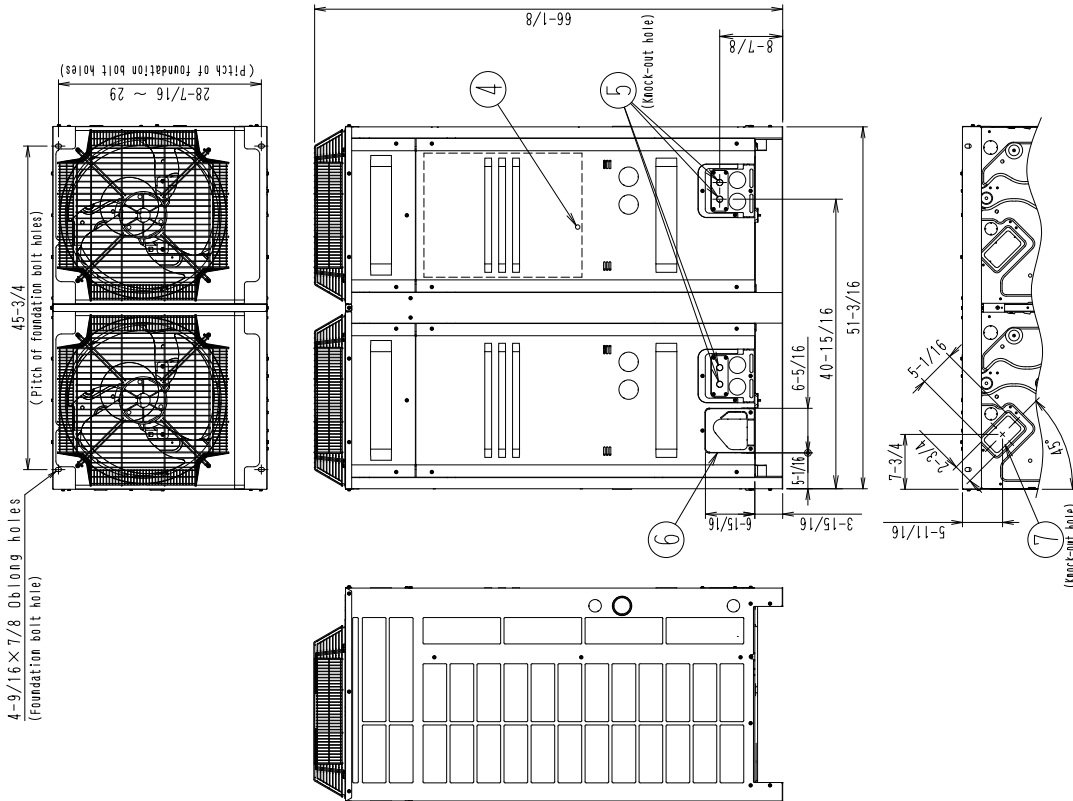
Notes)
 1. DETAIL FOR FRONT SIDE AND DETAIL FOR BOTTOM SIDE INDICATE THE DIMENSIONS AFTER FIXING THE ATTACHED PIPING.
 2. Gas pipe φ1-1/8 Brazing connection--RXYQ120PBTJ, TJ
 φ1-1/8 Brazing connection--RXYQ96PBTJ, TJ
 Liquid pipe φ7/8 Brazing connection--RXYQ96PBTJ, TJ
 φ7/8 Brazing connection--RXYQ120PBTJ, TJ
 φ3/8 Brazing connection--RXYQ96PBTJ, TJ

3D070518A

RXYQ144PBTJ



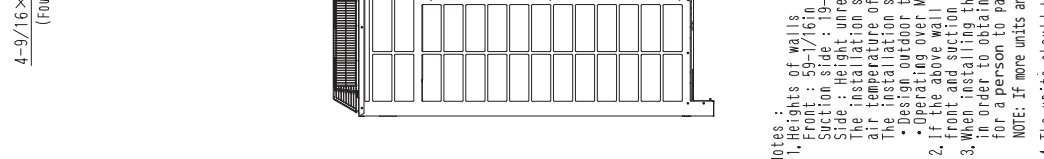
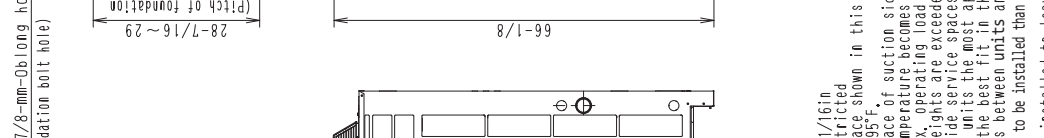
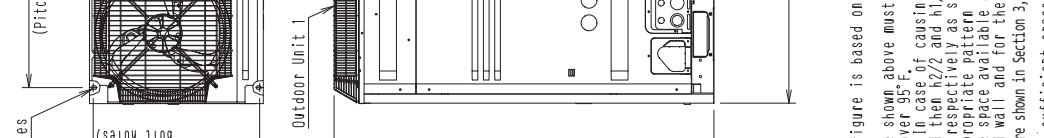
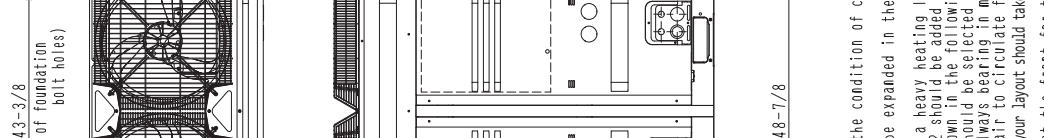
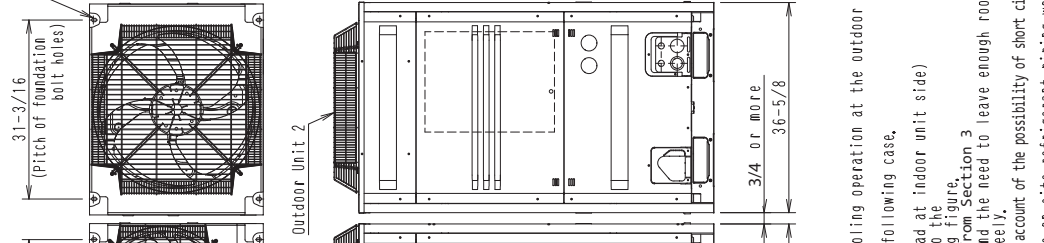
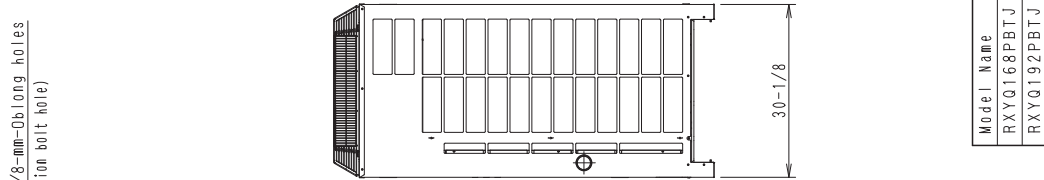
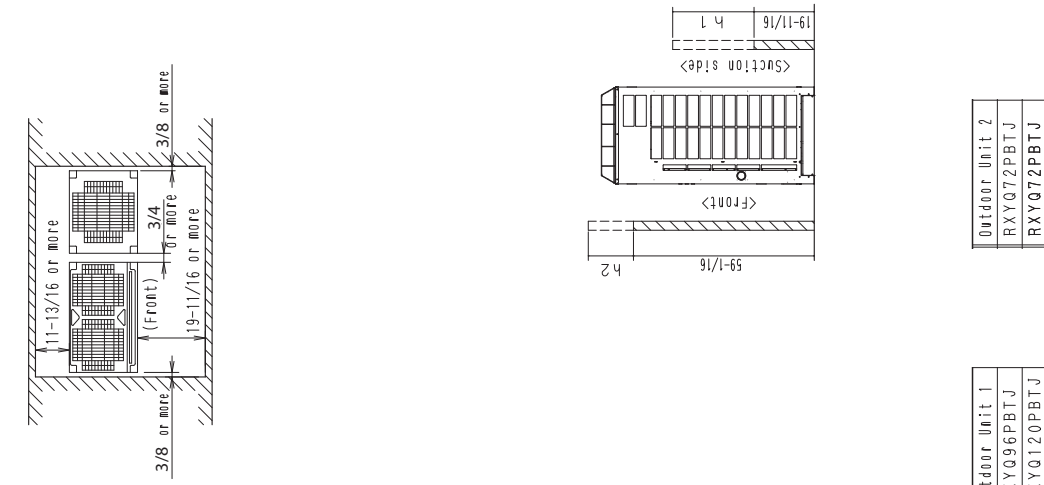
- (Notes)
- For piping connection method (front and bottom sides), see the installation manual.
 - High and low pressure gas pipe
 φ5/8 Brazing connection--REY072P
 φ3/4 Brazing connection--REY096, 120P
 φ7/8 Brazing connection--REY0144P
 Gas pipe
 φ1-1/8 Brazing connection--RXY0144P
 Suction gas pipe
 φ3/4 Brazing connection--REY072P
 φ7/8 Brazing connection--REY096P
 φ1-1/8 Brazing connection--REY020, 144P
 Liquid pipe
 φ3/8 Brazing connection--REY072, 96P
 φ1/2 Brazing connection--REY020, 144P, RXY0144P
 - * shows the dimensions after fixing the accessory pipes.



7	Pipe routing hole (bottom)	See note 1.
6	Pipe routing hole (front)	See note 1.
5	Power cord routing hole (front)	φ 7/8
4	Grounding terminal	Inside of el. comp. box(WD)
3	Gas pipe connection port (Only for RXY0144P)	See note 2.
3	High and low pressure gas pipe connection port	See note 2.
2	Suction gas pipe connection port	See note 2.
1	Liquid pipe connection port	See note 2.
No.	Parts Name	Remarks

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RXYQ168PBTJ / RXYQ192PBTJ



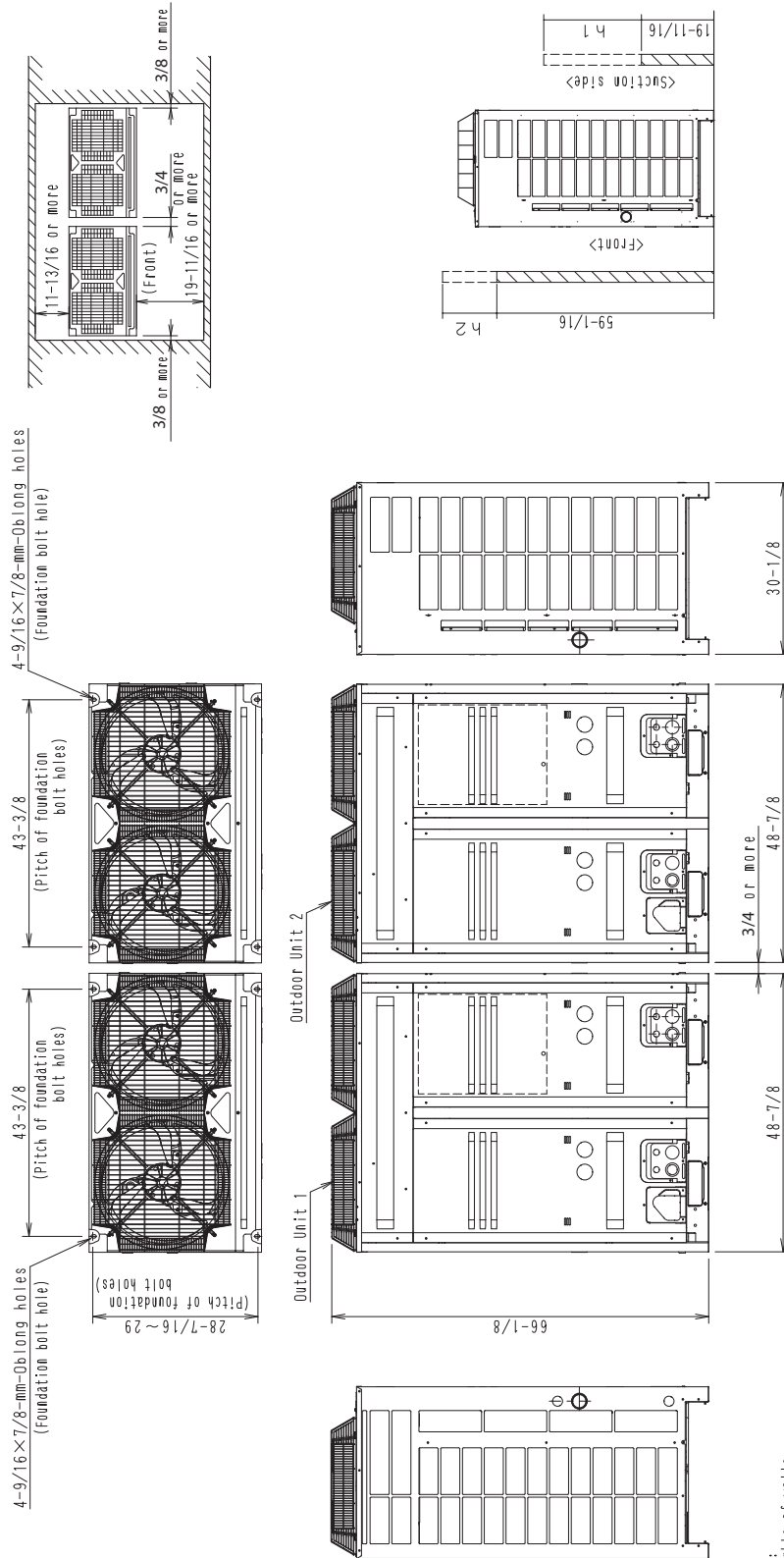
- Notes:
1. Heights of walls: Suction side: 19-11/16in Side Height unrestricted The installation space, clear air temperature of 55°F. The installation space of suction side shown above must be expanded in the following case.
 - Operating over Max. operating load (in case of causing a heavy heating load at indoor unit side)
 2. If the above wall heights are exceeded, then h1/2 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 Section 3 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.
- NOTE: If more units are to be installed than are shown in Section 3, your layout should take account of the possibility of short circuiting. The units should be installed to leave sufficient space at the front for the on site refrigerant piping work to be carried out comfortably.

Model Name	Outdoor Unit 1
RXYQ168PBTJ	RXYQ96PBTJ
RXYQ192PBTJ	RXYQ120PBTJ

Model Name	Outdoor Unit 2
RXYQ168PBTJ	RXYQ72PBTJ
RXYQ192PBTJ	RXYQ72PBTJ

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RXYQ216PBTJ / RXYQ240PBTJ



Outdoor Unit 2
RXYQ96PBTJ
RXYQ120PBTJ

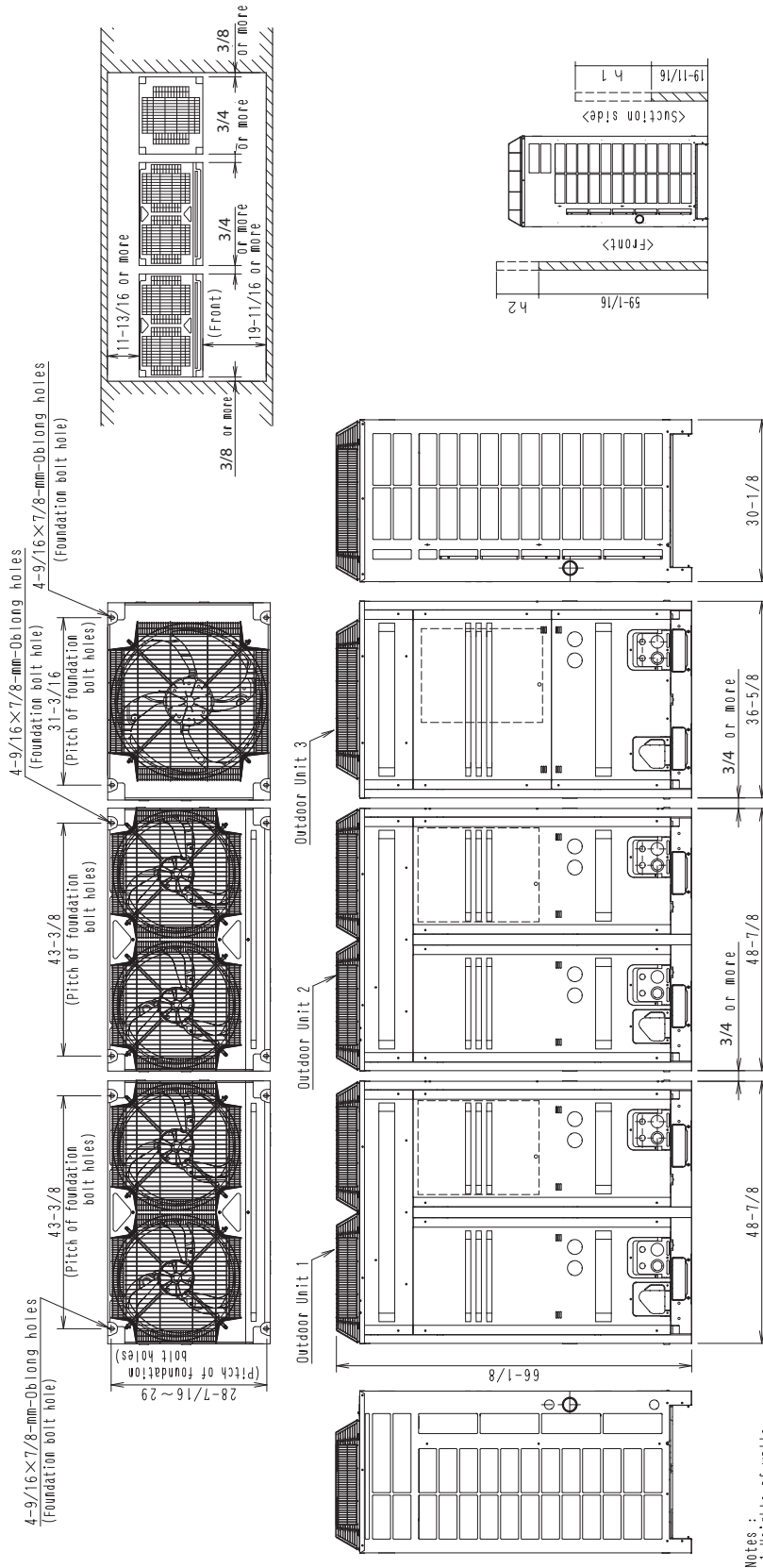
Outdoor Unit 1	Outdoor Unit 2
RXYQ216PBTJ	RXYQ120PBTJ
RXYQ240PBTJ	RXYQ120PBTJ

Notes :

- Heights of walls
 - Front : 59-1/16in
 - Suction side : 19-11/16in
 - 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°F.
 - The installation space of suction side shown above must be expanded in the following case.
 - Design outdoor temperature becomes over 95°F.
 - 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 Section 3 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.
- NOTE: If more units are to be installed than are shown in Section 3, your layout should take account of the possibility of short circuiting.
- The units should be installed to leave sufficient space at the front for the on site refrigerant piping work to be carried out comfortably.

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RXYQ264PBTJ / RXYQ288PBTJ / RXYQ312PBTJ



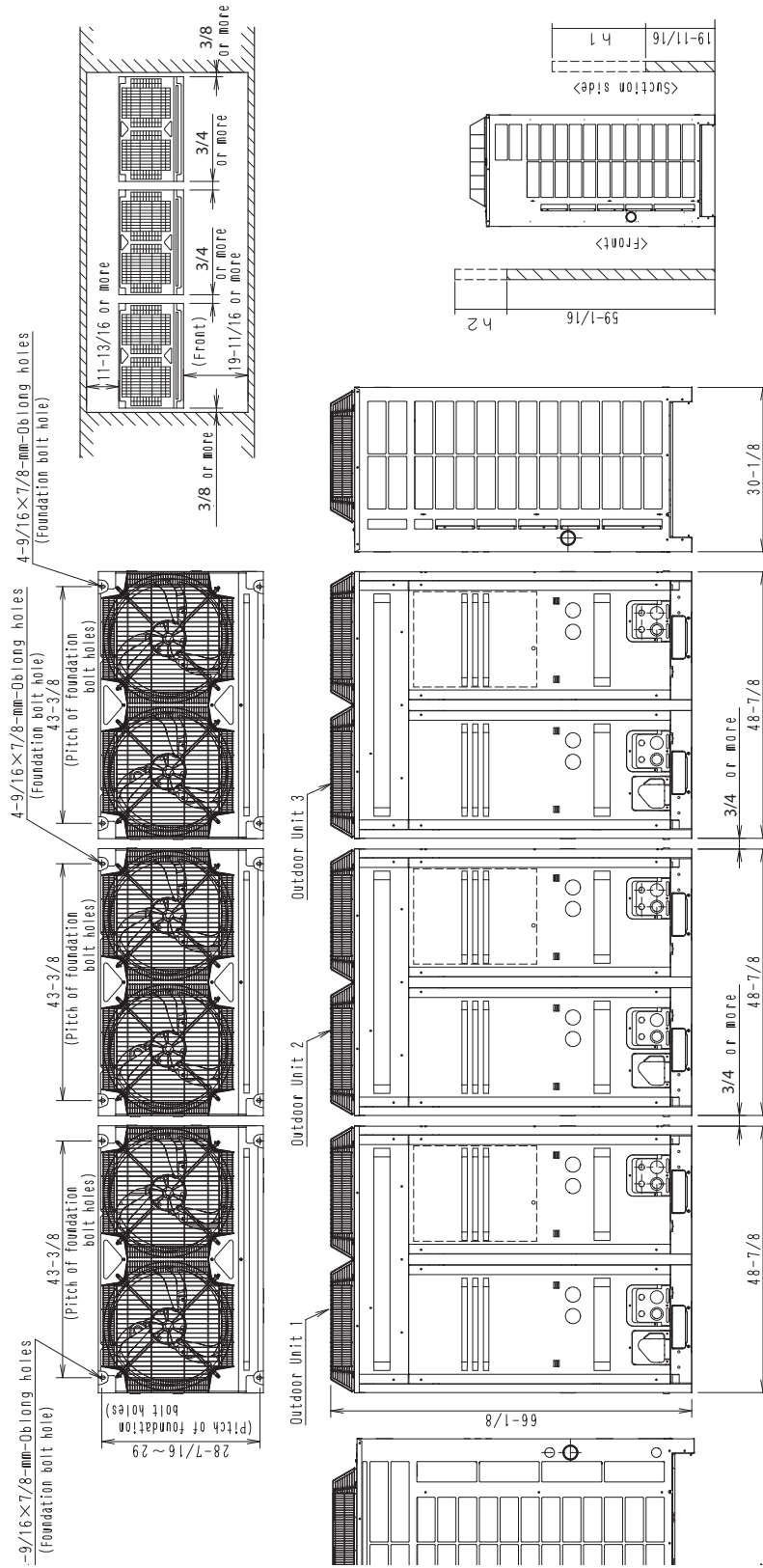
Outdoor Unit 3
RXYQ264PBTJ
RXYQ288PBTJ
RXYQ312PBTJ

Outdoor Unit 2
RXYQ264PBTJ
RXYQ288PBTJ
RXYQ312PBTJ

Outdoor Unit 1
RXYQ264PBTJ
RXYQ288PBTJ
RXYQ312PBTJ

C: 3D070854

RXYQ336PBTJ / RXYQ360PBTJ

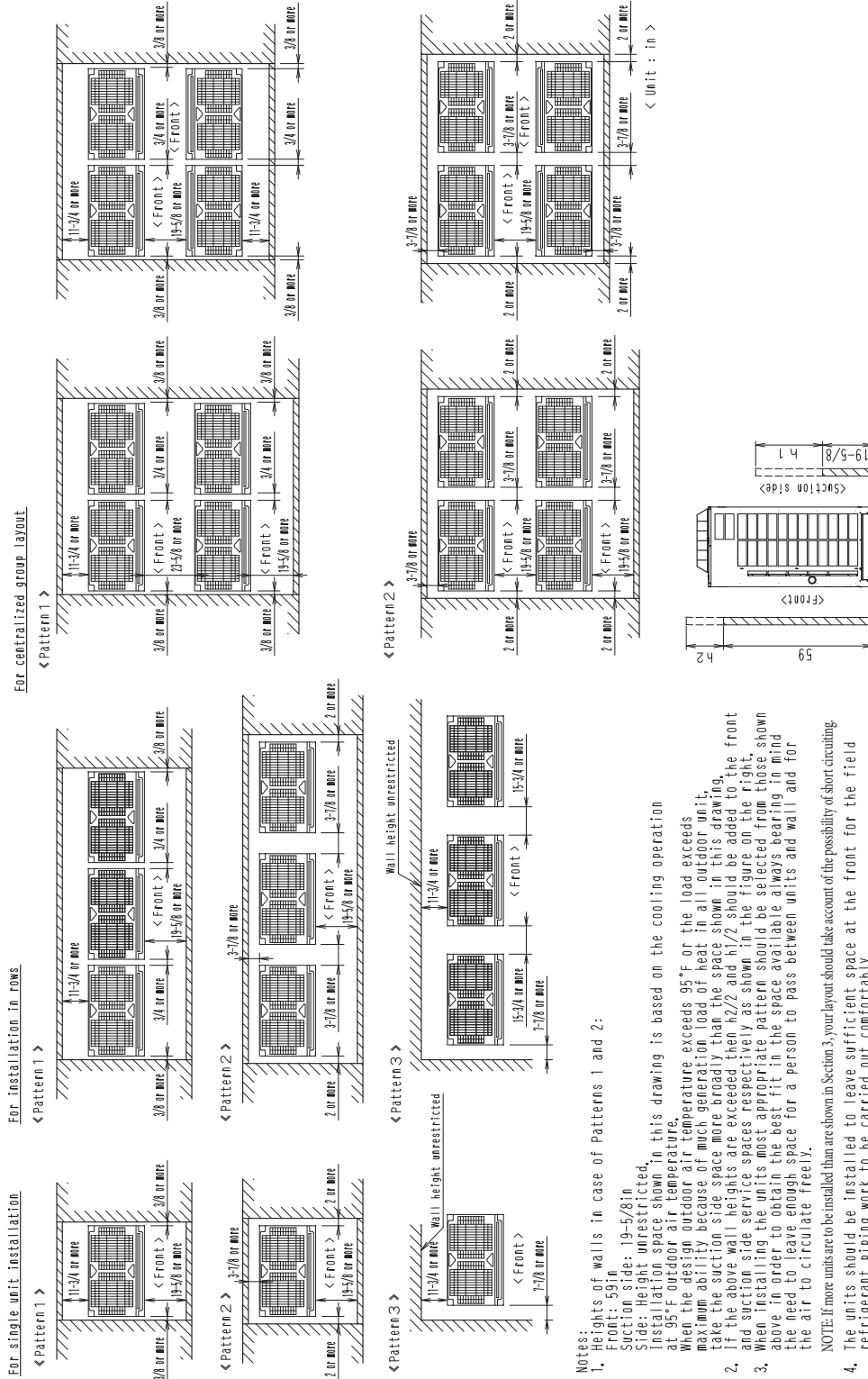


Notes of walls
 1: Height of walls
 2: Height of walls
 3: Height of walls
 Installation space shown in this figure is based on the condition of cooling operation at the outdoor
 temperature of 95°F.
 Installation space of suction side shown above must be expanded in the following case.
 1: When outdoor temperature becomes over 95°F.
 2: When operating over Max. operating load (in case of causing a heavy heating load at indoor unit side)
 3: When the above wall heights are exceeded (then h2/2 and h1/2 should be added to the
 4: When the above suction side service spaces respectively as shown in the following figure.
 5: When installing the units the most appropriate pattern should be selected from Section 3
 6: 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.
 7: If more units are to be installed than are shown in Section 3, your layout should take account of the possibility of short-circuiting.
 8: Units should be installed to leave sufficient space at the front for the on site refrigerant piping work
 to be carried out comfortably.

C: 3D070857

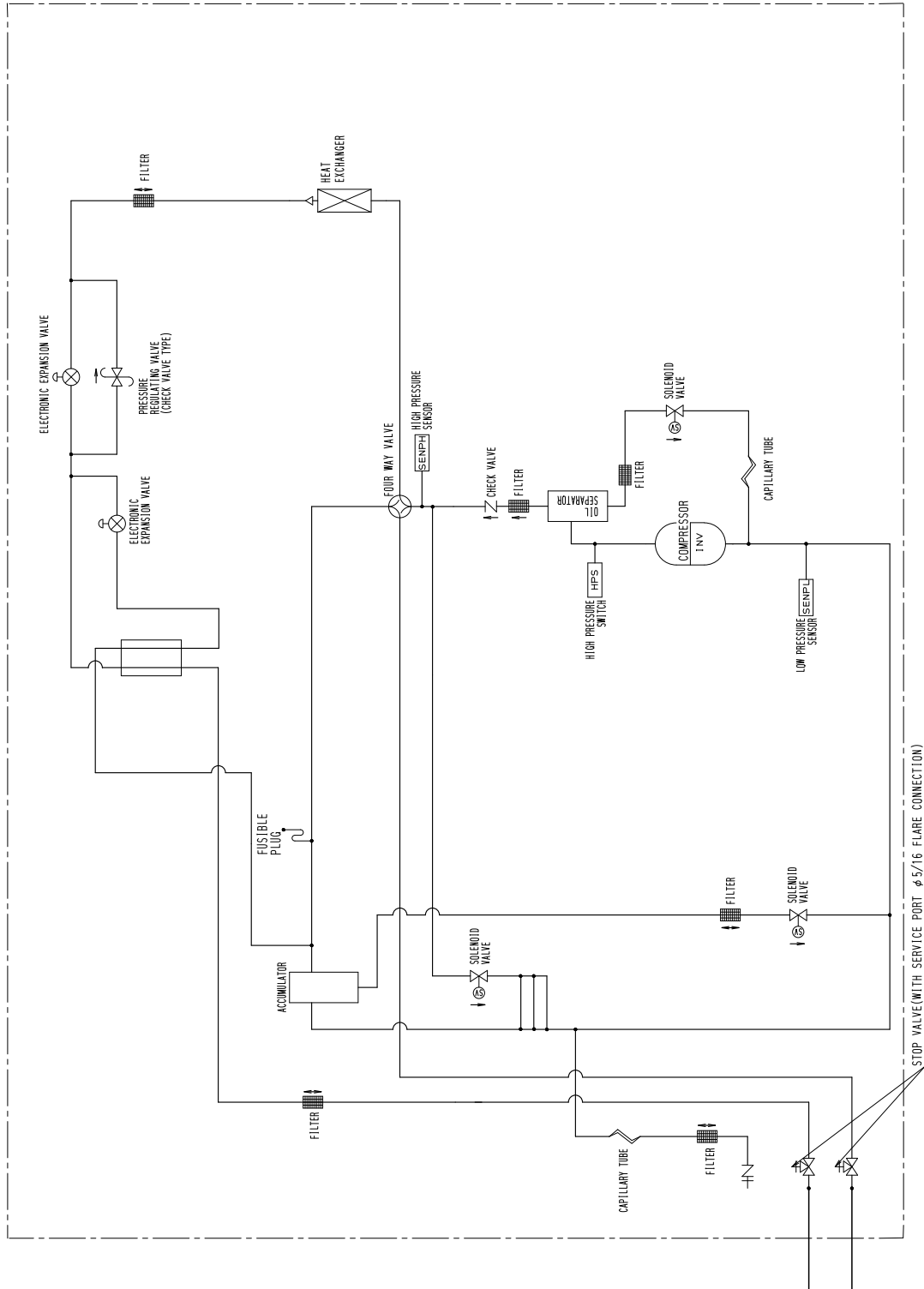
3. Service Space

RXYQ72PBTJ / RXYQ96PBTJ / RXYQ120PBTJ / RXYQ144PBTJ / RXYQ168PBTJ / RXYQ192PBTJ / RXYQ216PBTJ / RXYQ240PBTJ / RXYQ264PBTJ / RXYQ288PBTJ / RXYQ312PBTJ / RXYQ336PBTJ / RXYQ360PBTJ



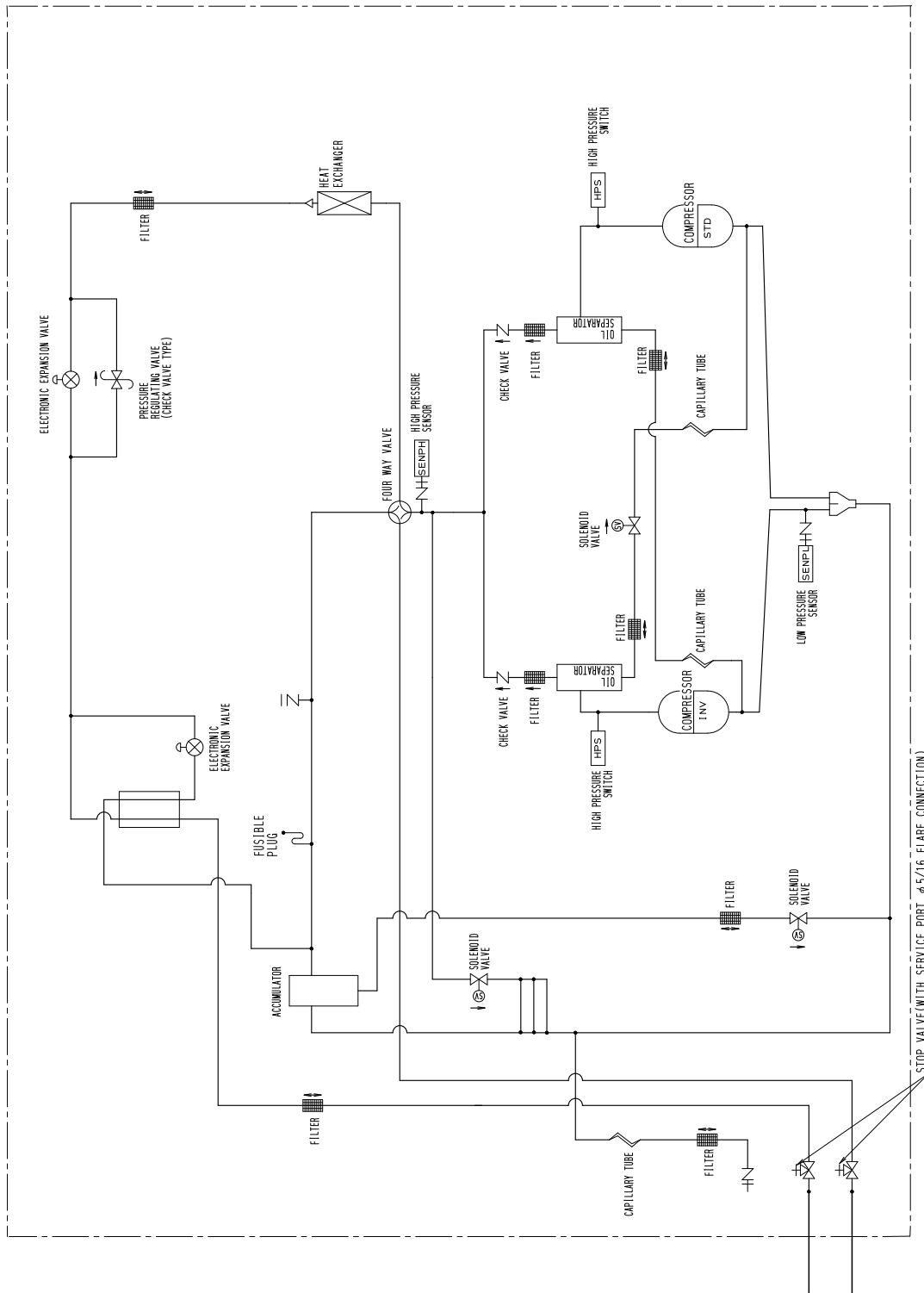
4. Piping Diagrams

RXYQ72PBTJ



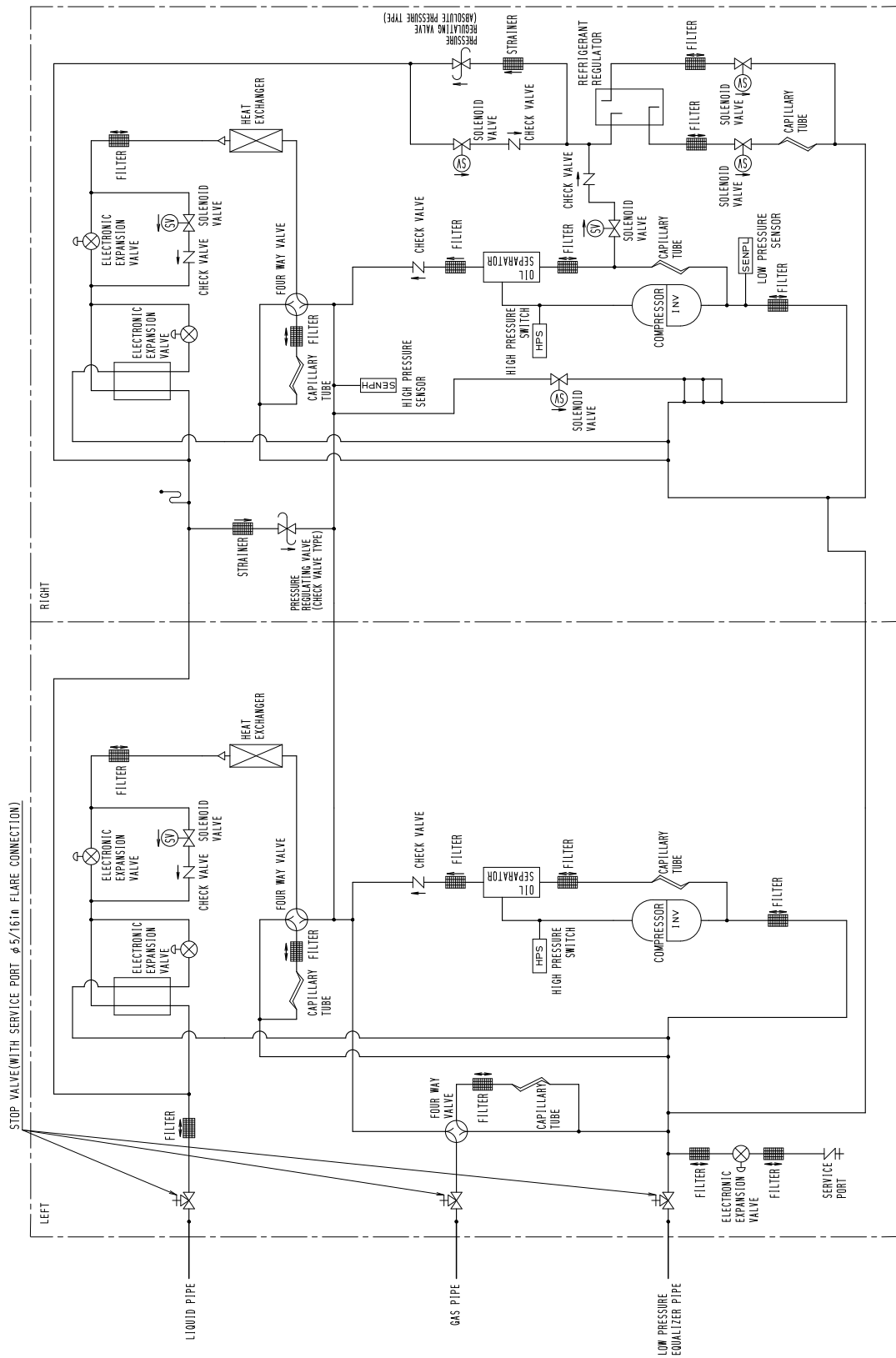
3D070507

RXYQ96PBTJ / RXYQ120PBTJ



3D070508

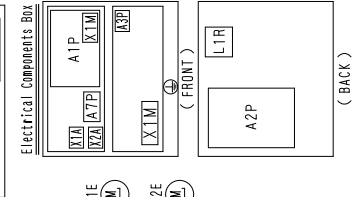
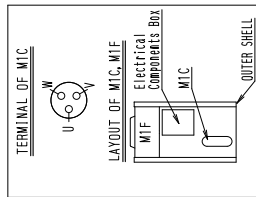
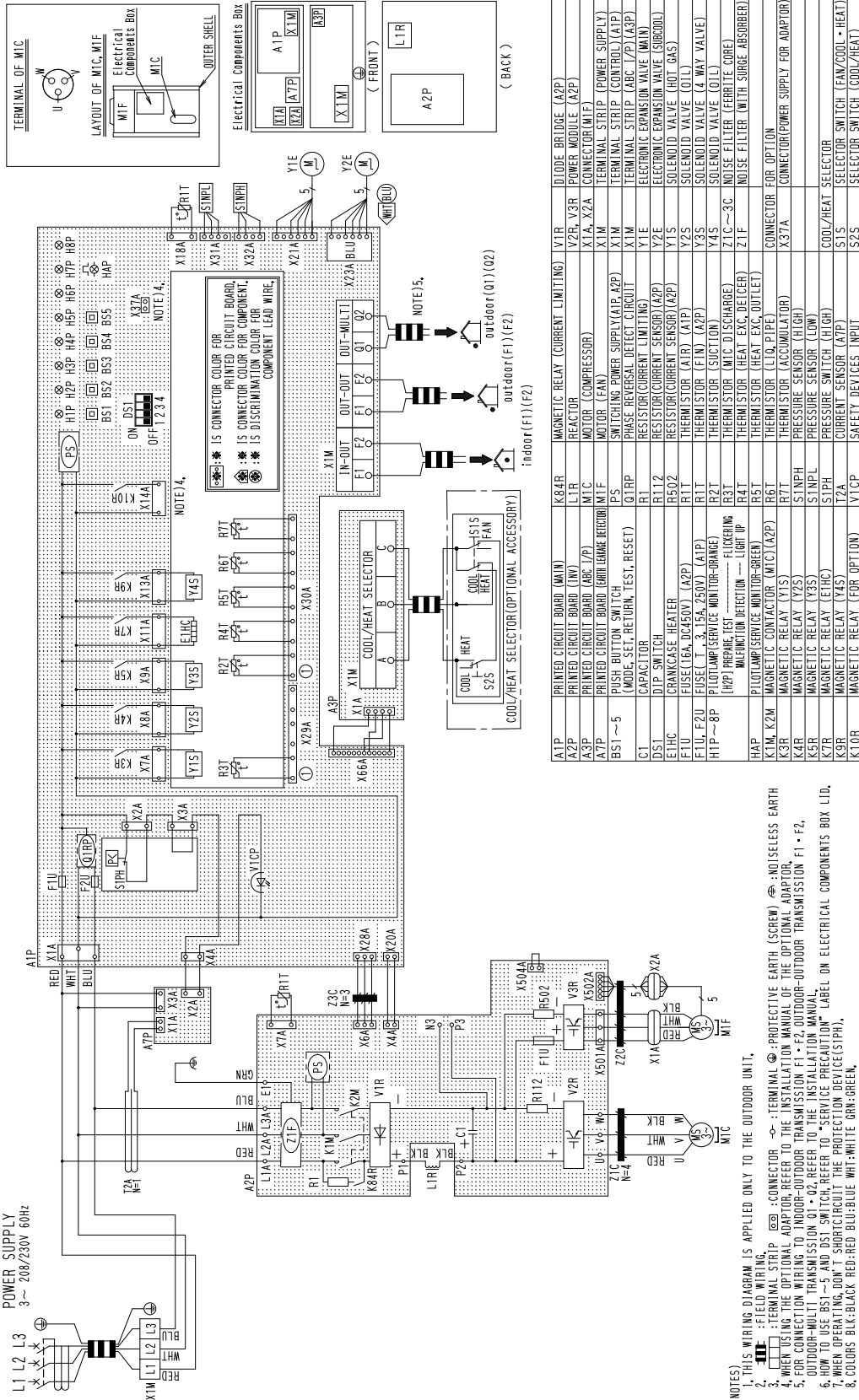
RXYQ144PBTJ



3D058640A

5. Wiring Diagrams

RXYQ72PBTJ



A1P	PRINTED CIRCUIT BOARD (MAIN)	K84R	MAGNETIC RELAY (CURRENT LIMITING)	V1R	DIODE BRIDGE (A2P)
A2P	PRINTED CIRCUIT BOARD (HW)	L1R	REACTOR	V2R, V3R	POWER MODULE (A2P)
A3P	PRINTED CIRCUIT BOARD (ABC./P)	M1C	MOTOR (COMPRESSOR)	X1A, X2A	CONNECTOR (MIF)
A7P	PRINTED CIRCUIT BOARD (EARTH LEAK DETECTOR)	M1F	MOTOR (FAN)	X1M	TERMINAL STRIP (POWER SUPPLY)
B51~5	PUSH BUTTON SWITCH (MODE, SET, RETURN, TEST, RESET)	P5	SWITCHING POWER SUPPLY (A1P, A2P)	X1M	TERMINAL STRIP (CONTROL) (A1P)
C1	CAPACITOR	R1	PHASE REVERSAL DETECT. CIRCUIT	X1M	TERMINAL STRIP (ABC./P) (A3P)
DS1	DIP SWITCH	R112	RESISTOR (CURRENT LIMITING)	Y1E	ELECTRONIC EXPANSION VALVE (SUBCOOL)
E1HC	CRANKCASE HEATER	R502	RESISTOR (CURRENT SENSOR) (A2P)	Y2E	ELECTRONIC EXPANSION VALVE (MAIN)
F1U, F2U	FUSE (1A, 2A, 2.5A, 250V) (A1P)	R11	THERMISTOR (A1P) (A2P)	Y2S	SOLENOID VALVE (HOT GAS)
F1P, F2P	FUSE (1A, 2A, 2.5A, 250V) (A1P)	R21	THERMISTOR (A1P) (A2P)	Y3S	SOLENOID VALVE (4-WAY VALVE)
H1P~8P	PILOT LAMP (SERVICE MONITOR-RANGE) (A1P)	R31	THERMISTOR (MTC DISCHARGE)	Y4S	SOLENOID VALVE (OLI)
HAP	PILOT LAMP (SERVICE MONITOR-GREEN)	R51	THERMISTOR (HEAT EXC. OUTLET)	Z1F	NOISE FILTER (FERRITE CORE)
K1M, K2M	MAGNETIC CONTACTOR (MTC) (A2P)	R61	THERMISTOR (L1/G PIPE)	X37A	CONNECTOR (FOR OPTION)
K3R	MAGNETIC RELAY (Y1S)	R71	THERMISTOR (ACCUMULATOR)	X37A	CONNECTOR (FOR OPTION)
K4R	MAGNETIC RELAY (Y2S)	S1NPH	PRESSURE SENSOR (HIGH)	S1S	SELECTOR SWITCH (FAN/COOL/HEAT)
K5R	MAGNETIC RELAY (Y3S)	S1NPL	PRESSURE SENSOR (LOW)	S2S	SELECTOR SWITCH (COOL/HEAT)
K7R	MAGNETIC RELAY (E1HC)	T2A	CURRENT SENSOR (A7P)		
K9R	MAGNETIC RELAY (FOR OPTION)	V1CP	SAFETY DEVICES INPUT		
K10R	MAGNETIC RELAY (FOR OPTION)				

- NOTES)
1. THIS WIRING DIAGRAM IS APPLIED ONLY TO THE OUTDOOR UNIT.
 2. : FIELD WIRING.
 3. : TERMINAL STRIP.
 4. : CONNECTOR (SCREW) - PROTECTIVE EARTH (SCREW) - NOISELESS EARTH ADAPTOR. REFER TO THE INSTALLATION MANUAL OF THE OPTIONAL ADAPTOR.
 5. FOR CONNECTION WIRING TO INDOOR-OUTDOOR TRANSMISSION F1 • F2, OUTDOOR-OUTDOOR TRANSMISSION F1 • F2, OUTDOOR-MULTI TRANSMISSION Q1 • Q2, REFER TO THE INSTALLATION MANUAL.
 6. HOW TO USE B51~5 AND DS1 SWITCH, REFER TO "SERVICE PRECAUTION" LABEL ON ELECTRICAL COMPONENTS BOX LID.
 7. WHEN OPERATING, DON'T SHORT CIRCUIT THE PROTECTION DEVICES (S1PH).
 8. COLORS: BLK:BLACK; RED:RED; BLU:BLUE; WHI:WHITE; GRN:GREEN.

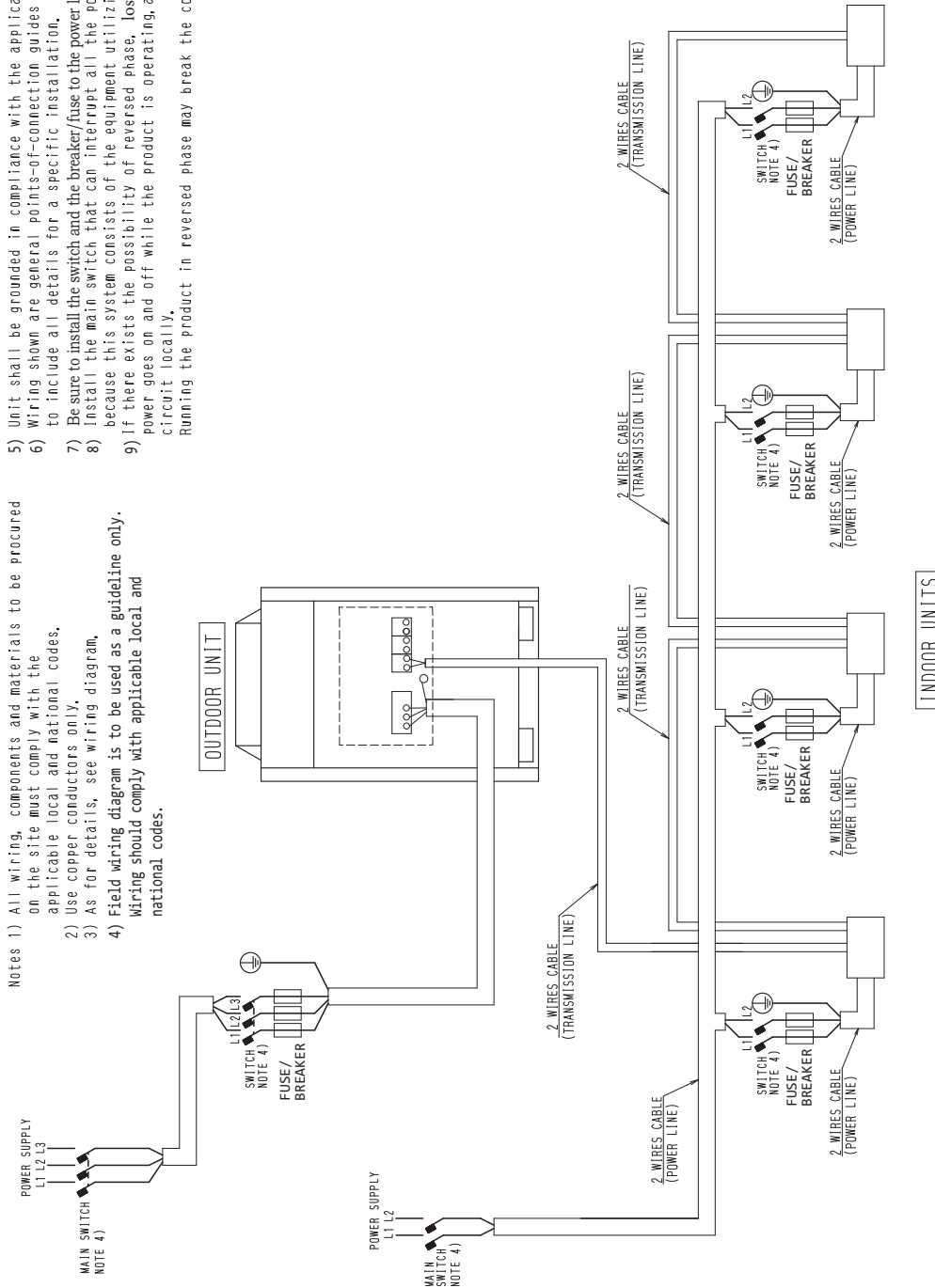
3D070456B

6. Field Wiring

RXYQ72PBTJ / RXYQ96PBTJ / RXYQ120PBTJ / RXYQ144PBTJ

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

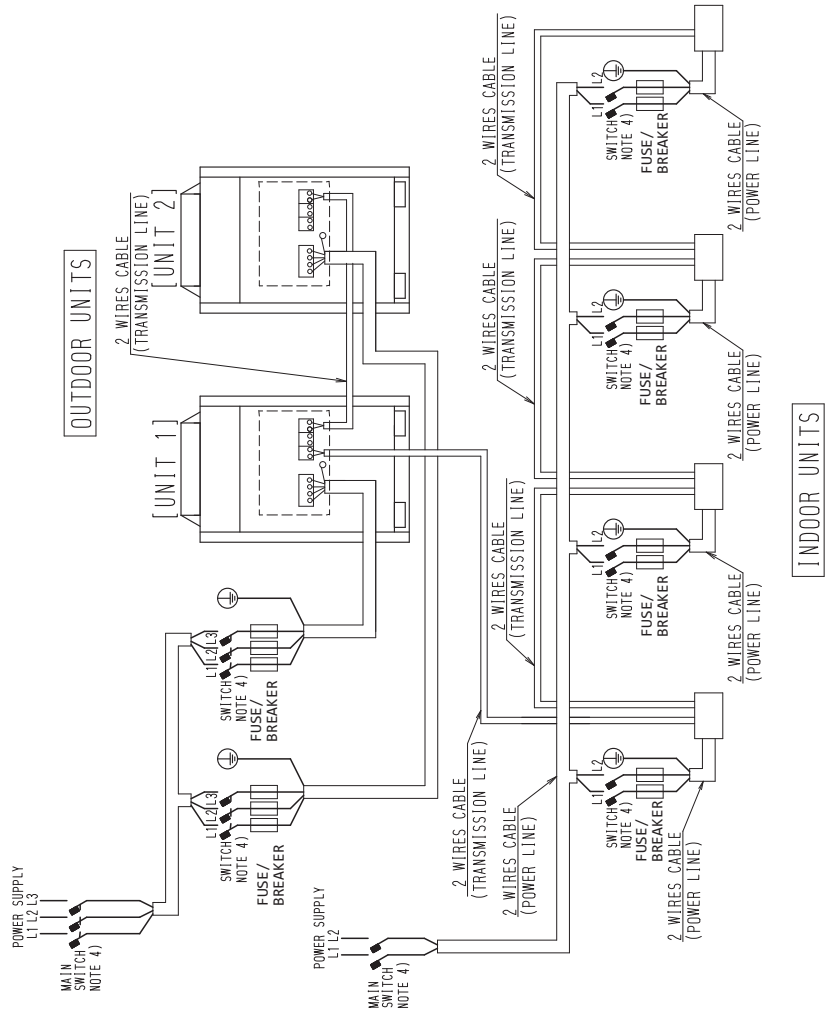
Running the product in reversed phase may break the compressor and other parts.



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RXYQ168PBTJ / RXYQ192PBTJ / RXYQ216PBTJ / RXYQ240PBTJ

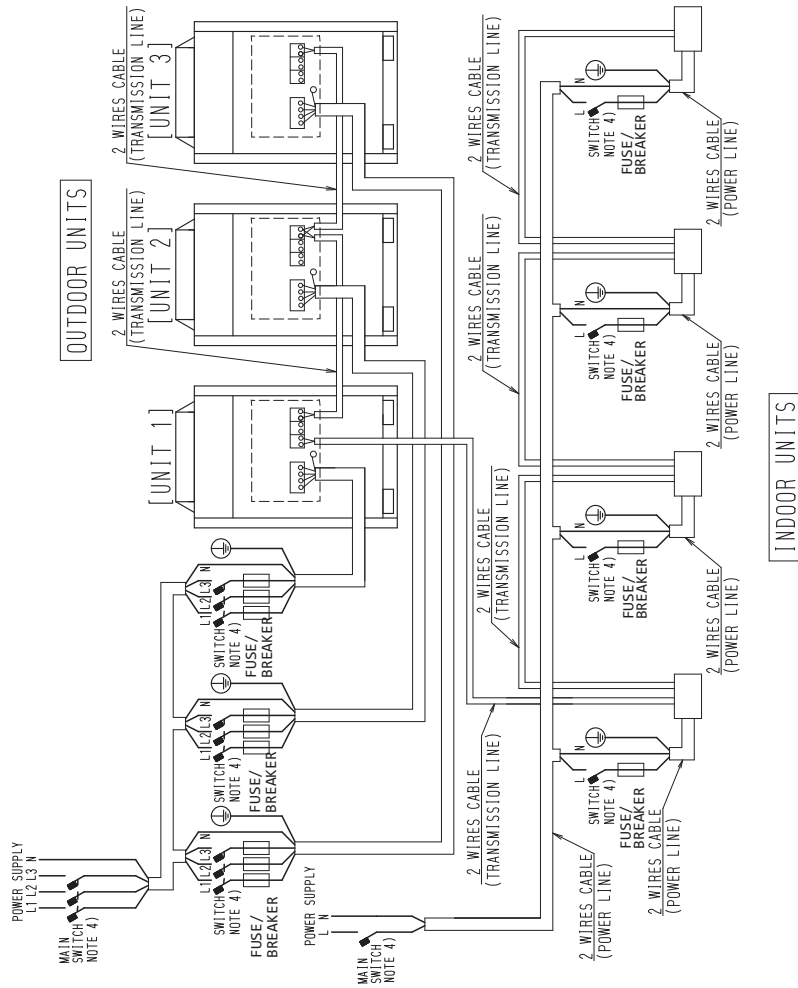
- Notes 1) All wiring, components and materials to be procured on the site must comply with the applicable local and national codes, use copper conductors only.
- 2) As for details, see wiring diagram.
- 3) Field wiring diagram is to be used as a guideline only. Wiring should comply with applicable local and national codes.
- 4) Unit shall be grounded in compliance with the applicable local and national codes, to include all details for a specific installation.
- 5) Be sure to install the switch and the breaker/fuse to the power line of each piece of equipment.
- 6) Install the main switch that can interrupt all the power sources in an integrated manner because this system consists of the equipment utilizing multiple power sources.
- 7) If there exists the possibility of reversed phase, momentary blackout or power goes on and off while the product is operating, attach a reversed phase protection circuit locally.
- 8) Running the product in reversed phase may break the compressor and other parts.



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RXYQ264PBTJ / RXYQ288PBTJ / RXYQ312PBTJ / RXYQ336PBTJ / RXYQ360PBTJ

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

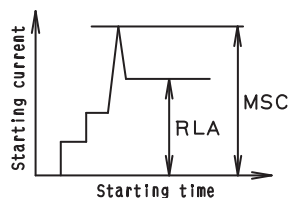


3D070846

7. Electric Characteristics

Model Name	Units				Power Supply		Comp.		OFM	
	Hz	Volts	Min	Max	MCA	MOP	MSC	RLA	KW	FLA
RXYQ72PBTJ	60	208/230	187	253	30	35	-	14.2	0.75	1.2
RXYQ96PBTJ	60	208/230	187	253	43	50	131	7.8 + 16.8	0.35 x 2	1.0 x 2
RXYQ120PBTJ	60	208/230	187	253	43	50	131	10.8 + 16.8	0.35 x 2	1.0 x 2
RXYQ144PBTJ	60	208/230	187	253	72.2	80	-	14.3 + 14.3	0.75 x 2	2.0 x 2

The relationship between the starting time and the starting current:



NOTES:

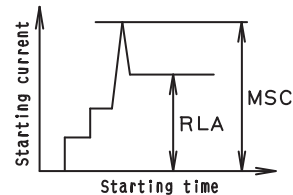
- RLA is based on the following conditions:
Indoor temp: 80° FDB / 67° FWB
Outdoor temp: 95° FDB
- MSC means the maximum current during the starting of the compressor.
- Voltage range:
Units are suitable for use on electrical systems where voltage supplied to unit terminal is not below or above listed range limits.
- Maximum allowable voltage variation between phases is 2%.
- Select wire size based on the value of MCA.
- MOP is used to select the fuse, circuit breaker, or the ground fault circuit interrupter (ground leakage circuit breaker).

SYMBOLS:

- MCA: Minimum Circuit Amps. (A)
MOP: Maximum Overcurrent Protective Device (A) (See Note 6)
MSC: Maximum current when starting the compressor. (A)
RLA: Rate Load Amps (A)
OFM: Outdoor Fan Motor (A)
FLA: Full Load Amps (A)
KW: Fan Motor Rated Output

Model Name			Units				Power Supply		Comp.		OFM	
Combination Unit	Independent Units		Hz	Volt	Min	Max	MCA	MOP	MSC	RLA	KW	FLA
RXYQ168PBTJ	RXYQ72PBTJ	RXYQ96PBTJ	60	208/230	187	253	30 + 43	35+50	139	14.2 + 7.8 + 16.8	0.75 + (0.35 x 2)	1.2 + (1.0 x 2)
RXYQ192PBTJ	RXYQ72PBTJ	RXYQ120PBTJ	60	208/230	187	253	30 + 43	35+50	140	14.2 + 10.8 + 16.8	0.75 + (0.35 x 2)	1.2 + (1.0 x 2)
RXYQ216PBTJ	RXYQ96PBTJ	RXYQ120PBTJ	60	208/230	187	253	43 + 43	50+50	158	7.8 + 16.8 + 10.8 + 16.8	(0.35 x 2) + (0.35 x 2)	(1.0 x 2) + (1.0 x 2)
RXYQ240PBTJ	RXYQ120PBTJ	RXYQ120PBTJ	60	208/230	187	253	43 + 43	50+50	159	10.8 + 16.8 + 10.8 + 16.8	(0.35 x 2) + (0.35 x 2)	(1.0 x 2) + (1.0 x 2)

The relationship between the starting time and the starting current:



NOTES:

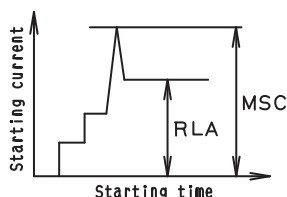
1. RLA is based on the following conditions:
Indoor temp: 80° FDB / 67° FWB
Outdoor temp: 95° FDB
2. MSC means the maximum current during the starting of the compressor.
3. Voltage range:
Units are suitable for use on electrical systems where voltage supplied to unit terminal is not below or above listed range limits.
4. Maximum allowable voltage variation between phases is 2%.
5. Select wire size based on the value of MCA.
6. MOP is used to select the fuse, circuit breaker, or the ground fault circuit interrupter (ground leakage circuit breaker).

SYMBOLS:

- MCA: Minimum Circuit Amps. (A)
MOP: Maximum Overcurrent Protective Device (A) (See Note 6)
MSC: Maximum current when starting the compressor. (A)
RLA: Rate Load Amps (A)
OFM: Outdoor Fan Motor (A)
FLA: Full Load Amps (A)
KW: Fan Motor Rated Output

Model Name				Units				Power Supply			Comp.	OFM	
Combination Unit	Independent Units			Hz	Volts	Min	Max	MCA	MOP	MSC	RLA	KW	FLA
RXYQ264PBTJ	RXYQ72PBTJ	RXYQ96PBTJ	RXYQ96PBTJ	60	208/ 230	187	253	30 + 43 + 43	35+50+50	165	$14.2 + (7.8 + 16.8) \times 2$	$0.75 + (0.35 \times 2) \times 2$	$1.2 + (1.0 \times 2) \times 2$
RXYQ288PBTJ	RXYQ72PBTJ	RXYQ96PBTJ	RXYQ120PBTJ	60	208/ 230	187	253	30 + 43 + 43	35+50+50	166	$14.2 + 7.8 + 16.8 + 10.8 + 16.8$	$0.75 + (0.35 \times 2) \times 2$	$1.2 + (1.0 \times 2) \times 2$
RXYQ312PBTJ	RXYQ72PBTJ	RXYQ120PBTJ	RXYQ120PBTJ	60	208/ 230	187	253	30 + 43 + 43	35+50+50	167	$14.2 + \frac{(10.8 + 16.8)}{2}$	$0.75 + (0.35 \times 2) \times 2$	$1.2 + (1.0 \times 2) \times 2$
RXYQ336PBTJ	RXYQ96PBTJ	RXYQ120PBTJ	RXYQ120PBTJ	60	208/ 230	187	253	43 + 43 + 43	50+50+50	184	$7.8 + 16.8 + \frac{(10.8 + 16.8)}{2}$	$(0.35 \times 2) \times 3$	$(1.0 \times 2) \times 3$
RXYQ360PBTJ	RXYQ120PBTJ	RXYQ120PBTJ	RXYQ120PBTJ	60	208/ 230	187	253	43 + 43 + 43	50+50+50	186	$(10.8 + (16.8) \times 3)$	$(0.35 \times 2) \times 3$	$(1.0 \times 2) \times 3$

The relationship between the starting time and the starting current:



NOTES:

1. RLA is based on the following conditions:
 Indoor temp: 80° FDB / 67° FWB
 Outdoor temp: 95° FDB
2. MSC means the maximum current during the starting of the compressor.
3. Voltage range:
 Units are suitable for use on electrical systems where voltage supplied to unit terminal is not below or above listed range limits.
4. Maximum allowable voltage variation between phases is 2%.
5. Select wire size based on the value of MCA.
6. MOP is used to select the fuse, circuit breaker or the ground fault circuit interrupter (ground leakage circuit breaker).

SYMBOLS:

- MCA: Minimum Circuit Amps. (A)
- MOP: Maximum Overcurrent Protective Device (A) (See Note 6)
- MSC: Maximum current when starting the compressor. (A)
- RLA: Rate Load Amps (A)
- OFM: Outdoor Fan Motor (A)
- FLA: Full Load Amps (A)
- KW: Fan Motor Rated Output

RXYQ96PBTJ

Table with columns: Combination, Outdoor air temp., Indoor air temp. *FWB (57, 61, 64, 67, 70, 72, 75). Rows include values for 130, 120, 110, and 100.

Table with columns: Combination, Outdoor air temp., Indoor air temp. *FWB (57, 61, 64, 67, 70, 72, 75). Rows include values for 130, 120, 110, and 100.

TC: Total capacity ; MBH
PI: Power Input ; kW (Comp.+Outdoor fan motor)
Note1: is shown as reference.
Note2: The above table shows the average value of conditions which may occur.

RXYQ120PBTJ

Capacity tables for RXYQ120PBTJ heat pump. The table is organized into four main sections based on indoor air temperature (°FWB) and outdoor air temperature (°FDB). Each section contains a grid of TC (Total Capacity) and PI (Power Input) values for various indoor and outdoor conditions. The indoor air temperature ranges from 57°F to 75°F, and the outdoor air temperature ranges from 23°F to 122°F. The table is divided into four quadrants: 130 (top-left), 90 (top-right), 120 (bottom-left), and 80 (bottom-right). Each quadrant has a sub-section for indoor air temperatures of 57, 61, 64, 67, 70, 72, and 75. The TC and PI values are provided in both MBH and kW units. A shaded cell in the 100 section indicates a reference value.

TC: Total capacity ; MBH
PI: Power Input ; kW (Comp.+Outdoor fan motor)
Note1: is shown as reference.

Note2: The above table shows the average value of conditions which may occur.

RXYQ144PBTJ

Main data table with columns for Combination, Outdoor air temp., Indoor air temp. °FWB, and various capacity and power input values. The table is organized into four quadrants based on indoor air temperature (70°F, 72°F, 75°F) and outdoor air temperature (57°F, 61°F, 64°F, 67°F, 70°F).

TC: Total capacity ; MBH
PI: Power Input ; kW (Comp.+Outdoor fan motor)
Note1: is shown as reference.

Note2: The above table shows the average value of conditions which may occur.

RXYQ168PBTJ

Capacity tables for RXYQ168PBTJ heat pump, showing indoor air temp. °FWB and outdoor air temp. °FDB. Includes columns for Combi-nation, Outdoor air temp., and Indoor air temp. °FWB (57, 61, 64, 67, 70, 72, 75). Data is organized into four main sections (130, 120, 110, 100) and further subdivided by Combi-nation and Outdoor air temp. values.

TC: Total capacity ; MBH
PI: Power Input ; kW (Comp.+Outdoor fan motor)
Note1: [shaded] is shown as reference.

Note2: The above table shows the average value of conditions which may occur.

RXYQ216PBTJ

Capacity tables for RXYQ216PBTJ heat pump. The table is organized into four main sections based on indoor air temperature (°FWB) and outdoor air temperature (°FDB). Each section contains a grid of TC (Total Capacity) and PI (Power Input) values for various indoor and outdoor conditions. The grid columns represent indoor air temperature (57, 61, 64, 67, 70, 72, 75) and the rows represent outdoor air temperature (23, 30, 40, 50, 54, 58, 62, 66, 70, 72, 75, 79, 83, 87, 91, 93, 95, 99, 103, 106, 110, 115, 118, 122). The table is divided into four quadrants: top-left (130), top-right (90), bottom-left (120), and bottom-right (80). Each quadrant has its own set of TC and PI columns.

TC: Total capacity ; MBH
PI: Power Input ; kW (Comp.+Outdoor fan motor)
Note1: is shown as reference.

Note2: The above table shows the average value of conditions which may occur.

RXYQ240PBTJ

Combi-nation	Outdoor air temp. °F	Indoor air temp. °FWB																					Combi-nation	Outdoor air temp. °F	Indoor air temp. °FWB																				
		57			61			64			67			70			72			75					57			61			64			67			70			72			75		
		TC	PI	MBH	TC	PI	MBH	TC	PI	MBH	TC	PI	MBH	TC	PI	MBH	TC	PI	MBH	TC	PI	MBH			TC	PI	MBH	TC	PI	MBH	TC	PI	MBH	TC	PI	MBH									
130	23	202	7.05	246	8.78	279	10.1	312	11.5	338	12.5	342	12.2	348	11.9	30	140	4.80	170	5.86	193	6.70	216	7.57	239	8.48	254	9.10	277	10.0	300	10.9	312	11.5	330	12.4	334	12.1	340	11.7					

TC: Total capacity ; MBH
 PI: Power Input ; kW (Comp.+Outdoor fan motor)
 Note1: is shown as reference.

Note2: The above table shows the average value of conditions which may occur.

RXYQ264PBTJ

Combination	Outdoor air temp.	Indoor air temp. °FWB																								Combination	Outdoor air temp.	Indoor air temp. °FWB																																																											
		57						61						64						67								70						72						75						57						61						64						67						70						72						75					
		TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI			TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI																																				
23	223	7.37	271	9.19	307	10.6	343	12.1	371	13.1	376	12.8	383	12.4	23	154	5.03	188	6.13	213	7.01	238	7.92	263	8.87	279	9.52	304	10.5	23	154	5.03	188	6.13	213	7.01	238	7.92	263	8.87	279	9.52	304	10.5	23	154	5.03	188	6.13	213	7.01	238	7.92	263	8.87	279	9.52	304	10.5	23	154	5.03	188	6.13	213	7.01	238	7.92	263	8.87	279	9.52	304	10.5													

TC: Total capacity ; MBH
 PI: Power Input ; kW (Comp.+Outdoor fan motor)
 Note1: is shown as reference.

Note2: The above table shows the average value of conditions which may occur.

RXYQ312PBTJ

Large capacity table with columns for Outdoor air temp., Indoor air temp. °FWB, and various capacity metrics (TC, PI, MBH, kW) for different combinations (90, 100, 110, 120) across various indoor air temperatures (57, 61, 64, 67, 70, 72, 75).

TC: Total capacity ; MBH
PI: Power Input ; kW (Comp.+Outdoor fan motor)
Note1: is shown as reference.

Note2: The above table shows the average value of conditions which may occur.

RXYQ336PBTJ

Table with 2 columns: Indoor air temp. °FWB (57, 61, 64, 67, 70, 72, 75) and 2 rows: TC, PI. Includes rows 23-122 and 120-100.

Table with 2 columns: Indoor air temp. °FWB (57, 61, 64, 67, 70, 72, 75) and 2 rows: TC, PI. Includes rows 23-122 and 120-100.

TC: Total capacity ; MBH
PI: Power Input ; kW (Comp.+Outdoor fan motor)
Note1: is shown as reference.

Note2: The above table shows the average value of conditions which may occur.

RXYQ360PBTJ

Capacity tables for RXYQ360PBTJ heat pump. The table is organized into four main sections based on outdoor air temperature (90, 120, 110, 100) and indoor air temperature (°FWB). Each section contains a grid of data points for various indoor air temperatures (57, 61, 64, 67, 70, 72, 75) and fan speeds (MBH, PI, TC, kW). The data is presented in a tabular format with columns for outdoor air temp, indoor air temp, and various capacity metrics.

TC: Total capacity ; MBH
PI: Power Input ; kW (Comp.+Outdoor fan motor)
Note1: is shown as reference.

Note2: The above table shows the average value of conditions which may occur.

RXYQ96PBTJ

Table with columns for Combination, Outdoor air temp., Indoor air temp. *FDB, and Capacity (TC, PI) for various conditions. Includes sub-tables for 130, 120, 110, and 100 capacity levels.

TC: Total capacity ; MBH
PI: Power Input ; kW (Comp.+Outdoor fan motor)
Note1: is shown as reference.

Note2: The above table shows the average value of conditions which may occur.

RXYQ192PBTJ

Combination	Outdoor air temp.		Indoor air temp. °FDB													
			61		65		68		70		72		75			
			TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI		
%	*FDB	*FWB	MBH	KW	MBH	KW	MBH	KW	MBH	KW	MBH	KW	MBH	KW	MBH	KW
130	-3.64	-4.0	146	12.3	145	13.2	145	13.9	144	14.4	144	14.8	144	15.5		
	-1.84	-2.2	148	12.5	148	13.5	147	14.1	147	14.6	147	15.0	146	15.7		
	9.5	5.0	160	13.7	160	14.5	159	15.2	159	15.6	159	16.0	158	16.6		
	13.0	12.0	174	14.9	174	15.6	173	16.2	173	16.6	173	17.0	172	17.5		
	15.0	14.0	179	15.2	178	15.9	178	16.5	178	16.9	177	17.2	177	17.8		
	17.0	15.5	182	15.4	182	16.2	181	16.7	181	17.1	181	17.4	180	18.0		
	19.0	18.0	189	15.8	188	16.5	188	17.1	187	17.4	187	17.8	187	18.3		
	22.0	20.0	194	16.2	193	16.8	193	17.4	193	17.7	192	18.1	192	18.6		
	30.0	24.0	205	16.8	204	17.4	204	17.9	204	18.3	203	18.6	203	19.1		
	35.0	32.0	230	18.0	229	18.5	229	19.0	228	19.3	228	19.6	228	20.0		
	39.0	36.0	243	18.5	243	19.1	242	19.5	242	19.7	242	20.0	241	20.4		
	44.0	40.0	258	19.0	257	19.6	257	19.9	257	20.2	256	20.5	255	20.7		
47.0	43.0	269	19.4	269	19.9	268	20.3	268	20.5	268	20.8	265	19.6			
51.0	47.0	285	19.9	285	20.3	284	20.7	281	20.5	270	19.6	255	18.2			
54.0	50.0	298	20.2	297	20.7	291	20.3	281	19.4	270	18.5	255	17.2			
57.0	53.0	311	20.5	307	20.5	291	19.2	281	18.4	270	17.6	255	16.4			
60.0	56.0	325	20.8	307	19.5	291	18.2	281	17.5	270	16.7	255	15.5			

TC: Total capacity ; MBH
PI: Power Input ; kW (Comp.+Outdoor fan motor)
Note1: is shown as reference.

Note2: The above table shows the average value of conditions which may occur.

RXYQ216PBTJ

Capacity tables for RXYQ216PBTJ heat pump. The table is organized into four main sections based on indoor air temperature (61, 65, 70, 75 °FDB) and outdoor air temperature (-3.64 to 60.0 °FDB). Each section contains columns for Total Capacity (TC) and Power Input (PI) in MBH and kW, with sub-columns for different indoor air conditions. The data is presented for four different outdoor air temperature ranges: 130, 120, 110, and 100 °FDB.

TC: Total capacity ; MBH
PI: Power Input ; kW (Comp.+Outdoor fan motor)
Note1: is shown as reference.

Note2: The above table shows the average value of conditions which may occur.

RXYQ240PBTJ

Capacity tables for RXYQ240PBTJ heat pump. The table is organized into four main sections based on indoor air temperature (61, 65, 68, 70, 72, 75) and outdoor air temperature (-3.64 to 60.0). Each section contains columns for Total Capacity (TC) and Power Input (PI) in MBH and kW, with sub-columns for different indoor air temperatures. The table is split into four vertical columns for readability.

TC: Total capacity ; MBH
PI: Power Input ; kW (Comp.+Outdoor fan motor)
Note1: [shaded] is shown as reference.

Note2: The above table shows the average value of conditions which may occur.

RXYQ264PBTJ

Capacity tables for RXYQ264PBTJ heat pumps. The table is divided into four sections for indoor air temperatures of 61, 65, 70, and 75 °FDB. Each section contains a grid of capacity (TC) and power input (PI) values for different outdoor air temperature and humidity ratio combinations. The grid includes columns for outdoor air temp. (% FDB, °F, °C) and rows for indoor air temp. (°FDB, °C).

TC: Total capacity ; MBH
PI: Power Input ; kW (Comp.+Outdoor fan motor)
Note1: is shown as reference.

Note2: The above table shows the average value of conditions which may occur.

RXYQ288PBTJ

Capacity tables for RXYQ288PBTJ heat pump. The table is organized into four main sections based on indoor air temperature (70, 72, 75, and 75°FDB) and outdoor air temperature (-3.64 to 60.0 °FDB). Each section contains columns for Combi-nation, Outdoor air temp., and various performance metrics (TC, PI, MBH, kW) for different indoor air conditions.

TC: Total capacity ; MBH
PI: Power Input ; kW (Comp.+Outdoor fan motor)
Note1: is shown as reference.

Note2: The above table shows the average value of conditions which may occur.

RXYQ312PBTJ

Combination	Outdoor air temp.		Indoor air temp. *FDB																												
			61				65				68				72				75												
			TC	PI	MBH	KW	TC	PI	MBH	KW	TC	PI	MBH	KW	TC	PI	MBH	KW	TC	PI	MBH	KW									
130	%	*FDB	*FDB	-3.64	-4.0	2.22	16.6	22.1	18.1	22.0	19.3	22.0	20.0	21.9	20.8	21.8	22.0	-3.64	-4.0	2.17	24.0	21.7	25.1	21.6	25.8	21.6	26.4	21.5	26.9	21.5	27.7

TC: Total capacity ; MBH
 PI: Power Input ; kW (Comp.+Outdoor fan motor)
 Note1: [shaded] is shown as reference.

Note2: The above table shows the average value of conditions which may occur.

RXYQ336PBTJ

Capacity tables for RXYQ336PBTJ heat pump. The table is organized into four main sections based on outdoor air temperature (130, 120, 110, 100) and indoor air temperature (70, 72, 75). Each section contains a grid of TC (Total Capacity) and PI (Power Input) values for various combinations of indoor and outdoor temperatures. The columns are labeled with indoor air temperature and the rows with outdoor air temperature. The data is presented in a structured grid format.

TC: Total capacity; MBH
PI: Power Input; kW (Comp.+Outdoor fan motor)
Note1: is shown as reference.

Note2: The above table shows the average value of conditions which may occur.

RXYQ360PBTJ

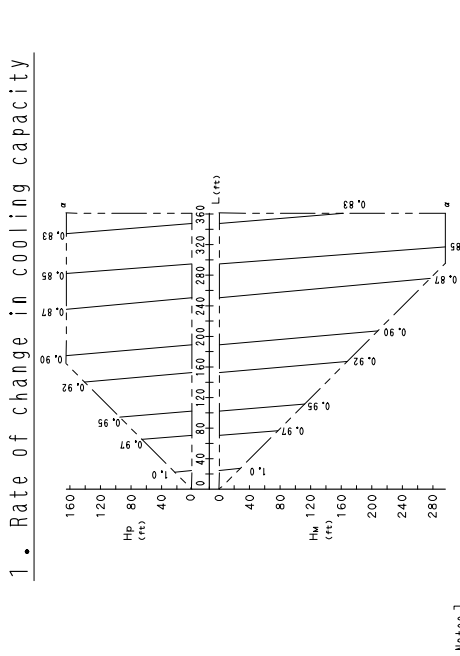
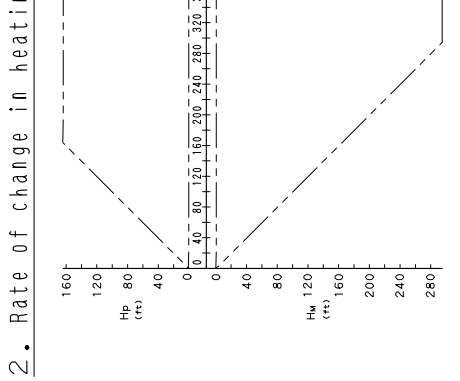
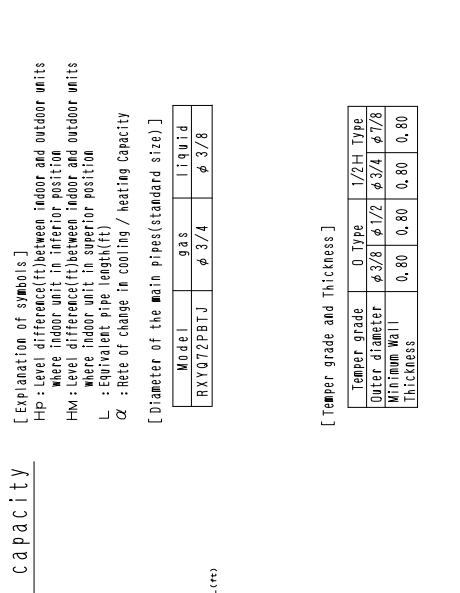
Main capacity table with columns for Combination, Outdoor air temp., Indoor air temp. *FDB, and various capacity metrics (TC, PI, MBH, kW) for different indoor air temperatures (61, 65, 68, 70, 72, 75).

TC: Total capacity ; MBH
PI: Power Input ; kW (Comp.+Outdoor fan motor)
Note1: is shown as reference.

Note2: The above table shows the average value of conditions which may occur.

8.3 Capacity Correction Factor

RXYQ72PBTJ



[Explanation of symbols]
 Hp : Level difference (ft) between indoor and outdoor units
 where indoor unit in inferior position
 Hm : Level difference (ft) between indoor and outdoor units
 where indoor unit in superior position
 L : Equivalent pipe length (ft)
 α : Rate of change in cooling / heating Capacity
 [Diameter of the main pipes (standard size)]

Model	gas	liquid
RXYQ72PBTJ	φ 3/4	φ 3/8

[Temper grade and Thickness]

Temper grade	0 Type	1/2H Type
Outer diameter	φ 3/8	φ 1/2
Minimum Wall Thickness	0.80	0.80

[Notes]
 1. These figures illustrate the rate of change in capacity of a standard indoor unit system at maximum load (with the thermostat set to maximum) under standard conditions. Moreover, under partial load conditions there is only a minor deviation from the rate of change in capacity shown in the above figures.
 2. With this outdoor unit, evaporating pressure constant control when cooling, and condensing pressure constant control when heating is carried out.
 3. Method of calculating A/C (cooling/heating) capacity:
 The maximum A/C capacity of the system will be either the total A/C capacity of the indoor units obtained from capacity characteristic table or the maximum A/C capacity of outdoor units as mentioned below, whichever smaller.
 Calculating A/C capacity of outdoor units
 • Condition: Indoor unit combination ratio does not exceed 100%.

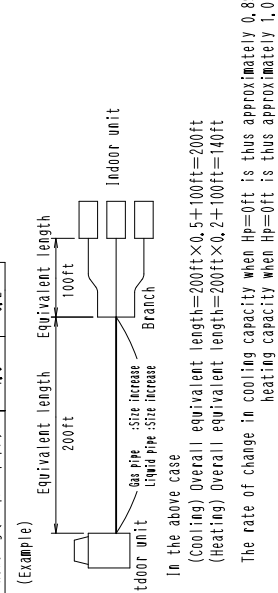
$$\frac{\text{Maximum A/C capacity of outdoor units}}{\text{Maximum A/C capacity of indoor units}} = \text{A/C capacity of outdoor units obtained from capacity characteristic table at the 100\% combination}$$
 X Capacity change rate due to piping length to the farthest indoor unit
 • Condition: Indoor unit combination ratio exceeds 100%.

$$\frac{\text{Maximum A/C capacity of outdoor units}}{\text{Maximum A/C capacity of indoor units}} = \text{A/C capacity of outdoor units obtained from capacity characteristic table at the combination}$$
 X Capacity change rate due to piping length to the farthest indoor unit
 4. When overall equivalent pipe length is 295.3ft or more, the diameter of the main gas and liquid pipes (outdoor unit-branch sections) must be increased.
 When level difference is 164.0ft or more, the diameter of the main liquid pipe (outdoor unit-branch sections) must be increased.
 [Diameter of above case]

Overall equivalent length =
 (Equivalent length to main pipe) X Correction factor + (Equivalent length after branching)

5. Read cooling / heating capacity rate of change in the above figures based on the following equivalent length.
 Choose a correction factor from the following table.
 When cooling capacity is calculated: gas pipe size
 When heating capacity is calculated: liquid pipe size

Rate of change (Object Piping)	Correction factor
Cooling (gas pipe)	Standard size increase
Heating (liquid pipe)	Standard size increase
	1.0
	0.5
	1.0
	0.2

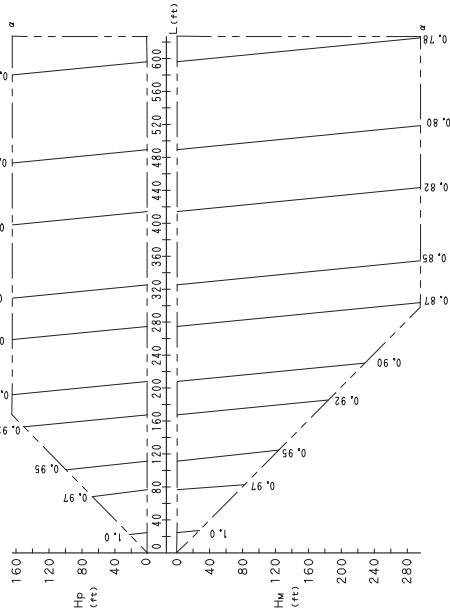


Model	gas	liquid
RXYQ72PBTJ	φ 7/8	φ 1/2

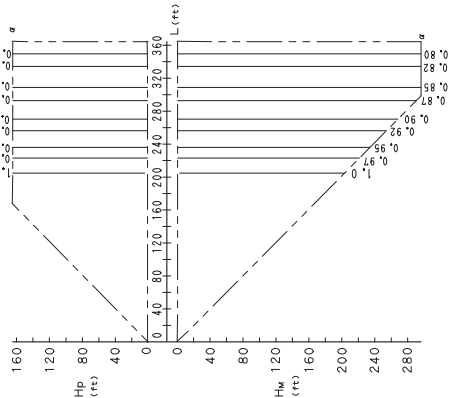
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RXYQ96PBTJ

1. Rate of change in cooling capacity



2. Rate of change in heating capacity



[Explanation of symbols]
 Hp: Level difference(ft) between indoor and outdoor units where indoor unit in inferior position
 Hm: Level difference(ft) between indoor and outdoor units where indoor unit in superior position
 L: Equivalent pipe length(ft)
 α: Rate of change in cooling / heating capacity
 [Diameter of the main pipes(standard size)]

Model	gas	liquid
RXYQ96PBTJ	φ 7/8	φ 3/8

[Temper grade and Thickness]

Temper grade	□ Type	1/2H Type
Outer diameter	φ 3/8	φ 1/2
Minimum Wall Thickness	0.80	0.80, 0.80, 0.88

[Notes]

1. These figures illustrate the rate of change in capacity of a standard indoor unit system at maximum load (with the thermostat set to maximum) under standard conditions. Moreover under partial load conditions there is only a minor deviation from the rate of change in capacity shown in the above figures.
 2. With this outdoor unit, evaporating pressure constant control when cooling, and condensing pressure constant control when heating is carried out.
 3. Method of calculating A/C (cooling/heating) capacity:
 The maximum A/C capacity of the system will be either the total A/C capacity of the indoor units obtained from capacity characteristic table or the maximum A/C capacity of outdoor units as mentioned below, whichever smaller.
 Calculating A/C capacity of outdoor units
 •Condition: Indoor unit combination ratio does not exceed 100%.
 [Maximum A/C capacity of outdoor units = A/C capacity of outdoor units obtained from capacity characteristic table at the 100% combination
 × Capacity change rate due to piping length to the farthest indoor unit
 •Condition: Indoor unit combination ratio exceeds 100%.
 [Maximum A/C capacity of outdoor units = A/C capacity of outdoor units obtained from capacity characteristic table at the combination
 × Capacity change rate due to piping length to the farthest indoor unit
 × Capacity change rate due to piping length to the farthest outdoor unit
 × Capacity change rate due to piping length to the farthest indoor unit-branch sections)
 4. When overall equivalent pipe length is 295.3ft or more, the diameter of the main gas and liquid pipes (outdoor unit-branch sections) must be increased.
 When level difference is 164.0ft or more, the diameter of the main liquid pipe (outdoor unit-branch sections) must be increased.
 [Diameter of above case]
- | Model | gas | liquid |
|------------|---------------|--------|
| RXYQ96PBTJ | not increased | φ 1/2 |
5. Read cooling / heating capacity rate of change in the above figures based on the following equivalent length,
 Overall equivalent length = (Equivalent length to main pipe) × Correction factor ÷ (Equivalent length after branching)
 Choose a correction factor from the following table,
 [When cooling capacity is calculated: gas pipe size
 [When heating capacity is calculated: liquid pipe size

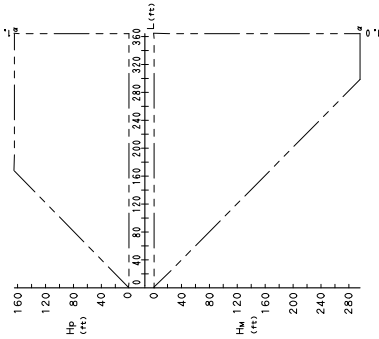
Rate of change (object piping)	Correction factor	Standard size size increase
Cooling (gas pipe)	1.0	0.5
Heating (liquid pipe)	1.0	0.2

 (Example)

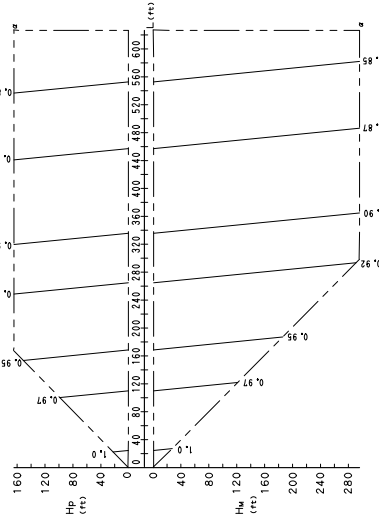
 In the above case
 (Cooling) Overall equivalent length = 200ft × 0.5 + 100ft = 200ft
 (Heating) Overall equivalent length = 200ft × 0.2 + 100ft = 140ft
 The rate of change in cooling capacity when Hp=0ft is thus approximately 0.91
 heating capacity when Hp=0ft is thus approximately 1.00

RXYQ120PBTJ / RXYQ144PBTJ / RXYQ240PBTJ / RXYQ360PBTJ

2. Rate of change in heating capacity



1. Rate of change in cooling capacity



[Notes]

- These figures illustrate the rate of change in capacity of a standard indoor unit system at maximum load (with the thermostat set to maximum) under standard conditions. Moreover, under partial load conditions there is only a minor deviation from the rate of change in capacity shown in the above figures.
- With this outdoor unit, evaporating pressure constant control when cooling, and condensing pressure constant control when heating is carried out.
- Method of calculating A/C (cooling/heating) capacity:
The maximum A/C capacity of the system will be either the total A/C capacity of the indoor units obtained from capacity characteristic table or the maximum A/C capacity of outdoor units as mentioned below, whichever smaller.
Calculating A/C capacity of outdoor units
• Condition: Indoor unit combination ratio does not exceed 100%.
Maximum A/C capacity of outdoor units = A/C capacity of outdoor units obtained from capacity characteristic table at the 100% combination
X (Capacity change rate due to piping length to the farthest indoor unit)
• Condition: Indoor unit combination ratio exceeds 100%.
Maximum A/C capacity of outdoor units = A/C capacity of outdoor units obtained from capacity characteristic table at the combination
X (Capacity change rate due to piping length to the farthest indoor unit)
X (Capacity change rate due to piping length to the farthest indoor unit-branch sections)
X (Capacity change rate due to piping length to the farthest indoor unit-branch sections) must be increased.
When level difference is 164.0ft or more, the diameter of the main liquid pipe (outdoor unit-branch sections) must be increased.
[Diameter of above case]

Model	gas	liquid
RXYQ120, 144PBTJ	Not increased	φ 5/8
RXYQ240PBTJ	Not increased	φ 3/4
RXYQ360PBTJ	Not increased	φ 7/8

[Explanation of symbols]

- HP: Level difference (between indoor and outdoor units where indoor unit is inferior position)
- HM: Level difference (between indoor and outdoor units where indoor unit is superior position)
- L: Equivalent pipe length (ft)
- α: Rate of change in cooling / heating Capacity

[Diameter of the main pipes (standard size)]

Model	gas	liquid
RXYQ120, 144PBTJ	φ 1-1/8	φ 1/2
RXYQ240PBTJ	φ 1-3/8	φ 5/8
RXYQ360PBTJ	φ 1-5/8	φ 3/4

[Temper grade and Thickness]

Temper grade	□ Type	1/2H Type
Outer diameter	φ 1/2 φ 5/8 φ 3/4 φ 1-1/8 φ 1-1/8 φ 1-3/8 φ 1-5/8	
Minimum Thickness	0.80 0.99 0.80 0.80 0.99 1.21 1.43	

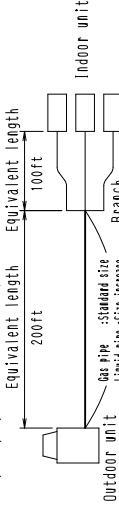
- Read cooling / heating capacity rate of change in the above figures based on the following equivalent length.

Overall equivalent length = (Equivalent length to main pipe) X Correction factor + (Equivalent length after branching)

Choose a correction factor from the following table.
[When cooling capacity is calculated: gas pipe size
When heating capacity is calculated: liquid pipe size]

Rate of change (object piping)	Correction factor	
	Standard size	Size increase
Cooling (Gas pipe)	1.0	120 • 144 240 • 360
Heating (Liquid pipe)	1.0	0.3 0.4

(Example) In case of RXYQ240PVDN



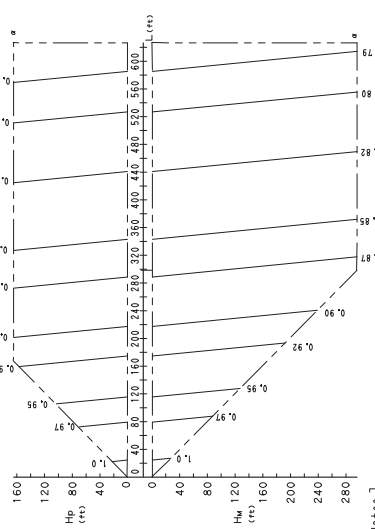
In the above case

(Cooling) Overall equivalent length = 200ft X 1.0 + 100ft = 300ft
(Heating) Overall equivalent length = 200ft X 0.4 + 100ft = 180ft

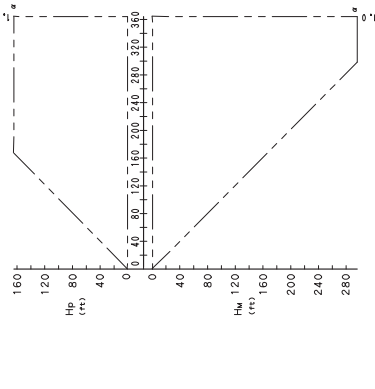
The rate of change in cooling capacity when Hp=0ft is thus approximately 0.91 heating capacity when Hp=0ft is thus approximately 1.0

RXYQ168PBTJ / RXYQ264PBTJ / RXYQ288PBTJ

1. Rate of change in cooling capacity



2. Rate of change in heating capacity



[Explanation of symbols]
 Hp : Level difference (between indoor and outdoor units where indoor unit in inferior position)
 Hm : Level difference (between indoor and outdoor units where indoor unit in superior position)
 L : Equivalent Pipe length (ft)
 α : Rate of change in cooling / heating capacity
 [Diameter of the main pipes (standard size)]

Model	gas	liquid
RXYQ168PBTJ	φ 1-1/8	φ 5/8
RXYQ264PBTJ	φ 1-3/8	φ 3/4

[Notes]

- These figures illustrate the rate of change in capacity of a standard indoor unit system at maximum load (with the thermostat set to maximum) under standard conditions. Moreover, under partial load conditions there is only a minor deviation from the rate of change in capacity shown in the above figures.
- With this outdoor unit, evaporating pressure constant control when cooling, and condensing pressure constant control when heating is carried out.
- Method of calculating A/C (cooling/heating) capacity:
 The maximum A/C capacity of the system will be either the total A/C capacity of the indoor units obtained from capacity characteristic table or the maximum A/C capacity of outdoor units as mentioned below, whichever smaller.
 Calculating A/C capacity of outdoor units
 * Condition: Indoor unit combination ratio does not exceed 100%.

$$\text{Maximum A/C capacity of outdoor units} = \text{A/C capacity of outdoor units obtained from capacity characteristic table at the 100\% combination} \times \text{Capacity change rate due to piping length to the farthest indoor unit}$$

$$\text{Maximum A/C capacity of outdoor units} = \text{A/C capacity of outdoor units obtained from capacity characteristic table at the combination} \times \text{Capacity change rate due to piping length to the farthest indoor unit}$$

- When overall equivalent pipe length is 295.3ft or more, the diameter of the main gas and liquid pipes (outdoor unit-branch sections) must be increased.
 When level difference is 164.0ft or more, the diameter of the main liquid pipe (outdoor unit-branch sections) must be increased.
 [Diameter of above case]

Model	gas	liquid
RXYQ168PBTJ	Not Increased	φ 3/4
RXYQ264PBTJ	Not Increased	φ 7/8

[Temper grade and Thickness]

Temper grade	□ Type	1/2H Type
Outer diameter	φ 5/8	φ 3/4
Minimum Wall Thickness	0.99	0.80
	0.80	0.99
	1.10	1.21
	1.32	

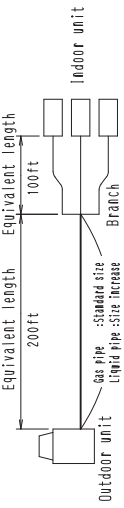
- Read cooling / heating capacity rate of change in the above figures based on the following equivalent length.

Overall equivalent length = (Equivalent length to main pipe) × Correction factor + (Equivalent length after branching)

Choose a correction factor from the following table.
 [When cooling capacity is calculated: gas pipe size]
 [When heating capacity is calculated: liquid pipe size]

Rate of change (object piping)	Correction factor
Cooling (gas pipe)	Standard size
Heating (liquid pipe)	Size increase
	1.0
	0.5
	1.0
	0.4

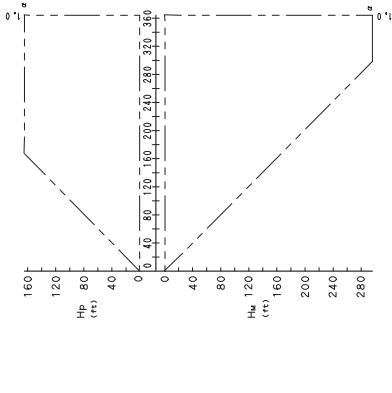
(Example)



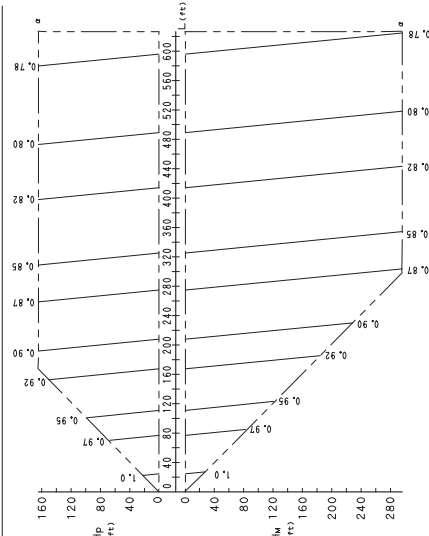
In the above case
 (Cooling) Overall equivalent length = 200ft × 1.0 + 100ft = 300ft
 (Heating) Overall equivalent length = 200ft × 0.4 + 100ft = 180ft
 The rate of change in cooling capacity when Hp = 0ft is thus approximately 0.87
 heating capacity when Hp = 0ft is thus approximately 1.0

RXYQ192PBTJ / RXYQ312PBTJ / RXYQ336PBTJ

2. Rate of change in heating capacity



1. Rate of change in cooling capacity



[Explanation of symbols]
 Hp : Level difference (between indoor and outdoor units where indoor unit is inferior position)
 Hm : Level difference (between indoor and outdoor units where indoor unit is superior position)
 L : Equivalent pipe length (m)
 α : Rate of change in cooling / heating capacity [Diameter of the main pipes (standard size)]

Model	gas	liquid
RXYQ192PBTJ	φ 1-1/8	φ 5/8
RXYQ312PBTJ	φ 1-3/8	φ 3/4
RXYQ336PBTJ	φ 1-3/8	φ 3/4

[Temper grade and Thickness]

Temper grade	□ Type	1/2H Type
Outer diameter	φ 5/8	φ 3/4
Minimum Wall Thickness	0.99	0.80

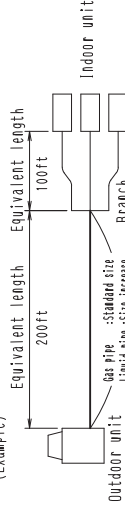
5. Read cooling / heating capacity rate of change in the above figures based on the following equivalent length,

$$\text{Overall equivalent length} = \text{Equivalent length to main pipe} \times \text{Correction factor} + \text{Equivalent length after branching}$$

Choose a correction factor from the following table,
 When cooling capacity is calculated: gas pipe size
 When heating capacity is calculated: liquid pipe size

Rate of change (object piping)	Correction factor
Cooling (gas pipe)	Standard size Size increase
Heating (liquid pipe)	Standard size Size increase

(Example)



In the above case
 (Cooling) Overall equivalent length = 200ft × 1.0 + 100ft = 300ft
 (Heating) Overall equivalent length = 200ft × 0.4 + 100ft = 180ft
 The rate of change in cooling capacity when Hp=0ft is thus approximately 0.86
 heating capacity when Hp=0ft is thus approximately 1.0

[Notes]

- These figures illustrate the rate of change in capacity of a standard indoor unit system at maximum load (with the thermostat set to maximum) under standard conditions. Moreover, under partial load conditions there is only a minor deviation from the rate of change in capacity shown in the above figures.
- With this outdoor unit, evaporating pressure constant control when cooling, and condensing pressure constant control when heating is carried out.
- Method of calculating A/C (cooling/heating) capacity:
 The maximum A/C capacity of the system will be either the total A/C capacity of the indoor units obtained from capacity characteristic table or the maximum A/C capacity of outdoor units as mentioned below, whichever smaller.
 Calculating A/C capacity of outdoor units
 • Condition: Indoor unit combination ratio does not exceed 100%.

$$\text{Maximum A/C capacity of outdoor units} = \frac{\text{A/C capacity of outdoor units obtained from capacity characteristic table at the 100\% combination}}{\text{Capacity change rate due to piping length to the farthest indoor unit}}$$

 • Condition: Indoor unit combination ratio exceeds 100%.

$$\text{Maximum A/C capacity of outdoor units} = \frac{\text{A/C capacity of outdoor units obtained from capacity characteristic table at the combination}}{\text{Capacity change rate due to piping length to the farthest indoor unit}}$$

 • Condition: Indoor unit combination ratio exceeds 100%.

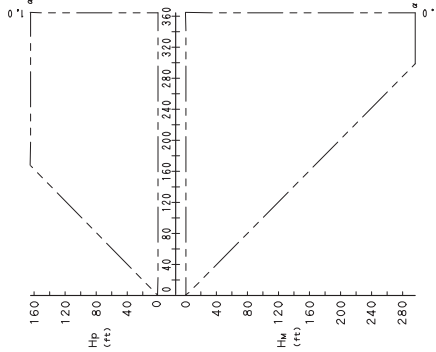
$$\text{Maximum A/C capacity of outdoor units} = \frac{\text{A/C capacity of outdoor units obtained from capacity characteristic table at the combination}}{\text{Capacity change rate due to piping length to the farthest indoor unit}}$$

4. When overall equivalent pipe length is 295.3ft or more, the diameter of the main gas and liquid pipes (outdoor unit-branch sections) must be increased.
 When level difference is 164.0ft or more, the diameter of the main liquid pipe (outdoor unit-branch sections) must be increased.

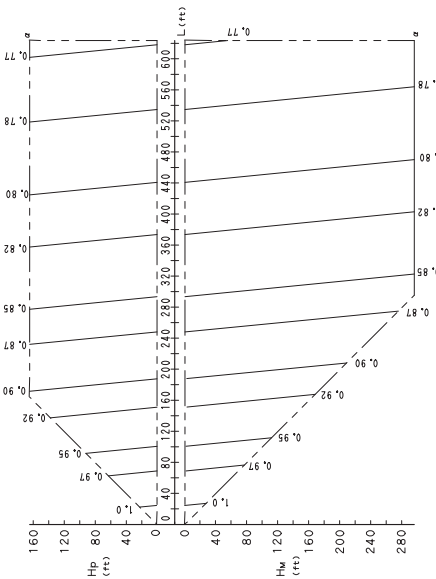
Model	gas	liquid
RXYQ192PBTJ	Not increased	φ 3/4
RXYQ312PBTJ	Not increased	φ 7/8
RXYQ336PBTJ	Not increased	φ 7/8

RXYQ216PBTJ

2. Rate of change in heating capacity



1. Rate of change in cooling capacity



[Explanation of symbols]
 Hp : Level difference (ft) between indoor and outdoor units where indoor unit is inferior position
 Hw : Level difference (ft) between indoor and outdoor units where indoor unit is superior position
 L : Equivalent pipe length (ft)
 α : Rate of change in cooling / heating Capacity
 [Diameter of the main pipes (standard size)]

Model	gas	liquid
RXYQ216PBTJ	φ 1-1/8	φ 5/8

[Temper grade and Thickness]

Temper grade	O Type	1/2H Type
Outer diameter	φ 5/8	φ 3/4
Minimum Wall Thickness	0.99	0.80
		0.99
		1.10

[Notes]

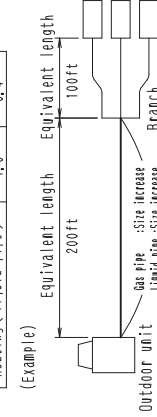
- These figures illustrate the rate of change in capacity of a standard indoor unit system at maximum load (with the thermostat set to maximum) under standard conditions. Moreover, under partial load conditions there is only a minor deviation from the rate of change in capacity shown in the above figures.
- With this outdoor unit, evaporating pressure constant control when cooling, and condensing pressure constant control when heating is carried out.
- Method of calculating A/C (cooling/heating) capacity:
 The maximum A/C capacity of the system will be either the total A/C capacity of the indoor units obtained from capacity characteristic table or the maximum A/C capacity of outdoor units as mentioned below, whichever smaller.
 Calculating A/C capacity of outdoor units
 • Condition: Indoor unit combination ratio does not exceed 100%.
 [Maximum A/C capacity of outdoor units] = A/C capacity of outdoor units obtained from capacity characteristic table at the 100% combination
 × [Capacity change rate due to piping length to the farthest indoor unit]
 • Condition: Indoor unit combination ratio exceeds 100%.
 [Maximum A/C capacity of outdoor units] = A/C capacity of outdoor units obtained from capacity characteristic table at the combination
 × [Capacity change rate due to piping length to the farthest indoor unit]
 × [Capacity change rate due to piping length to the farthest indoor unit]
 × [Capacity change rate due to piping length to the farthest indoor unit-branch sections]
 4. When overall equivalent pipe length is 295.3ft or more, the diameter of the main gas and liquid pipes (outdoor unit-branch sections) must be increased.
 When level difference is 164.0ft or more, the diameter of the main liquid pipe (outdoor unit-branch sections) must be increased.
 [Diameter of above case]

Model	gas	liquid
RXYQ216PBTJ	Not increased	φ 3/4

5. Read cooling / heating capacity rate of change in the above figures based on the following equivalent length,
 Overall equivalent length = (Equivalent length to main pipe) × Correction factor + (Equivalent length after branching)

Choose a correction factor from the following table.
 [When cooling capacity is calculated: gas pipe size
 [When heating capacity is calculated: liquid pipe size

Rate of change (Object piping)	Correction factor
Cooling (gas pipe)	Standard size
Heating (liquid pipe)	Size increase
	1.0
	0.5
	1.0
	0.4



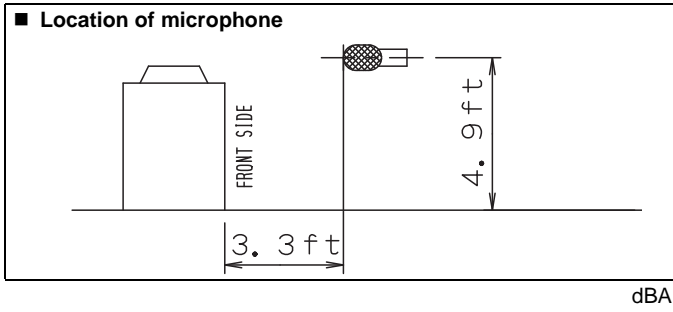
In the above case

(Cooling) Overall equivalent length = 200ft × 0.5 + 100ft = 200ft
 (Heating) Overall equivalent length = 200ft × 0.4 + 100ft = 180ft

The rate of change in cooling capacity when Hp=0ft is thus approximately 0.89 heating capacity when Hp=0ft is thus approximately 1.0

9. Sound Levels (Reference)

9.1 Overall



Notes:

1. The operating conditions are assumed to be standard (JIS conditions). Power source 208-230V, 60hz.
2. The operating values were obtained in an anechoic chamber (conversion values).
3. Sound levels will vary depending on a range of factors such as the construction (acoustic absorption coefficient) of the particular room in which the equipment is installed.

Model	60Hz / 208-230V
RXYQ72PBTJ	58
RXYQ96PBTJ	58
RXYQ120PBTJ	60
RXYQ144PBTJ	61
RXYQ168PBTJ	61
RXYQ192PBTJ	62
RXYQ216PBTJ	62
RXYQ240PBTJ	63

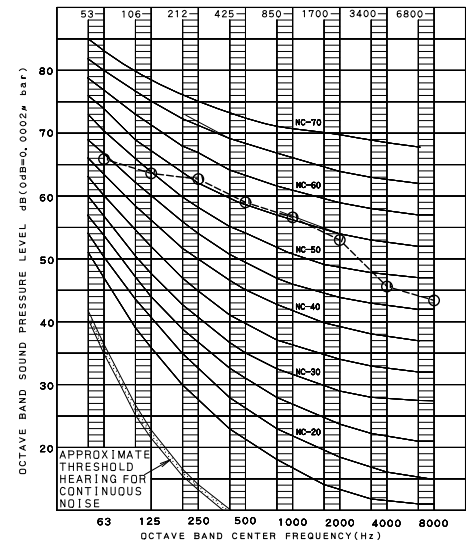
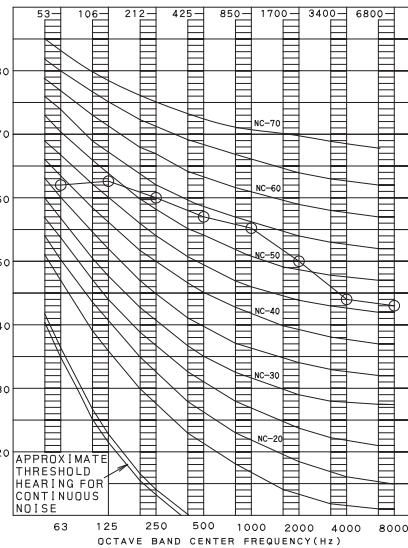
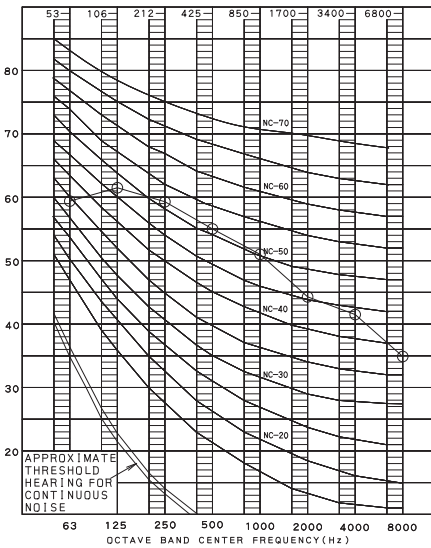
9.2 Octave Band Level

○ — ○ 208V-230V, 60Hz

RXYQ72PBTJ

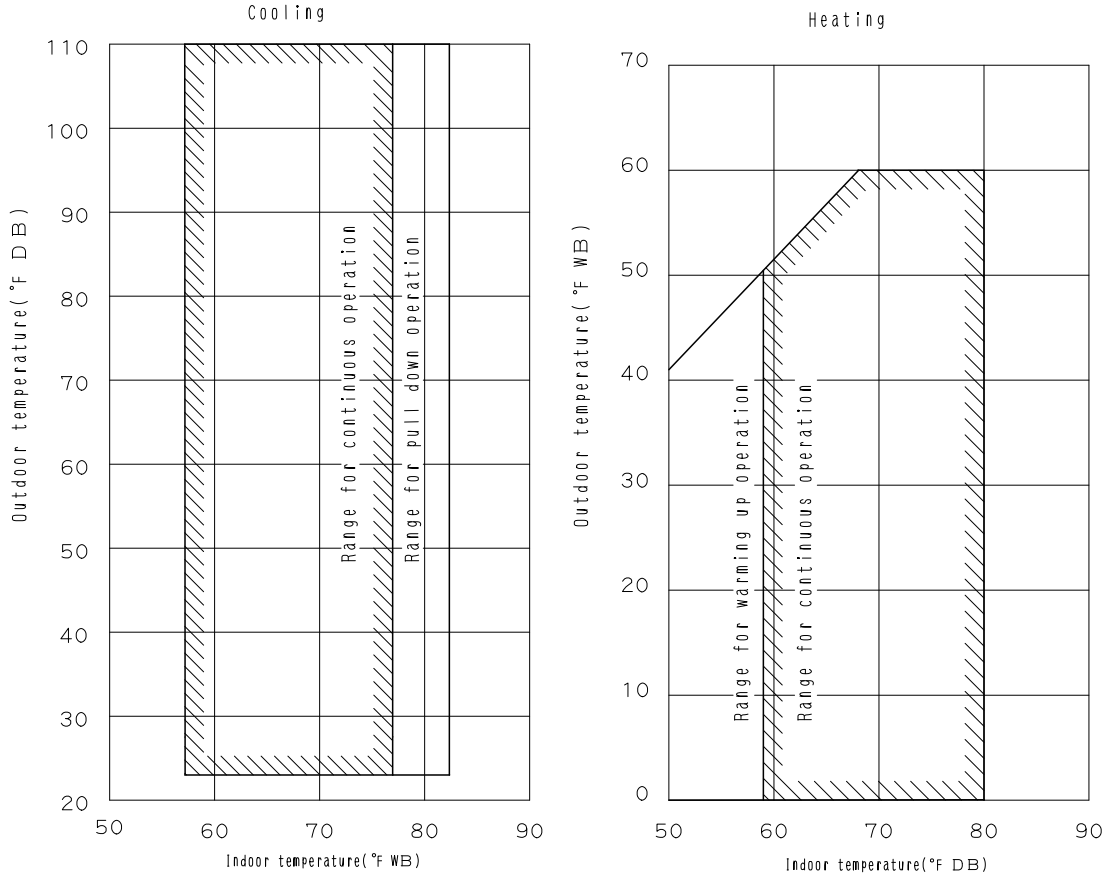
RXYQ96/120PBTJ

RXYQ144PBTJ



10. Operation Limits

RXYQ72PBTJ / RXYQ96PBTJ / RXYQ120PBTJ / RXYQ144PBTJ / RXYQ168PBTJ / RXYQ192PBTJ / RXYQ216PBTJ / RXYQ240PBTJ / RXYQ264PBTJ / RXYQ288PBTJ / RXYQ312PBTJ / RXYQ336PBTJ / RXYQ360PBTJ



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

Note: These figures assume the following operating conditions:
 Indoor and outdoor units:
 Equivalent pipe length: 25ft
 Level difference: 0

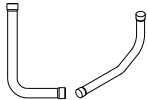
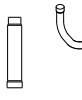
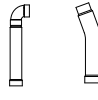


NOTE: See capacity Tables for Reference Cooling Capacities above 110°F.

11. Accessories

Standard Accessories

RXYQ72PBTJ / RXYQ96PBTJ / RXYQ120PBTJ / RXYQ144PBTJ / RXYQ168PBTJ / RXYQ192PBTJ / RXYQ216PBTJ / RXYQ240PBTJ / RXYQ264PBTJ / RXYQ288PBTJ / RXYQ312PBTJ / RXYQ336PBTJ / RXYQ360PBTJ

Name	Clamp(1)	Clamp(2)	Clamp(3)	Vinyl tube	Conduit mounting plate		Manuals, etc.
Quantity	9 pcs.	3 pcs.	1 pc.	4 pcs.	2 pcs.	2 pcs.	1 pc. each
Shape	 (Small)		 (Large)				<ul style="list-style-type: none"> • Operation manual • Installation manual • "REQUEST FOR THE INDICATION" label (Installation records) • Add additional refrigerant charge label

Name	Liquid side accessory pipe (1)	Liquid side accessory pipe (2)	Gas side accessory pipe (1)	Gas side accessory pipe (2)	L type accessory joint
Quantity	1 pc.	1 pc.	1 pc.	1 pc.	1 pc.
Shape	 72~120P 144P	 72~120P 144P	 72~120P 144P		 144P only

3P215731-10R

Optional Accessories (For Unit)

RXYQ72PBTJ / RXYQ96PBTJ / RXYQ120PBTJ / RXYQ144PBTJ / RXYQ168PBTJ / RXYQ192PBTJ / RXYQ216PBTJ / RXYQ240PBTJ / RXYQ264PBTJ / RXYQ288PBTJ / RXYQ312PBTJ / RXYQ336PBTJ / RXYQ360PBTJ

Series		VRV III				
Models		RXYQ72PBTJ RXYQ96PBTJ	RXYQ120PBTJ RXYQ144PBTJ	RXYQ168PBTJ	RXYQ192PBTJ RXYQ216PBTJ RXYQ240PBTJ	RXYQ264PBTJ RXYQ288PBTJ RXYQ312PBTJ RXYQ336PBTJ RXYQ360PBTJ
Optional accessories						
Distributive piping	Refnet header	Model	KHRP26M22H (Max. 4 branch) KHRP26M33H (Max. 8 branch)	KHRP26M22H (Max. 4 branch) KHRP26M33H (Max. 8 branch) KHRP26M72H (Max. 8 branch)	KHRP26M22H (Max. 4 branch) KHRP26M33H (Max. 8 branch) KHRP26M72H (Max. 8 branch) KHRP26M73HU (Max. 8 branch)	
		AS No.	AS3802560	AS3802560	AS3803567	
		Z No.	—	—	—	
	Refnet joint	Model	KHRP26M22T KHRP26M33T	KHRP26M22T KHRP26M33T KHRP26M72TU	KHRP26M22T KHRP26M33T KHRP26M72TU KHRP26M73TU	
		AS No.	AS3802560 (KHRP26M22T, KHRP26M33T)	AS3803118 (KHRP26M72TU)	AS3803566 (KHRP26M73TU)	
		Z No.	—	—	—	
Outdoor unit multi connection piping kit	Model	—	—	BHFP22P100U	BHFP22P151U	
	AS No.	—	—	—	—	
	Z No.	—	—	—	—	

C: 3D060089D

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JMI-0107



JQA-1452

About ISO 9001

ISO 9001 is a plant certification system defined by the International Organization for Standardization (ISO) relating to quality assurance. ISO 9001 certification covers quality assurance aspects related to the "design, development, manufacture, installation, and supplementary service" of products manufactured at the plant.



EC99J2044

About ISO 14001

ISO 14001 is the standard defined by the International Organization for Standardization (ISO) relating to environmental management systems. Our group has been acknowledged by an internationally accredited program of environmental protection procedures and activities to meet the requirements of ISO 14001.

Dealer

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