



**PRE-SALES**

**ENGINEERING DATA**

**DAIKIN**

***MEGA-Q***



**R-410A & R134a**



## **Table of Contents**

1. Features and Benefits
2. Nomenclature
3. Specifications
  - a. Cascade Unit
  - b. Heat Source Unit
  - c. Tank Controller
4. Dimensions
5. Service Space
6. Piping Diagram
7. Wiring Diagram
8. Field Wiring
9. Electrical Characteristics
10. Operation Limits
11. Performance Characteristics
12. Head Pressure Curve (Integrated Water Pump)
13. Sound level
14. Center of Gravity
15. Foundation Drawing
16. System Layout Example

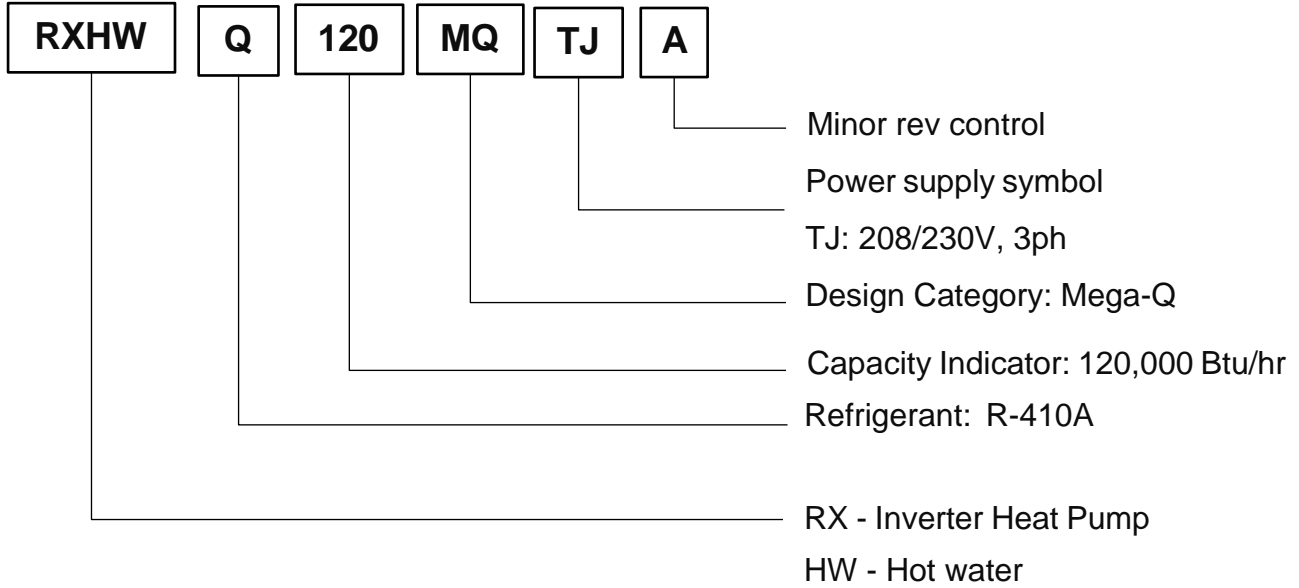
## 1. Features and Benefits

- All-electric hot water generation system for commercial applications.
- Dependable heat pump hot water generation in outdoor ambient from -4°F DB to 109°F DB (from -20°C DB to 43°C DB).
- Customizable high leaving water temperatures from 140F to 194F with inlet water temperatures from 41F to 176F (5 °C to 80°C).
- Year-round high efficiencies with up to 4.6 COP\* thanks to Daikin's inverter heat pump and cascade technology.
- Scalable and modular system design allows for up to 6 Daikin Mega-Q systems to connect to the same hydronic loop, achieving total nominal capacity of 720 MBH\*.
- Flexible application design with a vertical separation of up to 66 feet between the heat source unit and the cascade unit.
- Modular and compact system design enables installation indoors or outdoors.
- Built-in variable speed water pump increases waterside system efficiencies and can handle water flow rates of up to 3.8 GPM.

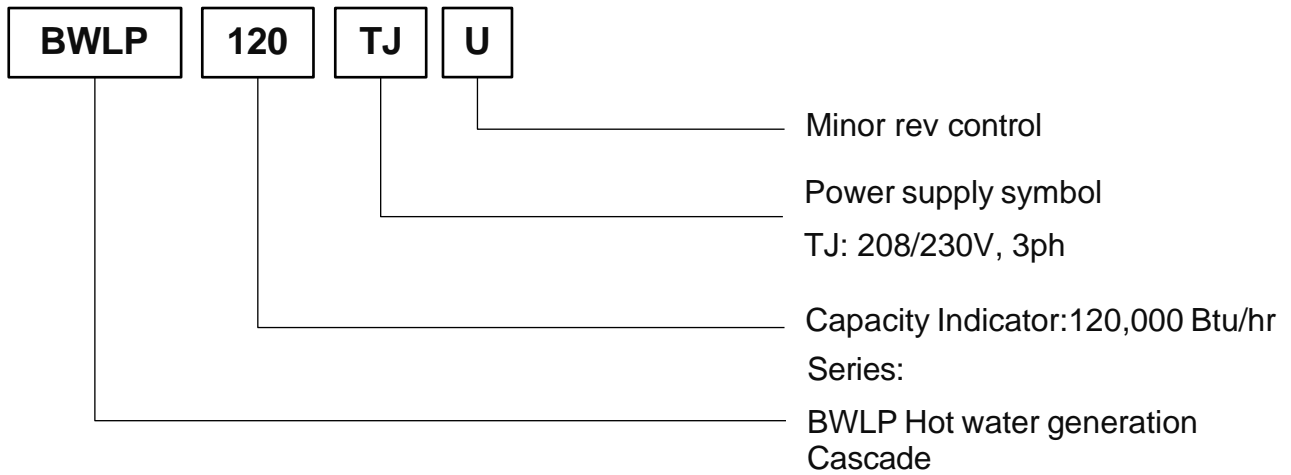
\*Based on heating conditions at the outdoor temperature of 60.8°F DB/53.6°F WB, the outlet water temperature of 149°F, and the inlet water temperature of 62.6°F.

## 2. Nomenclature

Heat Source Unit: **RXHWQ120MQTJA**



Cascade Unit: **BWLP120TJU**



### 3. Specifications

Model name (system name)		BWLP120TJU		
Hot water storage heating	Intermediate hot water storage heating capacity ★1★9	Btu/h(kW)	119000(35.0)	
	Intermediate hot water storage heating power consumption ★1★9	Btu/h(kW)	30000(8.75)	
	Intermediate hot water storage heating C O P		4.0	
	Winter hot water storage heating capacity ★2★9	Btu/h(kW)	119000(35.0)	
	Winter hot water storage heating power consumption ★2★9	Btu/h(kW)	34000(10.1)	
	Hot water storage heating in winter C O P		3.5	
	Summer hot water storage heating capacity ★3★9	Btu/h(kW)	119000(35.0)	
	Summer hot water storage heating power consumption ★3★9	Btu/h(kW)	26000(7.61)	
	Summer hot water storage heating C O P		4.6	
	Hot water storage heating capacity during frost formation ★4★9	Btu/h(kW)	119000(35.0)	
	Hot water storage heating power consumption during frost formation ★4★9	Btu/h(kW)	48000(14.0)	
	Hot water storage heating during frost formation C O P		2.5	
	Heat retention and heating	Intermediate heat retention heating capacity ★5★9	Btu/h(kW)	44000(13.0)
		Intermediate heat retention heating power consumption ★5★9	Btu/h(kW)	15000(4.33)
Intermediate heat retention heating C O P			3.0	
Winter heat retention heating capacity ★6★9		Btu/h(kW)	44000(13.0)	
Winter heat insulation heating power consumption ★6★9		Btu/h(kW)	17000(5.00)	
Winter heat insulation C O P			2.6	
Summer heat retention heating capacity ★7★9		Btu/h(kW)	44000(13.0)	
Summer heat insulation heating power consumption ★7★9		Btu/h(kW)	13000(3.94)	
Summer heat insulation C O P			3.3	
Defrosting period heat retention heating capacity ★8★9		Btu/h(kW)	44000(13.0)	
Frosting period Heat retention Heating power consumption ★8★9		Btu/h(kW)	21000(6.20)	
Heat retention during frost formation C O P			2.1	
Sound (A scale) ★9★10		dB	55(Winter 59)	
Unit model name			CASCADE UNIT	
Model name		BWLP350BR		
Power supply		3 Phase 208/230V 60Hz		
Casing color		Ivory white(5Y7.5/1)		
External dimension	Height×Width×Depth	in.(mm)	60-1/16(1525)×35-3/16(893)×30(762)	
	Evaporator		Plate heating exchanger	
Heat exchanger	Condenser		Winding spiral tube heat exchanger	
	Model		Hermetically sealed scroll type	
Compressor	Starting system		Soft start (Inverter)	
	Motor output	kW	(4.5 + 4.5)	
Water pump			Non-self-priming canned pump	
Connecting pipe	Heat source unit	Liquid side pipe	in.(mm)	φ1/2(12.7) C1220T(Brazed connection)
		Gas side pipe	in.(mm)	φ1-1/8(28.6) C1220T(Brazed connection) ★11
	Cascade unit	Liquid side pipe	in.(mm)	φ1/2(12.7) C1220T(Brazed connection)
		Gas side pipe	in.(mm)	φ7/8(22.2) C1220T(Brazed connection)
		Inlet(water) pipe		N/A
		Circulation(water) pipe		R3/4 Male Thread (NPT3/4 Male Thread after the installation of piping adaptor)
Outlet(hot water) pipe		R3/4 Male Thread (NPT3/4 Male Thread after the installation of piping adaptor)		
Weight	lb(kg)		639(290)	
Safety device			High pressure switch, inverter overload protector	
Refrigerant	Refrigerant name		High side R134a Low side R410A	
	Filling amount	lb(kg)	13.2(6.0)	
	Control		Electronic expansion valve	
Design pressure	High pressure	psig(MPa)	High side 550(3.80) Low side 580(4.00)	
	Low pressure	psig(MPa)	High side 248(1.71)	
Standard accessories			Attached pipe, Pipe adaptor, Conduit plate, Vinyl tape	

NOTE)

- ★1 Operating conditions: Outside air temperature: 60.8°FDB, 53.6°FWB Water supply temperature 62.6°F Hot water temperature 149.0°F Water volume 2.8gal/min
- ★2 Operating conditions: Outside air temperature: 44.6°FDB, 42.8°FWB Water supply temperature 48.2°F Hot water temperature 149.0°F Water volume 2.4gal/min
- ★3 Operating conditions: Outside air temperature: 77.0°FDB, 69.8°FWB Water supply temperature 75.2°F Hot water temperature 149.0°F Water volume 3.2gal/min
- ★4 Operating conditions: Outside air temperature: 35.6°FDB, 33.8°FWB Water supply temperature 41.0°F Hot water temperature 149.0°F Water volume 2.2gal/min (including capacity reduction due to defrosting)
- ★5 Operating conditions: Outside air temperature: 60.8°FDB, 53.6°FWB Water entry temperature 140.0°F Water volume 3.8gal/min
- ★6 Operating conditions: Outside air temperature: 44.6°FDB, 42.8°FWB Incoming water temperature 140.0°F Water volume 3.8gal/min
- ★7 Operating conditions: Outside air temperature: 77.0°FDB, 69.8°FWB Incoming water temperature 140.0°F Water volume 3.8gal/min
- ★8 Operating conditions: Outside air temperature: 35.6°FDB, 33.8°FWB Water entry temperature 140.0°F Water volume 3.8gal/min (including capacity reduction due to defrosting)
- ★9 5-15/16in(150mm) between the heat source unit and the cascade unit, 0in(0mm) height difference
- The water quality used is water supply and JRA GL-02-1994 (high-level medium-temperature water system), and it cannot be used for drinking.
- The water supply water pressure should be 5.8psig(40kPa) or more, and the maximum working pressure on the water side is 72.5psig(500kPa).
- ★10 The driving sound conforms to JIS B 8616 standard and is the value when converted to an anechoic chamber. When measured in the actual installed state, it receives ambient noise and reflection. It is usually larger than the displayed value.
- When connecting pipes, Depending on the piping connection form (front connection, bottom connection), it is necessary to prepare on-site work (expansion, bending) and piping joints (L joints, same diameter joints).
- ★11 The pipe diameter on the gas side of the heat source unit is different between the heat source unit and the cascade unit. When arranging piping, procure with the gas side piping diameter between the heat source unit and the cascade unit.

## Heat Source Unit

Model Name			RXHWQ120MQTJA
Capacity★ <sup>1</sup>		Btu/hr	120,000
Exterior			Ivory White (5Y7.5/1)
Dimension	H x W x D	in	66-11/16 x 48-7/8 x 30-3/16
Heat Exchanger			Cross Fin Coil Heat Exchanger
Power Supply	Power		3-phase 208/230V 60 Hz
	MCA		55
	MOP		60
Compressor	Type		Hermetically Sealed Scroll Type
	Motor Output	kW	4.4 x 2
	Starting Method		Soft start (Inverter)
Fan	Type		Propeller Fan
	Motor Output	kW	0.75 x 2
	FLA	Amps	2.7 x 2
	Air Flow Rate	CFM	8,228
	Driving System		Direct Drive
Pump	Type		-
	Motor Output	kW	-
	Allowable External Head	kPa	-
Connection Pipes	Liquid Pipe	in	Φ1/2 C1220T (Brazing Connection)
	Gas Pipe	in	Φ1-1/8 C1220T (Brazing Connection)
Weight		lbs.	695
Sound Pressure		dBA	55 (Winter 59) <sup>2</sup>
Protective Devices			High Pressure Switch, Inverter Overload Protection Device, Fan Driver Overload Protective Device, Overcurrent Relay
Defrost Method			Deicer
Refrigerant	Refrigerant Name		R410A
	Refrigerant Amount	lbs.	18
	Control		Electronic Expansion Valve

### Notes

★1 Operating conditions: Outside air temperature: 60.8°FDB, 53.6°FWB. Entering Water 62.6°F. Leaving water temperature 149.0°F. Water volume 2.8gal/min

★2 Maximum pipe length of 65ft.

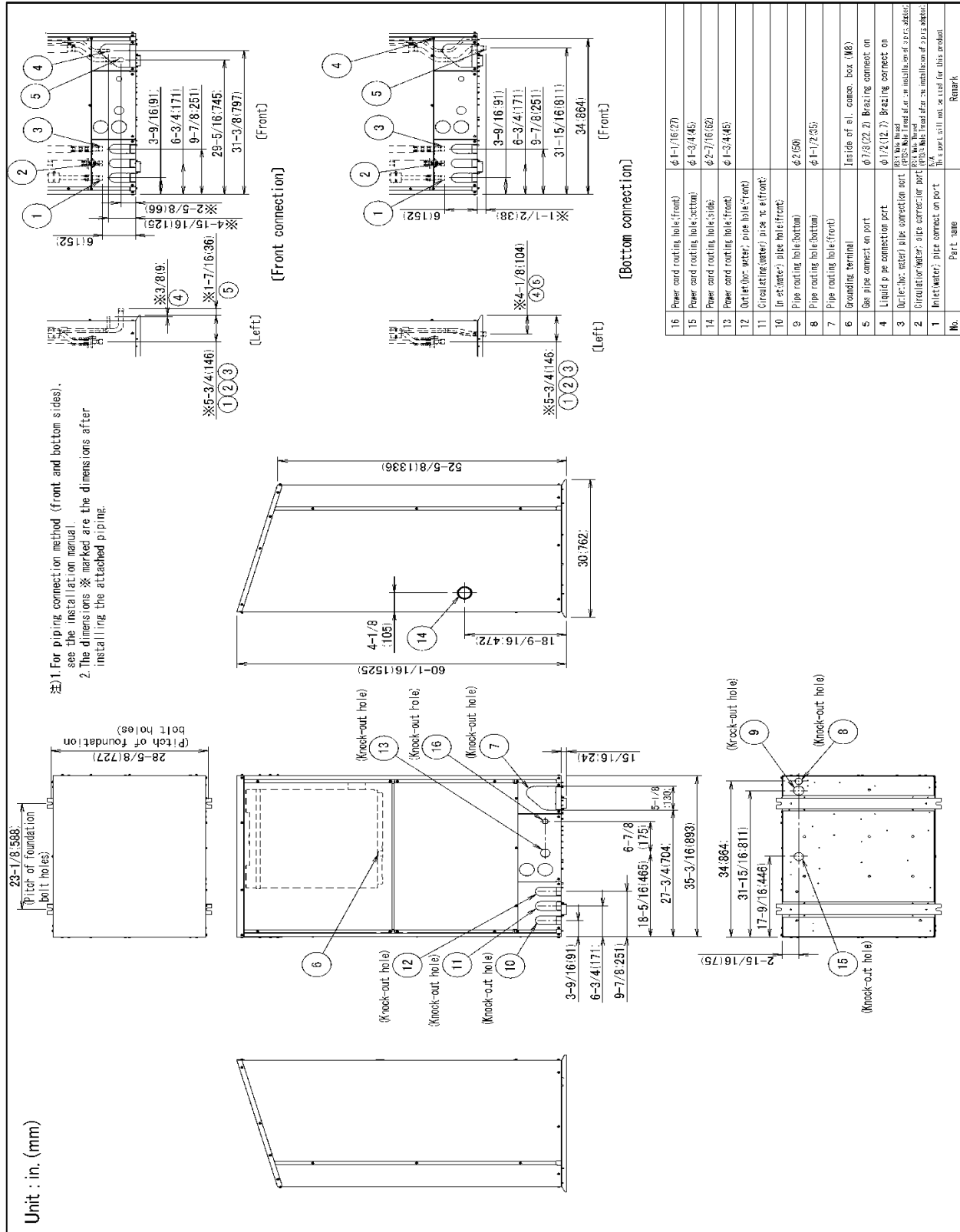
## Tank Controller kit

Unit Model Name				Tank Controller Kit	
Model Name				BRP26B2VJU	
Controller Box	Power Supply			1-phase 208/230V 60 Hz	
	Exterior			Ivory White (5Y7.5/1)	
	Dimensions	H x W x D	in. (mm)	17-11/16(450) x 11-13/16(300) x 3-15/16(100)	
	Weight		lbs. (kg)	23(10.5)	
External output				Operation ON	
				Malfunction	
External Input				Operation ON	
				Demand Control	
				Hot water set temperature switch	
Attached sensor				Thermistor for hot water tank (Screw type) x 3	
Accessory				Remote Controller	

### Notes

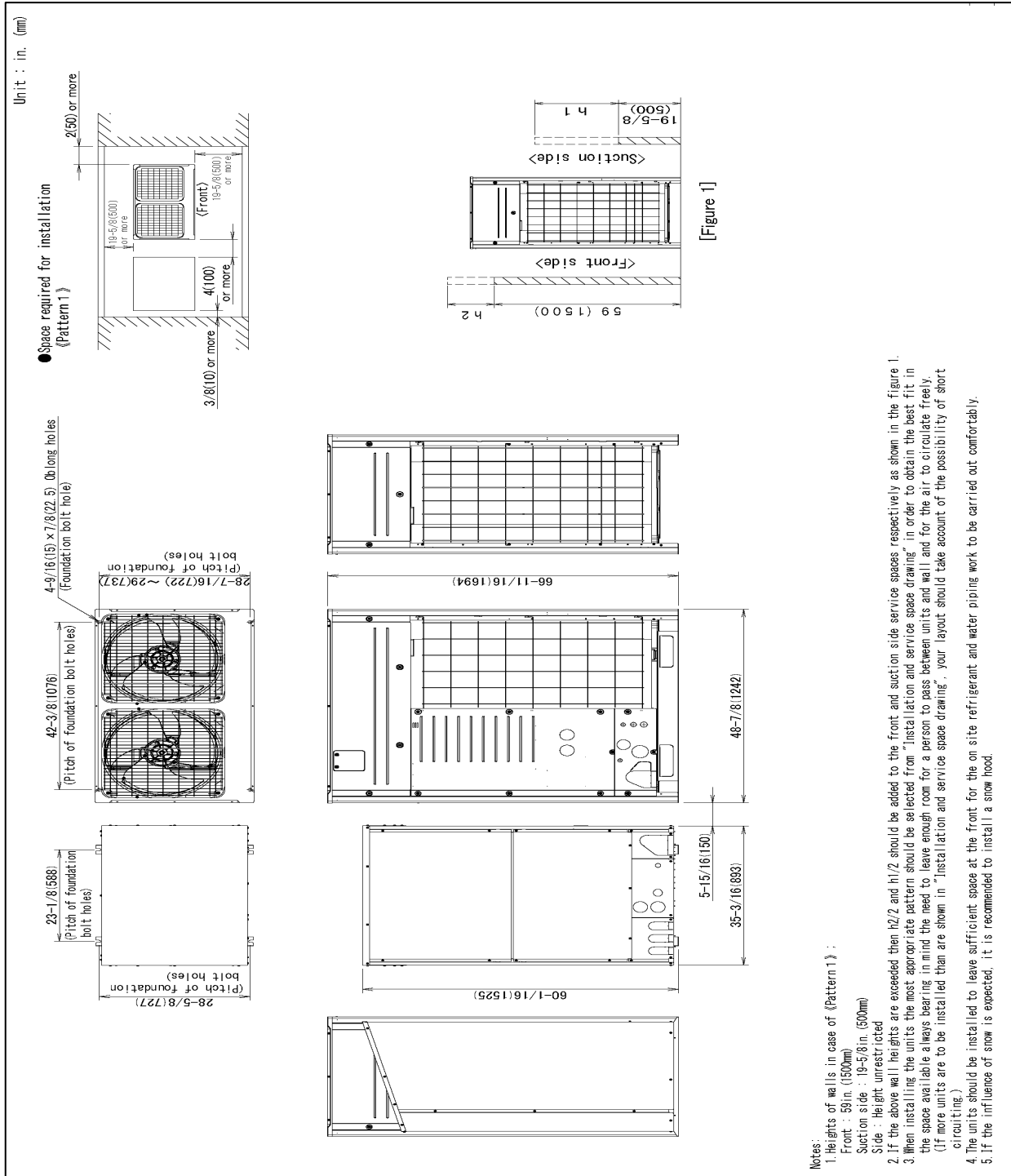
- 1) Tank controller allows temperature setting in °C.

# 4. Dimensions BWLP120TJU



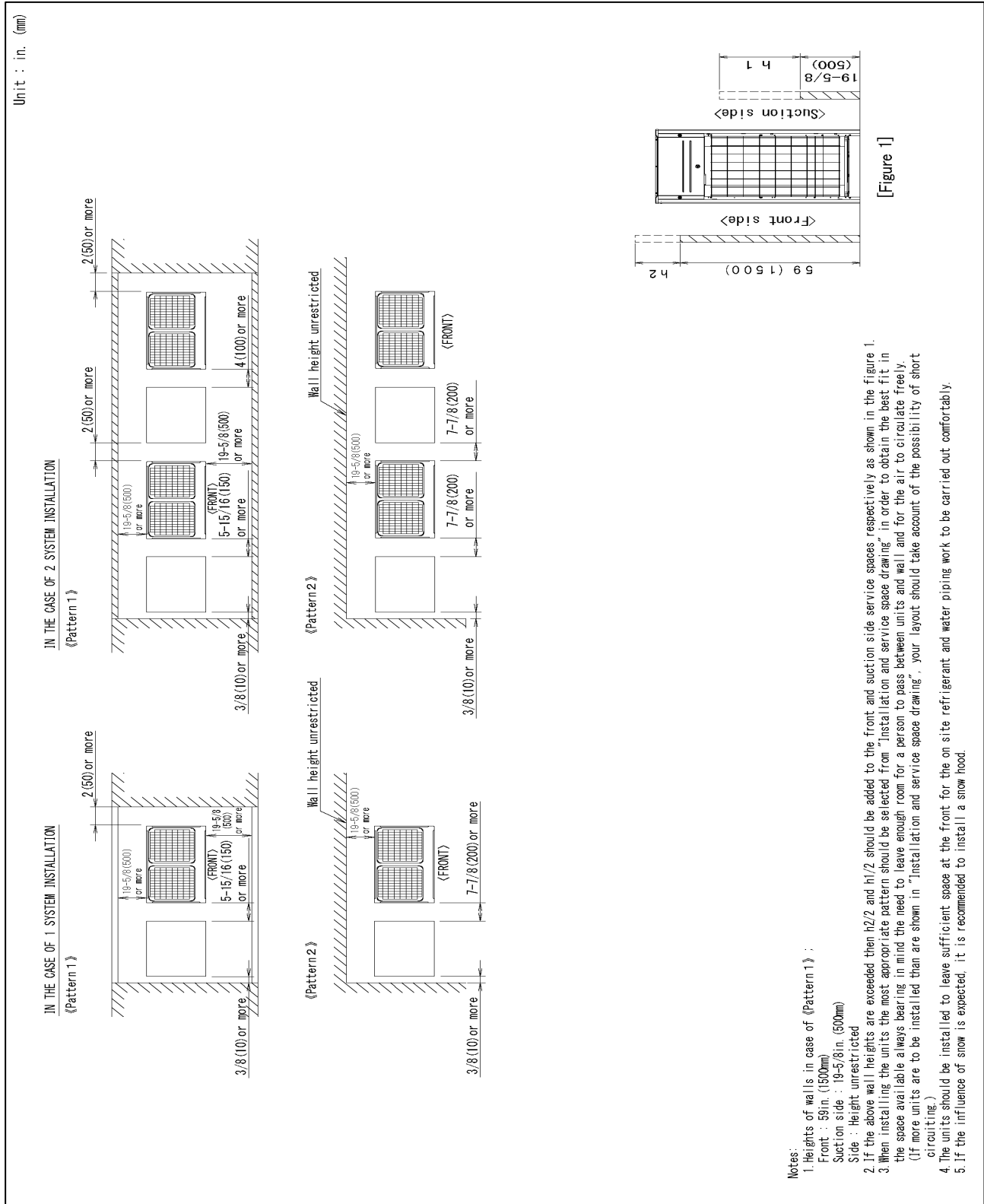


# RXHWQ120TATJA

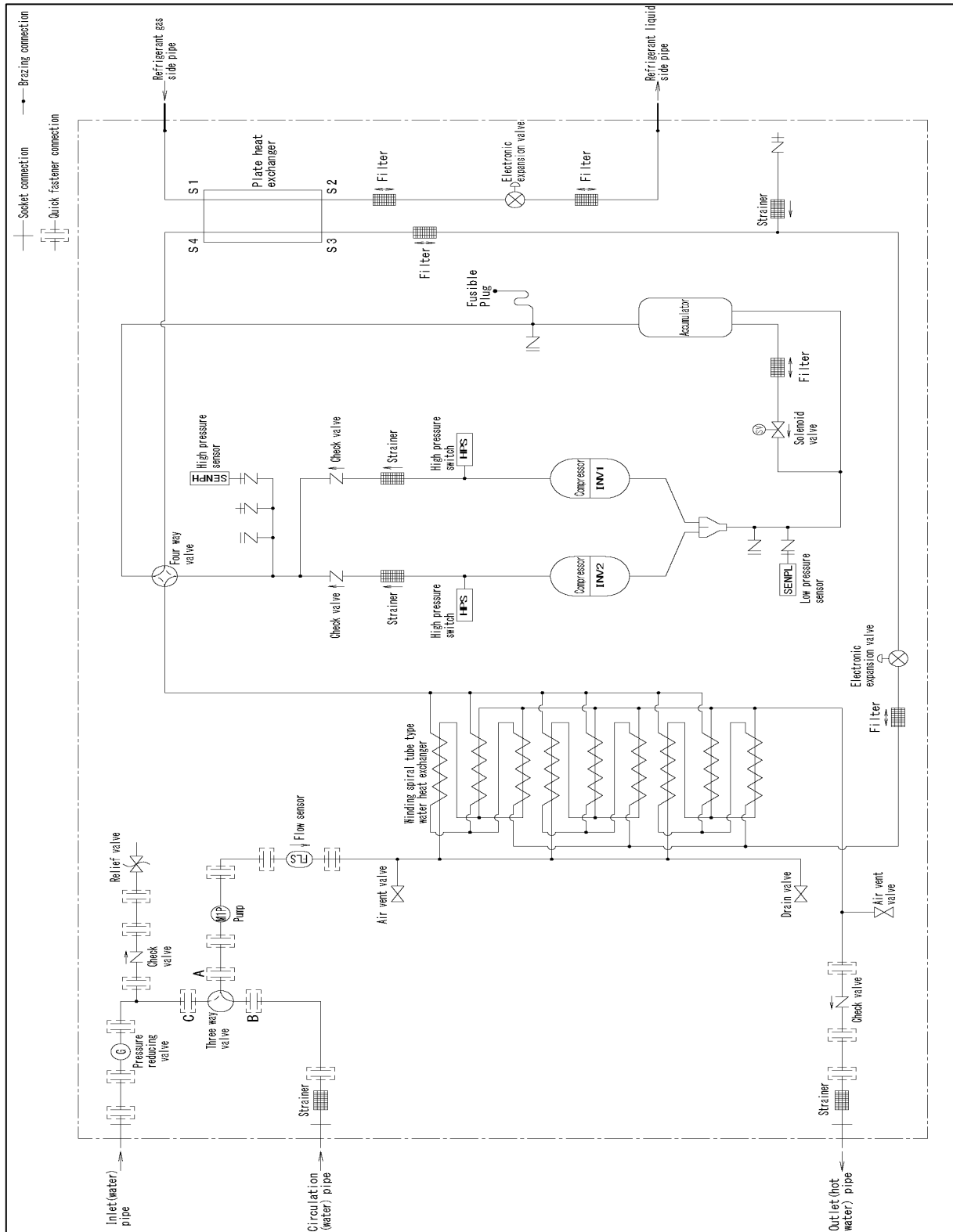


# 5. Service Space

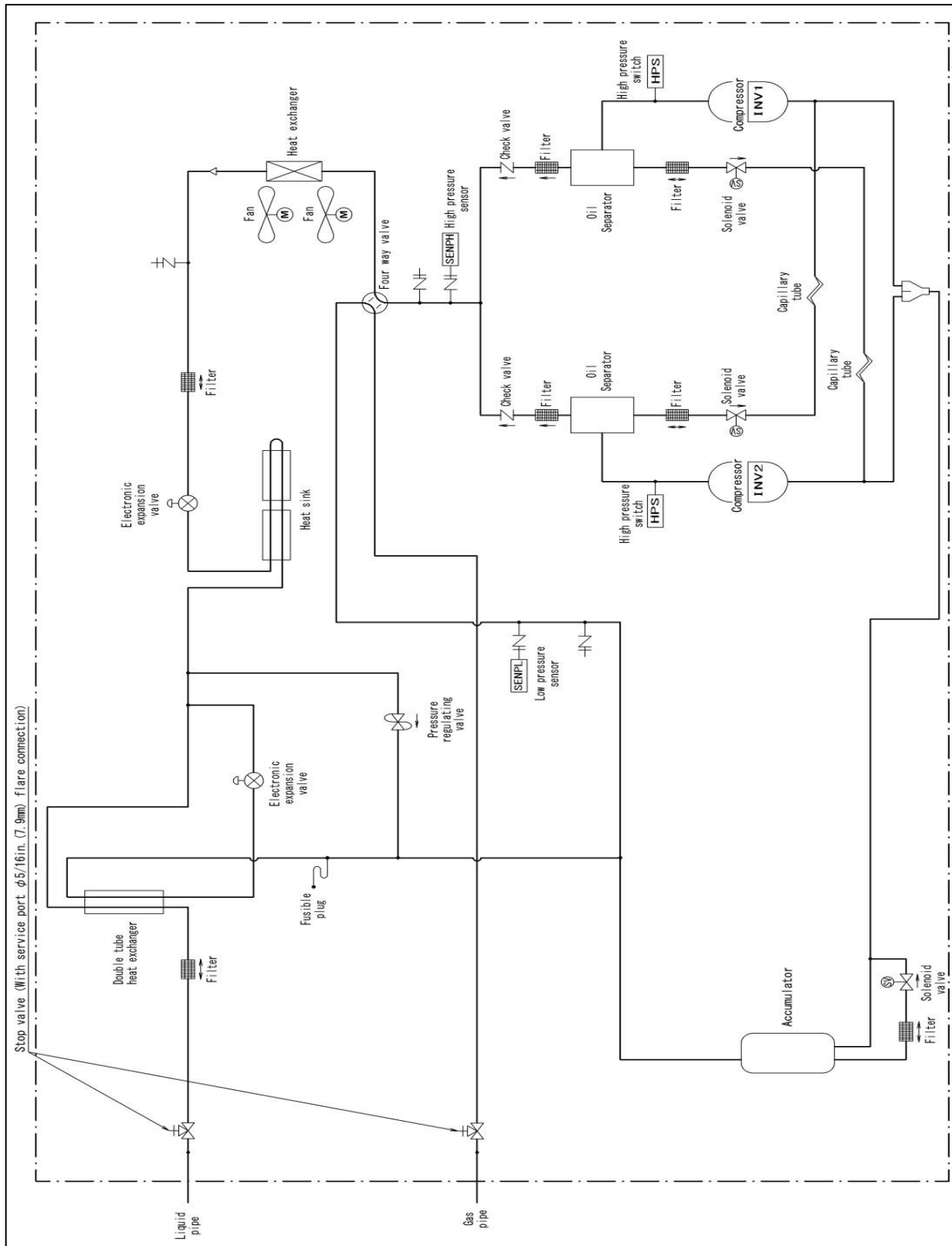
## RXHWQ120MQTJA + BWLP120TJU



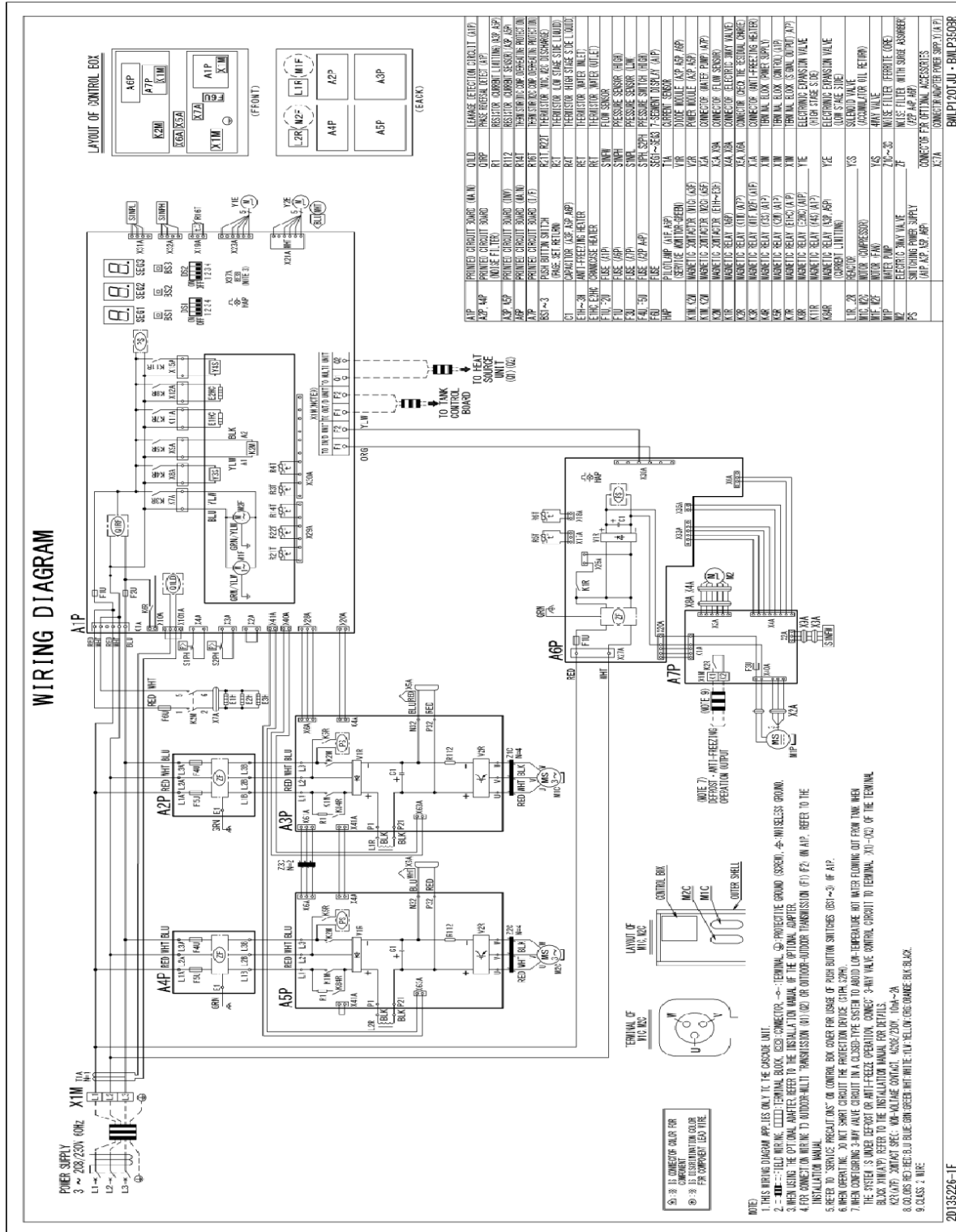
## 6. Piping Diagram BWLP120TJU



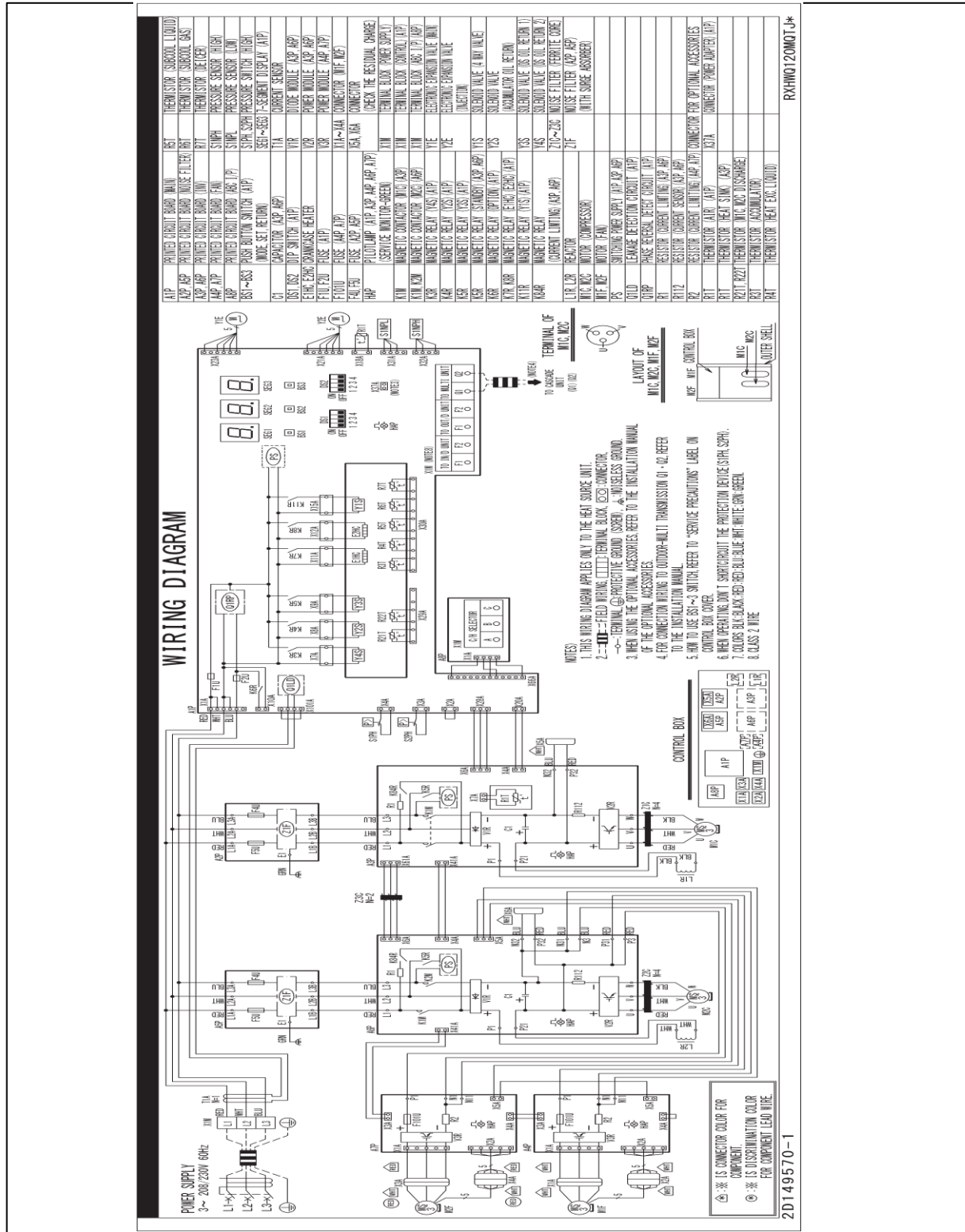
RXHWQ120TATJA



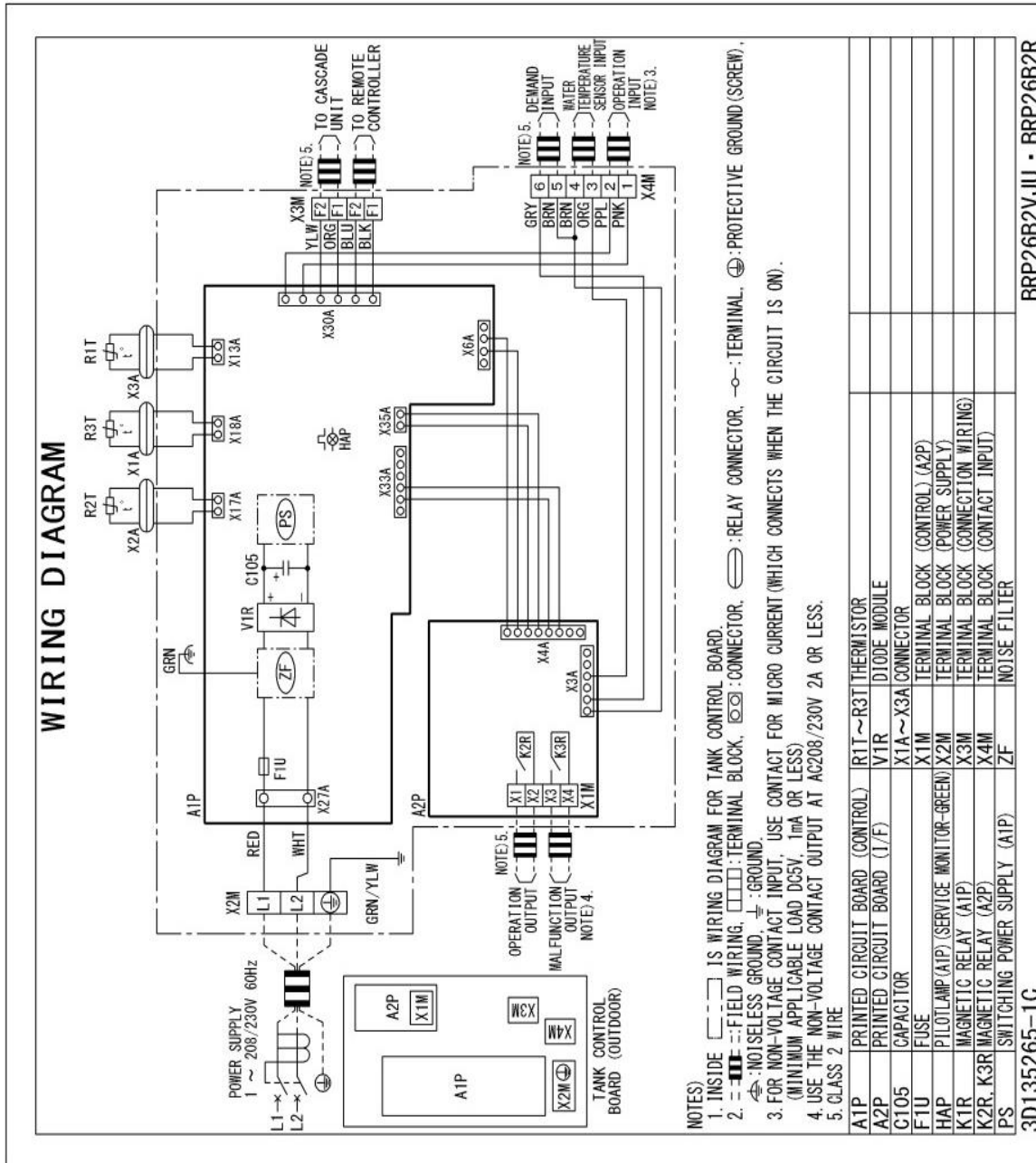
# 7. Wiring Diagram BWLP120TJU



RWHQ120TATJA

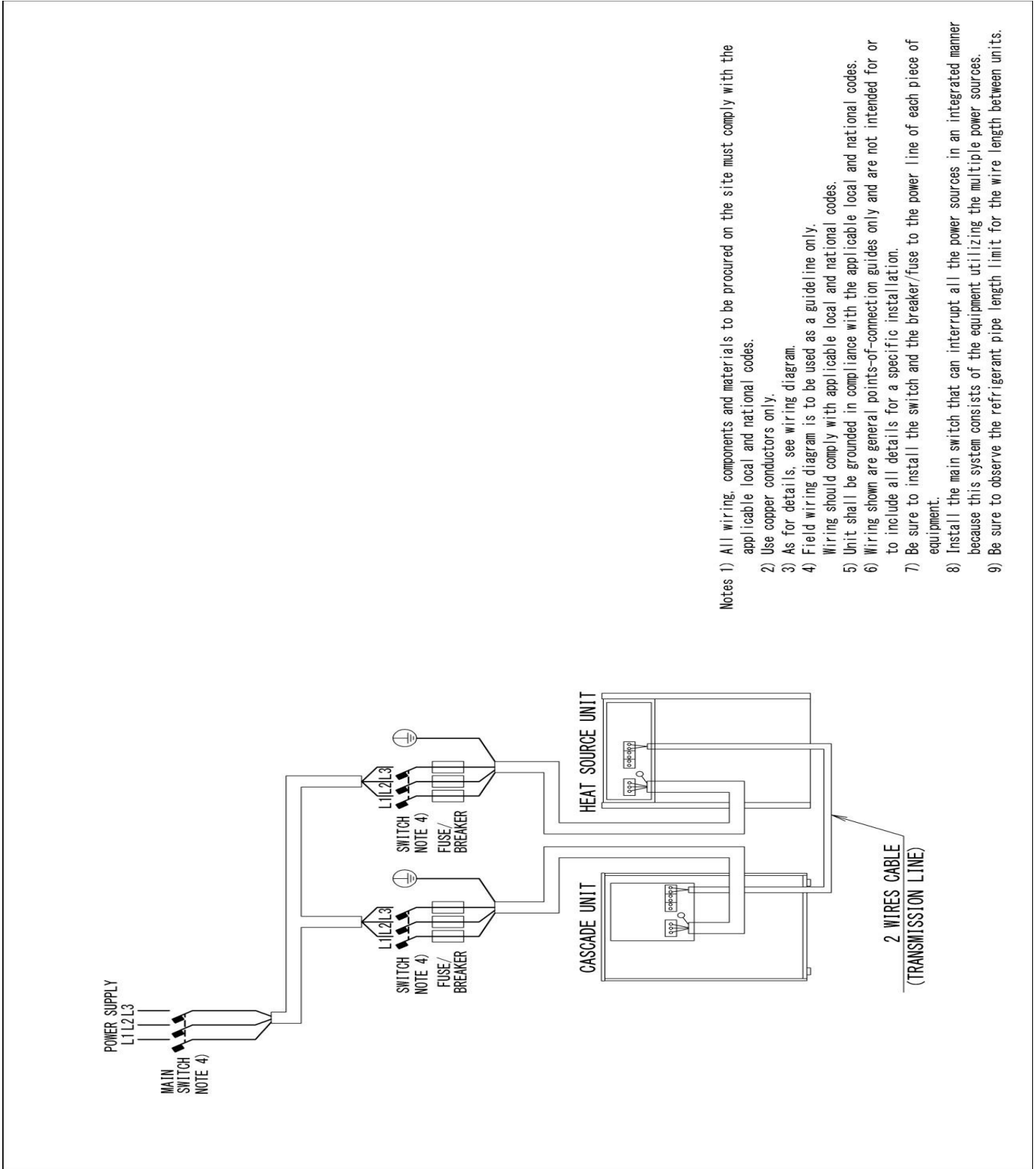


BRP26B2VJU



## 8. Field Wiring

### RXHWQ120MQTJA + BWLP120TJU



- 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 the multiple power sources.
  - 9) Be sure to observe the refrigerant pipe length limit for the wire length between units.



## 9. Electrical Characteristics

MODEL NAME	OPERATION MODE	UNIT			POWER SUPPLY			COMP.			WATER PUMP		
		Hz	Volts	Mb.	MCA	MOP	RLA	FLA	FLA	KW	FLA	FLA	SCOR
BWL1P50BR BWL1P20TJU	Water Heating Operation	60	208 / 230	187	43	50	5.0+5.5	0.2	0.6	0.2	0.6	SHORT-CIRCUIT CURRENT(SCCR): 5KA RMS SYMMETRICAL, 500V MAXIMUM	
	Water Reheating Operation	60	208 / 230	187	253	43	3.0+0	0.2	0.6	0.2	0.6		
MODEL NAME	OPERATION MODE	Hz	Volts	Mb.	MCA	MOP	RLA	FLA	FLA	OFM	FLA	SCOR	
RXY0144XA17 RXYW0120MQ17	Water Heating Operation	60	208 / 230	187	55.1	60	16.7+16.7	0.75x2	2.7x2	0.75x2	2.7x2	SHORT-CIRCUIT CURRENT(SCCR): 5KA RMS SYMMETRICAL, 500V MAXIMUM	
	Water Reheating Operation	60	208 / 230	187	253	43	4.8+4.8	0.75x2	2.7x2	0.75x2	2.7x2		

**Symbols:**

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

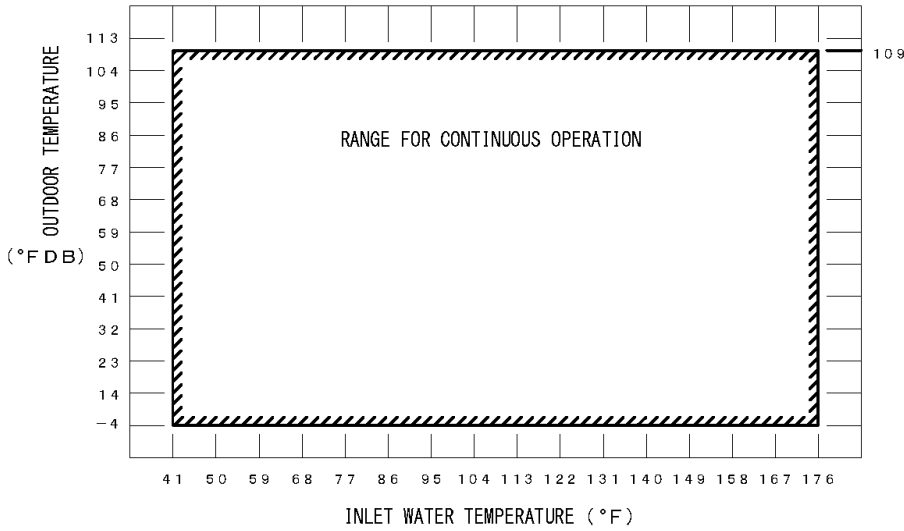
**Notes:**

1. RLA is based on the following condition:  
Outside air temperature: 44.6°FDB (16°CDB), 42.8°FWB (12°CWB), Water supply temperature 48.2°F (17°C), Hot water temperature 149.0°F (65°C), Water volume 2.4gal/min (10.5L/min)
2. Voltage range
3. Units are designed to operate only at the rated voltage provided in the table above.
4. The maximum percent unbalance of phase voltage shall be 2%.
5. Select wire size based on the value of MCA.
6. MOP is used to select the circuit breaker.
7. Refer to electrical characteristics of each independent unit for SCOR.

## 10.Operation Limits

### RXHWQ120MQTJA + BWLP120TJU

#### CLOSED TYPE TANK SYSTEM



Note)

1. Installation conditions : heat source unit-between cascade units within 65.6ft(20m) height difference within  $\pm 65.6$ ft(20m).
2. : Range for continuous operation.
3. See performance characteristics drawing for capacity changes.

# 11.Performance Characteristics

HOT WATER STORAGE OPERATION (WHEN THE HOT WATER TEMPERATURE IS SET TO 149 °F)

OUTDOOR TEMPERATURE		INLET WATER TEMPERATURE (°F)															
		41		48		63		75		86		95		104		122	
		CAPACITY	POWER CONSUMPTION	CAPACITY	POWER CONSUMPTION	CAPACITY	POWER CONSUMPTION	CAPACITY	POWER CONSUMPTION	CAPACITY	POWER CONSUMPTION	CAPACITY	POWER CONSUMPTION	CAPACITY	POWER CONSUMPTION	CAPACITY	POWER CONSUMPTION
°DB	°WB	MBH	KW	MBH	KW	MBH	KW	MBH	KW	MBH	KW	MBH	KW	MBH	KW	MBH	KW
-4	-6	95.5	13.0	95.5	13.0	93.8	13.0	92.1	13.0	92.1	13.3	90.4	13.8	80.2	12.3	49.5	8.40
14	12	112.6	14.5	112.6	14.5	112.6	14.6	112.6	14.7	102.4	13.7	92.1	12.7	80.2	11.0	49.5	7.20
23	21	119.4	14.8	119.4	14.8	119.4	14.9	119.4	15.0	102.4	13.3	92.1	12.2	80.2	10.6	49.5	6.70
36	34	119.4	14.0	119.4	14.0	119.4	14.3	119.4	14.5	97.2	12.3	88.7	11.1	78.5	9.90	49.5	6.40
41	39	119.4	10.6	119.4	10.6	119.4	10.7	119.4	10.9	119.4	11.4	102.4	9.80	85.3	8.60	51.2	5.50
45	43	119.4	10.1	119.4	10.1	119.4	10.2	119.4	10.5	119.4	10.9	102.4	9.50	85.3	8.20	51.2	5.35
61	54	119.4	8.75	119.4	8.75	119.4	8.75	119.4	8.95	119.4	9.55	102.4	8.20	85.3	7.40	51.2	4.70
77	70	119.4	7.61	119.4	7.61	119.4	7.61	119.4	7.61	119.4	8.00	102.4	7.00	85.3	6.10	51.2	3.90
95	81	119.4	7.15	119.4	7.15	119.4	7.15	119.4	7.15	119.4	7.15	102.4	6.20	85.3	5.40	51.2	3.50
109	95	119.4	7.05	119.4	7.05	119.4	7.05	119.4	7.05	119.4	7.05	102.4	6.05	85.3	5.30	51.2	3.30

HOT WATER STORAGE OPERATION (WHEN THE HOT WATER TEMPERATURE IS SET TO 158 °F)

OUTDOOR TEMPERATURE		INLET WATER TEMPERATURE (°F)															
		41		48		63		75		86		95		113		131	
		CAPACITY	POWER CONSUMPTION	CAPACITY	POWER CONSUMPTION	CAPACITY	POWER CONSUMPTION	CAPACITY	POWER CONSUMPTION	CAPACITY	POWER CONSUMPTION	CAPACITY	POWER CONSUMPTION	CAPACITY	POWER CONSUMPTION	CAPACITY	POWER CONSUMPTION
°DB	°WB	MBH	KW	MBH	KW	MBH	KW	MBH	KW	MBH	KW	MBH	KW	MBH	KW	MBH	KW
-4	-6	95.5	13.8	95.5	13.8	93.8	13.8	92.1	13.8	92.1	14.3	90.4	14.1	80.2	13.0	49.5	8.76
14	12	112.6	15.6	112.6	15.6	112.6	15.6	112.6	15.8	102.4	14.6	102.4	14.7	80.2	11.5	49.5	7.62
23	21	119.4	15.6	119.4	15.6	119.4	15.6	119.4	15.7	102.4	14.0	102.4	14.2	80.2	11.0	49.5	7.11
36	34	119.4	14.9	119.4	14.9	119.4	15.2	119.4	15.6	97.2	13.0	97.2	13.2	78.5	10.3	49.5	6.59
41	39	119.4	11.1	119.4	11.1	119.4	11.2	119.4	11.4	119.4	12.1	119.4	12.2	85.3	9.27	51.2	5.97
45	43	119.4	10.6	119.4	10.6	119.4	10.7	119.4	11.0	119.4	11.5	119.4	11.8	85.3	8.65	51.2	5.85
61	54	119.4	9.33	119.4	9.33	119.4	9.33	119.4	9.52	119.4	10.2	119.4	10.4	85.3	7.73	51.2	5.08
77	70	119.4	8.24	119.4	8.24	119.4	8.24	119.4	8.24	119.4	8.63	119.4	8.83	85.3	6.44	51.2	4.27
95	81	119.4	7.78	119.4	7.78	119.4	7.78	119.4	7.78	119.4	7.89	119.4	8.08	85.3	5.90	51.2	3.94
109	95	119.4	7.54	119.4	7.54	119.4	7.54	119.4	7.54	119.4	7.62	119.4	7.67	85.3	5.61	51.2	3.62

HOT WATER STORAGE OPERATION (WHEN THE HOT WATER TEMPERATURE IS SET TO 176 °F)

OUTDOOR TEMPERATURE		INLET WATER TEMPERATURE (°F)																	
		41		48		63		75		86		95		113		131		149	
		CAPACITY	POWER CONSUMPTION	CAPACITY	POWER CONSUMPTION	CAPACITY	POWER CONSUMPTION	CAPACITY	POWER CONSUMPTION	CAPACITY	POWER CONSUMPTION	CAPACITY	POWER CONSUMPTION	CAPACITY	POWER CONSUMPTION	CAPACITY	POWER CONSUMPTION	CAPACITY	POWER CONSUMPTION
°DB	°WB	MBH	KW	MBH	KW	MBH	KW	MBH	KW	MBH	KW	MBH	KW	MBH	KW	MBH	KW	MBH	KW
-4	-6	95.5	15.2	95.5	15.2	93.8	15.2	92.1	15.0	92.1	15.5	92.1	16.1	88.7	16.3	80.2	15.1	49.5	10.5
14	12	112.6	18.8	112.6	18.8	112.6	18.8	112.6	18.8	102.4	15.6	102.4	15.9	102.4	16.8	80.2	12.9	49.5	9.00
23	21	119.4	16.6	119.4	16.6	119.4	16.6	119.4	16.9	102.4	14.9	102.4	15.4	102.4	16.4	80.2	12.7	49.5	8.63
36	34	119.4	16.1	119.4	16.1	119.4	16.3	119.4	16.5	97.2	13.8	97.2	14.1	97.2	15.2	78.5	11.9	49.5	7.78
41	39	119.4	12.0	119.4	12.0	119.4	12.2	119.4	12.3	119.4	12.8	119.4	13.3	119.4	14.9	85.3	11.0	51.2	6.84
45	43	119.4	11.7	119.4	11.7	119.4	11.8	119.4	11.9	119.4	12.5	119.4	13.1	119.4	13.7	85.3	10.4	51.2	6.58
61	54	119.4	10.4	119.4	10.4	119.4	10.4	119.4	10.5	119.4	11.1	119.4	11.6	119.4	12.2	85.3	9.32	51.2	5.71
77	70	119.4	9.28	119.4	9.28	119.4	9.28	119.4	9.28	119.4	9.51	119.4	9.91	119.4	10.5	85.3	8.15	51.2	5.20
95	81	119.4	8.74	119.4	8.74	119.4	8.74	119.4	8.74	119.4	8.77	119.4	9.12	119.4	9.56	85.3	7.49	51.2	4.84
109	95	119.4	8.41	119.4	8.41	119.4	8.41	119.4	8.41	119.4	8.43	119.4	8.67	119.4	8.87	85.3	6.98	51.2	4.54

HOT WATER STORAGE OPERATION (WHEN THE HOT WATER TEMPERATURE IS SET TO 194 °F)

OUTDOOR TEMPERATURE		INLET WATER TEMPERATURE (°F)																			
		41		48		63		75		86		95		113		131		149		161 (OUTLET WATER UP TO 187)	
		CAPACITY	POWER CONSUMPTION	CAPACITY	POWER CONSUMPTION	CAPACITY	POWER CONSUMPTION	CAPACITY	POWER CONSUMPTION	CAPACITY	POWER CONSUMPTION	CAPACITY	POWER CONSUMPTION	CAPACITY	POWER CONSUMPTION	CAPACITY	POWER CONSUMPTION	CAPACITY	POWER CONSUMPTION	CAPACITY	POWER CONSUMPTION
°DB	°WB	MBH	KW	MBH	KW	MBH	KW	MBH	KW	MBH	KW	MBH	KW	MBH	KW	MBH	KW	MBH	KW	MBH	KW
-4	-6	95.5	16.7	95.5	16.7	93.8	16.7	92.1	16.3	92.1	17.1	92.1	17.5	92.1	18.0	88.7	17.9	69.9	15.6	37.5	8.48
14	12	112.6	18.3	112.6	18.3	112.6	18.3	112.6	18.5	102.4	16.9	102.4	17.3	102.4	17.9	95.5	16.8	69.9	13.0	37.5	7.46
23	21	119.4	17.7	119.4	17.7	119.4	17.7	119.4	18.0	102.4	15.8	102.4	16.5	102.4	17.5	95.5	16.2	69.9	12.5	37.5	7.24
36	34	119.4	17.4	119.4	17.4	119.4	17.4	119.4	17.4	97.2	14.7	97.2	15.7	97.2	16.5	93.8	15.2	75.1	11.7	37.5	6.79
41	39	119.4	12.9	119.4	13.0	119.4	13.1	119.4	13.1	119.4	13.9	119.4	14.8	119.4	15.8	105.8	15.1	75.1	11.2	37.5	6.01
45	43	119.4	12.6	119.4	12.8	119.4	12.8	119.4	12.8	119.4	13.4	119.4	14.4	119.4	14.7	105.8	14.1	75.1	10.5	37.5	5.61
61	54	119.4	11.5	119.4	11.5	119.4	11.6	119.4	11.6	119.4	12.2	119.4	13.1	119.4	13.2	105.8	12.8	75.1	9.60	37.5	5.19
77	70	119.4	10.6	119.4	10.6	119.4	10.6	119.4	10.6	119.4	10.7	119.4	11.2	119.4	11.9	105.8	11.2	75.1	8.43	37.5	4.74
95	81	119.4	10.0	119.4	10.0	119.4	10.0	119.4	10.0	119.4	10.2	119.4	10.8	119.4	11.2	105.8	10.2	75.1	7.84	37.5	4.40
109	95	119.4	9.38	119.4	9.38	119.4	9.38	119.4	9.38	119.4	9.48	119.4	10.1	119.4	10.3	105.8	9.34	75.1	7.12	37.5	4.18

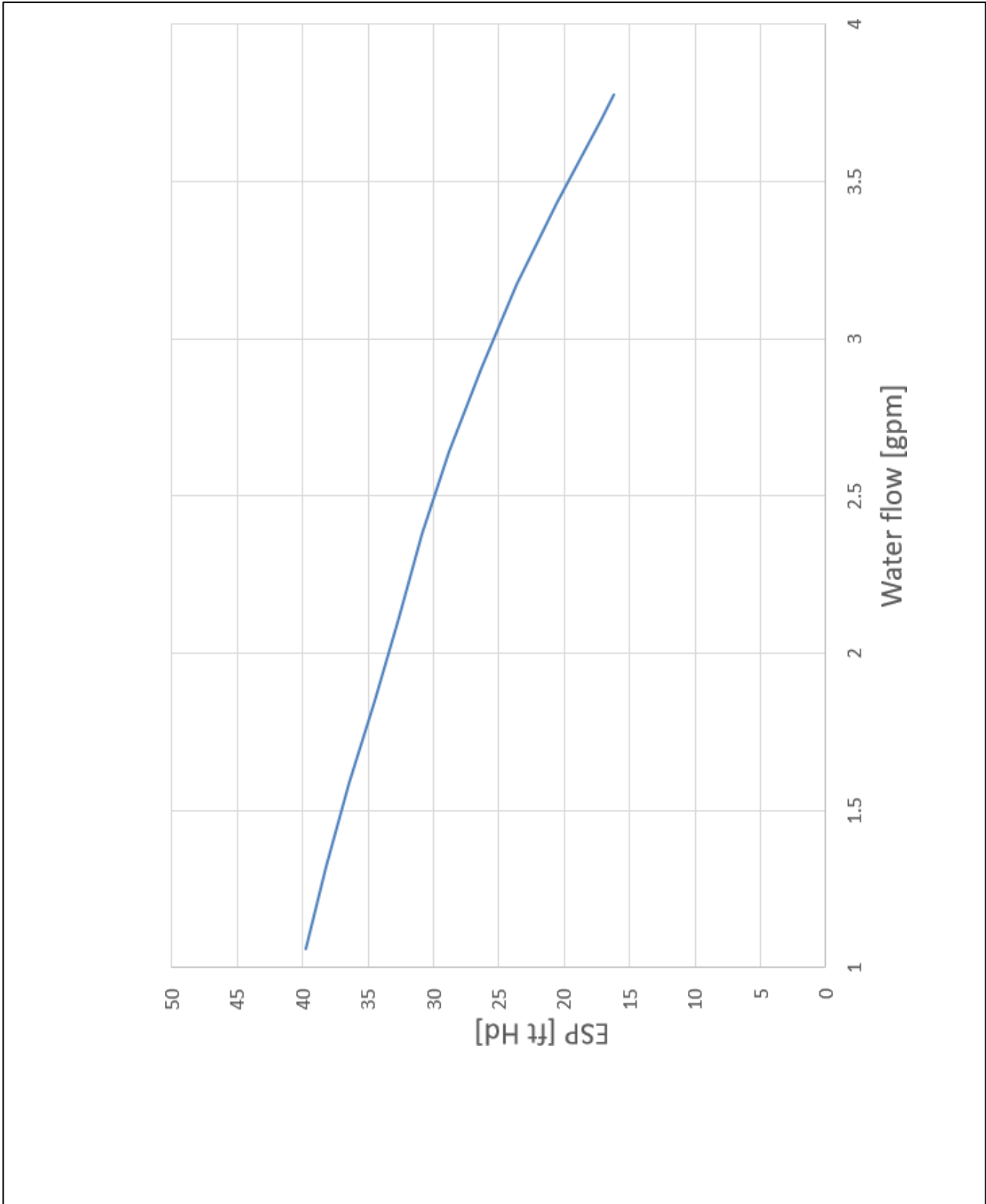
※The outlet water temperature at 194F is up to 158F of the inlet water temperature, and the inlet water temperature at 158F or higher is up to 187F of the outlet water temperature.

TANK HEAT RETENTION OPERATION

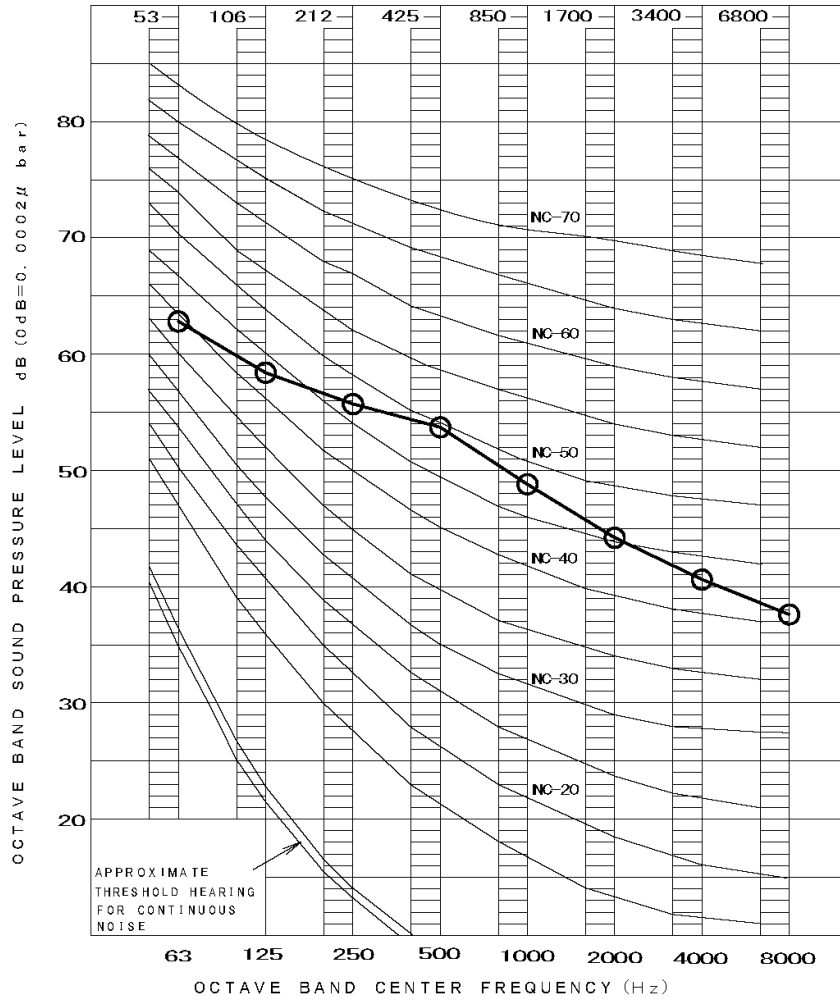
OUTDOOR TEMPERATURE		INLET WATER TEMPERATURE (°F)							
		122		140		158		176	
		CAPACITY	POWER CONSUMPTION	CAPACITY	POWER CONSUMPTION	CAPACITY	POWER CONSUMPTION	CAPACITY	POWER CONSUMPTION
°DB	°WB	MBH	KW	MBH	KW	MBH	KW	MBH	KW
-4	-6	44.4	7.80	44.4	8.90	44.4	9.30	20.5	5.20
14	12	44.4	6.60	44.4	7.60	44.4	8.30	20.5	4.40
23	21	44.4	6.01	44.4	7.00	44.4	7.80	20.5	4.10
36	34	44.4	5.74	44.4	6.20	44.4	7.00	20.5	3.60
41	39	44.4	4.77	44.4	5.15	44.4	6.00	20.5	3.40
45	43	44.4	4.64	44.4	5.00	44.4	5.90	20.5	3.20
61	54	44.4	4.07	44.4	4.33	44.4	5.05	20.5	3.00
77	70	44.4	3.29	44.4	3.94	44.4	4.60	20.5	2.80
95	81	44.4	3.03	44.4	3.70	44.4	4.40	20.5	2.80
109	95	44.4	2.86	44.4	3.50	44.4	4.10	20.5	2.80

- Note)
1. Power consumption indicates heat source unit power consumption + cascade unit power consumption.
  2. The outlet water temperature is the temperature of the cascade unit, not the inlet temperature of the tank. The inlet temperature of the tank become lower than the outlet temperature of cascade unit depending on the pipe length, outside air temperature, and the heat insulation.
  3. The unit installation conditions show the case of the connecting pipe length : 3.3ft and the height difference : 0ft.
  4. [ ] Indicate the nominal value for the frosting period, winter, intermediate, and summer.
  5. Includes the decrease of capacity during defrosting operation.

### 12.Head Pressure Curve (Integrated Water Pump)



### 13.Sound Level



OVER ALL (dB)

SCALE	60Hz
A	55

(B. G. N IS ALREADY RECTIFIED)

OPERATING CONDITIONS

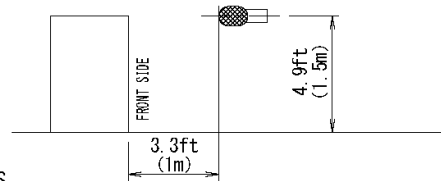
POWER SOURCE 208/230 V 60 Hz

INTERMEDIATE HEATING RATING CONDITIONS

MEASURING PLACE

ANECHOIC CHAMBER (CONVERSION VALUE)

LOCATION OF MICROPHONE

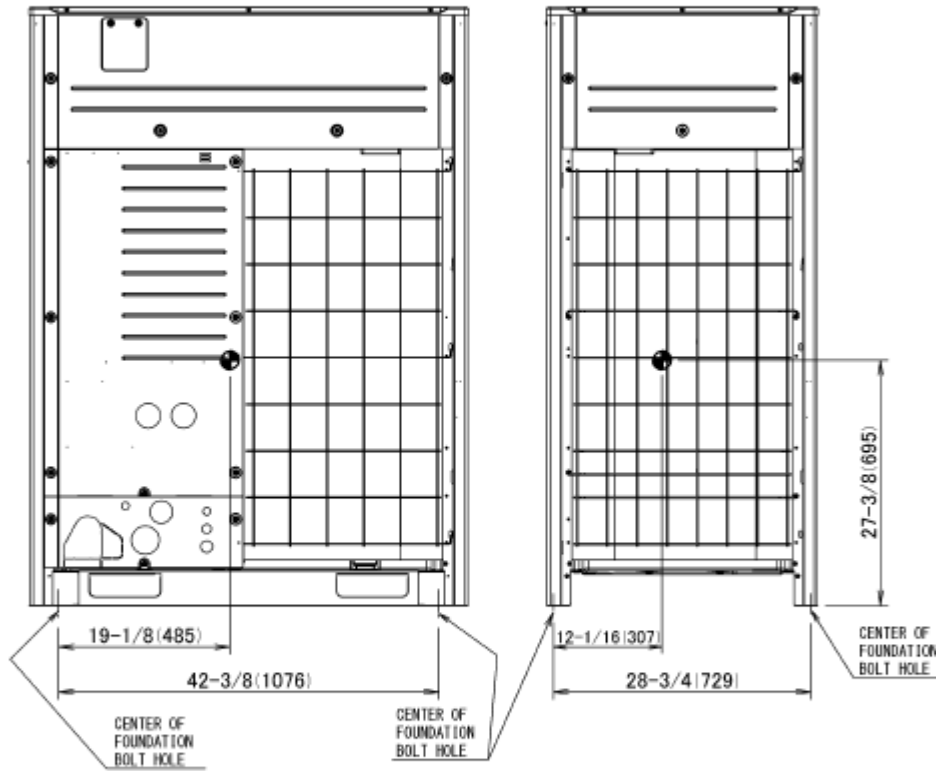


NOTE)  
 THE OPERATING SOUND IS MEASURED IN ANECHOIC CHAMBER,  
 IF IT IS MEASURED UNDER THE ACTUAL INSTALLATION CONDITIONS,  
 IT IS NORMALLY OVER THE SET VALUE DUE TO ENVIRONMENTAL NOISE  
 AND SOUND REFLECTION.

### 14.Center of Gravity

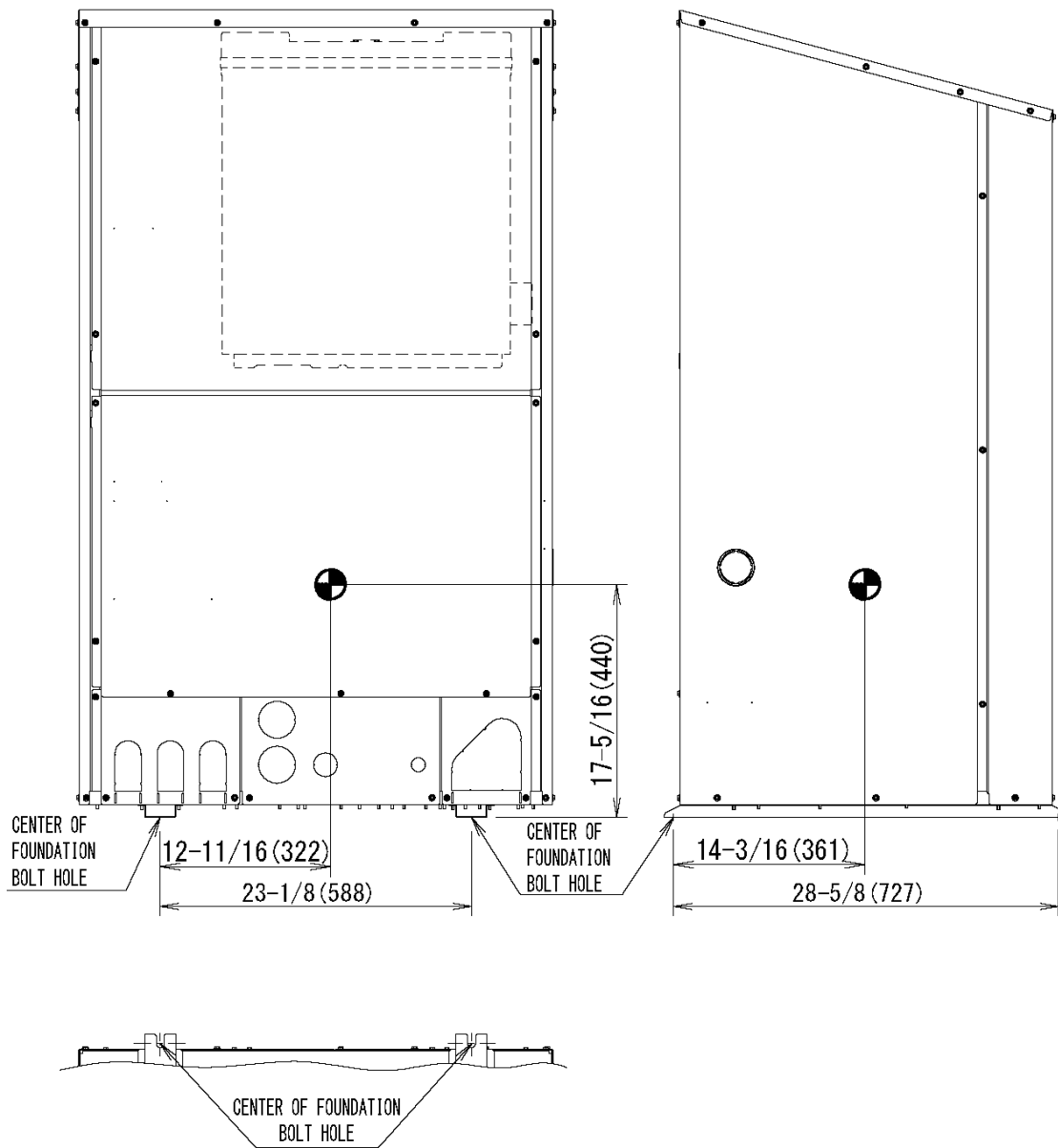
### RXHWQ120MQTJA

Unit : in. (mm)



# BWLP120TJU

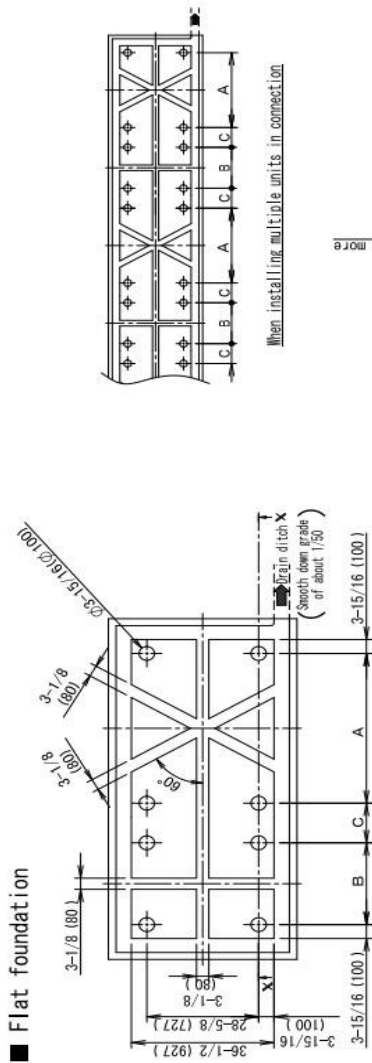
Unit : in. (mm)



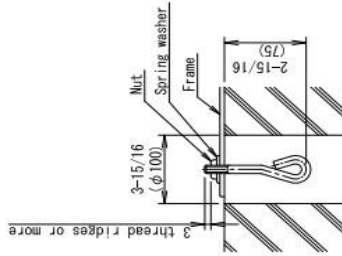
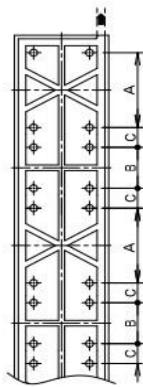
# 15.Foundation Drawing

RXHWQ120MQTJA + BWLP120TJU

Unit : in. (mm)



When installing multiple units in connection



Foundation bolt executing method (part 4)

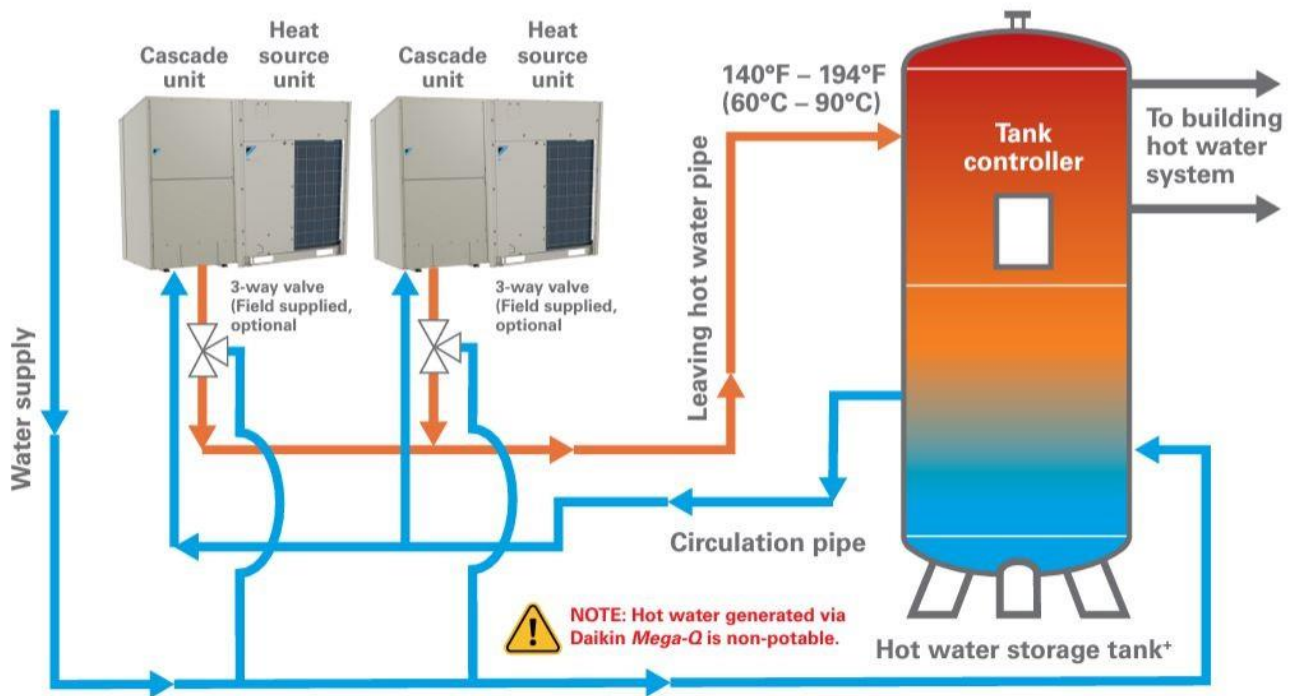
Model	A	B	C	Foundation Bolt	
				Type	Piece
BWLP350BR	42-3/8 (1076)	23-1/8 (588)	11-1/4 (285) or more	JA	8
RXYQ144KATJ*					
BWLP120TJU					
RXHWQ120MQTJ*					

**Notes)**

- 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. 11-3/4in. (300mm) intervals) shall be placed.
- The surface shall be finished with mortar. The corner edges shall be chamfered.
- 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.
- A drain ditch shall be made around the foundation to thoroughly drain water from the equipment installation area.
- When installing the equipment on a roof, the floor strength shall be checked, and water-proofing measures shall be taken.
- Determine the required installation space for maintenance and the dimensions between the units based on the "installation and service space".



## 16. System Layout Example



Note: Contact your local Daikin representative for details on water side requirements such as expansion tanks, valves, et

**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 enquiries, 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.