HITACHI PACKAGED AIR CONDITIONERS
— WATER-COOLED TYPE —

HITACHI

Nominal Capacity Range

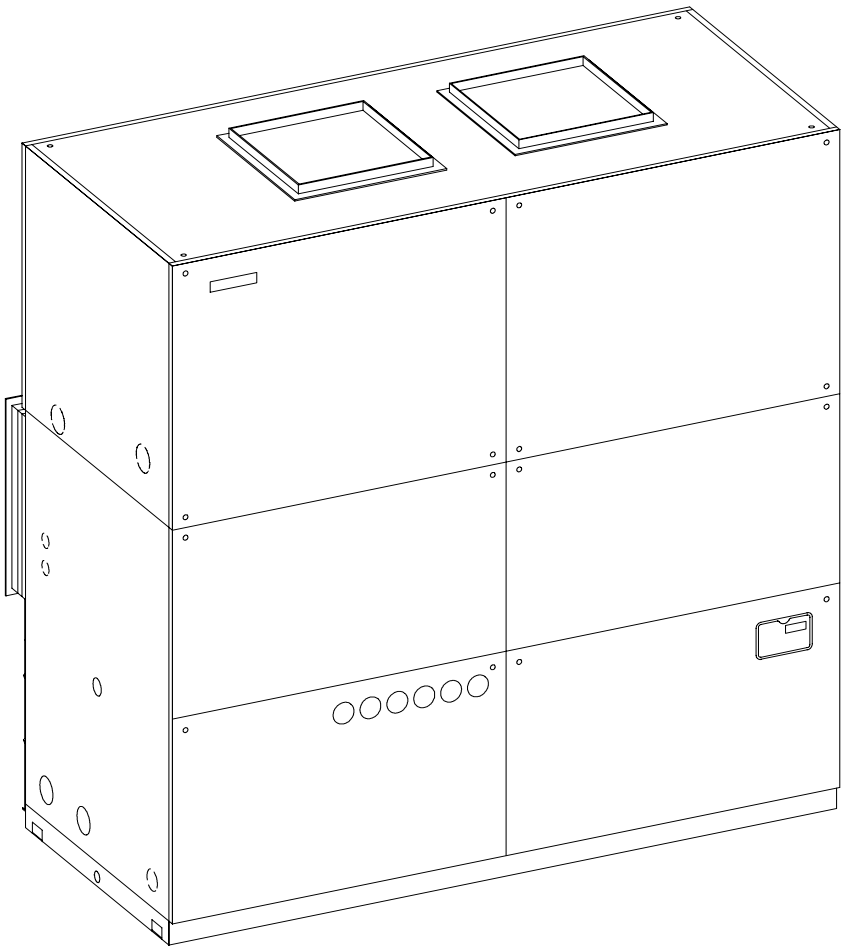
12,000	kcal/h	to	96,300	kcal/h	at 50Hz
14,000	W	to	112,000	W	
47,700	Btu/h	to	382,100	Btu/h	
13,800	kcal/h	to	107,500	kcal/h	at 60Hz
16,000	W	to	125,000	W	
54,600	Btu/h	to	426,500	Btu/h	

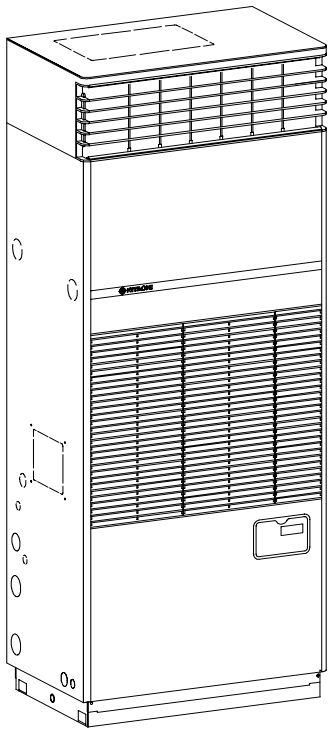
REFRIGERANT : R407C

Technical Catalog I
- Design Information -

Models: Free-Blow Type
- RP-P5W
- RP-P8W
- RP-P10W
- RP-P15W

Duct Connection Type
- RP-P5WP
- RP-P8WP
- RP-P10WP
- RP-P15WP
- RP-P20WP
- RP-P25WP
- RP-P30WP
- RP-P40WP

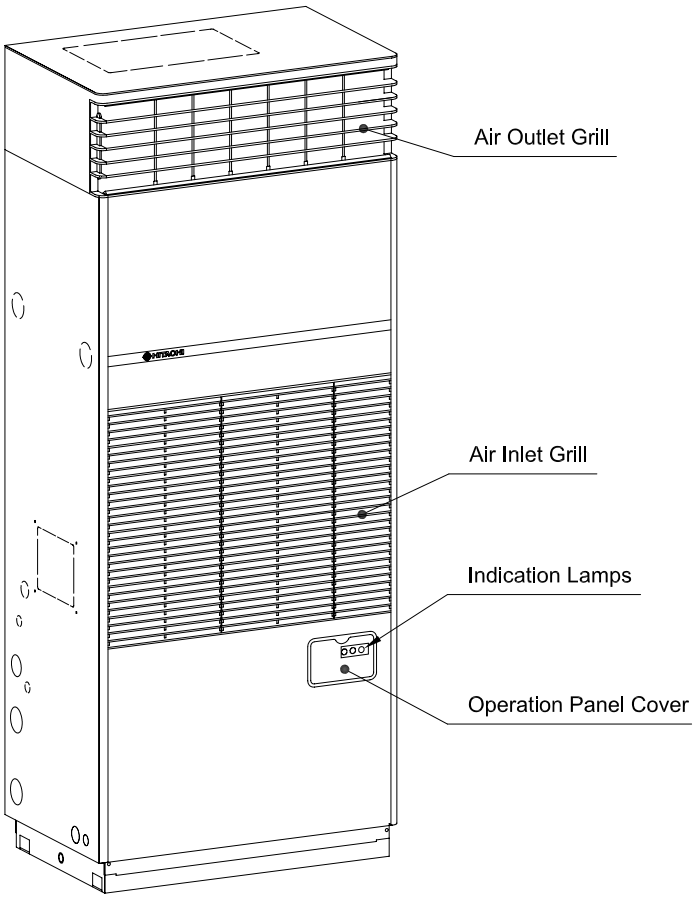




TW-TC1-01(407C), 2007

STREAMLINED SHAPE AND 5～40HP MODELS

HITACHI has developed a larger packaged air conditioners <Water-cooled type> with a sleek new look. In addition to excellent performance providing high efficiency, high reliability and low noise, the design has been upgraded.
Moreover, a slim design has further relaxed restrictions on installation. The air conditioners of this type are available for use in factories, stations, exhibition halls, art museums and similar places. An extensive lineup features 5 to 40 horsepower models. In particular, all models adopt a high-efficiency scroll compressor. Users can choose the optimum model according to applications or purposes.



Model: RP-P5W

NEW DESIGN

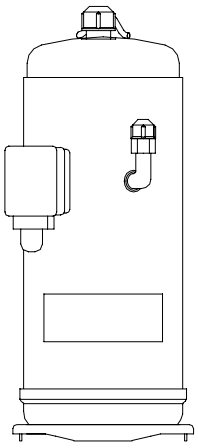
NEW DESIGNS HAVE FURTHER EASED RESTRICTIONS ON INSTALLATION AND APPLICATION.

Air conditioners installed indoor units require not only functional elements but also design elements.
HITACHI's packaged air conditioners have been newly designed. Popular horizontal stripes are used with discharge and suction grills. The form is generally rounded producing a soft image. A slimmer type models can be installed in various places. The UTOPIA beige color offers easy harmony with any wall.

SCROLL COMPRESSORS 5～40HP

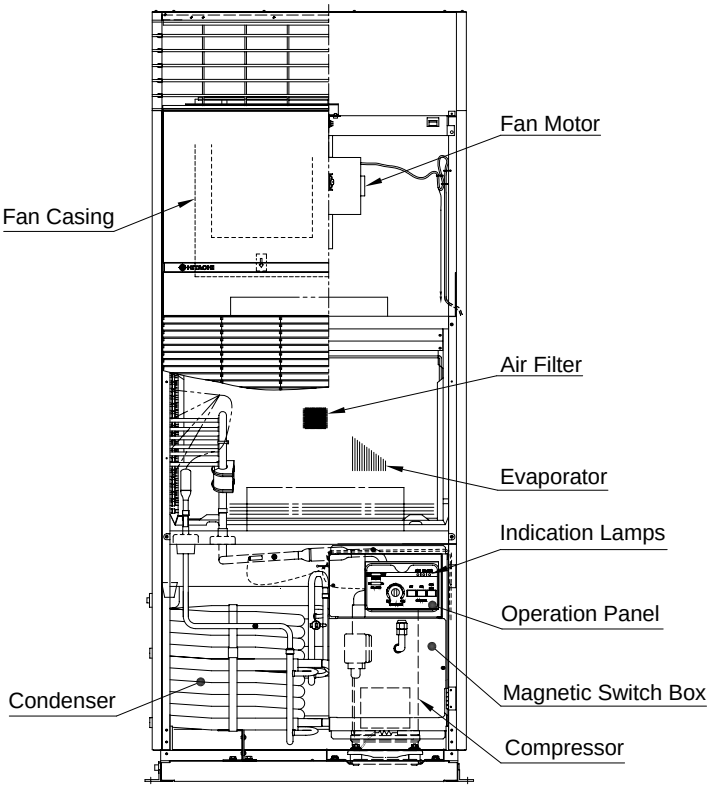
ADOPTION OF WORLD'S FIRST HIGH-PERFORMANCE SCROLL COMPRESSORS.

The 5 to 40 horsepower models incorporate the world's first, unique, epoch-making scroll compressors featuring a completely new principle of compression which allows simultaneous operation of suction, compression and discharge, thus providing much less running loss, lower vibration, lower noise and higher reliability.



Scroll Compressor

TOP OF THE LINE PERFORMANCE WITH A HIGH-EFFICIENCY SCROLL



Model : RP-P5W

FEATURES

CENTRALIZED CONTROL ON OPERATION PANEL

Every running status can be controlled from the operation panel installed on front of the unit and checked by indication lamps. The operation panel is excellent in functionality as well as operability.

ENERGY CONSERVATION

HITACHI's unique compressor, evaporator and condenser greatly improve energy efficiency, thus contributing to energy conservation.

HIGH RELIABILITY

Safety devices such as a quick response overcurrent relay and a pressure switch assure high reliability.

LOW NOISE AND LOW VIBRATION

Vibration-proof rubber seals and cabinet acoustic materials ensure low noise and low vibration.

EASY MAINTENANCE

There is an enough maintenance space inside the unit to further facilitate maintenance

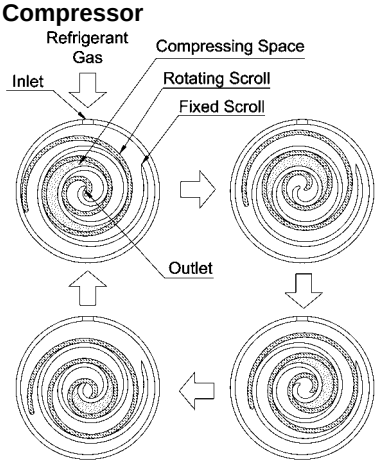
EXCELLENT ENERGY EFFICIENCY REDUCES RUNNING COSTS.

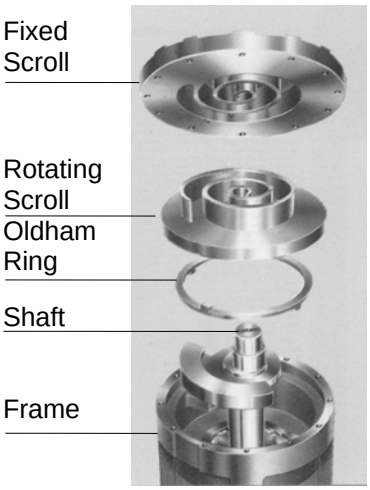
Excellent energy efficiency results from less loss caused by leakage from the high-pressure section to the low-pressure section and no energy loss due to valve vibration.

HIGH RELIABILITY.

To get high reliability, each of the scroll compressors consists of only five parts and has no valve, which was one of the main problems with conventional reciprocating units.

Compression Principle of Scroll Compressor





ACCESSORIES

FURTHER FUNCTIONAL EXPANSION

Various options are available such as an electric heater, a hot water heater, a steam heater and a humidifier. Easy installation of such options enables further expansion of functions.

Unit General Data

Free-Blow Type Units

Model			RP-P5W	RP-P8W	RP-P10W	RP-P15W	
Nominal Cooling Capacity*	50Hz	kcal/h	12,000	19,300	24,100	38,700	
		W	14,000	22,400	28,000	45,000	
		Btu/h	47,700	76,400	95,500	153,600	
	60Hz	kcal/h	13,800	21,500	27,100	43,000	
		W	16,000	25,000	31,500	50,000	
		Btu/h	54,600	85,300	107,500	170,600	
Capacity Control		%	100, 0	100, 0	100, 0	100, 63, 0	
Cabinet Color			Synthetic Resin Paint Baked on Finished Steel Plates				
Front Panel, Side Panel (MUNSELL Code)			Beige (2.5Y 8/2)	Beige (2.5Y 8/2)	Beige (2.5Y 8/2)	Beige (2.5Y 8/2)	
Air Outlet Grill (MUNSELL Code)			Gray (2.5Y 4.5/0.7)	Gray (2.5Y 4.5/0.7)	Gray (2.5Y 4.5/0.7)	Beige (2.5Y 8/2)	
Outer Dimensions	Height	mm	1,950	1,950	1,950	2,150	
		(in)	(76-3/4)	(76-3/4)	(76-3/4)	(84-11/16)	
	Width	mm	800	1,100	1,400	1,400	
		(in)	(31-1/2)	(43-5/16)	(55-1/8)	(55-1/8)	
	Depth	mm	500	500	500	750	
		(in)	(19-11/16)	(19-11/16)	(19-11/16)	(29-1/2)	
Net Weight		kg	170	285	320	495	
		(lbs)	(375)	(628)	(705)	(1,091)	
Refrigerant**			R407C	R407C	R407C	R407C	
Flow Control			CPT	CPT	CPT	CPT	
Number of Circuits			1	1	1	2	
Compressor Type			Hermetic Scroll	Hermetic Scroll	Hermetic Scroll	Hermetic Scroll	
Model			G503DH	G750EL	G1000EL	G1000EL+G603DH	
Quantity			1	1	1	1+1	
Evaporator			Multi-Pass Cross-Finned Tube				
Condenser			Coiled Double Tube				
Evaporator Fan			Multi-Blade Centrifugal Fan				
Nominal Air Flow (Hi/Lo)		m^3/min	44/38	66	88	130	
		m^3/s	0.73/0.63	1.1	1.47	2.17	
		L/s	733/633	1100	1467	2167	
		(cfm)	(1,554/1,342)	(2,330)	(3,108)	(4,590)	
Motor		kW	0.13	0.25	0.30	1.5	
		(HP)	(0.17)	(0.33)	(0.40)	(2)	
Quantity			1	1	1	1	
Connections			Female Piping Thread Screw (Prepared on Both Sides)				
Condenser Water Size Inlet		FPT	1-1/4	1-1/2	1-1/2	2	
Outlet		FPT	1-1/4	1-1/2	1-1/2	2	
Condensate Drain Size		FPT	1	1	1	1	
Emergency Drain Size		FPT	1/2	1/2	1/2	1/2	
Wiring Hole Size			Knock Out Hole (Prepared on Both sides)				
		mm	40.5	40.5	40.5	62	
		(in)	(1-5/8)	(1-5/8)	(1-5/8)	(2-7/16)	
Approximate Packing List Shipping Weight		kg	215	335	380	520	40
		(lbs)	(474)	(739)	(838)	(1,146)	(88)
Height		mm	2,125	2,125	2,125	2,070	460
		(in)	(83-5/8)	(83-5/8)	(83-5/8)	(81-1/2)	(18-1/8)
Width		mm	914	1,214	1,514	1,510	1,480
		(in)	(36)	(47-13/16)	(59-5/8)	(59-7/16)	(58-9/32)
Depth		mm	628	628	628	880	850
		(in)	(24-3/4)	(24-3/4)	(24-3/4)	(34-5/8)	(33-13/32)
Measurements		m^3	1.22	1.62	2.02	2.75	0.58

CPT：Capillary Tube

Notes:

1. * The nominal cooling capacity is based on the standard of JIS B8616-1999
   Evaporator Air Inlet Temperature: 27℃DB (80.6℉DB)
   19℃WB (66.2℉WB)
   Condenser Water Inlet Temperature: 30℃ (86℉)
   Condenser Water Outlet Temperature: 35℃ (95℉)
2. ** Factory-Charged

Working Range:

Evaporator Air Inlet Temperature at Standard Air Flow :
Maximum: 32℃DB／23℃WB (89.6℉DB／73.4℉WB)
Minimum: 21℃DB／15℃WB (69.8℉DB／59.0℉WB)
Condenser Water Outlet Temperature:
Maximum: 38℃ (100.4℉)
Minimum: 21℃ (69.8℉)

Standard Power Supply

Main (3ϕ)	Control (1ϕ)
220V 60Hz	220V 60Hz
220V 50Hz	220V 50Hz
380V 50Hz	220V 50Hz
415V 50Hz	240V 50Hz

Unit General Data (Continued)

Duct Connection Type Units

Model			RP-P5WP	RP-P8WP	RP-P10WP	RP-P15WP	RP-P20WP	RP-P25WP	RP-P30WP	RP-P40WP
Nominal Cooling Capacity *	50Hz	kcal/h	12,000	19,300	24,100	38,700	48,100	61,000	77,400	96,300
		W	14,000	22,400	28,000	45,000	56,000	71,000	90,000	112,000
		Btu/h	47,700	76,400	95,500	153,600	191,000	242,200	307,100	382,100
	60Hz	kcal/h	13,800	21,500	27,100	43,000	54,200	68,800	86,000	107,500
		W	16,000	25,000	31,500	50,000	63,000	80,000	100,000	125,000
		Btu/h	54,600	85,300	107,500	170,600	214,900	272,900	341,200	426,500
Capacity Control		%	100,0	100,0	100,0	100,63,0	100,50,0	100,50,0	100,67,33,0	100,67,33,0
Cabinet Color			Synthetic Resin Paint Baked on Finished Steel Plates							
Front Panel, Side Panel (MUNSELL Code)			Beige (2.5Y 8/2)	Beige (2.5Y 8/2)	Beige (2.5Y 8/2)	Beige (2.5Y 8/2)	Beige (2.5Y 8/2)	Beige (2.5Y 8/2)	Beige (2.5Y 8/2)	Beige (2.5Y 8/2)
Air Outlet Grill (MUNSELL Code)			—	—	—	—	—	—	—	—
Outer Dimensions	Height	mm	1,730	1,730	1,730	1,850+30	1,850+30	2,000+30	2,000+30	2,000+30
		(in)	(68-1/8)	(68-1/8)	(68-1/8)	(72-13/16+1-3/16)	(72-13/16+1-3/16)	(78-3/4+1-3/16)	(78-3/4+1-3/16)	(78-3/4+1-3/16)
	Width	mm	800	1,100	1,400	1,400	1,700	1,700	2,000	2,000
		(in)	(31-1/2)	(43-5/16)	(55-1/8)	(55-1/8)	(66-15/16)	(66-15/16)	(78-3/4)	(78-3/4)
	Depth	mm	500	500	500	750	750	900+65	900+65	1270+65
		(in)	(19-11/16)	(19-11/16)	(19-11/16)	(29-1/2)	(29-1/2)	(35-7/16+2-9/16)	(35-7/16+2-9/16)	(50+2-9/16)
Net Weight		kg	165	275	305	480	620	710	900	1,200
		(lbs)	(364)	(606)	(672)	(1,058)	(1,367)	(1,565)	(1,984)	(2,646)
Refrigerant**			R407C	R407C	R407C	R407C	R407C	R407C	R407C	R407C
Flow Control			CPT	CPT	CPT	CPT	CPT	CPT	CPT	CPT
Number of Circuits			1	1	1	2	2	2	3	3
Compressor Type			Hermetic Scroll	Hermetic Scroll	Hermetic Scroll	Hermetic Scroll	Hermetic Scroll	Hermetic Scroll	Hermetic Scroll	Hermetic Scroll
Model			G503DH	G750EL	G1000EL	G1000EL+G603DH	G1000EL	G1300EL	G1000EL	G1300EL
Quantity			1	1	1	1+1	2	2	3	3
Evaporator			Multi-Pass Cross-Finned Tube							
Condenser			Coiled Double Tube							Shell-and-Tube Type
Evaporator Fan			Multi-Blade Centrifugal Fan							
Nominal Air Flow		m^3/min	44	66	88	130	180	220	260	360
		m^3/s	0.73	1.1	1.47	2.17	3.0	3.67	4.33	6.0
		L/s	733	1100	1467	2167	3000	3667	4333	6000
		(cfm)	(1,554)	(2,330)	(3,108)	(4,590)	(6,360)	(7,770)	(9,180)	(12,700)
Motor		kW	0.55	0.75	1.5	2.2	3.7	3.7	5.5	7.5
		(HP)	(0.74)	(1)	(2)	(3)	(5)	(5)	(7.5)	(10)
Quantity			1	1	1	1	1	1	1	1
Connections			Female Piping Thread Screw (Prepared on Both Sides)							
Condenser Water Size	Inlet	FPT	1-1/4	1-1/2	1-1/2	2	2	2-1/2	2-1/2	2-1/2
	Outlet	FPT	1-1/4	1-1/2	1-1/2	2	2	2-1/2	2-1/2	2-1/2
Condensate Drain Size		FPT	Female Piping Thread Screw (Prepared on Both Sides) 1	1	1	1	1	1	1	1
Emergency Drain Size		FPT	Female Piping Thread Screw (Prepared on Both Sides) 1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
Wiring Hole Size		mm	Knock Out Hole (Prepared on Both sides) 40.5	40.5	40.5	62	62	62	62	80
		(in)	(1-5/8)	(1-5/8)	(1-5/8)	(2-7/16)	(2-7/16)	(2-7/16)	(2-7/16)	(3-5/32)
Approximate Packing List Shipping Weight		kg	210	315	360	520	705	820	1,020	1,290
		(lbs)	(463)	(694)	(794)	(1,157)	(1,554)	(1,808)	(2,249)	(2,844)
Height		mm	1,905	1,905	1,905	2,070	2,070	2,225	2,225	2,225
		(in)	(75)	(75)	(75)	(81-1/2)	(81-1/2)	(87-5/8)	(87-5/8)	(87-5/8)
Width		mm	914	1,214	1,514	1,510	1,810	1,860	2,160	2,160
		(in)	(36)	(47-13/16)	(59-5/8)	(59-7/16)	(71-1/4)	(73-1/4)	(85-1/16)	(85-1/16)
Depth		mm	628	628	628	880	880	1,105	1,105	1,475
		(in)	(24-3/4)	(24-3/4)	(24-3/4)	(34-5/8)	(34-5/8)	(43-1/2)	(43-1/2)	(58-1/16)
Measurements		m^3	1.09	1.45	1.81	2.75	3.30	4.57	5.31	7.09

CPT：Capillary Tube

Notes:

1. * The nominal cooling capacity is based on the standard of JIS B8616-1999
   Evaporator Air Inlet Temperature: 27℃DB (80.6℉DB)
   19℃WB (66.2℉WB)
   Condenser Water Inlet Temperature: 30℃ (86℉)
   Condenser Water Outlet Temperature: 35℃ (95℉)
2. ** Factory-Charged

Working Range:

Evaporator Air Inlet Temperature at Standard Air Flow :
Maximum: 32℃DB／23℃WB (89.6℉DB／73.4℉WB)
Minimum: 21℃DB／15℃WB (69.8℉DB／59.0℉WB)
Condenser Water Outlet Temperature:
Maximum: 38℃ (100.4℉)
Minimum: 21℃ (69.8℉)

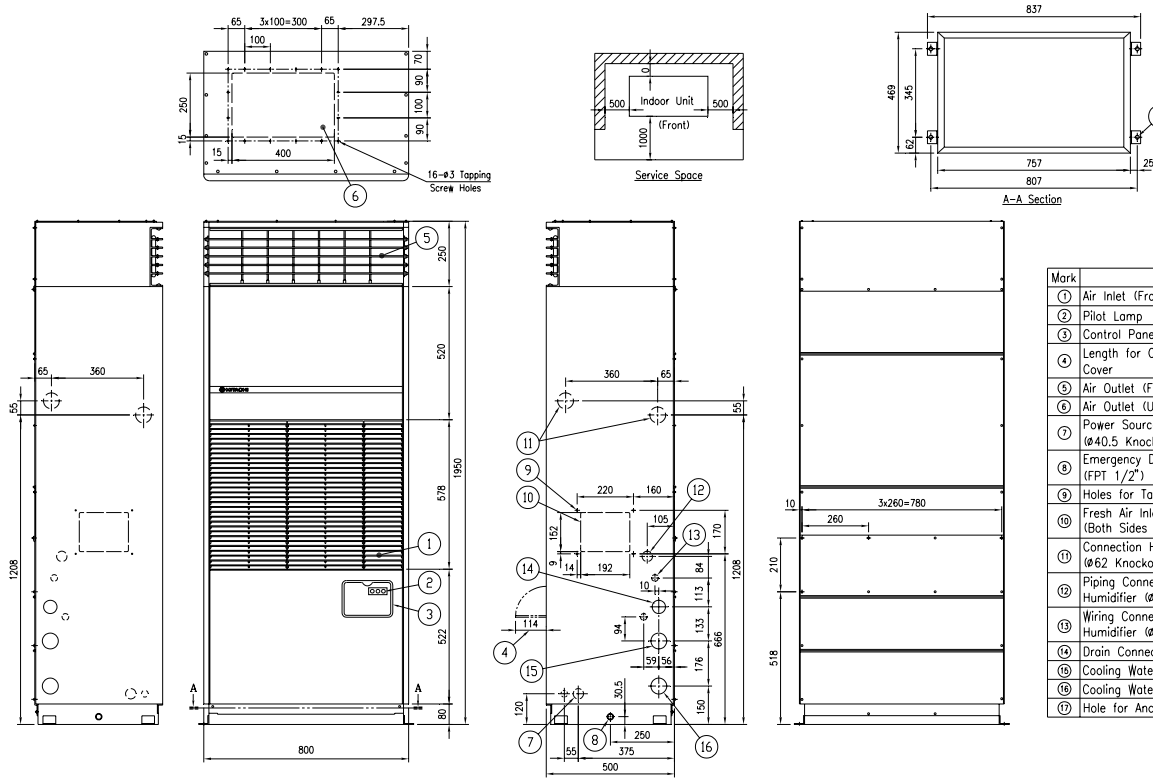
Standard Power Supply

Main (3ϕ)	Control (1ϕ)
220V 60Hz	220V 60Hz
220V 50Hz	220V 50Hz
380V 50Hz	220V 50Hz
415V 50Hz	240V 50Hz

Unit Dimensions

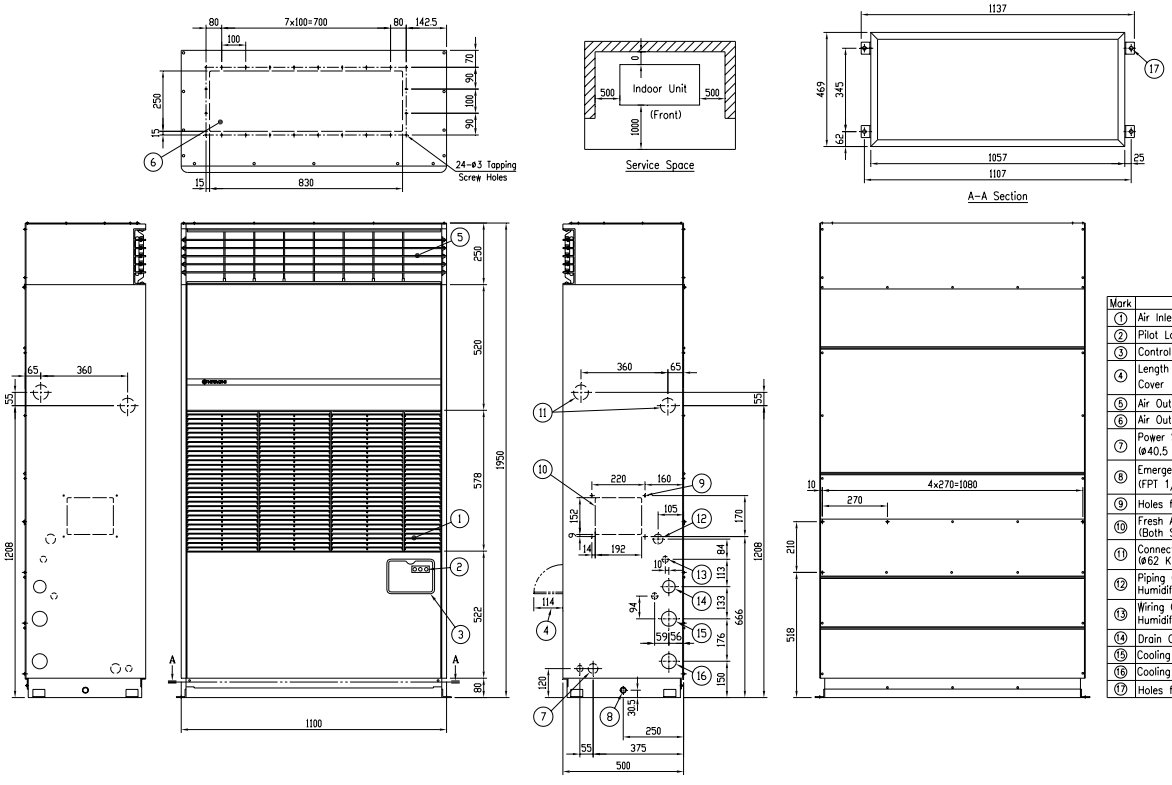
Free-Blow Type Units

RP-P5W



Mark	Name
①	Air Inlet (Front)
②	Pilot Lamp
③	Control Panel Cover
④	Length for Opening Control Panel Cover
⑤	Air Outlet (Front)
⑥	Air Outlet (Upper)
⑦	Power Source Wiring Hole (ø40.5 Knockout Hole)
⑧	Emergency Drain Connection (FPT 1/2")
⑨	Holes for Tapping Screw
⑩	Fresh Air Inlet (Both Sides by Duct, Field Option)
⑪	Connection Holes for Optional Heater (ø62 Knockout Holes)
⑫	Piping Connection Hole for Optional Humidifier (ø40.5 Knockout Hole)
⑬	Wiring Connection Hole for Optional Humidifier (ø26.1 Knockout Hole)
⑭	Drain Connection (FPT 1")
⑮	Cooling Water Outlet (FPT 1-1/4")
⑯	Cooling Water Inlet (FPT 1-1/4")
⑰	Hole for Anchor Bolt (4-M8)

RP-P8W

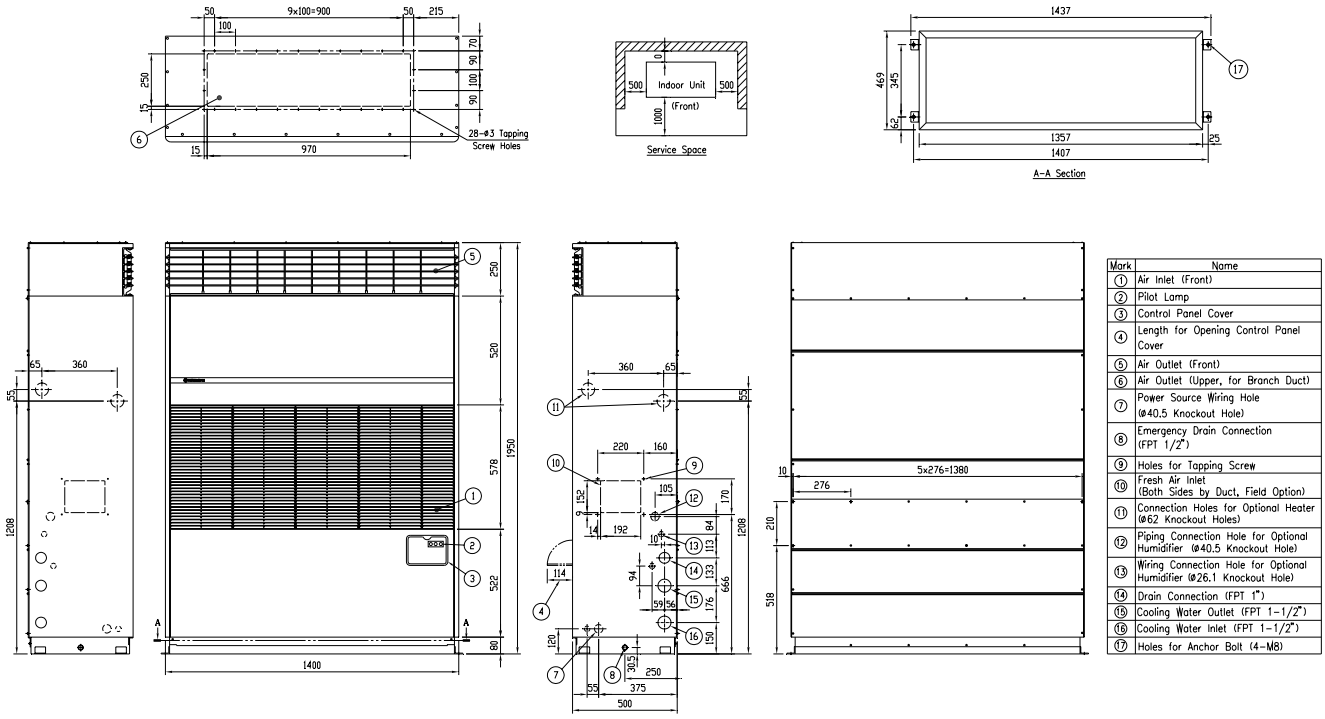


Mark	Name
①	Air Inlet (Front)
②	Pilot Lamp
③	Control Panel Cover
④	Length for Opening Control Panel Cover
⑤	Air Outlet (Front)
⑥	Air Outlet (Upper, for Branch Duct)
⑦	Power Source Wiring Hole (ø40.5 Knockout Hole)
⑧	Emergency Drain Connection (FPT 1/2")
⑨	Holes for Tapping Screw
⑩	Fresh Air Inlet (Both Sides by Duct, Field Option)
⑪	Connection Holes for Optional Heater (ø62 Knockout Holes)
⑫	Piping Connection Hole for Optional Humidifier (ø40.5 Knockout Hole)
⑬	Wiring Connection Hole for Optional Humidifier (ø26.1 Knockout Hole)
⑭	Drain Connection (FPT 1")
⑮	Cooling Water Outlet (FPT 1-1/2")
⑯	Cooling Water Inlet (FPT 1-1/2")
⑰	Holes for Anchor Bolt (4-M8)

Unit Dimensions (Continued)

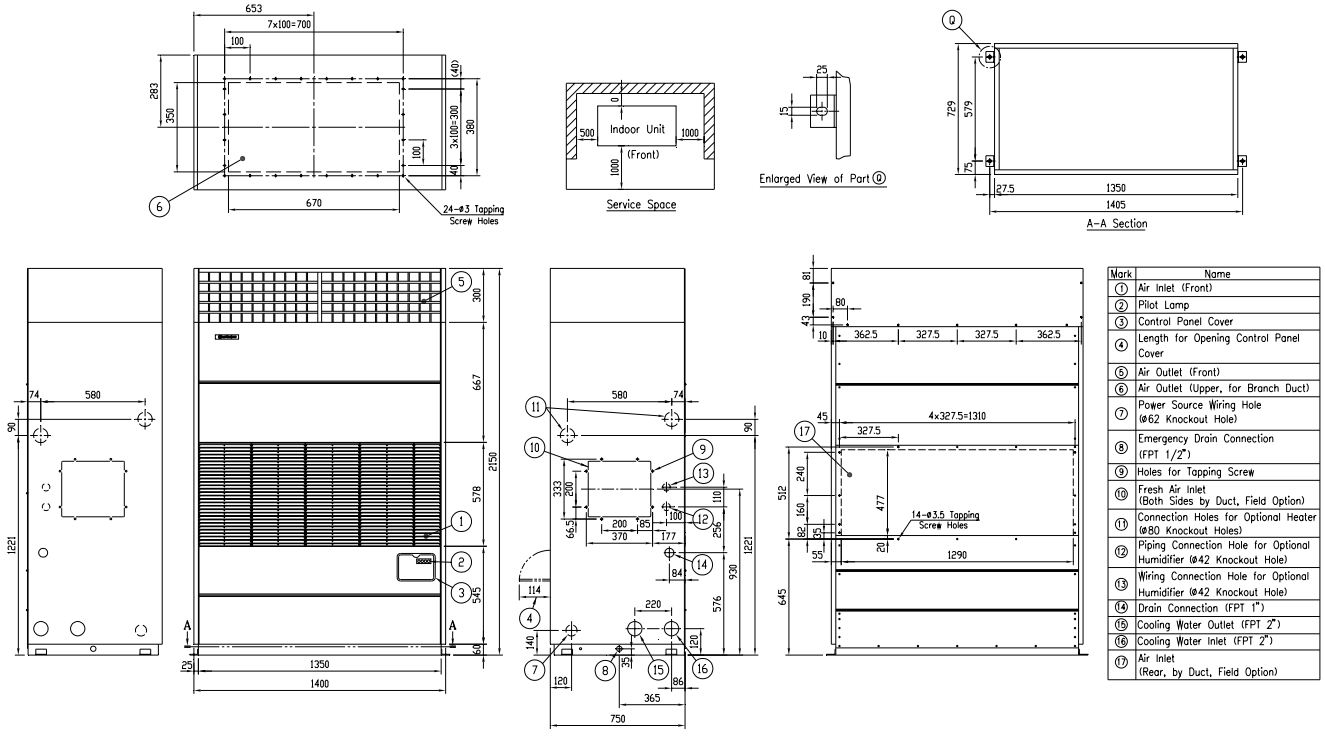
Free-Blow Type Units

RP-P10W



Mark	Name
①	Air Inlet (Front)
②	Pilot Lamp
③	Control Panel Cover
④	Length for Opening Control Panel Cover
⑤	Air Outlet (Front)
⑥	Air Outlet (Upper, for Branch Duct)
⑦	Power Source Wiring Hole (ø40.5 Knockout Hole)
⑧	Emergency Drain Connection (FPT 1/2")
⑨	Holes for Tapping Screw
⑩	Fresh Air Inlet (Both Sides by Duct, Field Option)
⑪	Connection Holes for Optional Heater (ø62 Knockout Holes)
⑫	Piping Connection Hole for Optional Humidifier (ø40.5 Knockout Hole)
⑬	Wiring Connection Hole for Optional Humidifier (ø26.1 Knockout Hole)
⑭	Drain Connection (FPT 1")
⑮	Cooling Water Outlet (FPT 1-1/2")
⑯	Cooling Water Inlet (FPT 1-1/2")
⑰	Holes for Anchor Bolt (4-M8)

RP-P15W

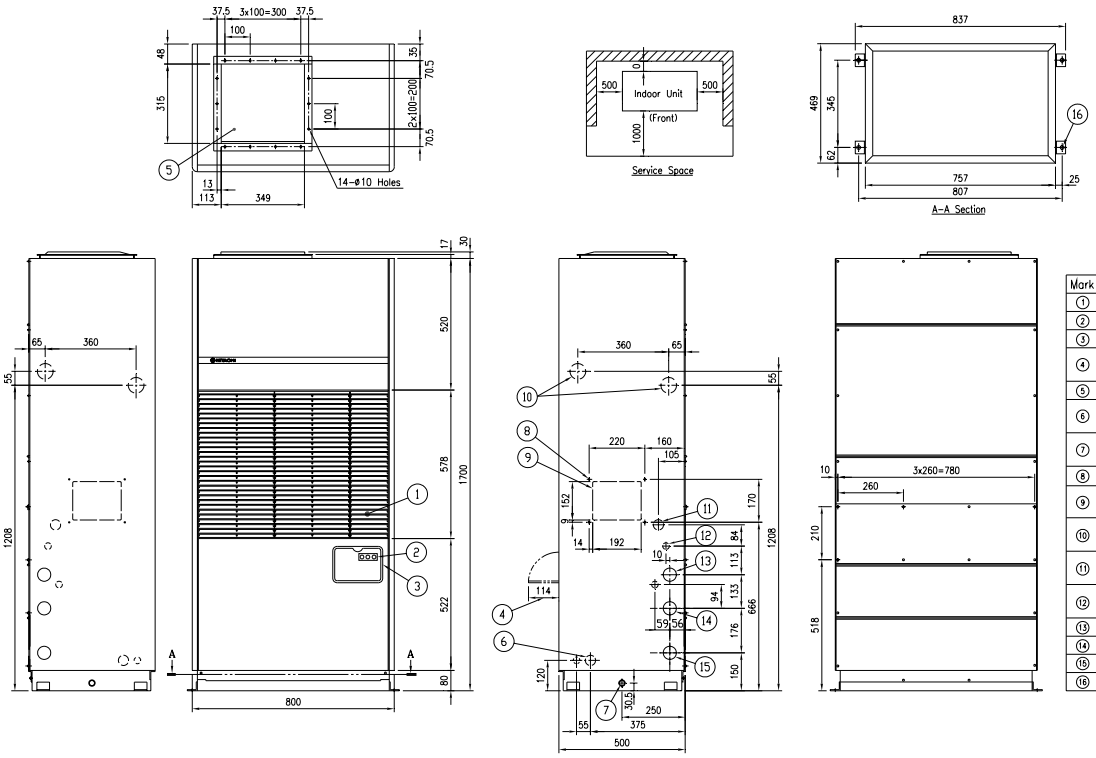


Mark	Name
①	Air Inlet (Front)
②	Pilot Lamp
③	Control Panel Cover
④	Length for Opening Control Panel Cover
⑤	Air Outlet (Front)
⑥	Air Outlet (Upper, for Branch Duct)
⑦	Power Source Wiring Hole (ø62 Knockout Hole)
⑧	Emergency Drain Connection (FPT 1/2")
⑨	Holes for Tapping Screw
⑩	Fresh Air Inlet (Both Sides by Duct, Field Option)
⑪	Connection Holes for Optional Heater (ø80 Knockout Holes)
⑫	Piping Connection Hole for Optional Humidifier (ø42 Knockout Hole)
⑬	Wiring Connection Hole for Optional Humidifier (ø42 Knockout Hole)
⑭	Drain Connection (FPT 1")
⑮	Cooling Water Outlet (FPT 2")
⑯	Cooling Water Inlet (FPT 2")
⑰	Air Inlet (Rear, by Duct, Field Option)

Unit Dimensions (Continued)

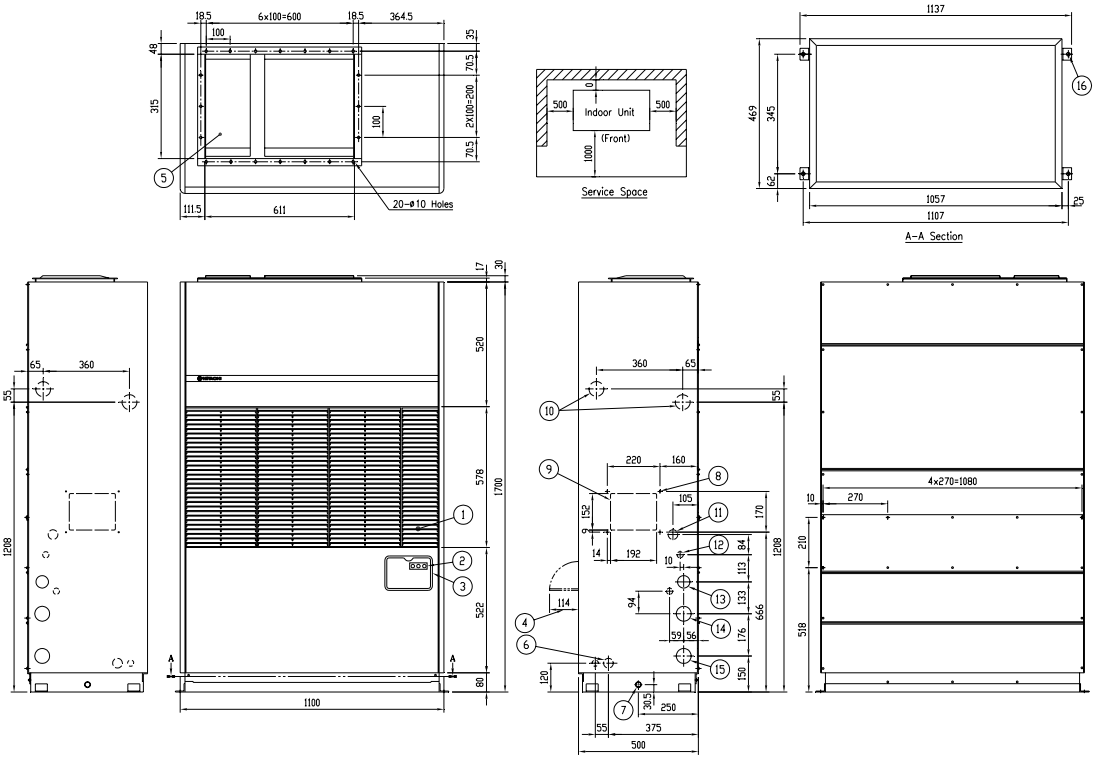
Duct Connection Type Units

RP-P5WP



Mark	Name
①	Air Inlet (Front)
②	Pilot Lamp
③	Control Panel Cover
④	Length for Opening Control Panel Cover
⑤	Air Outlet
⑥	Power Source Wiring Hole (ø40.5 Knockout Hole)
⑦	Emergency Drain Connection (FPT 1/2")
⑧	Holes for Tapping Screw
⑨	Fresh Air Inlet (Both Sides by Duct, Field Option)
⑩	Connection Holes for Optional Heater (ø62 Knockout Holes)
⑪	Piping Connection Hole for Optional Humidifier (ø40.5 Knockout Hole)
⑫	Wiring Connection Hole for Optional Humidifier (ø26.1 Knockout Hole)
⑬	Drain Connection (FPT 1")
⑭	Cooling Water Outlet (FPT 1-1/4")
⑮	Cooling Water Inlet (FPT 1-1/4")
⑯	Hole for Anchor Bolt (4-M8)

RP-P8WP

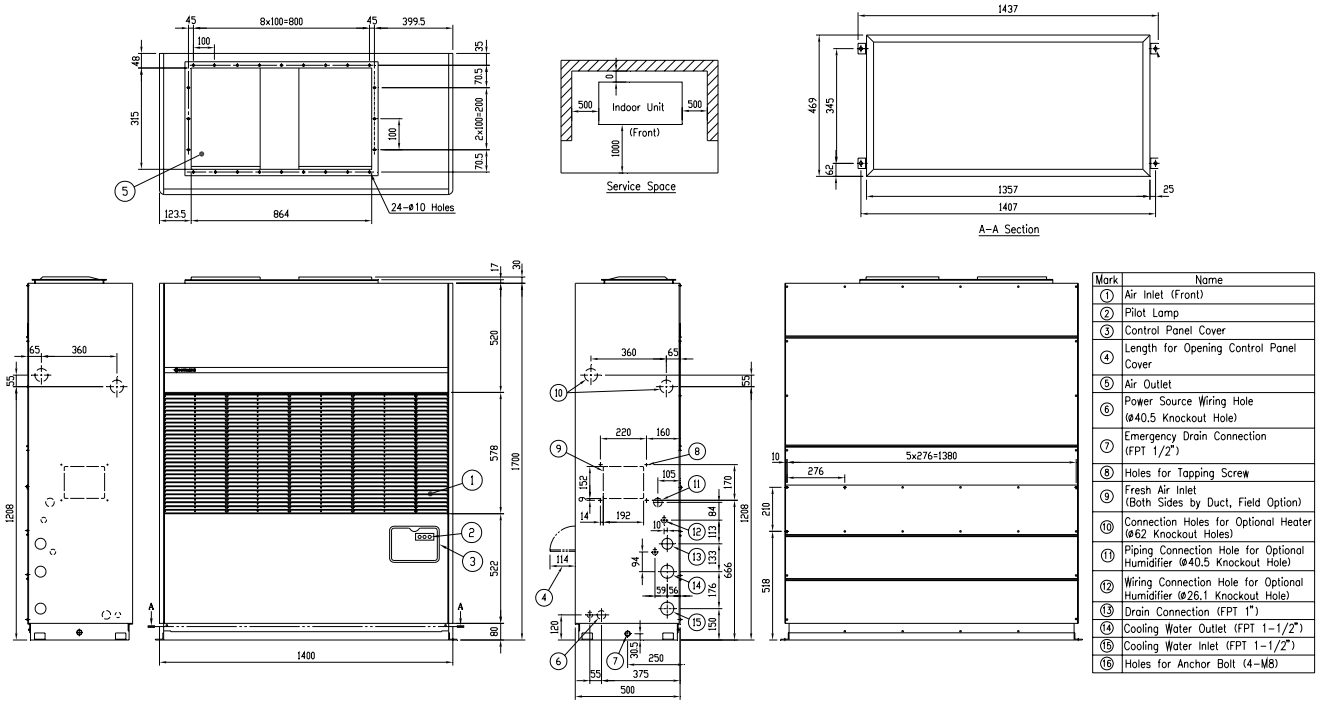


Mark	Name
①	Air Inlet (Front)
②	Pilot Lamp
③	Control Panel Cover
④	Length for Opening Control Panel Cover
⑤	Air Outlet
⑥	Power Source Wiring Hole (ø40.5 Knockout Hole)
⑦	Emergency Drain Connection (FPT 1/2")
⑧	Holes for Tapping Screw
⑨	Fresh Air Inlet (Both Sides by Duct, Field Option)
⑩	Connection Holes for Optional Heater (ø62 Knockout Holes)
⑪	Piping Connection Hole for Optional Humidifier (ø40.5 Knockout Hole)
⑫	Wiring Connection Hole for Optional Humidifier (ø26.1 Knockout Hole)
⑬	Drain Connection (FPT 1")
⑭	Cooling Water Outlet (FPT 1-1/2")
⑮	Cooling Water Inlet (FPT 1-1/2")
⑯	Holes for Anchor Bolt (4-M8)

Unit Dimensions (Continued)

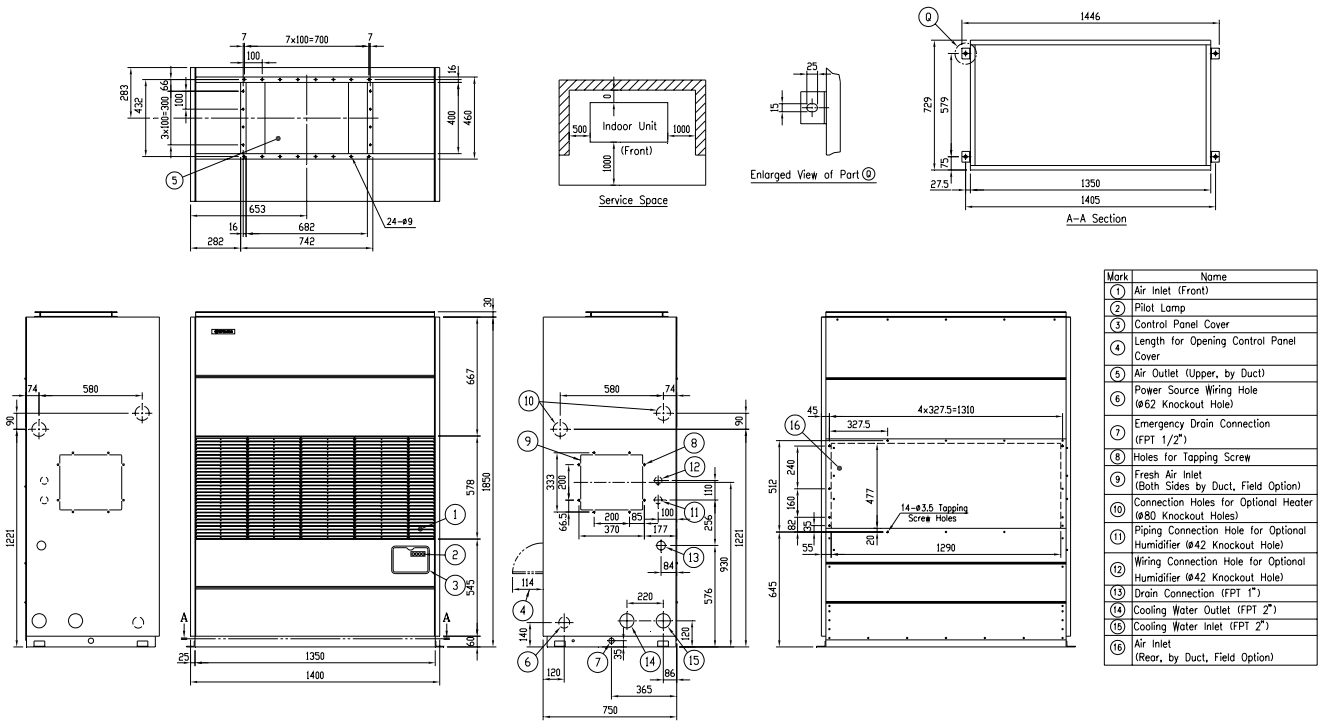
Duct Connection Type Units

RP-P10WP



Mark	Name
①	Air Inlet (Front)
②	Pilot Lamp
③	Control Panel Cover
④	Length for Opening Control Panel Cover
⑤	Air Outlet
⑥	Power Source Wiring Hole (ø40.5 Knockout Hole)
⑦	Emergency Drain Connection (FPT 1/2")
⑧	Holes for Tapping Screw
⑨	Fresh Air Inlet (Both Sides by Duct, Field Option)
⑩	Connection Holes for Optional Heater (ø62 Knockout Holes)
⑪	Piping Connection Hole for Optional Humidifier (ø40.5 Knockout Hole)
⑫	Wiring Connection Hole for Optional Humidifier (ø26.1 Knockout Hole)
⑬	Drain Connection (FPT 1")
⑭	Cooling Water Outlet (FPT 1-1/2")
⑮	Cooling Water Inlet (FPT 1-1/2")
⑯	Holes for Anchor Bolt (4-M8)

RP-P15WP

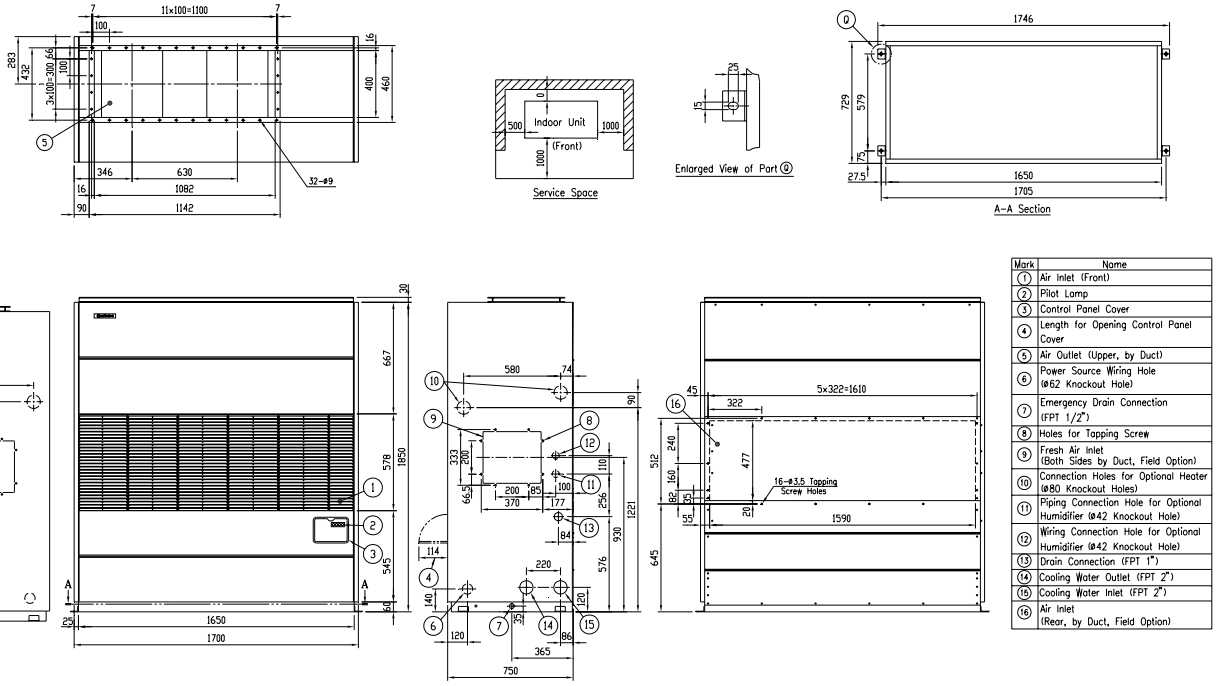


Mark	Name
①	Air Inlet (Front)
②	Pilot Lamp
③	Control Panel Cover
④	Length for Opening Control Panel Cover
⑤	Air Outlet (Upper, by Duct)
⑥	Power Source Wiring Hole (ø62 Knockout Hole)
⑦	Emergency Drain Connection (FPT 1/2")
⑧	Holes for Tapping Screw
⑨	Fresh Air Inlet (Both Sides by Duct, Field Option)
⑩	Connection Holes for Optional Heater (ø80 Knockout Holes)
⑪	Piping Connection Hole for Optional Humidifier (ø42 Knockout Hole)
⑫	Wiring Connection Hole for Optional Humidifier (ø42 Knockout Hole)
⑬	Drain Connection (FPT 1")
⑭	Cooling Water Outlet (FPT 2")
⑮	Cooling Water Inlet (FPT 2")
⑯	Air Inlet (Rear, by Duct, Field Option)

Unit Dimensions (Continued)

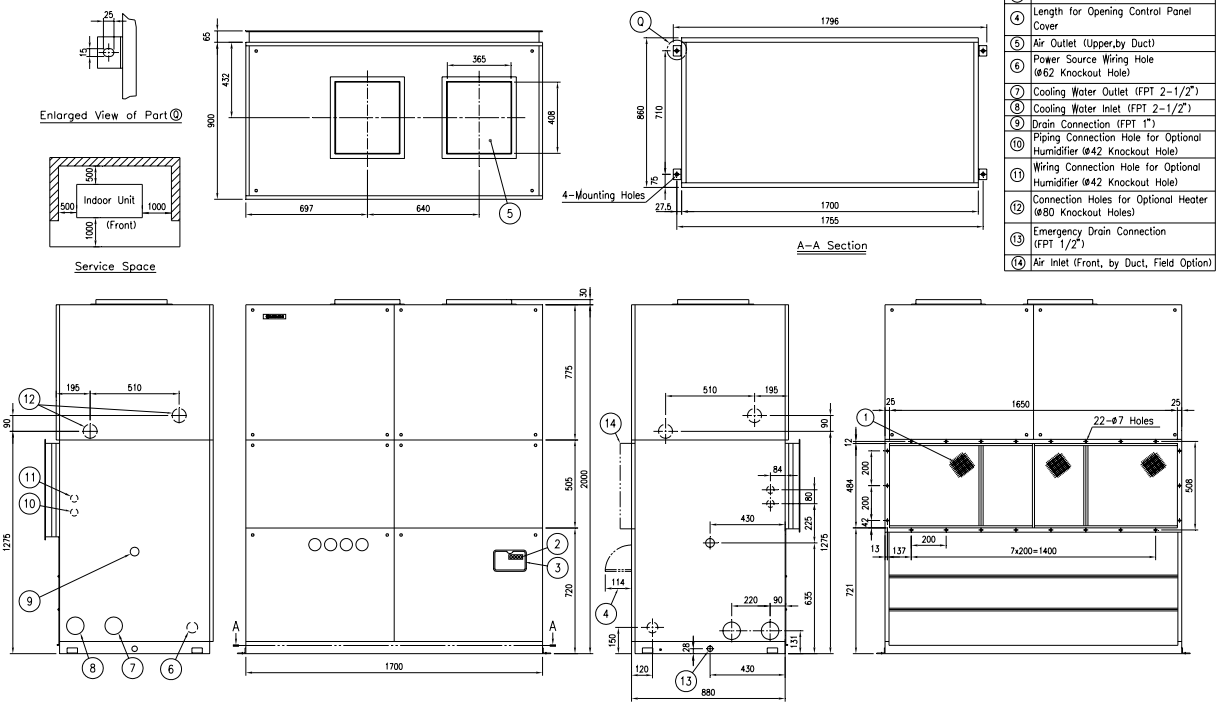
Duct Connection Type Units

RP-P20WP



Mark	Name
①	Air Inlet (Front)
②	Pilot Lamp
③	Control Panel Cover
④	Length for Opening Control Panel Cover
⑤	Air Outlet (Upper, by Duct)
⑥	Power Source Wiring Hole (ø62 Knockout Hole)
⑦	Emergency Drain Connection (FPT 1/2")
⑧	Holes for Tapping Screw
⑨	Fresh Air Inlet (Both Sides by Duct, Field Option)
⑩	Connection Holes for Optional Heater (ø80 Knockout Holes)
⑪	Piping Connection Hole for Optional Humidifier (ø42 Knockout Hole)
⑫	Wiring Connection Hole for Optional Humidifier (ø42 Knockout Hole)
⑬	Drain Connection (FPT 1")
⑭	Cooling Water Outlet (FPT 2")
⑮	Cooling Water Inlet (FPT 2")
⑯	Air Inlet (Rear, by Duct, Field Option)

RP-P25WP



Mark	Name
①	Air Inlet (Rear, by Duct)
②	Pilot Lamp
③	Control Panel Cover
④	Length for Opening Control Panel Cover
⑤	Air Outlet (Upper,by Duct)
⑥	Power Source Wiring Hole (ø62 Knockout Hole)
⑦	Cooling Water Outlet (FPT 2–1/2")
⑧	Cooling Water Inlet (FPT 2–1/2")
⑨	Drain Connection (FPT 1")
⑩	Piping Connection Hole for Optional Humidifier (ø42 Knockout Hole)
⑪	Wiring Connection Hole for Optional Humidifier (ø42 Knockout Hole)
⑫	Connection Holes for Optional Heater (ø80 Knockout Holes)
⑬	Emergency Drain Connection (FPT 1/2")
⑭	Air Inlet (Front, by Duct, Field Option)

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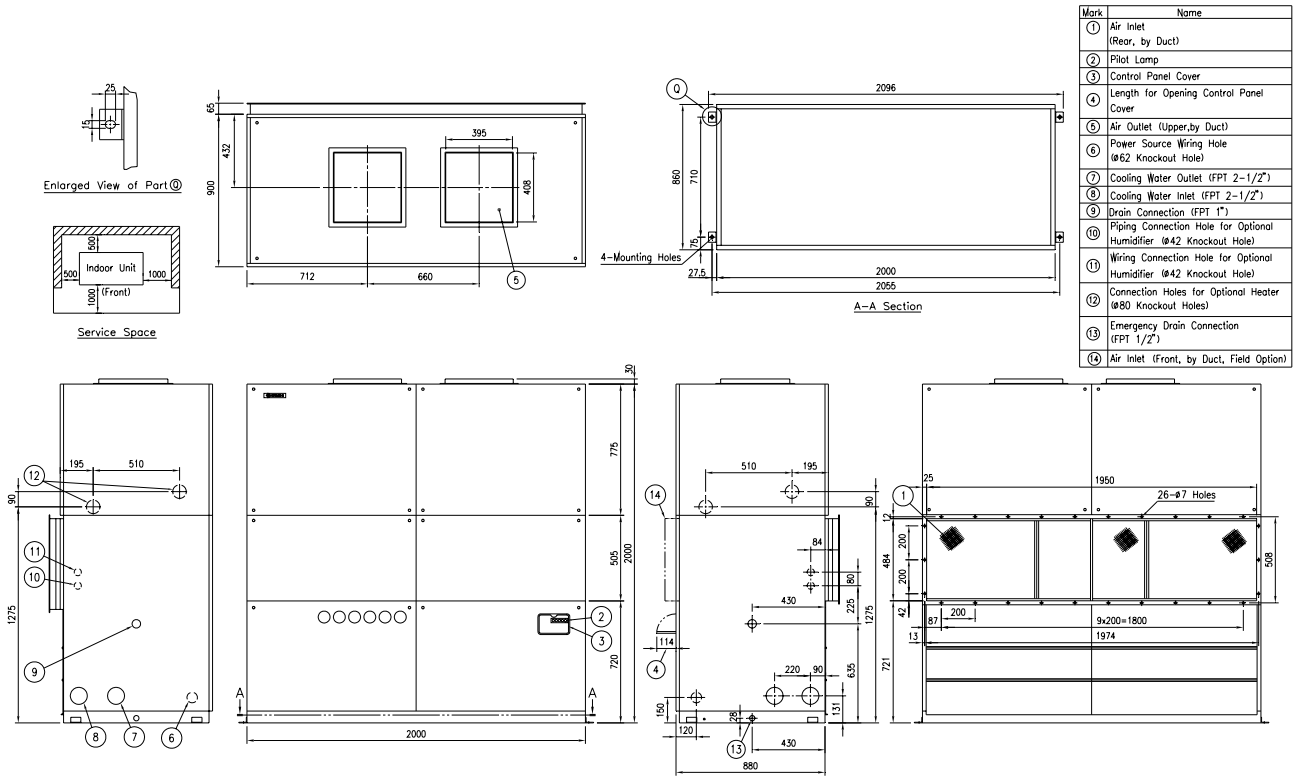
Unit Dimensions (Continued)

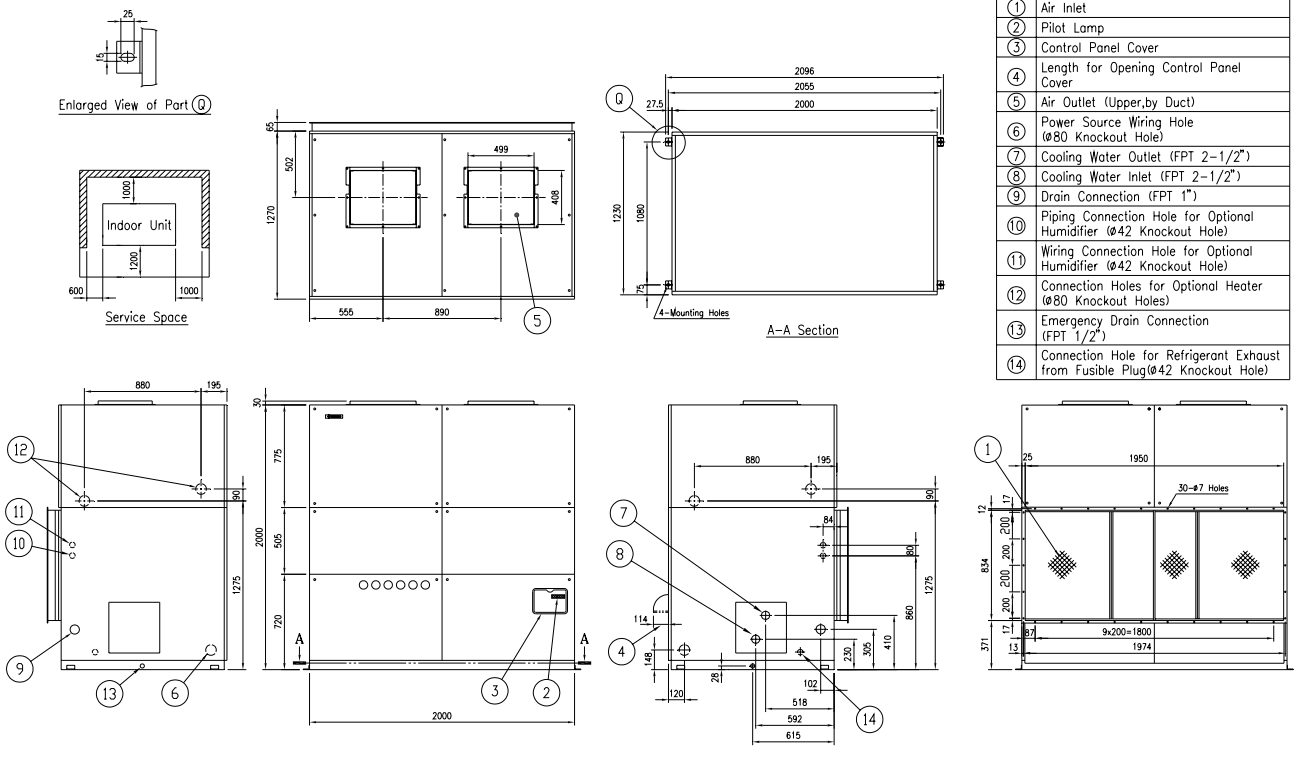
Duct Connection Type Units

RP-P30WP



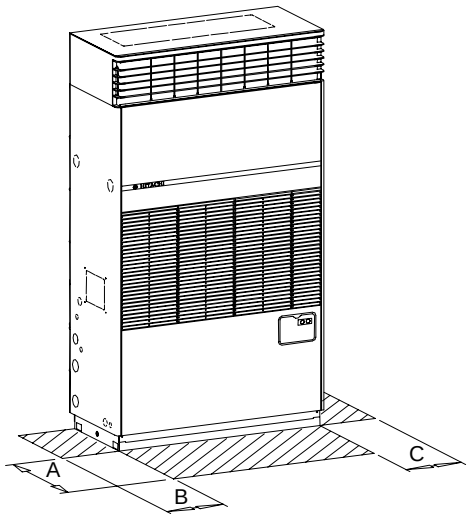
Mark	Name
①	Air Inlet (Rear, by Duct)
②	Pilot Lamp
③	Control Panel Cover
④	Length for Opening Control Panel Cover
⑤	Air Outlet (Upper,by Duct)
⑥	Power Source Wiring Hole (ø62 Knockout Hole)
⑦	Cooling Water Outlet (FPT 2-1/2")
⑧	Cooling Water Inlet (FPT 2-1/2")
⑨	Drain Connection (FPT 1")
⑩	Piping Connection Hole for Optional Humidifier (ø42 Knockout Hole)
⑪	Wiring Connection Hole for Optional Humidifier (ø42 Knockout Hole)
⑫	Connection Holes for Optional Heater (ø80 Knockout Holes)
⑬	Emergency Drain Connection (FPT 1/2")
⑭	Air Inlet (Front, by Duct, Field Option)

RP-P40WP

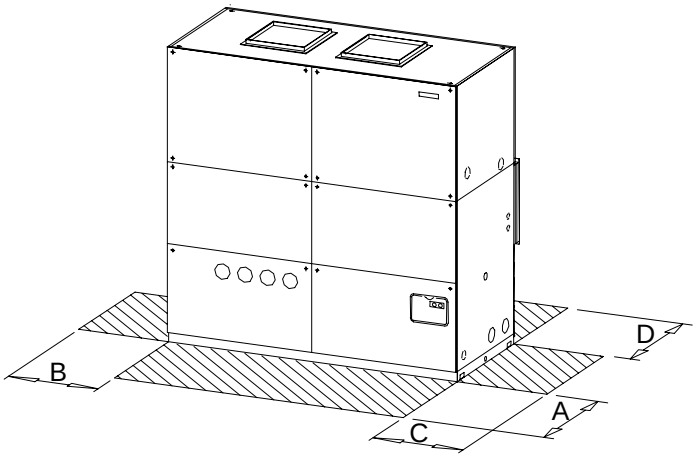


Mark	Name
①	Air Inlet
②	Pilot Lamp
③	Control Panel Cover
④	Length for Opening Control Panel Cover
⑤	Air Outlet (Upper,by Duct)
⑥	Power Source Wiring Hole (ø80 Knockout Hole)
⑦	Cooling Water Outlet (FPT 2-1/2")
⑧	Cooling Water Inlet (FPT 2-1/2")
⑨	Drain Connection (FPT 1")
⑩	Piping Connection Hole for Optional Humidifier (ø42 Knockout Hole)
⑪	Wiring Connection Hole for Optional Humidifier (ø42 Knockout Hole)
⑫	Connection Holes for Optional Heater (ø80 Knockout Holes)
⑬	Emergency Drain Connection (FPT 1/2")
⑭	Connection Hole for Refrigerant Exhaust from Fusible Plug(ø42 Knockout Hole)

Operation Space



For Models RP-P5W through RP-P20WP



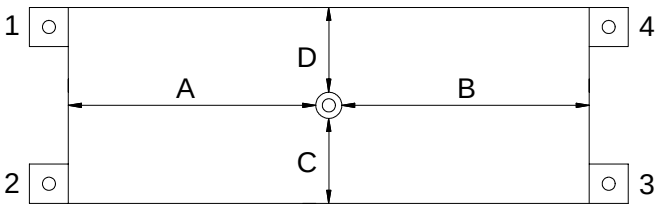
For Models RP-P25WP through RP-P40WP

Model	Dimensions(mm)			
	A	B	C	D
RP-P5W	1,000	500	800	—
RP-P5WP	1,000	500	800	—
RP-P8W	1,000	500	800	—
RP-P8WP	1,000	500	800	—
RP-P10W	1,000	500	1,000	—
RP-P10WP	1,000	500	1,000	—
RP-P15W	1,000	500	1,000	—
RP-P15WP	1,000	500	1,000	—
RP-P20WP	1,000	500	1,000	—
RP-P25WP	1,000	500	1,000	500
RP-P30WP	1,000	500	1,000	500
RP-P40WP	1,200	600	1,000	1,000

NOTES:

1. Interchange “B” and “C” when left-hand side water piping is prepared.
2. Dimension “ D” for models RP-P25WP through RP-P40WP indicates the case where suction duct is not installed. Change dimension “D” to 1,500 mm, when the suction duct is required.
3. Dimension “C” for models RP-P25WP through RP-P40WP indicates the service space for the air filter equipped with the unit. Change dimension “B” to 1,000 mm, when the service space for the air filter from left side is required.

Weight Balance



Front Side

◎ : Center of Gravity

Model	RP-P5W	RP-P5WP	RP-P8W	RP-P8WP	RP-P10W	RP-P10WP	RP-P15W	RP-P15WP	RP-P20WP	RP-P25WP	RP-P30WP	RP-P40WP
Location	Weight Distribution (kg)											
1	48	46	70	68	77	73	120	116	129	166	225	223
2	35	34	62	60	56	53	138	134	156	198	257	347
3	37	36	72	69	79	75	126	123	183	188	223	383
4	50	49	81	78	108	104	111	107	152	158	195	247
Length	Center of Gravity (mm)											
A	410	410	590	590	820	820	670	670	920	830	930	1050
B	390	390	510	510	580	580	730	730	780	870	1070	950
C	290	290	265	265	290	290	350	350	340	440	450	490
D	210	210	235	235	210	210	400	400	410	460	450	780
	Approximate Operating Weight (kg)											
	170	165	285	275	320	305	495	480	620	710	900	1,200

Selection Guide

Selection Example

1. Determine the System Requirements

Calculate the total cooling load, sensible heat load and external static pressure of the evaporator fan, if required, according to the design conditions which include the condenser water inlet temperature, evaporator air inlet dry bulb temperature, evaporator air inlet wet bulb temperature and evaporator air flow. Clarify the power source frequency and the air supply system (free blow or duct distribution).

Given Conditions:

Total Cooling Load	12,000	kcal/h
Sensible Heat Load	9,300	kcal/h
Evaporator Air Inlet Dry Bulb	29	℃
Evaporator Air Inlet Wet Bulb	20	℃
Evaporator Air Flow	46	m^3/min
Condenser Water Inlet Temperature	26	℃
External Static Pressure	6	mmAq
Air Supply System	By Duct	
Power Source Frequency	50	Hz

2. Select a Matching Packaged Air Conditioner

Select model RP-P5WP by 38℃ condensing temperature and 20℃ evaporator air inlet wet bulb (WB) at 44 m^3/min evaporator air flow (QA) in the cooling capacity table.

3. Read the Performances

The total cooling capacity (TC), sensible heat capacity (SHC*) at the dry bulb given in the table, compressor power input (IPT), heat pump rate(HPR) and sensible heat correction factor (CR) can be determined by interpolation (or some can be directly read from the table when the conditions coincide with the tabulated figures).

At 20℃WB

	TC	SHC*	IPT	HPR	CR
At 44 m^3/min QA	12.5	9.0	3.6	15.9	0.675
At 48 m^3/min QA	12.8	9.5	3.6	16.3	0.729
At 46 m^3/min QA	12.65	9.25	3.6	16.1	0.702

(By Interpolation)

4. Correct the Sensible Heat Capacity (If Required)

Correct the sensible heat capacity for the given 29℃ evaporator air inlet dry bulb from the tabulated 27℃ DB* according to the following formula.

SHC =SHC*+CR×(DB-DB*), where

SHC : corrected sensible heat capacity (×1,000kcal/h),

SHC* : sensible heat capacity given in the table (× 1,000kcal/h),

DB : given evaporator air inlet dry bulb (℃),

DB*: evaporator air inlet dry bulb given for each wet bulb in the table (℃)

For this example,

SHC =9.25+0.702×(29-27)

=10.65(×1,000kcal/h).

5. Determine the Condenser Water Requirements

From the condenser water data, the required water flow rate by interpolation 16.1 HPR at 12 ℃ temperature difference between the 38 ℃ condensing temperature and 26℃ condenser water inlet 38℃ temperature is determined as 2.52 m^3/h. The water head loss through the condenser can be read as 2.5mAq.

NOTES:

1. The cooling capacities in the table are deducted by heat dissipation of the evaporator fan motor, which is operated with the standard (factory-set) fan speed.
2. Direct interpolation is permissible. Do not extrapolate.
3. When the condenser water outlet temperature is given in the system, assume a condensing temperature which is 4℃ to 6℃ higher than the outlet temperature.

SELECTION DATA

Cooling Capacities

- 50Hz -

Model	Evaporator Inlet Air			Condensing Temperature(℃)																			
	QA	WB	DB*	32				35				38				41				44			
	-CR-	(℃)		TC	SHC*	IPT	HPR	TC	SHC*	IPT	HPR	TC	SHC*	IPT	HPR	TC	SHC*	IPT	HPR	TC	SHC*	IPT	HPR
RP-P5W	38 -0.590-	16	23	11.2	8.7	3.0	14.1	10.7	8.5	3.2	13.8	10.4	8.3	3.4	13.6	10.0	8.2	3.5	13.4	9.8	8.0	3.7	13.2
		18	25	12.1	8.7	3.1	15.0	11.6	8.5	3.3	14.7	11.2	8.3	3.5	14.5	10.9	8.2	3.6	14.3	10.5	8.1	3.8	14.1
		20	27	12.8	8.6	3.1	15.8	12.3	8.4	3.3	15.5	11.9	8.3	3.5	15.3	11.5	8.1	3.7	15.0	11.2	8.0	3.8	14.8
		22	30	13.4	9.0	3.2	16.5	12.9	8.8	3.4	16.2	12.5	8.7	3.6	15.9	12.1	8.5	3.7	15.6	11.8	8.4	3.9	15.4
	44 -0.675-	16	23	11.7	9.4	3.0	14.6	11.2	9.2	3.2	14.3	10.8	9.0	3.4	14.1	10.5	8.9	3.6	13.9	10.2	8.8	3.7	13.7
		18	25	12.6	9.4	3.1	15.6	12.1	9.2	3.3	15.3	11.7	9.1	3.5	15.0	11.4	8.9	3.7	14.8	11.0	8.8	3.8	14.6
		20	27	13.4	9.4	3.2	16.5	12.9	9.2	3.4	16.1	12.5	9.0	3.6	15.8	12.1	8.8	3.7	15.6	11.7	8.7	3.9	15.4
		22	30	14.1	9.8	3.2	17.1	13.5	9.6	3.4	16.8	13.1	9.5	3.6	16.5	12.7	9.3	3.8	16.2	12.3	9.2	3.9	16.0
RP-P5WP	35 -0.547-	18	25	11.8	8.3	3.1	14.8	11.3	8.1	3.3	14.5	10.9	8.0	3.4	14.3	10.6	7.8	3.6	14.1	10.3	7.7	3.7	13.9
		20	27	12.5	8.3	3.1	15.6	12.0	8.1	3.3	15.3	11.6	7.9	3.5	15.1	11.3	7.8	3.7	14.9	11.0	7.6	3.8	14.7
		22	30	13.1	8.6	3.2	16.3	12.6	8.4	3.4	16.0	12.2	8.3	3.5	15.7	11.8	8.1	3.7	15.5	11.5	8.0	3.9	15.2
	40 -0.619-	16	23	11.3	8.9	3.0	14.3	10.9	8.7	3.2	14.1	10.5	8.5	3.4	13.8	10.2	8.4	3.5	13.7	9.9	8.3	3.7	13.5
		18	25	12.2	8.9	3.1	15.3	11.8	8.7	3.3	15.0	11.4	8.6	3.5	14.8	11.0	8.4	3.6	14.6	10.7	8.3	3.8	14.4
		20	27	13.0	8.9	3.2	16.2	12.5	8.7	3.4	15.8	12.1	8.5	3.5	15.6	11.7	8.4	3.7	15.3	11.4	8.2	3.8	15.1
		22	30	13.7	9.3	3.2	16.8	13.1	9.1	3.4	16.5	12.7	9.0	3.6	16.2	12.3	8.8	3.7	16.0	12.0	8.7	3.9	15.7
	44 -0.675-	16	23	11.7	9.4	3.0	14.7	11.2	9.2	3.2	14.4	10.8	9.0	3.4	14.2	10.5	8.9	3.6	14.0	10.2	8.8	3.7	13.8
		18	25	12.6	9.4	3.1	15.7	12.1	9.2	3.3	15.4	11.7	9.1	3.5	15.1	11.4	8.9	3.7	14.9	11.0	8.8	3.8	14.7
		20	27	13.4	9.4	3.2	16.6	12.9	9.2	3.4	16.2	12.5	9.0	3.6	15.9	12.1	8.8	3.7	15.7	11.7	8.7	3.9	15.5
		22	30	14.1	9.8	3.2	17.2	13.5	9.6	3.4	16.9	13.1	9.5	3.6	16.6	12.7	9.3	3.8	16.3	12.3	9.2	3.9	16.1
	48 -0.729-	16	23	12.0	9.9	3.1	15.1	11.5	9.7	3.2	14.8	11.2	9.5	3.4	14.5	10.8	9.4	3.6	14.3	10.5	9.2	3.7	14.1
		18	25	13.0	9.9	3.1	16.1	12.5	9.7	3.3	15.8	12.1	9.5	3.5	15.5	11.7	9.4	3.7	15.3	11.4	9.3	3.8	15.1
		20	27	13.8	9.8	3.2	17.0	13.3	9.6	3.4	16.6	12.8	9.5	3.6	16.3	12.4	9.3	3.7	16.1	12.1	9.2	3.9	15.9
		22	30	14.5	10.4	3.2	17.7	13.9	10.2	3.4	17.3	13.5	10.0	3.6	17.0	13.1	9.9	3.8	16.7	12.7	9.7	3.9	16.5
	53 -0.797-	14	20	11.3	9.6	3.0	14.3	10.9	9.4	3.2	14.0	10.5	9.2	3.3	13.8	10.2	9.1	3.5	13.6	9.9	9.0	3.6	13.4
		16	23	12.5	10.5	3.1	15.5	12.0	10.3	3.3	15.2	11.6	10.1	3.4	14.9	11.2	10.0	3.6	14.7	10.9	9.8	3.7	14.5
		18	25	13.5	10.5	3.1	16.6	12.9	10.3	3.3	16.2	12.5	10.1	3.5	15.9	12.1	10.0	3.7	15.7	11.8	9.8	3.8	15.5
		20	27	14.3	10.4	3.2	17.5	13.8	10.2	3.4	17.1	13.3	10.1	3.6	16.8	12.9	9.9	3.8	16.5	12.5	9.8	3.9	16.3
		22	30	15.0	11.0	3.2	18.2	14.4	10.8	3.4	17.8	14.0	10.7	3.6	17.5	13.5	10.5	3.8	17.2	13.1	10.4	3.9	17.0
RP-P8W RP-P8WP	50 -0.804-	18	25	18.9	12.9	4.8	23.4	18.1	12.6	5.1	22.9	17.5	12.3	5.4	22.6	17.0	12.1	5.7	22.2	16.5	11.9	5.9	21.9
		20	27	20.1	12.8	4.9	24.7	19.3	12.5	5.2	24.2	18.6	12.2	5.5	23.8	18.1	12.0	5.8	23.4	17.5	11.8	6.0	23.1
		22	30	21.0	13.3	5.0	25.7	20.2	13.0	5.3	25.2	19.6	12.8	5.6	24.8	19.0	12.5	5.8	24.4	18.4	12.3	6.1	24.0
	60 -0.953-	16	23	18.4	14.2	4.8	22.9	17.7	13.8	5.1	22.4	17.1	13.5	5.4	22.1	16.5	13.3	5.6	21.8	16.1	13.1	5.8	21.5
		18	25	19.9	14.2	4.9	24.5	19.1	13.9	5.2	23.9	18.4	13.6	5.5	23.6	17.9	13.3	5.7	23.2	17.4	13.1	6.0	22.9
		20	27	21.1	14.1	5.0	25.8	20.3	13.8	5.3	25.3	19.6	13.5	5.6	24.8	19.0	13.2	5.9	24.5	18.5	13.0	6.1	24.1
		22	30	22.2	14.7	5.0	26.9	21.3	14.4	5.4	26.3	20.6	14.2	5.7	25.9	20.0	13.9	5.9	25.5	19.4	13.7	6.1	25.1
	66 -1.045-	16	23	18.9	14.9	4.8	23.5	18.2	14.6	5.1	23.0	17.6	14.3	5.4	22.6	17.0	14.1	5.6	22.3	16.6	13.9	5.9	22.0
		18	25	20.5	15.0	4.9	25.1	19.7	14.6	5.2	24.6	19.0	14.3	5.5	24.1	18.4	14.1	5.8	23.8	17.9	13.9	6.0	23.5
		20	27	21.8	14.8	5.0	26.5	20.9	14.5	5.3	25.9	20.2	14.2	5.6	25.5	19.6	14.0	5.9	25.1	19.0	13.8	6.1	24.7
		22	30	22.8	15.6	5.1	27.6	22.0	15.3	5.4	27.0	21.2	15.0	5.7	26.5	20.6	14.7	5.9	26.1	20.0	14.5	6.2	25.7
	72 -1.131-	16	23	19.5	15.7	4.8	24.0	18.7	15.4	5.1	23.5	18.1	15.1	5.4	23.1	17.6	14.8	5.7	22.8	17.1	14.6	5.9	22.5
		18	25	21.1	15.7	4.9	25.7	20.2	15.4	5.3	25.2	19.6	15.1	5.6	24.7	19.0	14.9	5.8	24.4	18.4	14.6	6.0	24.0
		20	27	22.4	15.6	5.0	27.1	21.6	15.3	5.4	26.6	20.8	15.0	5.7	26.1	20.2	14.7	5.9	25.7	19.6	14.5	6.2	25.3
		22	30	23.5	16.4	5.1	28.3	22.6	16.1	5.4	27.7	21.9	15.8	5.7	27.2	21.2	15.6	6.0	26.7	20.6	15.4	6.2	26.3
	80 -1.244-	14	20	18.4	15.3	4.7	22.8	17.7	15.0	5.0	22.4	17.0	14.7	5.3	22.0	16.5	14.5	5.5	21.7	16.1	14.2	5.7	21.4
		16	23	20.3	16.7	4.8	24.8	19.4	16.4	5.2	24.3	18.8	16.1	5.4	23.9	18.2	15.8	5.7	23.5	17.7	15.6	5.9	23.2
		18	25	21.9	16.8	5.0	26.5	21.0	16.4	5.3	26.0	20.3	16.1	5.6	25.5	19.7	15.9	5.8	25.1	19.1	15.6	6.1	24.7
		20	27	23.3	16.6	5.1	28.0	22.4	16.3	5.4	27.4	21.6	16.0	5.7	26.9	21.0	15.7	6.0	26.5	20.4	15.5	6.2	26.1
		22	30	24.4	17.5	5.1	29.2	23.5	17.2	5.4	28.6	22.7	16.9	5.7	28.0	22.0	16.7	6.0	27.6	21.4	16.4	6.2	27.2
RP-P10W RP-P10WP	65 -1.047-	18	25	23.2	16.2	5.9	28.9	22.3	15.8	6.2	28.3	21.5	15.4	6.6	27.8	20.9	15.2	6.9	27.4	20.3	14.9	7.2	27.1
		20	27	24.7	16.0	6.0	30.5	23.7	15.7	6.4	29.8	22.9	15.3	6.7	29.3	22.2	15.0	7.0	28.9	21.6	14.8	7.3	28.5
		22	30	25.9	16.8	6.0	31.7	24.9	16.4	6.4	31.1	24.1	16.1	6.8	30.6	23.3	15.8	7.1	30.1	22.7	15.5	7.4	29.7
	78 -1.240-	16	23	22.6	17.8	5.8	28.2	21.7	17.4	6.2	27.6	21.0	17.0	6.5	27.2	20.3	16.8	6.8	26.8	19.8	16.5	7.1	26.5
		18	25	24.4	17.8	5.9	30.2	23.5	17.4	6.3	29.5	22.7	17.1	6.7	29.0	22.0	16.8	7.0	28.6	21.4	16.5	7.2	28.2
		20	27	26.0	17.7	6.1	31.8	25.0	17.3	6.4	31.2	24.1	16.9	6.8	30.6	23.4	16.7	7.1	30.1	22.7	16.4	7.4	29.7
		22	30	27.2	18.5	6.1	33.1	26.2	18.2	6.5	32.5	25.4	17.8	6.9	31.9	24.6	17.6	7.2	31.4	23.9	17.3	7.5	30.9
	88 -1.385-	16	23	23.5	19.1	5.8	29.1	22.5	18.6	6.2	28.5	21.8	18.3	6.6	28.0	21.1	18.0	6.9	27.7	20.5	17.7	7.1	27.3
		18	25	25.4	19.1	6.0	31.1	24.4	18.7	6.4	30.5	23.5	18.3	6.7	30.0	22.8	18.0	7.0	29.5	22.2	17.8	7.3	29.1
		20	27	27.0	18.9	6.1	32.9	25.9	18.5	6.5	32.2	25.1	18.2	6.9	31.6	24.3	17.9	7.2	31.1	23.6	17.6	7.5	30.6
		22	30	28.3	19.9	6.2	34.2	27.2	19.5	6.6	33.5	26.3	19.2	6.9	32.9	25.5	18.9	7.2	32.4	24.8	18.7	7.5	31.9
	98 -1.527-	16	23	24.3	20.3	5.9	30.0	23.4	19.9	6.2	29.4	22.6	19.5	6.6	28.9	21.9	19.3	6.9	28.5	21.3	19.0	7.2	28.1
		18	25	26.3	20.4	6.0	32.1	25.3	19.9	6.4	31.4	24.4	19.6	6.8	30.9	23.7	19.3	7.1	30.4	23.0	19.0	7.4	30.0
		20	27	28.0	20.2	6.1	33.9	26.9	19.8	6.5	33.2	26.0	19.4	6.9	32.5	25.2	19.1	7.2	32.0	24.5	18.8	7.5	31.5
		22	30	29.3	21.3	6.2	35.3	28.2	20.9	6.6	34.6	27.3	20.6	7.0	33.9	26.5	20.3	7.3	33.4	25.7	20.0	7.6	32.9
	105 -1.625-	14	20	22.7	19.4	5.7	28.2	21.8	18.9	6.1	27.6	21.0	18.6	6.4	27.2	20.4	18.3	6.7	26.8	19.8	18.1	7.0	26.4
		16	23	24.9	21.2	5.9	30.7	24.0	20.8	6.3	30.0	23.1	20.4	6.6	29.5	22.5	20.1	6.9	29.0	21.8	19.9	7.2	28.6
		18	25	27.0	21.2	6.0	32.8	25.9	20.8	6.4	32.1	25.0	20.4	6.8	31.5	24.3	20.1	7.1	31.0	23.6	19.9	7.4	30.5
		20	27	28.7	21.1	6.2	34.6	27.6	20.6	6.6	33.8	26.6	20.3	6.9	33.2	25.8	20.0	7.2	32.7	25.1	19.7	7.5	32.2
		22	30	30.1	22.2	6.2	36.1	28.9	21.8	6.6	35.3	28.0	21.5	7.0	34.6	27.1	21.2	7.3	34.0	26.3	20.9	7.6	33.5

QA : Evaporator Air Flow (m^3/min)
CR : Sensible Heat Correction Factor
WB : Evaporator Air Inlet Wet Bulb (℃)
DB* : Evaporator Air Inlet Dry Bulb (℃) Given for Each WB

TC : Total Cooling Capacity (x 1000kcal/h)
SHC* : Sensible Heat Capacity (x 1000kcal/h) Given for Each WB and DB*
IPT : Compressor Input Power (kW)
HPR : Heat Pump Rate (x 1000kcal/h)

HITACHI

Cooling Capacities (Continued)

- 50Hz -

Model	Evaporator Inlet Air			Condensing Temperature(℃)																			
	QA	WB	DB*	32				35				38				41				44			
	-CR-	(℃)		TC	SHC*	IPT	HPR	TC	SHC*	IPT	HPR	TC	SHC*	IPT	HPR	TC	SHC*	IPT	HPR	TC	SHC*	IPT	HPR
RP-P15W RP-P15WP	95 -1.574-	18	25	37.5	25.5	9.5	46.8	36.0	24.8	10.1	45.8	34.8	24.3	10.7	45.1	33.8	23.8	11.2	44.5	32.8	23.4	11.7	43.9
		20	27	39.9	25.3	9.7	49.3	38.4	24.7	10.4	48.3	37.1	24.1	10.9	47.5	35.9	23.6	11.4	46.8	34.9	23.2	11.9	46.2
		22	30	41.9	26.3	9.8	51.4	40.3	25.7	10.5	50.4	38.9	25.2	11.0	49.5	37.7	24.7	11.5	48.7	36.7	24.3	12.0	48.1
	115 -1.885-	16	23	36.6	28.1	9.4	45.8	35.2	27.4	10.0	44.9	34.0	26.8	10.6	44.2	33.0	26.4	11.1	43.6	32.0	26.0	11.5	43.0
		18	25	39.6	28.2	9.7	49.0	38.0	27.5	10.3	47.9	36.7	26.9	10.9	47.2	35.6	26.4	11.4	46.5	34.6	26.0	11.8	45.8
		20	27	42.1	27.9	9.9	51.6	40.5	27.3	10.5	50.6	39.1	26.7	11.1	49.7	37.9	26.2	11.6	48.9	36.8	25.8	12.1	48.3
		22	30	44.1	29.2	10.0	53.8	42.5	28.6	10.6	52.7	41.1	28.1	11.2	51.8	39.8	27.6	11.7	50.9	38.7	27.2	12.2	50.2
	130 -2.115-	14	20	34.6	27.6	9.2	43.6	33.2	26.9	9.8	42.7	32.0	26.4	10.4	42.0	31.1	25.9	10.9	41.5	30.2	25.5	11.3	41.0
		16	23	38.1	30.1	9.5	47.3	36.5	29.4	10.1	46.3	35.3	28.8	10.7	45.6	34.2	28.4	11.2	44.9	33.3	27.9	11.6	44.3
		18	25	41.1	30.2	9.7	50.6	39.5	29.5	10.4	49.5	38.2	28.9	11.0	48.7	37.0	28.4	11.5	47.9	36.0	28.0	11.9	47.3
		20	27	43.7	29.9	9.9	53.4	42.1	29.3	10.6	52.2	40.6	28.7	11.2	51.3	39.4	28.2	11.7	50.5	38.2	27.8	12.2	49.8
		22	30	45.9	31.4	10.0	55.6	44.2	30.8	10.7	54.4	42.7	30.2	11.3	53.5	41.4	29.7	11.8	52.6	40.2	29.3	12.3	51.8
	145 -2.341-	14	20	35.8	29.4	9.3	44.9	34.4	28.7	9.9	44.0	33.2	28.2	10.4	43.3	32.3	27.7	10.9	42.7	31.3	27.3	11.4	42.2
		16	23	39.5	32.1	9.6	48.8	37.9	31.4	10.2	47.7	36.6	30.8	10.8	46.9	35.5	30.4	11.3	46.3	34.5	29.9	11.7	45.7
		18	25	42.7	32.2	9.8	52.2	41.0	31.5	10.4	51.0	39.6	30.9	11.0	50.2	38.4	30.4	11.5	49.4	37.3	30.0	12.0	48.7
		20	27	45.4	31.9	10.0	55.1	43.6	31.2	10.6	53.9	42.1	30.7	11.2	52.9	40.9	30.2	11.8	52.0	39.7	29.7	12.2	51.3
		22	30	47.6	33.6	10.1	57.4	45.8	32.9	10.8	56.1	44.3	32.4	11.4	55.1	42.9	31.9	11.9	54.2	41.7	31.5	12.3	53.4
	155 -2.490-	14	20	36.7	30.6	9.3	45.8	35.3	29.9	9.9	44.9	34.0	29.3	10.5	44.1	33.0	28.9	11.0	43.5	32.1	28.5	11.4	43.0
		16	23	40.4	33.5	9.6	49.8	38.8	32.8	10.2	48.7	37.5	32.2	10.8	47.9	36.4	31.7	11.3	47.2	35.3	31.2	11.7	46.5
		18	25	43.7	33.5	9.8	53.2	42.0	32.8	10.5	52.0	40.6	32.2	11.1	51.1	39.3	31.7	11.6	50.3	38.2	31.3	12.0	49.6
		20	27	46.5	33.2	10.0	56.2	44.7	32.5	10.7	54.9	43.2	32.0	11.3	53.9	41.8	31.5	11.8	53.1	40.6	31.0	12.3	52.3
		22	30	48.7	35.0	10.1	58.5	46.9	34.4	10.8	57.3	45.4	33.8	11.4	56.2	43.9	33.3	11.9	55.3	42.7	32.9	12.4	54.4
RP-P20WP	130 -2.146-	18	25	46.7	32.8	12.2	59.2	44.8	31.9	13.0	58.0	43.3	31.3	13.8	57.2	42.0	30.7	14.4	56.4	40.8	30.2	15.0	55.7
		20	27	49.6	32.5	12.5	62.4	47.7	31.7	13.3	61.2	46.1	31.0	14.0	60.2	44.7	30.5	14.7	59.3	43.4	30.0	15.3	58.5
		22	30	52.1	33.9	12.6	64.9	50.1	33.2	13.4	63.7	48.4	32.6	14.2	62.6	46.9	32.0	14.8	61.7	45.6	31.5	15.4	60.9
	160 -2.611-	16	23	45.8	36.6	12.1	58.2	43.9	35.8	12.9	57.1	42.4	35.1	13.6	56.2	41.2	34.5	14.3	55.5	40.0	34.0	14.8	54.8
		18	25	49.5	36.7	12.4	62.2	47.5	35.8	13.2	60.9	45.9	35.2	14.0	59.9	44.5	34.6	14.6	59.1	43.2	34.1	15.2	58.3
		20	27	52.6	36.4	12.7	65.5	50.6	35.6	13.5	64.2	48.8	34.9	14.2	63.1	47.3	34.3	14.9	62.2	46.0	33.8	15.5	61.3
		22	30	55.2	38.2	12.8	68.2	53.1	37.5	13.6	66.8	51.3	36.8	14.4	65.7	49.7	36.2	15.0	64.7	48.3	35.7	15.6	63.8
	180 -2.915-	14	20	43.1	35.9	11.9	55.3	41.4	35.1	12.6	54.3	39.9	34.4	13.3	53.4	38.8	33.9	14.0	52.8	37.7	33.4	14.5	52.2
		16	23	47.5	39.2	12.2	60.0	45.6	38.4	13.0	58.8	44.0	37.7	13.7	57.9	42.7	37.2	14.4	57.1	41.5	36.6	14.9	56.4
		18	25	51.3	39.3	12.5	64.1	49.3	38.5	13.3	62.8	47.6	37.8	14.1	61.7	46.2	37.2	14.7	60.8	44.9	36.7	15.3	60.0
		20	27	54.6	39.0	12.8	67.6	52.5	38.2	13.6	66.2	50.7	37.5	14.4	65.0	49.1	36.9	15.0	64.1	47.7	36.4	15.6	63.2
		22	30	57.2	41.1	12.9	70.3	55.1	40.3	13.7	68.9	53.2	39.6	14.5	67.7	51.6	39.1	15.2	66.7	50.1	38.5	15.8	65.7
	200 -3.214-	14	20	44.7	38.2	11.9	57.0	42.9	37.4	12.7	55.9	41.4	36.7	13.4	55.0	40.2	36.2	14.0	54.3	39.0	35.6	14.6	53.6
		16	23	49.2	41.9	12.3	61.8	47.2	41.0	13.1	60.5	45.6	40.3	13.8	59.5	44.3	39.7	14.5	58.7	43.0	39.2	15.0	57.9
		18	25	53.2	41.9	12.6	66.0	51.1	41.1	13.4	64.6	49.3	40.4	14.2	63.5	47.8	39.8	14.8	62.6	46.5	39.2	15.4	61.7
		20	27	56.5	41.6	12.9	69.6	54.4	40.8	13.7	68.2	52.5	40.0	14.4	67.0	50.9	39.4	15.1	65.9	49.4	38.9	15.7	65.0
		22	30	59.3	43.9	13.0	72.5	57.1	43.1	13.8	71.0	55.2	42.5	14.6	69.7	53.5	41.9	15.3	68.6	52.0	41.3	15.9	67.6
	215 -3.436-	14	20	45.8	40.0	12.0	58.2	44.0	39.1	12.8	57.0	42.5	38.4	13.5	56.1	41.2	37.9	14.1	55.4	40.1	37.4	14.6	54.7
		16	23	50.5	43.8	12.3	63.1	48.5	43.0	13.1	61.8	46.8	42.3	13.9	60.8	45.4	41.7	14.5	59.9	44.1	41.1	15.1	59.1
		18	25	54.6	43.9	12.6	67.4	52.4	43.0	13.5	66.0	50.6	42.3	14.2	64.9	49.1	41.7	14.9	63.9	47.7	41.1	15.5	63.0
		20	27	58.0	43.5	12.9	71.1	55.8	42.7	13.7	69.6	53.9	42.0	14.5	68.4	52.2	41.3	15.2	67.3	50.7	40.8	15.8	66.3
		22	30	60.9	46.1	13.0	74.1	58.6	45.3	13.9	72.5	56.6	44.6	14.6	71.2	54.9	44.0	15.3	70.1	53.3	43.4	15.9	69.0
RP-P25WP	160 -2.603-	18	25	59.0	40.8	15.4	75.2	56.7	39.8	16.4	73.7	54.8	38.9	17.3	72.6	53.1	38.2	18.1	71.6	51.6	37.6	18.8	70.8
		20	27	62.8	40.5	15.7	79.2	60.4	39.5	16.7	77.7	58.3	38.6	17.7	76.4	56.5	37.9	18.5	75.4	54.9	37.3	19.2	74.4
		22	30	65.9	42.2	15.9	82.4	63.4	41.3	16.9	80.9	61.3	40.5	17.9	79.6	59.4	39.7	18.7	78.4	57.7	39.1	19.4	77.3
	200 -3.209-	16	23	58.2	45.9	15.3	74.3	55.9	44.8	16.3	72.8	54.0	43.9	17.2	71.7	52.3	43.2	18.0	70.7	50.9	42.6	18.7	69.9
		18	25	62.9	46.0	15.7	79.3	60.4	44.9	16.7	77.7	58.4	44.1	17.6	76.4	56.6	43.3	18.4	75.3	55.0	42.6	19.2	74.4
		20	27	66.9	45.6	16.0	83.5	64.3	44.6	17.0	81.9	62.1	43.7	18.0	80.5	60.2	43.0	18.8	79.3	58.5	42.3	19.5	78.2
		22	30	70.1	47.8	16.1	86.9	67.5	46.9	17.2	85.2	65.3	46.0	18.1	83.8	63.2	45.3	19.0	82.5	61.4	44.7	19.7	81.4
	220 -3.505-	14	20	54.4	44.4	14.9	70.2	52.3	43.4	15.9	68.9	50.4	42.5	16.8	67.8	49.0	41.8	17.6	67.0	47.6	41.2	18.3	66.2
		16	23	60.0	48.5	15.4	76.1	57.6	47.4	16.4	74.6	55.6	46.5	17.3	73.4	53.9	45.8	18.1	72.4	52.4	45.1	18.8	71.5
		18	25	64.8	48.6	15.8	81.3	62.2	47.5	16.8	79.6	60.1	46.6	17.7	78.3	58.3	45.9	18.5	77.2	56.6	45.2	19.3	76.1
		20	27	68.9	48.2	16.1	85.7	66.3	47.1	17.1	83.9	64.0	46.2	18.1	82.5	62.0	45.5	18.9	81.2	60.3	44.8	19.7	80.1
		22	30	72.3	50.7	16.2	89.2	69.6	49.7	17.3	87.4	67.2	48.8	18.3	85.9	65.2	48.1	19.1	84.5	63.3	47.4	19.9	83.3
	240 -3.797-	14	20	56.0	46.7	15.0	71.9	53.8	45.7	16.0	70.5	51.9	44.8	16.9	69.4	50.4	44.1	17.7	68.5	49.0	43.4	18.4	67.7
		16	23	61.7	51.1	15.5	78.0	59.3	50.0	16.5	76.3	57.2	49.1	17.4	75.1	55.5	48.3	18.2	74.1	54.0	47.7	18.9	73.2
		18	25	66.7	51.1	15.8	83.3	64.1	50.1	16.9	81.5	61.9	49.2	17.8	80.2	60.0	48.4	18.6	79.0	58.3	47.7	19.4	77.9
		20	27	70.9	50.7	16.2	87.8	68.2	49.7	17.2	86.0	65.9	48.8	18.2	84.5	63.9	48.0	19.0	83.1	62.0	47.3	19.8	82.0
		22	30	74.4	53.5	16.3	91.4	71.6	52.5	17.4	89.5	69.2	51.6	18.4	88.0	67.1	50.8	19.2	86.5	65.2	50.2	20.0	85.3
	260 -4.084-	14	20	57.7	49.0	15.1	73.5	55.4	47.9	16.0	72.1	53.4	47.0	16.9	70.9	51.9	46.3	17.7	70.0	50.4	45.7	18.4	69.2
		16	23	63.5	53.6	15.5	79.8	61.0	52.5	16.5	78.1	58.9	51.6	17.5	76.8	57.1	50.9	18.3	75.8	55.5	50.2	19.0	74.8
		18	25	68.6	53.7	15.9	85.2	65.9	52.6	16.9	83.4	63.7	51.7	17.9	82.0	61.7	50.9	18.7	80.8	60.0	50.2	19.5	79.7
		20	27	73.0	53.3	16.2	89.9	70.2	52.2	17.3	88.0	67.8	51.3	18.2	86.4	65.7	50.5	19.1	85.0	63.8	49.8	19.8	83.8
		22	30	76.6	56.2	16.4	93.6	73.7	55.2	17.4	91.6	71.2	54.4	18.4	90.0	69.0	53.6	19.3	88.5	67.1	52.9	20.0	87.2

QA : Evaporator Air Flow (m^3/min)
CR : Sensible Heat Correction Factor
WB : Evaporator Air Inlet Wet Bulb (℃)
DB* : Evaporator Air Inlet Dry Bulb (℃) Given for Each WB

TC : Total Cooling Capacity (x 1000kcal/h)
SHC* : Sensible Heat Capacity (x 1000kcal/h) Given for Each WB and DB*
IPT : Compressor Input Power (kW)
HPR : Heat Pump Rate (x 1000kcal/h)

Cooling Capacities (Continued)

- 50Hz -

Model	Evaporator Inlet Air			Condensing Temperature(℃)																			
	QA	WB	DB*	32				35				38				41				44			
	-CR-	(℃)		TC	SHC*	IPT	HPR	TC	SHC*	IPT	HPR	TC	SHC*	IPT	HPR	TC	SHC*	IPT	HPR	TC	SHC*	IPT	HPR
RP-P30WP	185 -3.057-	18	25	74.3	50.2	18.5	94.4	71.3	48.8	19.7	92.5	68.9	47.8	20.8	91.0	66.8	46.8	21.7	89.7	64.9	46.0	22.6	88.6
		20	27	79.0	49.8	18.9	99.4	75.9	48.5	20.1	97.5	73.3	47.4	21.2	95.8	71.1	46.5	22.2	94.4	69.1	45.6	23.1	93.1
		22	30	82.8	51.8	19.0	103.5	79.7	50.5	20.3	101.4	77.1	49.5	21.4	99.7	74.7	48.6	22.4	98.2	72.6	47.8	23.3	96.8
	230 -3.757-	16	23	73.0	55.9	18.3	93.0	70.1	54.6	19.5	91.1	67.7	53.5	20.6	89.7	65.7	52.6	21.5	88.4	63.8	51.7	22.4	87.3
		18	25	78.9	56.1	18.8	99.3	75.7	54.7	20.0	97.2	73.2	53.7	21.1	95.6	71.0	52.7	22.1	94.2	68.9	51.8	23.0	92.9
		20	27	83.9	55.7	19.2	104.6	80.7	54.3	20.4	102.5	77.9	53.2	21.5	100.7	75.5	52.3	22.5	99.1	73.4	51.4	23.4	97.8
		22	30	88.0	58.2	19.3	108.9	84.7	57.0	20.6	106.7	81.9	55.9	21.8	104.8	79.3	55.0	22.7	103.1	77.1	54.2	23.7	101.7
	260 -4.215-	14	20	68.8	55.0	17.9	88.5	66.1	53.7	19.1	86.8	63.8	52.6	20.2	85.4	61.9	51.7	21.1	84.3	60.2	50.9	21.9	83.3
		16	23	75.8	60.0	18.5	96.0	72.8	58.6	19.7	94.0	70.3	57.5	20.8	92.4	68.2	56.6	21.7	91.2	66.3	55.7	22.6	90.0
		18	25	82.0	60.1	18.9	102.5	78.7	58.7	20.2	100.3	76.1	57.6	21.3	98.6	73.7	56.6	22.3	97.1	71.6	55.8	23.2	95.8
		20	27	87.1	59.6	19.3	108.0	83.8	58.3	20.6	105.8	80.9	57.2	21.7	103.9	78.5	56.2	22.7	102.3	76.2	55.3	23.6	100.8
		22	30	91.4	62.6	19.5	112.4	88.0	61.3	20.8	110.1	85.1	60.2	21.9	108.2	82.4	59.3	22.9	106.4	80.1	58.4	23.9	104.9
	290 -4.665-	14	20	71.4	58.6	18.1	91.2	68.6	57.2	19.2	89.4	66.2	56.1	20.3	87.9	64.3	55.2	21.2	86.8	62.4	54.4	22.1	85.7
		16	23	78.7	64.0	18.6	98.9	75.5	62.6	19.8	96.8	73.0	61.5	20.9	95.2	70.8	60.5	21.9	93.8	68.8	59.6	22.7	92.6
		18	25	85.0	64.1	19.0	105.7	81.7	62.7	20.3	103.3	78.9	61.6	21.4	101.6	76.5	60.6	22.4	100.0	74.3	59.7	23.3	98.6
		20	27	90.4	63.6	19.4	111.4	87.0	62.2	20.7	109.0	84.0	61.1	21.9	107.0	81.4	60.1	22.9	105.3	79.1	59.2	23.8	103.8
		22	30	94.8	66.9	19.6	116.0	91.3	65.6	20.9	113.5	88.3	64.5	22.1	111.5	85.5	63.6	23.1	109.6	83.1	62.7	24.0	108.0
	310 -4.961-	14	20	73.2	61.0	18.1	93.0	70.3	59.6	19.3	91.1	67.8	58.5	20.4	89.6	65.8	57.6	21.3	88.4	63.9	56.7	22.1	87.2
		16	23	80.6	66.7	18.6	100.9	77.4	65.3	19.9	98.7	74.7	64.1	21.0	97.0	72.5	63.1	21.9	95.6	70.4	62.3	22.8	94.3
		18	25	87.1	66.8	19.1	107.8	83.6	65.4	20.3	105.4	80.8	64.2	21.5	103.6	78.3	63.2	22.5	101.9	76.1	62.3	23.4	100.5
		20	27	92.6	66.2	19.5	113.6	89.1	64.9	20.8	111.2	86.0	63.7	21.9	109.1	83.4	62.7	22.9	107.3	81.0	61.8	23.8	105.7
		22	30	97.1	69.8	19.7	118.3	93.5	68.5	21.0	115.8	90.4	67.4	22.1	113.7	87.6	66.4	23.2	111.7	85.1	65.5	24.1	110.1
RP-P40WP	255 -4.214-	18	25	88.5	63.0	22.2	113.5	85.0	61.4	23.6	111.2	82.2	60.2	24.9	109.5	79.7	59.1	26.1	108.0	77.4	58.2	27.1	106.6
		20	27	94.2	62.5	22.6	119.5	90.6	61.0	24.1	117.1	87.5	59.7	25.4	115.2	84.8	58.7	26.6	113.5	82.3	57.7	27.7	112.0
		22	30	98.8	65.3	22.8	124.3	95.1	63.9	24.3	121.9	91.9	62.7	25.7	119.9	89.0	61.7	26.9	118.0	86.5	60.8	27.9	116.4
	325 -5.302-	16	23	87.7	72.0	22.0	112.5	84.2	70.4	23.4	110.2	81.3	69.1	24.8	108.5	78.9	68.1	25.9	107.0	76.6	67.1	26.9	105.7
		18	25	94.7	72.1	22.6	120.0	91.0	70.5	24.0	117.5	87.9	69.3	25.4	115.6	85.2	68.2	26.5	113.9	82.8	67.2	27.6	112.4
		20	27	100.8	71.5	23.0	126.4	96.9	70.0	24.5	123.8	93.6	68.7	25.9	121.7	90.7	67.6	27.1	119.9	88.1	66.6	28.2	118.2
		22	30	105.7	75.3	23.2	131.5	101.7	73.9	24.7	128.9	98.3	72.6	26.1	126.7	95.3	71.6	27.3	124.7	92.6	70.6	28.4	122.9
	360 -5.835-	14	20	82.2	69.9	21.5	106.6	79.0	68.4	22.9	104.5	76.2	67.1	24.2	102.9	74.0	66.1	25.3	101.6	71.8	65.2	26.3	100.3
		16	23	90.5	76.6	22.2	115.5	86.9	75.0	23.6	113.1	84.0	73.7	24.9	111.3	81.5	72.6	26.1	109.7	79.1	71.6	27.1	108.3
		18	25	97.8	76.7	22.7	123.3	94.0	75.1	24.2	120.6	90.8	73.8	25.5	118.6	88.0	72.7	26.7	116.9	85.5	71.7	27.8	115.3
		20	27	104.0	76.0	23.2	129.8	100.1	74.5	24.7	127.2	96.6	73.2	26.1	124.9	93.7	72.1	27.3	123.0	91.0	71.1	28.3	121.2
		22	30	109.1	80.3	23.4	135.1	105.1	78.8	24.9	132.4	101.5	77.6	26.3	130.1	98.4	76.5	27.5	127.9	95.6	75.5	28.6	126.1
	395 -6.361-	14	20	84.8	74.0	21.6	109.3	81.5	72.5	23.0	107.1	78.6	71.2	24.3	105.4	76.3	70.1	25.5	104.1	74.1	69.1	26.5	102.7
		16	23	93.4	81.2	22.3	118.4	89.7	79.5	23.7	115.9	86.6	78.2	25.1	114.0	84.0	77.1	26.2	112.4	81.6	76.1	27.3	111.0
		18	25	100.9	81.2	22.8	126.5	96.9	79.6	24.3	123.7	93.7	78.3	25.7	121.6	90.8	77.2	26.9	119.8	88.2	76.2	27.9	118.1
		20	27	107.3	80.5	23.3	133.3	103.2	79.0	24.8	130.4	99.7	77.7	26.2	128.1	96.6	76.5	27.4	126.1	93.9	75.5	28.5	124.2
		22	30	112.6	85.2	23.5	138.7	108.4	83.8	25.0	135.8	104.8	82.5	26.5	133.4	101.5	81.4	27.7	131.2	98.6	80.4	28.8	129.3
	430 -6.880-	14	20	87.4	78.0	21.7	112.0	83.9	76.5	23.1	109.7	81.0	75.2	24.4	107.9	78.6	74.1	25.6	106.5	76.4	73.1	26.6	105.1
		16	23	96.3	85.7	22.4	121.4	92.4	84.1	23.8	118.8	89.3	82.8	25.2	116.8	86.6	81.6	26.3	115.1	84.1	80.6	27.4	113.6
		18	25	104.0	85.8	22.9	129.6	99.9	84.1	24.4	126.8	96.6	82.8	25.8	124.6	93.6	81.6	27.0	122.7	90.9	80.6	28.0	120.9
		20	27	110.6	85.1	23.4	136.6	106.4	83.5	24.9	133.7	102.8	82.1	26.3	131.3	99.6	81.0	27.5	129.1	96.7	79.9	28.6	127.2
		22	30	116.0	90.2	23.6	142.2	111.7	88.7	25.2	139.2	108.0	87.4	26.6	136.7	104.6	86.2	27.8	134.4	101.7	85.2	28.9	132.4

QA : Evaporator Air Flow (m^3/min)
CR : Sensible Heat Correction Factor
WB : Evaporator Air Inlet Wet Bulb (℃)
DB* : Evaporator Air Inlet Dry Bulb (℃) Given for Each WB

TC : Total Cooling Capacity (x 1000kcal/h)
SHC* : Sensible Heat Capacity (x 1000kcal/h) Given for Each WB and DB*
IPT : Compressor Input Power (kW)
HPR : Heat Pump Rate (x 1000kcal/h)

Cooling Capacities (Continued)

- 60Hz -

Model	Evaporator Inlet Air QA -CR-	WB (℃)	DB*	Condensing Temperature(℃) 32 TC	32 SHC*	32 IPT	32 HPR	35 TC	35 SHC*	35 IPT	35 HPR	38 TC	38 SHC*	38 IPT	38 HPR	41 TC	41 SHC*	41 IPT	41 HPR	44 TC	44 SHC*	44 IPT	44 HPR
RP-P5W	38 -0.590-	16	23	12.8	9.5	3.5	16.2	12.3	9.2	3.7	15.9	11.9	9.0	3.9	15.6	11.5	8.9	4.1	15.4	11.2	8.7	4.3	15.2
		18	25	13.9	9.5	3.6	17.3	13.3	9.2	3.8	16.9	12.9	9.0	4.0	16.7	12.5	8.9	4.2	16.4	12.1	8.7	4.4	16.2
		20	27	14.7	9.4	3.7	18.2	14.2	9.2	3.9	17.9	13.7	9.0	4.1	17.6	13.3	8.8	4.3	17.3	12.9	8.7	4.5	17.1
		22	30	15.5	9.8	3.7	19.0	14.9	9.6	3.9	18.6	14.4	9.4	4.2	18.3	13.9	9.2	4.3	18.0	13.5	9.1	4.5	17.8
	44 -0.675-	16	23	13.4	10.2	3.5	16.8	12.9	10.0	3.8	16.5	12.4	9.8	4.0	16.2	12.1	9.6	4.2	16.0	11.7	9.4	4.3	15.8
		18	25	14.5	10.2	3.6	18.0	13.9	10.0	3.9	17.6	13.5	9.8	4.1	17.3	13.1	9.6	4.3	17.0	12.7	9.5	4.4	16.8
		20	27	15.4	10.2	3.7	18.9	14.8	9.9	3.9	18.5	14.3	9.7	4.2	18.2	13.9	9.5	4.3	18.0	13.5	9.4	4.5	17.7
		22	30	16.2	10.6	3.7	19.7	15.6	10.4	4.0	19.3	15.0	10.2	4.2	19.0	14.6	10.0	4.4	18.7	14.2	9.9	4.6	18.4
RP-P5WP	35 -0.547-	18	25	13.5	9.1	3.6	17.0	13.0	8.9	3.8	16.7	12.6	8.7	4.0	16.4	12.2	8.5	4.2	16.2	11.8	8.4	4.4	16.0
		20	27	14.4	9.1	3.6	17.9	13.8	8.8	3.9	17.6	13.4	8.6	4.1	17.3	13.0	8.4	4.3	17.1	12.6	8.3	4.4	16.8
		22	30	15.1	9.4	3.7	18.7	14.5	9.2	3.9	18.3	14.0	9.0	4.1	18.0	13.6	8.8	4.3	17.7	13.2	8.7	4.5	17.5
	40 -0.619-	16	23	13.0	9.7	3.5	16.5	12.5	9.5	3.7	16.1	12.1	9.3	3.9	15.9	11.7	9.1	4.1	15.7	11.4	8.9	4.3	15.5
		18	25	14.1	9.7	3.6	17.6	13.5	9.5	3.8	17.2	13.1	9.3	4.0	17.0	12.7	9.1	4.2	16.7	12.3	9.0	4.4	16.5
		20	27	15.0	9.7	3.7	18.5	14.4	9.4	3.9	18.2	13.9	9.2	4.1	17.9	13.5	9.1	4.3	17.6	13.1	8.9	4.5	17.4
		22	30	15.7	10.1	3.7	19.3	15.1	9.9	3.9	18.9	14.6	9.7	4.2	18.6	14.2	9.5	4.4	18.3	13.8	9.3	4.5	18.1
	44 -0.675-	16	23	13.4	10.2	3.5	16.9	12.9	10.0	3.8	16.5	12.4	9.8	4.0	16.3	12.1	9.6	4.2	16.1	11.7	9.4	4.3	15.9
		18	25	14.5	10.2	3.6	18.0	13.9	10.0	3.9	17.7	13.5	9.8	4.1	17.4	13.1	9.6	4.3	17.1	12.7	9.5	4.4	16.9
		20	27	15.4	10.2	3.7	19.0	14.8	9.9	3.9	18.6	14.3	9.7	4.2	18.3	13.9	9.5	4.3	18.0	13.5	9.4	4.5	17.8
		22	30	16.2	10.6	3.7	19.8	15.6	10.4	4.0	19.4	15.0	10.2	4.2	19.1	14.6	10.0	4.4	18.8	14.2	9.9	4.6	18.5
	48 -0.729-	16	23	13.8	10.7	3.6	17.3	13.3	10.5	3.8	16.9	12.8	10.3	4.0	16.7	12.4	10.1	4.2	16.4	12.1	9.9	4.3	16.2
		18	25	14.9	10.8	3.6	18.5	14.3	10.5	3.9	18.1	13.9	10.3	4.1	17.8	13.4	10.1	4.3	17.5	13.1	10.0	4.4	17.3
		20	27	15.9	10.7	3.7	19.5	15.3	10.4	4.0	19.1	14.7	10.2	4.2	18.8	14.3	10.0	4.4	18.5	13.9	9.9	4.5	18.2
		22	30	16.6	11.2	3.8	20.3	16.0	10.9	4.0	19.9	15.5	10.7	4.2	19.5	15.0	10.6	4.4	19.2	14.6	10.4	4.6	18.9
	53 -0.797-	14	20	13.0	10.4	3.5	16.4	12.5	10.2	3.7	16.1	12.0	10.0	3.9	15.8	11.7	9.8	4.1	15.6	11.4	9.6	4.2	15.4
		16	23	14.3	11.4	3.6	17.8	13.7	11.1	3.8	17.4	13.3	10.9	4.0	17.1	12.9	10.7	4.2	16.9	12.5	10.5	4.4	16.7
		18	25	15.5	11.4	3.7	19.0	14.9	11.1	3.9	18.6	14.4	10.9	4.1	18.3	13.9	10.7	4.3	18.0	13.5	10.6	4.5	17.8
		20	27	16.4	11.3	3.7	20.1	15.8	11.0	4.0	19.6	15.3	10.8	4.2	19.3	14.8	10.6	4.4	19.0	14.4	10.5	4.6	18.7
		22	30	17.2	11.8	3.8	20.9	16.6	11.6	4.0	20.5	16.0	11.4	4.2	20.1	15.6	11.2	4.4	19.8	15.1	11.1	4.6	19.5
RP-P8W RP-P8WP	50 -0.804-	18	25	21.0	13.9	5.6	26.2	20.2	13.5	5.9	25.7	19.5	13.2	6.3	25.3	18.9	12.9	6.5	25.0	18.4	12.7	6.8	24.7
		20	27	22.3	13.8	5.7	27.7	21.5	13.4	6.0	27.1	20.7	13.1	6.4	26.7	20.1	12.8	6.7	26.3	19.5	12.6	6.9	25.9
		22	30	23.4	14.3	5.7	28.8	22.6	14.0	6.1	28.2	21.8	13.6	6.4	27.8	21.1	13.4	6.7	27.4	20.5	13.1	7.0	27.0
	60 -0.953-	16	23	20.5	15.1	5.5	25.7	19.7	14.8	5.9	25.1	19.0	14.4	6.2	24.8	18.4	14.2	6.5	24.4	17.9	13.9	6.7	24.1
		18	25	22.1	15.2	5.6	27.4	21.2	14.8	6.0	26.9	20.5	14.5	6.3	26.4	19.9	14.2	6.6	26.1	19.3	14.0	6.9	25.7
		20	27	23.5	15.1	5.7	28.9	22.6	14.7	6.1	28.3	21.9	14.4	6.5	27.9	21.2	14.1	6.8	27.4	20.6	13.9	7.0	27.1
		22	30	24.7	15.7	5.8	30.1	23.8	15.4	6.2	29.5	23.0	15.0	6.5	29.0	22.3	14.8	6.8	28.6	21.6	14.5	7.1	28.2
	66 -1.045-	16	23	21.1	15.9	5.5	26.3	20.3	15.5	5.9	25.8	19.6	15.2	6.2	25.4	19.0	15.0	6.5	25.0	18.4	14.7	6.8	24.7
		18	25	22.8	16.0	5.7	28.1	21.9	15.6	6.0	27.5	21.2	15.3	6.4	27.1	20.5	15.0	6.7	26.7	19.9	14.7	6.9	26.3
		20	27	24.2	15.9	5.8	29.7	23.3	15.5	6.2	29.1	22.5	15.1	6.5	28.6	21.8	14.9	6.8	28.1	21.2	14.6	7.1	27.7
		22	30	25.4	16.6	5.8	30.9	24.5	16.2	6.2	30.3	23.7	15.9	6.6	29.8	22.9	15.6	6.9	29.3	22.3	15.4	7.1	28.9
	72 -1.131-	16	23	21.7	16.7	5.6	27.0	20.9	16.3	5.9	26.4	20.1	16.0	6.3	26.0	19.5	15.7	6.5	25.6	19.0	15.5	6.8	25.3
		18	25	23.5	16.8	5.7	28.8	22.5	16.4	6.1	28.2	21.8	16.0	6.4	27.7	21.1	15.8	6.7	27.3	20.5	15.5	7.0	27.0
		20	27	25.0	16.6	5.8	30.4	24.0	16.2	6.2	29.8	23.2	15.9	6.5	29.3	22.5	15.6	6.8	28.8	21.8	15.4	7.1	28.4
		22	30	26.2	17.4	5.9	31.7	25.2	17.0	6.2	31.0	24.4	16.7	6.6	30.5	23.6	16.4	6.9	30.0	22.9	16.2	7.2	29.6
	80 -1.244-	14	20	20.5	16.3	5.4	25.6	19.7	15.9	5.8	25.1	19.0	15.6	6.1	24.7	18.4	15.3	6.4	24.4	17.9	15.1	6.6	24.1
		16	23	22.6	17.8	5.6	27.8	21.7	17.4	6.0	27.2	20.9	17.0	6.3	26.8	20.3	16.8	6.6	26.4	19.7	16.5	6.8	26.0
		18	25	24.4	17.8	5.7	29.7	23.4	17.4	6.1	29.1	22.6	17.1	6.4	28.6	21.9	16.8	6.7	28.2	21.3	16.5	7.0	27.8
		20	27	25.9	17.7	5.8	31.4	24.9	17.3	6.2	30.7	24.1	16.9	6.6	30.2	23.3	16.7	6.9	29.7	22.7	16.4	7.1	29.3
		22	30	27.2	18.5	5.9	32.7	26.2	18.2	6.3	32.0	25.3	17.8	6.6	31.4	24.5	17.6	6.9	30.9	23.8	17.3	7.2	30.5
RP-P10W RP-P10WP	65 -1.047-	18	25	26.1	17.5	6.9	32.7	25.1	17.0	7.3	32.0	24.2	16.6	7.7	31.6	23.5	16.3	8.1	31.1	22.8	16.0	8.4	30.7
		20	27	27.7	17.4	7.0	34.5	26.7	16.9	7.4	33.8	25.8	16.5	7.9	33.2	25.0	16.2	8.2	32.8	24.3	15.9	8.5	32.3
		22	30	29.1	18.0	7.1	35.9	28.0	17.6	7.5	35.2	27.1	17.2	7.9	34.6	26.2	16.9	8.3	34.1	25.5	16.6	8.6	33.6
	78 -1.240-	16	23	25.4	19.1	6.8	32.0	24.4	18.6	7.2	31.3	23.6	18.2	7.6	30.8	22.9	17.9	8.0	30.4	22.2	17.6	8.3	30.1
		18	25	27.5	19.2	6.9	34.2	26.4	18.7	7.4	33.4	25.5	18.3	7.8	32.9	24.7	17.9	8.2	32.5	24.0	17.6	8.5	32.0
		20	27	29.2	19.0	7.1	36.0	28.1	18.5	7.5	35.3	27.1	18.1	8.0	34.7	26.3	17.8	8.3	34.2	25.5	17.5	8.7	33.7
		22	30	30.6	19.8	7.2	37.5	29.5	19.4	7.6	36.8	28.5	19.0	8.0	36.1	27.6	18.7	8.4	35.6	26.8	18.4	8.7	35.1
	88 -1.385-	16	23	26.4	20.4	6.8	33.0	25.3	19.9	7.3	32.3	24.5	19.5	7.7	31.8	23.7	19.2	8.0	31.4	23.1	18.9	8.3	31.0
		18	25	28.5	20.4	7.0	35.3	27.4	20.0	7.4	34.5	26.5	19.6	7.9	34.0	25.7	19.2	8.2	33.5	24.9	18.9	8.6	33.0
		20	27	30.3	20.3	7.1	37.2	29.2	19.8	7.6	36.4	28.2	19.4	8.0	35.8	27.3	19.1	8.4	35.2	26.5	18.8	8.7	34.7
		22	30	31.8	21.2	7.2	38.7	30.6	20.8	7.7	37.9	29.6	20.4	8.1	37.3	28.7	20.1	8.5	36.7	27.9	19.8	8.8	36.2
	98 -1.527-	16	23	27.4	21.7	6.9	34.0	26.3	21.2	7.3	33.3	25.4	20.8	7.7	32.7	24.6	20.4	8.1	32.3	23.9	20.1	8.4	31.9
		18	25	29.6	21.7	7.0	36.3	28.4	21.2	7.5	35.6	27.4	20.8	7.9	35.0	26.6	20.5	8.3	34.4	25.9	20.2	8.6	34.0
		20	27	31.4	21.6	7.2	38.3	30.2	21.1	7.6	37.5	29.2	20.7	8.1	36.9	28.3	20.3	8.4	36.3	27.5	20.0	8.8	35.8
		22	30	33.0	22.6	7.3	39.9	31.8	22.2	7.7	39.1	30.7	21.8	8.2	38.4	29.7	21.4	8.5	37.8	28.9	21.1	8.9	37.2
	105 -1.625-	14	20	25.5	20.7	6.7	31.9	24.5	20.2	7.1	31.3	23.6	19.8	7.5	30.8	22.9	19.5	7.9	30.4	22.3	19.2	8.2	30.0
		16	23	28.0	22.6	6.9	34.7	26.9	22.1	7.3	34.0	26.0	21.7	7.7	33.4	25.2	21.3	8.1	32.9	24.5	21.0	8.4	32.5
		18	25	30.3	22.6	7.1	37.1	29.1	22.1	7.5	36.3	28.1	21.7	7.9	35.7	27.3	21.4	8.3	35.1	26.5	21.0	8.6	34.6
		20	27	32.2	22.4	7.2	39.1	31.0	22.0	7.7	38.3	29.9	21.5	8.1	37.6	29.0	21.2	8.5	37.0	28.2	20.9	8.8	36.5
		22	30	33.8	23.6	7.3	40.8	32.5	23.1	7.7	39.9	31.5	22.7	8.2	39.2	30.5	22.4	8.6	38.6	29.6	22.1	8.9	38.0

QA : Evaporator Air Flow (m^3/min)
CR : Sensible Heat Correction Factor
WB : Evaporator Air Inlet Wet Bulb (℃)
DB* : Evaporator Air Inlet Dry Bulb (℃) Given for Each WB

TC : Total Cooling Capacity (x 1000kcal/h)
SHC* : Sensible Heat Capacity (x 1000kcal/h) Given for Each WB and DB*
IPT : Compressor Input Power (kW)
HPR : Heat Pump Rate (x 1000kcal/h)

Cooling Capacities (Continued)

- 60Hz -

Model	Evaporator Inlet Air			Condensing Temperature(℃)																			
	QA	WB	DB*	32				35				38				41				44			
	-CR-	(℃)		TC	SHC*	IPT	HPR	TC	SHC*	IPT	HPR	TC	SHC*	IPT	HPR	TC	SHC*	IPT	HPR	TC	SHC*	IPT	HPR
RP-P15W RP-P15WP	95 -1.574-	18	25	41.7	27.5	11.4	52.8	40.0	26.7	12.1	51.8	38.7	26.1	12.8	51.0	37.5	25.5	13.4	50.3	36.4	25.0	14.0	49.7
		20	27	44.3	27.3	11.6	55.6	42.6	26.5	12.4	54.6	41.2	25.9	13.1	53.7	39.9	25.3	13.7	53.0	38.8	24.8	14.2	52.3
		22	30	46.5	28.2	11.8	57.9	44.8	27.5	12.5	56.8	43.3	26.9	13.2	55.9	41.9	26.4	13.8	55.1	40.7	25.9	14.4	54.4
	115 -1.885-	16	23	40.7	30.0	11.3	51.7	39.1	29.2	12.0	50.7	37.7	28.6	12.7	49.9	36.6	28.1	13.3	49.3	35.6	27.6	13.8	48.7
		18	25	44.0	30.1	11.6	55.2	42.2	29.3	12.3	54.1	40.8	28.7	13.0	53.3	39.6	28.2	13.6	52.5	38.4	27.7	14.1	51.9
		20	27	46.8	29.9	11.8	58.2	45.0	29.1	12.6	57.1	43.4	28.5	13.3	56.1	42.1	27.9	13.9	55.3	40.9	27.4	14.4	54.6
		22	30	49.0	31.1	11.9	60.6	47.2	30.4	12.7	59.4	45.6	29.8	13.4	58.4	44.2	29.2	14.0	57.6	43.0	28.8	14.6	56.8
	130 -2.115-	14	20	38.4	29.5	11.1	49.2	36.9	28.7	11.8	48.3	35.6	28.1	12.4	47.5	34.5	27.6	13.0	47.0	33.5	27.1	13.5	46.5
		16	23	42.3	32.1	11.4	53.3	40.6	31.3	12.1	52.3	39.2	30.6	12.8	51.5	38.0	30.1	13.4	50.8	37.0	29.6	13.9	50.2
		18	25	45.7	32.2	11.7	57.0	43.9	31.4	12.4	55.8	42.4	30.7	13.1	55.0	41.1	30.2	13.7	54.2	39.9	29.7	14.3	53.5
		20	27	48.6	31.9	11.9	60.1	46.7	31.1	12.7	58.9	45.1	30.5	13.4	57.9	43.7	29.9	14.0	57.1	42.5	29.4	14.6	56.3
		22	30	51.0	33.3	12.0	62.6	49.1	32.6	12.8	61.3	47.4	32.0	13.5	60.3	45.9	31.4	14.1	59.4	44.7	30.9	14.7	58.6
	145 -2.341-	14	20	39.8	31.3	11.1	50.7	38.3	30.6	11.8	49.7	36.9	29.9	12.5	48.9	35.8	29.4	13.1	48.4	34.8	28.9	13.6	47.8
		16	23	43.9	34.1	11.5	55.0	42.1	33.3	12.2	53.9	40.7	32.7	12.9	53.0	39.5	32.1	13.5	52.3	38.3	31.6	14.0	51.7
		18	25	47.4	34.2	11.7	58.8	45.5	33.4	12.5	57.5	44.0	32.7	13.2	56.6	42.7	32.2	13.8	55.8	41.4	31.7	14.4	55.1
		20	27	50.4	33.9	12.0	62.0	48.5	33.1	12.7	60.7	46.8	32.5	13.5	59.7	45.4	31.9	14.1	58.8	44.1	31.4	14.6	58.0
		22	30	52.9	35.5	12.1	64.6	50.9	34.8	12.9	63.3	49.2	34.2	13.6	62.2	47.7	33.6	14.2	61.2	46.3	33.1	14.8	60.3
	155 -2.490-	14	20	40.8	32.5	11.2	51.7	39.2	31.8	11.9	50.7	37.8	31.1	12.5	49.9	36.7	30.6	13.1	49.3	35.6	30.1	13.6	48.7
		16	23	44.9	35.5	11.5	56.1	43.1	34.7	12.2	54.9	41.7	34.0	12.9	54.1	40.4	33.5	13.5	53.3	39.3	32.9	14.1	52.6
		18	25	48.5	35.6	11.8	60.0	46.6	34.7	12.5	58.7	45.1	34.1	13.2	57.7	43.7	33.5	13.8	56.9	42.4	33.0	14.4	56.1
		20	27	51.6	35.3	12.0	63.2	49.7	34.5	12.8	61.9	48.0	33.8	13.5	60.8	46.5	33.2	14.1	59.9	45.1	32.7	14.7	59.1
		22	30	54.2	37.0	12.1	65.9	52.1	36.3	12.9	64.5	50.4	35.6	13.6	63.4	48.8	35.1	14.3	62.4	47.4	34.6	14.8	61.5
RP-P20WP	130 -2.146-	18	25	52.6	35.4	13.9	66.9	50.5	34.5	14.8	65.6	48.8	33.7	15.6	64.6	47.3	33.0	16.3	63.7	46.0	32.5	17.0	63.0
		20	27	55.9	35.2	14.1	70.5	53.8	34.2	15.1	69.1	51.9	33.5	15.9	68.0	50.3	32.8	16.6	67.1	48.9	32.2	17.3	66.2
		22	30	58.6	36.5	14.3	73.3	56.5	35.7	15.2	71.9	54.6	34.9	16.1	70.8	52.9	34.3	16.8	69.7	51.4	33.7	17.5	68.8
	160 -2.611-	16	23	51.6	39.3	13.7	65.8	49.5	38.3	14.6	64.5	47.8	37.5	15.4	63.5	46.4	36.9	16.1	62.7	45.1	36.3	16.8	61.9
		18	25	55.7	39.4	14.1	70.2	53.5	38.4	15.0	68.8	51.7	37.6	15.8	67.7	50.1	37.0	16.5	66.8	48.7	36.4	17.2	65.9
		20	27	59.2	39.1	14.4	74.0	57.0	38.1	15.3	72.5	55.0	37.4	16.1	71.3	53.3	36.7	16.9	70.3	51.8	36.1	17.6	69.3
		22	30	62.1	40.9	14.5	77.0	59.8	40.0	15.4	75.5	57.8	39.2	16.3	74.3	56.0	38.5	17.0	73.1	54.5	38.0	17.7	72.1
	180 -2.915-	14	20	48.6	38.5	13.4	62.5	46.7	37.6	14.3	61.4	45.0	36.8	15.1	60.4	43.7	36.2	15.8	59.7	42.4	35.6	16.4	59.0
		16	23	53.5	42.0	13.8	67.8	51.4	41.0	14.7	66.4	49.6	40.2	15.6	65.4	48.1	39.5	16.3	64.5	46.8	38.9	16.9	63.7
		18	25	57.8	42.1	14.2	72.4	55.5	41.1	15.1	70.9	53.7	40.3	15.9	69.8	52.0	39.6	16.7	68.8	50.5	39.0	17.3	67.9
		20	27	61.5	41.7	14.5	76.3	59.1	40.8	15.4	74.8	57.1	40.0	16.3	73.5	55.3	39.3	17.0	72.4	53.8	38.7	17.7	71.4
		22	30	64.5	43.7	14.6	79.5	62.1	42.9	15.6	77.9	60.0	42.1	16.4	76.5	58.1	41.4	17.2	75.3	56.5	40.8	17.9	74.3
	200 -3.214-	14	20	50.3	40.9	13.5	64.4	48.3	39.9	14.4	63.1	46.6	39.1	15.2	62.1	45.3	38.5	15.9	61.4	44.0	37.9	16.5	60.6
		16	23	55.4	44.6	13.9	69.8	53.2	43.7	14.8	68.4	51.4	42.8	15.7	67.3	49.9	42.2	16.4	66.4	48.5	41.6	17.0	65.5
		18	25	59.9	44.7	14.3	74.6	57.5	43.7	15.2	73.0	55.6	42.9	16.0	71.8	53.9	42.2	16.8	70.7	52.4	41.6	17.5	69.8
		20	27	63.7	44.4	14.6	78.6	61.3	43.4	15.5	77.0	59.2	42.6	16.4	75.7	57.3	41.9	17.1	74.5	55.7	41.3	17.8	73.4
		22	30	66.8	46.6	14.7	81.9	64.3	45.7	15.7	80.2	62.2	45.0	16.5	78.8	60.2	44.3	17.3	77.5	58.5	43.7	18.0	76.4
	215 -3.436-	14	20	51.6	42.7	13.6	65.7	49.6	41.7	14.4	64.4	47.9	40.9	15.3	63.4	46.5	40.3	16.0	62.6	45.1	39.7	16.6	61.8
		16	23	56.9	46.7	14.0	71.3	54.6	45.7	14.9	69.8	52.7	44.8	15.7	68.7	51.2	44.1	16.4	67.7	49.7	43.5	17.1	66.8
		18	25	61.5	46.7	14.3	76.2	59.0	45.7	15.2	74.5	57.0	44.9	16.1	73.3	55.3	44.2	16.8	72.2	53.7	43.6	17.5	71.2
		20	27	65.4	46.4	14.6	80.3	62.9	45.4	15.6	78.7	60.7	44.5	16.4	77.2	58.8	43.8	17.2	76.0	57.2	43.2	17.9	74.9
		22	30	68.6	48.8	14.8	83.7	66.0	47.9	15.7	81.9	63.8	47.1	16.6	80.5	61.8	46.4	17.3	79.1	60.1	45.8	18.0	78.0
RP-P25WP	160 -2.603-	18	25	66.6	44.3	17.4	85.0	63.9	43.1	18.5	83.4	61.8	42.1	19.5	82.1	59.9	41.2	20.4	81.0	58.2	40.5	21.2	80.0
		20	27	70.8	44.0	17.7	89.6	68.1	42.8	18.9	87.8	65.8	41.8	19.9	86.4	63.7	40.9	20.8	85.2	61.9	40.1	21.7	84.1
		22	30	74.3	45.6	17.9	93.2	71.5	44.5	19.1	91.4	69.1	43.5	20.1	89.9	67.0	42.7	21.1	88.6	65.1	41.9	21.9	87.4
	200 -3.209-	16	23	65.6	49.3	17.2	83.9	63.0	48.1	18.3	82.3	60.8	47.1	19.4	81.0	59.0	46.3	20.3	80.0	57.4	45.5	21.1	79.0
		18	25	70.9	49.5	17.7	89.6	68.1	48.2	18.8	87.8	65.8	47.2	19.9	86.4	63.8	46.4	20.8	85.2	62.0	45.6	21.6	84.1
		20	27	75.4	49.1	18.0	94.4	72.5	47.9	19.2	92.5	70.0	46.9	20.3	91.0	67.9	46.0	21.2	89.6	65.9	45.2	22.0	88.4
		22	30	79.1	51.3	18.2	98.3	76.1	50.1	19.4	96.3	73.6	49.1	20.5	94.7	71.3	48.3	21.4	93.2	69.3	47.5	22.2	91.9
	220 -3.505-	14	20	61.4	47.7	16.8	79.4	59.0	46.6	17.9	77.9	56.9	45.6	18.9	76.7	55.2	44.8	19.8	75.8	53.6	44.0	20.6	74.9
		16	23	67.6	52.0	17.3	86.0	64.9	50.7	18.5	84.3	62.7	49.7	19.5	83.0	60.8	48.9	20.4	81.9	59.1	48.1	21.2	80.8
		18	25	73.1	52.1	17.8	91.9	70.2	50.9	18.9	89.9	67.8	49.9	20.0	88.5	65.7	49.0	20.9	87.2	63.9	48.2	21.7	86.1
		20	27	77.7	51.7	18.1	96.8	74.7	50.5	19.3	94.8	72.2	49.5	20.4	93.2	70.0	48.6	21.3	91.8	68.0	47.8	22.2	90.5
		22	30	81.5	54.1	18.3	100.8	78.5	53.0	19.5	98.7	75.8	52.0	20.6	97.0	73.5	51.1	21.5	95.5	71.4	50.3	22.4	94.2
	240 -3.797-	14	20	63.2	50.1	16.9	81.3	60.7	48.9	18.0	79.7	58.6	47.9	19.0	78.4	56.9	47.1	19.9	77.5	55.2	46.3	20.7	76.5
		16	23	69.6	54.6	17.4	88.1	66.8	53.4	18.6	86.3	64.6	52.3	19.6	84.9	62.6	51.5	20.5	83.8	60.9	50.7	21.3	82.7
		18	25	75.2	54.8	17.9	94.1	72.2	53.5	19.0	92.1	69.8	52.5	20.1	90.6	67.7	51.6	21.0	89.3	65.8	50.8	21.8	88.1
		20	27	80.0	54.3	18.2	99.2	76.9	53.1	19.4	97.1	74.3	52.0	20.5	95.4	72.0	51.1	21.4	94.0	70.0	50.3	22.3	92.6
		22	30	83.9	57.0	18.4	103.3	80.8	55.8	19.6	101.1	78.1	54.8	20.7	99.4	75.7	53.9	21.6	97.8	73.5	53.1	22.5	96.4
	260 -4.084-	14	20	65.0	52.5	17.0	83.1	62.5	51.2	18.1	81.5	60.3	50.2	19.1	80.2	58.5	49.4	20.0	79.2	56.8	48.6	20.8	78.2
		16	23	71.6	57.3	17.5	90.2	68.8	56.0	18.6	88.3	66.4	54.9	19.7	86.8	64.4	54.1	20.6	85.6	62.6	53.3	21.4	84.5
		18	25	77.4	57.4	17.9	96.3	74.3	56.1	19.1	94.2	71.8	55.1	20.2	92.7	69.6	54.1	21.1	91.3	67.7	53.3	21.9	90.0
		20	27	82.3	56.9	18.3	101.5	79.2	55.7	19.5	99.4	76.4	54.6	20.6	97.6	74.1	53.7	21.5	96.1	72.0	52.9	22.4	94.7
		22	30	86.3	59.8	18.5	105.7	83.1	58.6	19.7	103.5	80.3	57.6	20.8	101.7	77.8	56.7	21.7	100.0	75.6	55.9	22.6	98.6

QA : Evaporator Air Flow (m^3/min)
CR : Sensible Heat Correction Factor
WB : Evaporator Air Inlet Wet Bulb (℃)
DB* : Evaporator Air Inlet Dry Bulb (℃) Given for Each WB

TC : Total Cooling Capacity (x 1000kcal/h)
SHC* : Sensible Heat Capacity (x 1000kcal/h) Given for Each WB and DB*
IPT : Compressor Input Power (kW)
HPR : Heat Pump Rate (x 1000kcal/h)

Cooling Capacities (Continued)

- 60Hz -

Model	Evaporator Inlet Air			Condensing Temperature(℃)																			
	QA	WB	DB*	32				35				38				41				44			
	-CR-	(℃)		TC	SHC*	IPT	HPR	TC	SHC*	IPT	HPR	TC	SHC*	IPT	HPR	TC	SHC*	IPT	HPR	TC	SHC*	IPT	HPR
RP-P30WP	185 -3.057-	18	25	82.5	54.1	20.9	105.6	79.2	52.5	22.3	103.5	76.6	51.3	23.5	101.9	74.2	50.2	24.6	100.5	72.1	49.2	25.6	99.2
		20	27	87.7	53.7	21.4	111.2	84.4	52.2	22.7	109.0	81.5	50.9	24.0	107.2	79.0	49.8	25.1	105.7	76.7	48.8	26.1	104.3
		22	30	92.0	55.6	21.6	115.7	88.6	54.1	23.0	113.4	85.6	52.9	24.3	111.6	83.0	51.8	25.4	109.9	80.6	50.9	26.4	108.4
	230 -3.757-	16	23	81.1	59.8	20.8	104.0	77.8	58.2	22.1	101.9	75.2	57.0	23.3	100.4	73.0	55.9	24.4	99.0	70.9	55.0	25.4	97.8
		18	25	87.6	60.0	21.3	111.0	84.1	58.5	22.6	108.7	81.3	57.2	23.9	107.0	78.8	56.1	25.0	105.4	76.6	55.1	26.0	104.1
		20	27	93.2	59.5	21.7	116.9	89.6	58.0	23.1	114.6	86.6	56.8	24.4	112.6	83.9	55.7	25.5	110.9	81.5	54.7	26.5	109.4
		22	30	97.8	62.0	21.9	121.7	94.1	60.6	23.3	119.3	90.9	59.4	24.6	117.2	88.1	58.3	25.8	115.4	85.6	57.3	26.8	113.8
	260 -4.215-	14	20	76.5	58.7	20.3	99.1	73.5	57.2	21.6	97.2	70.9	56.0	22.9	95.6	68.8	55.0	23.9	94.5	66.8	54.0	24.9	93.3
		16	23	84.2	63.9	20.9	107.3	80.9	62.3	22.3	105.1	78.1	61.0	23.5	103.5	75.8	60.0	24.6	102.1	73.6	59.0	25.6	100.7
		18	25	91.1	64.1	21.4	114.6	87.4	62.5	22.8	112.2	84.5	61.2	24.1	110.3	81.9	60.1	25.2	108.7	79.6	59.1	26.2	107.2
		20	27	96.8	63.6	21.9	120.7	93.1	62.0	23.3	118.2	89.9	60.7	24.6	116.2	87.2	59.6	25.7	114.4	84.7	58.6	26.8	112.8
		22	30	101.6	66.4	22.1	125.7	97.8	65.0	23.5	123.1	94.5	63.7	24.8	121.0	91.6	62.6	26.0	119.0	89.0	61.7	27.0	117.3
	290 -4.665-	14	20	79.4	62.4	20.5	102.0	76.2	60.9	21.8	100.0	73.6	59.6	23.0	98.4	71.4	58.6	24.1	97.2	69.3	57.6	25.0	95.9
		16	23	87.4	68.0	21.1	110.6	83.9	66.4	22.4	108.3	81.1	65.1	23.7	106.5	78.6	64.0	24.8	105.0	76.4	63.0	25.8	103.7
		18	25	94.5	68.2	21.6	118.1	90.7	66.5	23.0	115.6	87.7	65.2	24.3	113.6	85.0	64.1	25.4	111.9	82.6	63.1	26.4	110.4
		20	27	100.5	67.6	22.0	124.5	96.6	66.1	23.4	121.9	93.3	64.7	24.8	119.7	90.4	63.6	25.9	117.8	87.9	62.6	26.9	116.1
		22	30	105.4	70.8	22.2	129.6	101.4	69.4	23.7	126.9	98.1	68.1	25.0	124.6	95.0	67.0	26.2	122.6	92.3	66.0	27.2	120.8
	310 -4.961-	14	20	81.3	64.8	20.5	104.0	78.1	63.3	21.8	101.9	75.3	62.0	23.1	100.3	73.1	61.0	24.1	99.0	71.0	60.0	25.1	97.7
		16	23	89.5	70.7	21.1	112.8	85.9	69.1	22.5	110.4	83.0	67.8	23.8	108.5	80.5	66.7	24.8	107.0	78.3	65.7	25.8	105.6
		18	25	96.8	70.9	21.7	120.5	92.9	69.2	23.0	117.8	89.8	67.9	24.3	115.8	87.0	66.8	25.5	114.0	84.6	65.8	26.5	112.4
		20	27	102.9	70.3	22.1	127.0	99.0	68.7	23.5	124.3	95.6	67.4	24.8	122.0	92.6	66.2	26.0	120.1	90.0	65.2	27.0	118.3
		22	30	107.9	73.8	22.3	132.2	103.9	72.3	23.7	129.4	100.4	71.0	25.1	127.1	97.3	69.9	26.2	125.0	94.6	68.9	27.3	123.1
RP-P40WP	255 -4.214-	18	25	98.8	67.6	26.3	128.5	94.9	65.8	28.0	126.0	91.7	64.4	29.6	124.2	88.9	63.1	31.0	122.6	86.4	62.0	32.2	121.1
		20	27	105.1	67.0	26.9	135.2	101.1	65.3	28.6	132.7	97.6	63.9	30.2	130.6	94.6	62.6	31.6	128.8	91.9	61.5	32.9	127.2
		22	30	110.3	69.8	27.1	140.6	106.1	68.2	28.9	138.0	102.6	66.8	30.5	135.8	99.4	65.6	31.9	133.9	96.6	64.5	33.2	132.2
	325 -5.302-	16	23	97.9	76.6	26.2	127.4	93.9	74.8	27.8	124.9	90.7	73.3	29.4	123.1	88.0	72.1	30.8	121.5	85.5	71.0	32.0	120.1
		18	25	105.8	76.8	26.8	135.8	101.6	75.0	28.5	133.1	98.2	73.5	30.1	131.1	95.1	72.3	31.5	129.3	92.4	71.1	32.8	127.7
		20	27	112.5	76.1	27.3	143.0	108.2	74.4	29.1	140.2	104.5	72.9	30.7	137.9	101.3	71.7	32.2	135.9	98.4	70.5	33.4	134.1
		22	30	118.0	79.8	27.6	148.8	113.6	78.2	29.4	145.9	109.8	76.8	31.0	143.5	106.4	75.5	32.5	141.3	103.4	74.4	33.8	139.4
	360 -5.835-	14	20	91.7	74.4	25.6	120.8	88.1	72.7	27.2	118.6	85.0	71.2	28.7	116.8	82.5	70.1	30.1	115.4	80.2	69.0	31.3	114.1
		16	23	101.1	81.2	26.3	130.7	97.0	79.4	28.0	128.2	93.7	78.0	29.6	126.2	90.9	76.7	31.0	124.6	88.3	75.6	32.2	123.1
		18	25	109.2	81.4	27.0	139.5	104.9	79.6	28.7	136.6	101.4	78.1	30.3	134.5	98.3	76.8	31.7	132.6	95.5	75.7	33.0	130.9
		20	27	116.1	80.7	27.5	146.8	111.7	79.0	29.3	143.9	107.9	77.5	31.0	141.5	104.6	76.2	32.4	139.4	101.6	75.1	33.7	137.6
		22	30	121.8	84.9	27.8	152.8	117.3	83.2	29.6	149.8	113.4	81.8	31.3	147.3	109.8	80.5	32.7	145.0	106.7	79.4	34.0	143.0
	395 -6.361-	14	20	94.7	78.6	25.7	123.8	90.9	76.8	27.4	121.5	87.7	75.3	28.9	119.6	85.2	74.2	30.2	118.2	82.7	73.0	31.4	116.8
		16	23	104.2	85.9	26.5	134.0	100.1	84.1	28.2	131.4	96.7	82.6	29.8	129.3	93.8	81.3	31.1	127.6	91.1	80.2	32.4	126.0
		18	25	112.7	86.1	27.1	143.0	108.2	84.2	28.9	140.1	104.6	82.7	30.5	137.8	101.4	81.4	31.9	135.8	98.5	80.2	33.2	134.1
		20	27	119.8	85.3	27.7	150.7	115.2	83.6	29.5	147.6	111.3	82.1	31.1	145.1	107.9	80.8	32.6	142.9	104.8	79.6	33.9	140.9
		22	30	125.7	89.9	27.9	156.8	121.0	88.2	29.8	153.6	116.9	86.8	31.4	151.0	113.3	85.5	32.9	148.6	110.1	84.4	34.2	146.5
	430 -6.880-	14	20	97.6	82.7	25.8	126.8	93.7	80.9	27.5	124.4	90.4	79.4	29.0	122.4	87.8	78.2	30.4	120.9	85.2	77.1	31.6	119.4
		16	23	107.4	90.6	26.6	137.3	103.2	88.7	28.3	134.5	99.6	87.2	29.9	132.4	96.7	85.9	31.3	130.6	93.9	84.7	32.5	128.9
		18	25	116.1	90.7	27.2	146.6	111.5	88.8	29.0	143.5	107.8	87.3	30.6	141.2	104.5	86.0	32.0	139.1	101.5	84.8	33.3	137.2
		20	27	123.5	89.9	27.8	154.4	118.8	88.1	29.6	151.2	114.7	86.6	31.2	148.6	111.2	85.3	32.7	146.3	108.0	84.1	34.0	144.3
		22	30	129.5	95.0	28.1	160.7	124.7	93.2	29.9	157.4	120.5	91.8	31.6	154.7	116.8	90.4	33.0	152.2	113.5	89.3	34.3	150.0

QA : Evaporator Air Flow (m^3/min)
CR : Sensible Heat Correction Factor
WB : Evaporator Air Inlet Wet Bulb (℃)
DB* : Evaporator Air Inlet Dry Bulb (℃) Given for Each WB

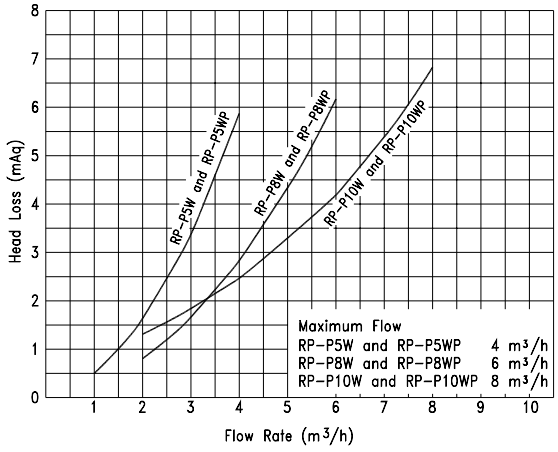
TC : Total Cooling Capacity (x 1000kcal/h)
SHC* : Sensible Heat Capacity (x 1000kcal/h) Given for Each WB and DB*
IPT : Compressor Input Power (kW)
HPR : Heat Pump Rate (x 1000kcal/h)

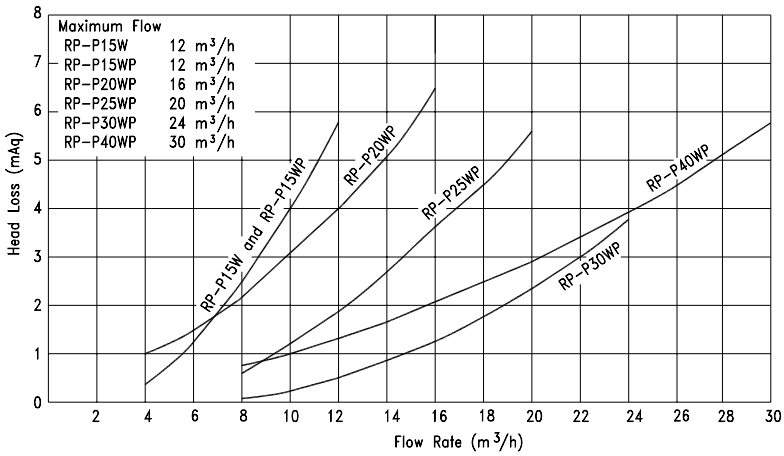
Condenser Water Requirements

Model	HPR	WATER FLOW RATE (m^3/h)										
		CONDENSING TEMP - INLET WATER TEMP (^oC)										
		10	11	12	13	14	15	16	17	18	19	20
RP-P5W RP-P5WP	15	3.0	2.6	2.2	2.0	1.7	1.6	1.4	1.3	1.2	1.1	1.1
	16	3.4	2.9	2.5	2.2	1.9	1.7	1.6	1.4	1.3	1.2	1.1
	17	3.7	3.2	2.7	2.4	2.1	1.9	1.7	1.6	1.4	1.3	1.2
	18	—	3.5	3.0	2.6	2.3	2.1	1.9	1.7	1.6	1.5	1.4
	19	—	3.8	3.3	2.9	2.5	2.3	2.0	1.9	1.7	1.6	1.5
	20	—	—	3.6	3.1	2.8	2.5	2.2	2.0	1.8	1.7	1.6
	21	—	—	3.9	3.4	3.0	2.7	2.4	2.2	2.0	1.8	1.7
RP-P8W RP-P8WP	24	4.8	4.1	3.5	3.1	2.8	2.5	2.3	2.1	1.9	1.8	1.7
	26	5.5	4.6	4.0	3.5	3.1	2.8	2.5	2.3	2.1	2.0	1.8
	28	—	5.3	4.6	4.0	3.5	3.2	2.9	2.6	2.4	2.2	2.0
	30	—	6.0	5.1	4.5	3.9	3.5	3.2	2.9	2.6	2.4	2.3
	32	—	—	5.7	5.0	4.4	3.9	3.5	3.2	2.9	2.7	2.5
RP-P10W RP-P10WP	32	6.7	5.7	4.9	4.3	3.8	3.4	3.1	2.8	2.6	2.4	2.2
	34	7.4	6.3	5.4	4.7	4.2	3.8	3.4	3.1	2.8	2.6	2.4
	36	—	6.9	6.0	5.2	4.6	4.1	3.7	3.4	3.1	2.9	2.7
	38	—	7.7	6.6	5.7	5.0	4.5	4.0	3.7	3.4	3.1	2.9
	40	—	—	7.2	6.2	5.5	4.9	4.4	4.0	3.6	3.4	3.1
RP-P15W RP-P15WP	50	10.1	8.6	7.4	6.5	5.8	5.2	4.7	4.3	4.0	3.7	3.4
	55	12.0	10.1	8.7	7.6	6.8	6.0	5.5	5.0	4.6	4.2	3.9
	60	—	11.8	10.1	8.8	7.8	7.0	6.3	5.7	5.2	4.8	4.4
	65	—	—	11.7	10.1	8.9	7.9	7.1	6.5	5.9	5.4	5.0
	70	—	—	—	11.5	10.1	9.0	8.1	7.3	6.6	6.1	5.6
RP-P20WP	60	11.7	9.9	8.6	7.6	6.7	6.1	5.5	5.0	4.6	4.3	4.0
	65	13.4	11.4	9.8	8.6	7.7	6.9	6.2	5.7	5.2	4.8	4.5
	70	15.3	12.9	11.1	9.7	8.6	7.7	7.0	6.3	5.8	5.4	5.0
	80	—	—	14.0	12.2	10.8	9.6	8.6	7.8	7.1	6.6	6.1
	90	—	—	—	15.0	13.2	11.7	10.5	9.5	8.6	7.9	7.3
RP-P25WP	75	14.4	12.3	10.6	9.3	8.3	7.5	6.8	6.2	5.8	5.3	5.0
	80	16.1	13.7	11.8	10.4	9.2	8.3	7.5	6.9	6.3	5.8	5.4
	90	19.8	16.8	14.4	12.6	11.1	10.0	9.0	8.2	7.5	6.9	6.4
	100	—	—	17.3	15.1	13.3	11.8	10.6	9.7	8.8	8.1	7.5
	110	—	—	—	17.8	15.6	13.9	12.4	11.2	10.3	9.4	8.7
RP-P30WP	90	16.7	14.2	12.4	10.9	9.7	8.8	8.0	7.3	6.7	6.3	5.8
	100	20.0	17.0	14.7	12.9	11.4	10.3	9.3	8.5	7.8	7.3	6.8
	110	23.7	20.0	17.2	15.0	13.3	11.9	10.8	9.8	9.0	8.3	7.7
	120	—	23.3	20.0	17.4	15.4	13.7	12.4	11.2	10.3	9.5	8.8
	140	—	—	—	22.8	20.0	17.7	15.9	14.4	13.1	12.0	11.1
RP-P40WP	100	11.8	10.5	9.5	8.6	7.9	7.3	6.8	6.4	6.0	5.6	5.3
	120	14.8	13.1	11.8	10.7	9.8	9.0	8.4	7.8	7.3	6.9	6.5
	140	18.1	16.0	14.3	13.0	11.8	10.8	10.0	9.3	8.7	8.2	7.7
	160	21.7	19.1	17.0	15.3	13.9	12.8	11.8	11.0	10.2	9.6	9.0
	180	25.4	22.3	19.9	17.8	16.2	14.8	13.7	12.7	11.8	11.1	10.4

HPR : Heat Pump Rate (x1000kcal/h)

Head Loss through Condenser

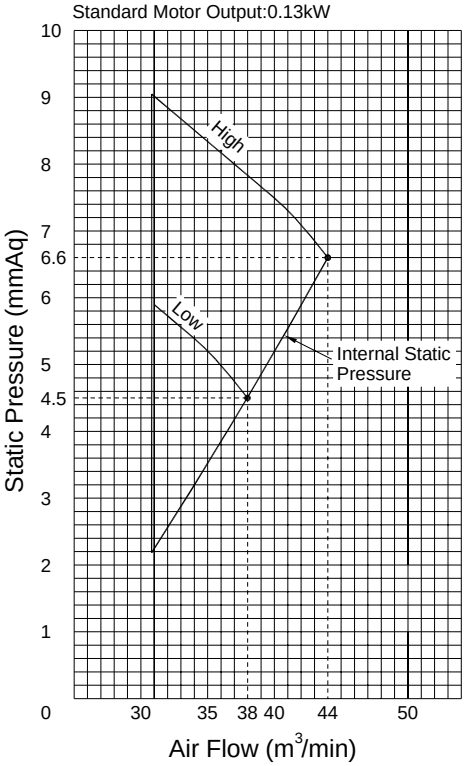




Fan Performance Curves

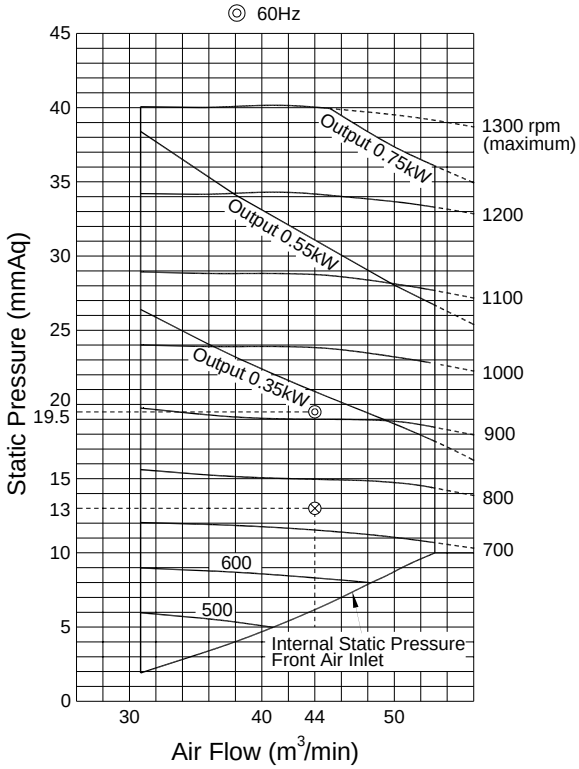
RP-P5W

Standard Motor Output:0.13kW



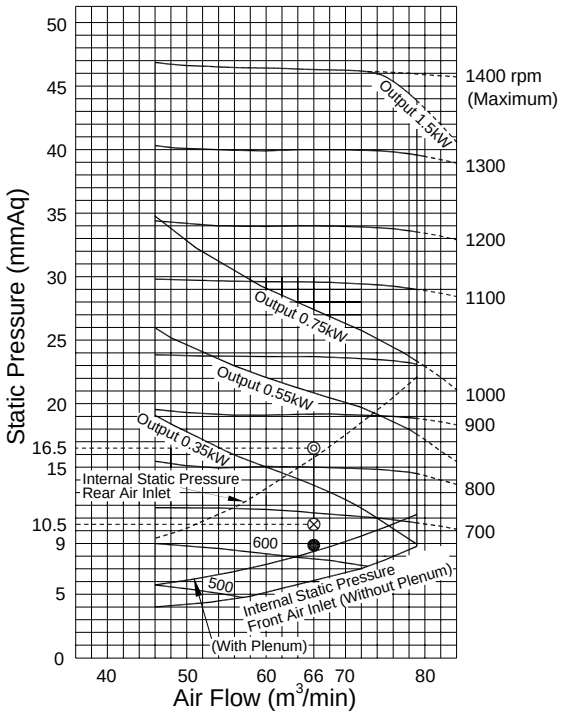
RP-P5WP

Standard Motor Output: 0.55kW
Factory Set Point ⊗ 50Hz
◎ 60Hz



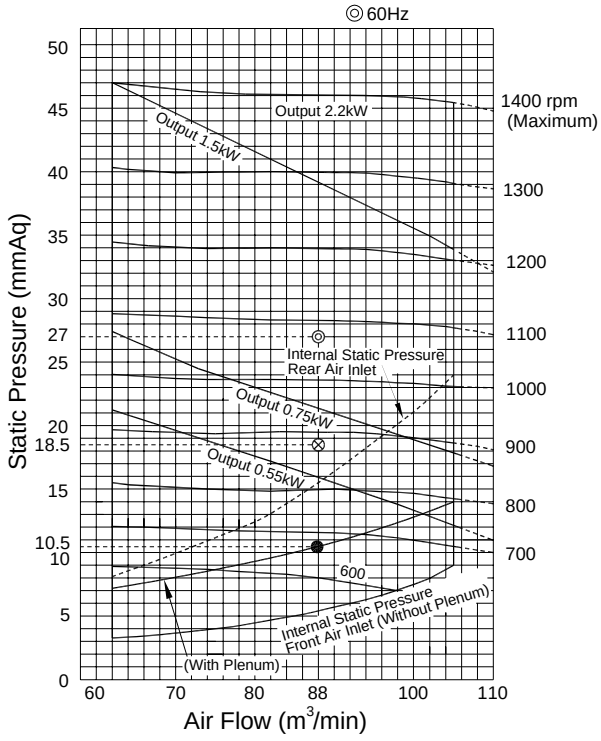
RP-P8W and RP-P8WP

Standard Motor Output: RP-P8W : 0.25kW
RP-P8WP: 0.75kW
Factory Set Point: RP-P8W : ●
RP-P8WP: ⊗ 50Hz
◎ 60Hz



RP-P10W and RP-P10WP

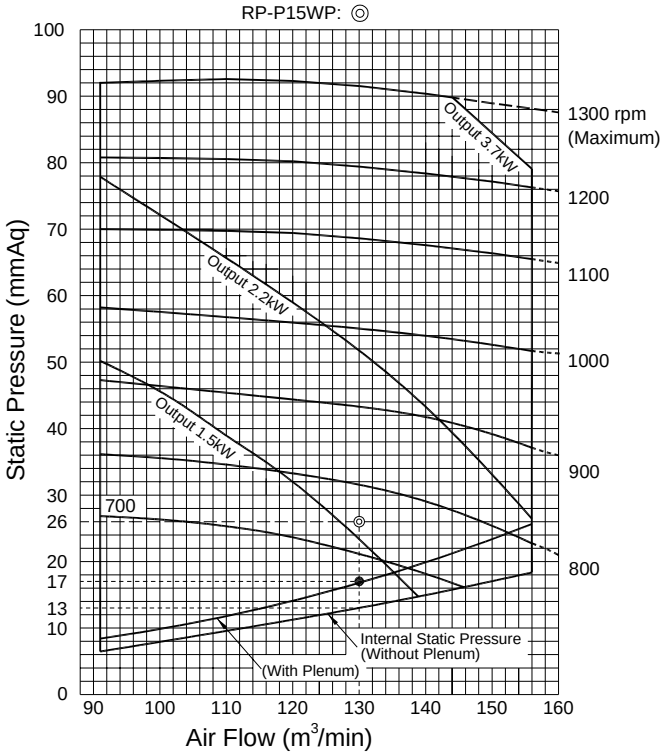
Standard Motor Output: RP-P10W : 0.30kW
RP-P10WP: 1.5kW
Factory Set Point: RP-P10W : ●
RP-P10WP: ⊗ 50Hz
◎ 60Hz



Fan Performance Curves (Continued)

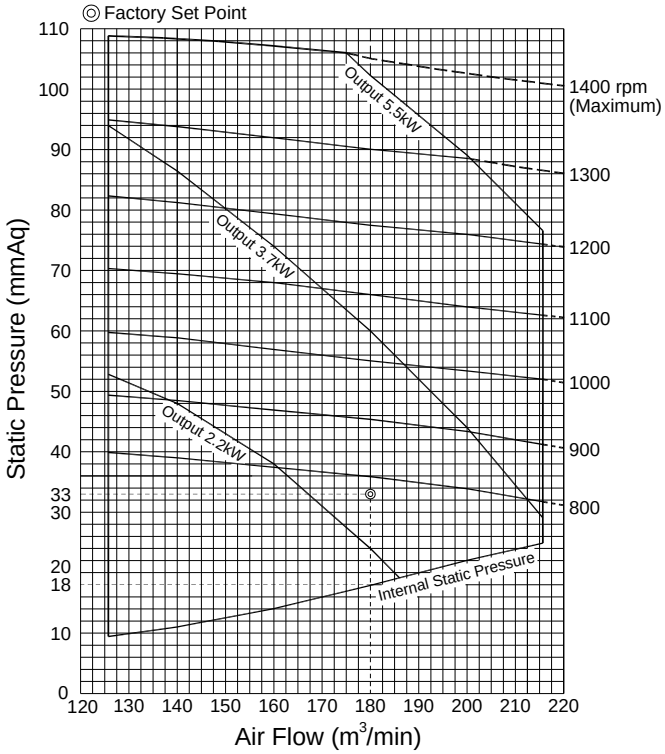
RP-P15W and RP-P15WP

Standard Motor Output: RP-P15W : 1.5kW
RP-P15WP: 2.2kW
Factory Set Point: RP-P15W : ●
RP-P15WP: ◎



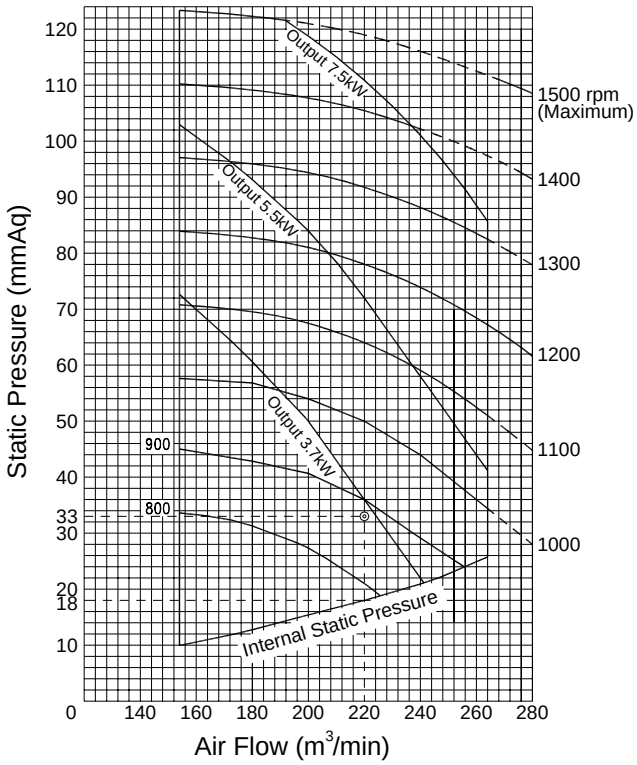
RP-P20WP

Standard Motor Output: 3.7kW
◎ Factory Set Point



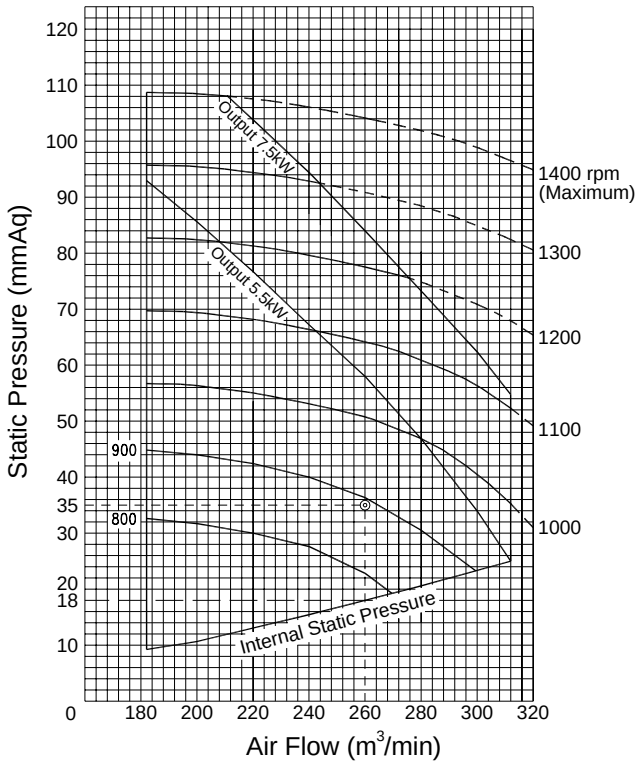
RP-P25WP

Standard Motor Output：3.7kW
◎ Factory Set Point (890rpm)



RP-P30WP

Standard Motor Output：5.5kW
◎ Factory Set Point (890rpm)

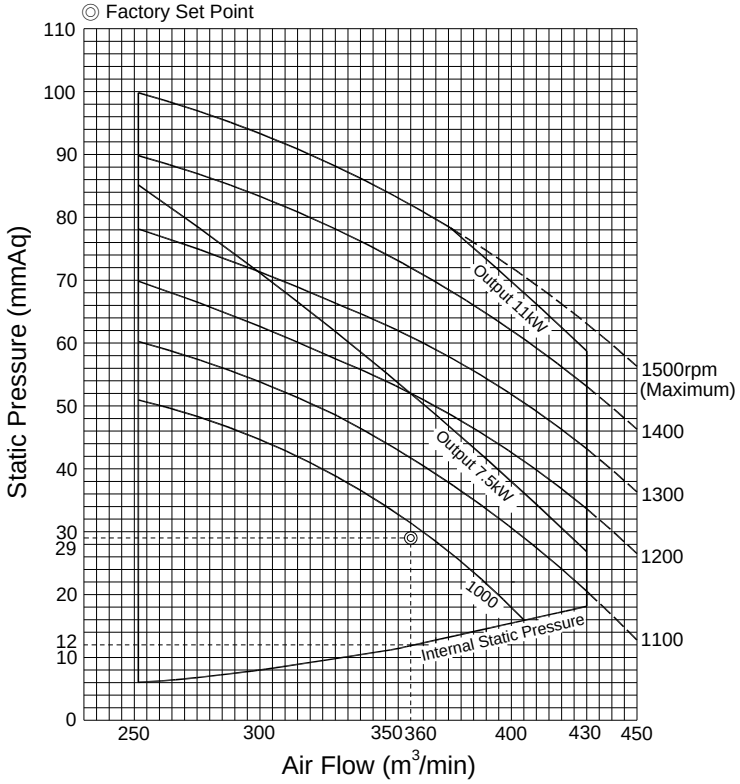


HITACHI

Fan Performance Curves (Continued)

RP-P40WP

Standard Motor Output：7.5kW
◎ Factory Set Point



Fan Speed Adjustment

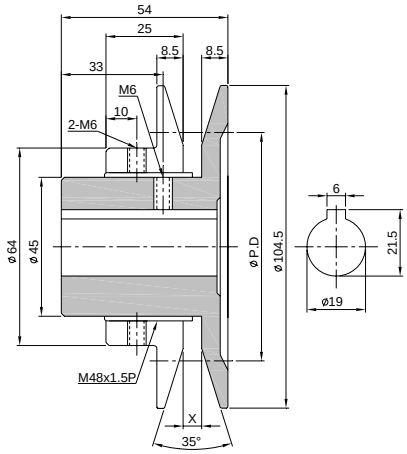
Fan Speed Adjustment by Motor Pulley

Models		Hz	Regulation Space X of Motor Pulley (mm)										Factory Set			RPM/ Turn*
			0	1	2	3	4	5	6	6.4	7	8	X	RPM	PD	
RP-P5WP	RPM	50	940	908	877	846	814	783	752	-	-	-	6	752	76	47
		60	-	1,103	1,064	1,027	989	950	913	-	-	-		913		57
	PD		95	91.8	88.6	85.5	82.3	79.1	76	-	-	-				
RP-P8WP	RPM	50	886	854	822	792	760	728	698	-	-	-	6	698	70.5	47
		60	-	1,031	993	956	917	879	842	-	-	-		842		57
	PD		89.5	86.3	83.1	80	76.8	73.6	70.5	-	-	-				
RP-P10WP	RPM	50	1,104	1,074	1,042	1,012	980	950	918	897	-	-	6.4	897	91	47
		60	-	-	1,263	1,226	1,187	1,150	1,112	1,087	-	-		1,087		57
	PD		112	108.9	105.7	102.6	99.4	96.3	93.1	91	-	-				
RP-P15WP	RPM	50	833	808	784	758	734	709	685	-	659	635	4	734	92.5	37
		60	-	-	-	920	890	861	831	-	800	770	8	770	80	45
	PD		105	101.9	98.8	95.6	92.5	89.4	86.3	-	83.1	80				
RP-P20WP	RPM	50	866	845	822	802	780	760	738	-	-	-	5	760	115.7	44
		60	882	859	836	816	794	773	751	-	-	-		773		
	PD		132	128.7	125.2	122.2	118.9	115.7	112.4	-	-	-				
RP-P25WP	RPM	50	866	845	822	802	780	759	738	-	-	-	2	822	125.2	44
		60	882	859	836	816	794	773	751	-	-	-		836		
	PD		132	128.7	125.2	122.2	118.9	115.7	112.4	-	-	-				
RP-P30WP	RPM	50	1,038	1,016	993	973	950	929	907	-	885	863	7	885	132.1	44
		60	1.051	1.029	1.005	985	963	941	918	-	896	874		896		
	PD		155	151.7	148.2	145.2	141.9	138.7	135.4	-	132.1	128.8				
RP-P40WP	RPM	50	1,038	1,016	993	973	950	929	907	-	-	-	3	973	145.2	44
		60	1.051	1.029	1.005	985	963	941	918	-	-	-		985		
	PD		155	151.7	148.2	145.2	141.9	138.7	135.4	-	-	-				

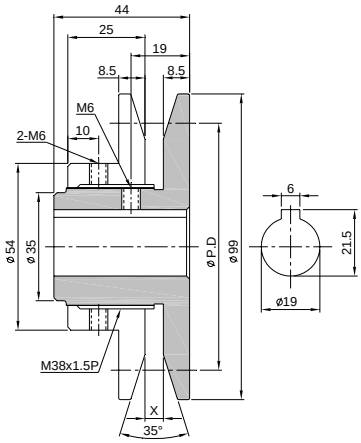
X ：Regulation Space of Motor Pulley (mm)
RPM ：Fan Speed (rpm) (50Hz/60Hz)
PD ：Pitch Diameter (mm)
* ：Fan Speed Change Per One Turn of Movable Motor Pulley Flange (rpm/turn)

Fan Speed Adjustment (Continued)

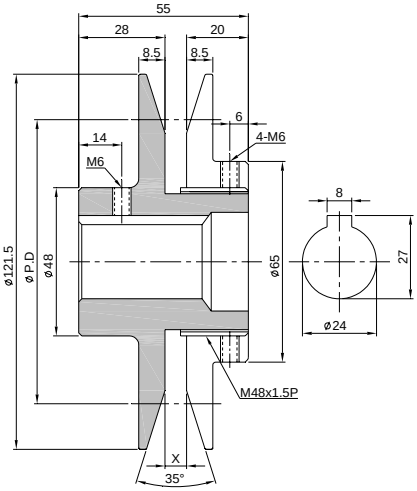
Motor Pulley



RP-P5WP

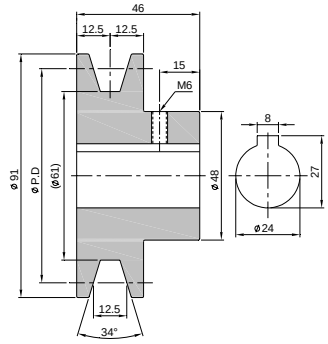


RP-P8WP

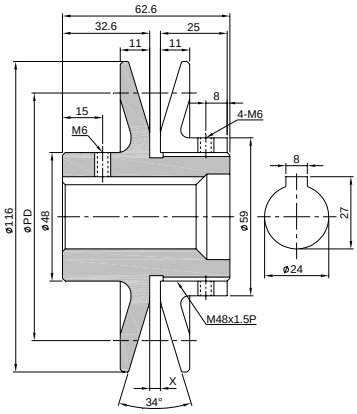


RP-P10WP

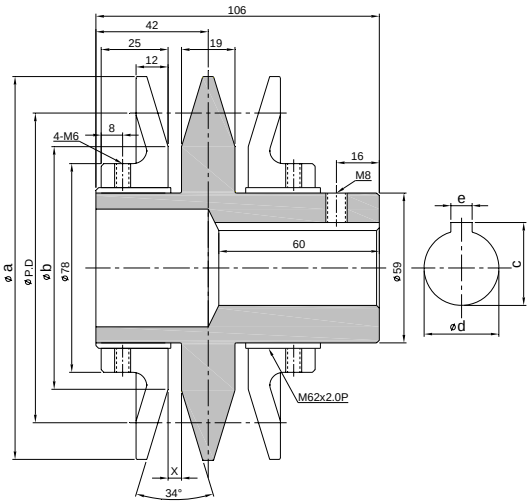
Models	a	b	c	d	e
RP-P20WP	143	91	31	28	8
RP-P25WP	143	91	31	28	8
RP-P30WP	166	114	41	38	10
RP-P40WP	166	114	41	38	10



RP-P15W

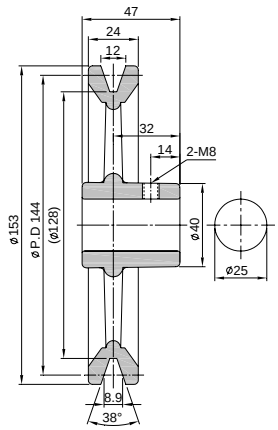


RP-P15WP

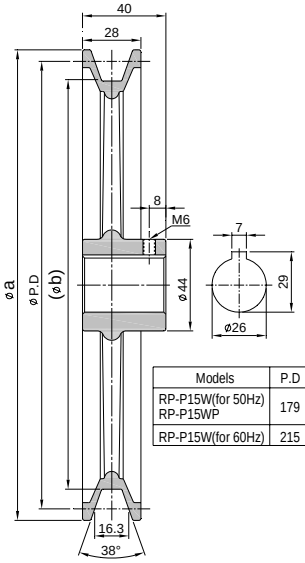


RP-P20WP through RP-P40WP

Fan Pulley

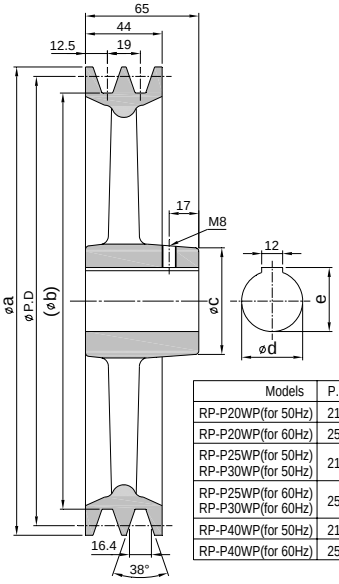


RP-P5WP, RP-P8WP and RP-P10WP



Models	P.D	a	b
RP-P15W(for 50Hz) RP-P15WP	179	190	160
RP-P15W(for 60Hz)	215	226	196

RP-P15W and RP-P15WP



Models	P.D	a	b	c	d	e
RP-P20WP(for 50Hz)	215	226	196	61	35	38.5
RP-P20WP(for 60Hz)	258	269	239	61	35	38.5
RP-P25WP(for 50Hz) RP-P30WP(for 50Hz)	215	226	196	61	40	43.5
RP-P25WP(for 60Hz) RP-P30WP(for 60Hz)	258	269	239	61	40	43.5
RP-P40WP(for 50Hz)	215	226	196	75	45	48.5
RP-P40WP(for 60Hz)	258	269	239	75	45	48.5

RP-P20WP through RP-P40WP

Electrical Data

Quantity × Value

Model	Unit Main Power		Applicable Voltage		Compressor Motor (Three-Phase)			Evaporator Fan Motor		Maximum Current
	VOL	Hz	Maximum	Minimum	STC	RNC	IPT	RNC	IPT	RNC
RP-P5W	220	60	242	198	117	13.7	4.15	1.47	0.33	24
	220	50	242	198	117	12.1	3.62	1.33	0.29	21
	380/415	50	456	342	62.5	7.0/7.2	3.62	1.33/1.43	0.29/0.33	13
RP-P5WP	220	60	242	198	117	13.7	4.15	1.50	0.42	24
	220	50	242	198	117	12.1	3.62	1.45	0.36	22
	380/415	50	456	342	62.5	7.0/7.2	3.62	0.84/0.77	0.36	13
RP-P8W	220	60	242	198	242	19.9	6.65	1.61	0.46	34
	220	50	242	198	224	17.6	5.8	1.29	0.43	30
	380/415	50	456	342	80	10.2/10.5	5.8	0.80/0.70	0.40/0.44	18/18
RP-P8WP	220	60	242	198	242	19.9	6.65	1.58	0.47	34
	220	50	242	198	224	17.6	5.8	1.31	0.40	30
	380/415	50	456	342	80	10.2/10.5	5.8	0.76/0.77	0.40	18
RP-P10W	220	60	242	198	205	23.4	8.22	2.62	0.70	42
	220	50	242	198	224	20.7	7.0	2.23	0.65	37
	380/415	50	456	342	101/102	12.0/12.6	7.0	1.20/1.23	0.65	21/22
RP-P10WP	220	60	242	198	205	23.4	8.22	3.30	0.78	43
	220	50	242	198	224	20.7	7.0	2.80	0.70	38
	380/415	50	456	342	101/102	12.0/12.6	7.0	1.54/1.56	0.70	22/23
RP-P15W	220	60	242	198	205	24.3+14.5	8.9+5.0	4.76	1.43	70
	220	50	242	198	224	21.5+12.8	7.4+4.2	4.21	1.19	62
	380/415	50	456	342	101/102	12.4+7.4/12.9+8.2	7.4+4.2	2.43/2.67	1.19	36/38
RP-P15WP	220	60	242	198	205	24.3+14.5	8.9+5.0	4.99	1.50	70
	220	50	242	198	224	21.5+12.8	7.4+4.2	4.42	1.25	62
	380/415	50	456	342	101/102	12.4+7.4/12.9+8.2	7.4+4.2	2.55/2.80	1.25	36/38
RP-P20WP	220	60	242	198	205	24.7x2	8.5x2	8.87	2.61	93
	220	50	242	198	224	21.8x2	7.5x2	7.85	2.29	82
	380/415	50	456	342	101/102	12.6x2/13.0x2	7.5x2	4.53/4.64	2.29	48/49
RP-P25WP	220	60	242	198	240	31.5x2	10.6x2	11.20	3.80	119
	220	50	242	198	270	27.9x2	9.4x2	9.94	3.35	105
	380/415	50	456	342	122	16.1x2/17.1x2	9.4x2	5.74/5.69	3.35	61/64
RP-P30WP	220	60	242	198	205	24.7x3	8.5x3	16.70	5.50	145
	220	50	242	198	224	21.8x3	7.5x3	14.80	4.89	128
	380/415	50	456	342	101/102	12.6x3/13.1x3	7.5x3	8.55/8.38	4.89	74/76
RP-P40WP	220	60	242	198	240	29.0x3	10.1x3	22.7	8.12	175
	220	50	242	198	270	25.6x3	8.5x3	20.1	6.77	155
	380/415	50	456	342	122	14.8x3/16.2x3	8.5x3	11.6/11.4	6.77	90/96

VOL : Unit Power Supply Rated (Plated) Voltage (V)
Hz : Frequency (Hz)
STC : Starting Current (A)
RNC : Running Current (A)
IPT: Input (kW)

NOTES :
1. These data are based on the same conditions as the nominal cooling capacity. Refer to the notes for the Unit General Data.
2. The starting current is indicated for each compressor motor.
3. Maximum Current: Total Running Current under the following conditions.
   a) Supplied Voltage: 90% of Rated Voltage
   b) Maximum Temperature and Maximum Air Flow with Working Range
4. The compressor motor data for models RP-P15W and RP-P15WP are indicated as follows:
   STC: For No.1 Compressor (10HP)
   RNC,IPT: No.1 Compressor (10HP)+No.2 Compressor (6HP)

Sound Data

Model	Unit Power (Hz)	Sound Level	Frequency Band (Hz)								
			45 ∫ 90	90 ∫ 180	180 ∫ 355	355 ∫ 710	710 ∫ 1400	1400 ∫ 2800	2800 ∫ 5600	5600 ∫ 11200	Over-all
RP-P5W **RP-P5WP**	50/60	SPL-A	34.4	40.1	43.8	45.5	48.2	45.4	40.3	36.2	53
		SPL-C	59.7	56.0	52.4	48.7	48.2	44.0	38.5	34.3	62
		PWL	67.7	64.0	60.4	56.7	56.2	52.0	46.5	42.3	70
RP-P8W **RP-P8WP**	50/60	SPL-A	32.3	39.5	44.8	48.0	49.8	46.8	40.2	39.8	54
		SPL-C	57.6	55.4	53.4	51.2	49.8	45.4	38.4	37.9	62
		PWL	65.6	63.4	61.4	59.2	57.8	53.4	46.4	45.9	70
RP-P10W **RP-P10WP**	50/60	SPL-A	34.0	43.7	46.6	49.5	50.0	48.5	43.7	42.4	56
		SPL-C	59.3	59.6	55.2	52.7	50.0	47.1	41.9	40.5	64
		PWL	67.3	67.6	63.2	60.7	58.0	55.1	49.9	48.5	72
RP-P15W **RP-P15WP**	50/60	SPL-A	47.8	50.8	52.1	58.0	58.9	54.7	49.9	43.4	63
		SPL-C	73.1	66.7	60.7	61.2	58.9	53.3	48.1	41.5	75
		PWL	81.1	74.7	68.7	69.2	66.9	61.3	56.1	49.5	83
RP-P20WP	50/60	SPL-A	46.0	51.7	53.5	58.8	58.0	56.2	53.9	45.8	64
		SPL-C	71.3	67.6	62.1	62.0	58.0	54.8	52.1	43.9	74
		PWL	79.3	75.6	70.1	70.0	66.0	62.8	60.1	51.9	82
RP-P25WP	50/60	SPL-A	44.0	49.2	50.2	55.0	56.3	54.5	52.1	42.2	62
		SPL-C	69.3	65.1	58.8	58.2	56.3	53.1	50.3	40.3	71
		PWL	77.3	73.1	66.8	66.2	64.3	61.1	58.3	48.3	79
RP-P30WP	50/60	SPL-A	43.8	52.3	53.7	56.4	60.3	58.5	56.3	47.5	65
		SPL-C	69.1	68.2	62.3	59.6	60.3	57.1	54.5	45.6	73
		PWL	77.1	76.2	70.3	67.6	68.3	65.1	62.5	53.6	81
RP-P40WP	50/60	SPL-A	50.1	58.6	60.0	62.7	66.6	64.8	62.6	53.8	71
		SPL-C	75.4	74.5	68.6	65.9	66.6	63.4	60.8	51.9	79
		PWL	83.4	82.5	76.6	73.9	74.6	71.4	68.8	59.9	87

SPL-A : A Scale Sound Pressure Level (dB)
SPL-C : C Scale Sound Pressure Level (dB)
PWL : Sound Power Level (dB)

Notes :
1. The measuring point is 1.0 meter from the center of the machine surface and 1.0 meter from the floor level.
2. The Unit are operating under the standard working conditions.
3. The above data was measured in an anechoic chamber so that reflected sound should be taken into consideration.

Working Range

Power Supply
The applicable voltage range for each unit is given in the Electrical Data. The working voltage among the three phases must be balanced within a 3% deviation from each voltage at the compressor terminals. The starting voltage must be higher than 85% of the rated voltage.

Condenser Water
The maximum condenser water flow rate for each unit is given in the Condenser Water Requirements.
The maximum condenser water outlet temperature should be lower than 38℃, when scale deposit on the condenser tubes is considered.

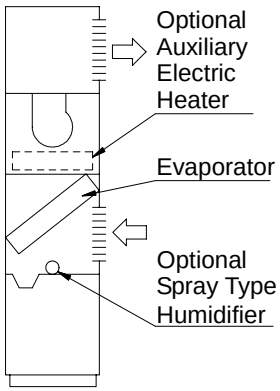
Note :
The lowest condenser water outlet temperature should be higher than 21℃. When operating in the winter season, the water temperature control devices, such as the condenser water regulating valve or thermostatic bypass valve for the cooling tower, should be installed to maintain this lowest limit, if necessary.

Maximum -Dry/Wet- (℃)	Minimum -Dry/Wet- (℃)
32 / 23	21 / 15

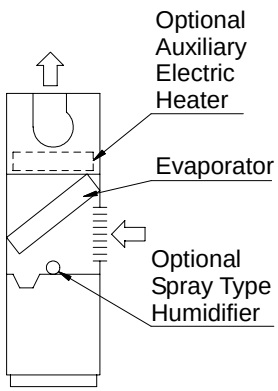
Optional Accessory Availability

Model	Optional Accessories*					
	Electric** Heater	Hot Water Heater	Steam Heater	Humidifier	AUTO-SWEEP** Mechanism	Long Life Air-filter
RP-P5W	YES	YES	YES	YES	YES	YES
RP-P5WP	YES	YES	YES	YES	NO	YES
RP-P8W RP-P8WP	YES	YES	YES	YES	YES	YES
					NO	
RP-P10W RP-P10WP	YES	YES	YES	YES	YES	YES
					NO	
RP-P15W RP-P15WP	YES	YES	YES	YES	NO	YES
RP-P20WP	YES	YES	YES	YES	NO	YES
RP-P25WP	YES	YES	YES	YES	NO	YES
RP-P30WP	YES	YES	YES	YES	NO	YES
RP-P40WP	NO	YES	YES	YES	NO	YES

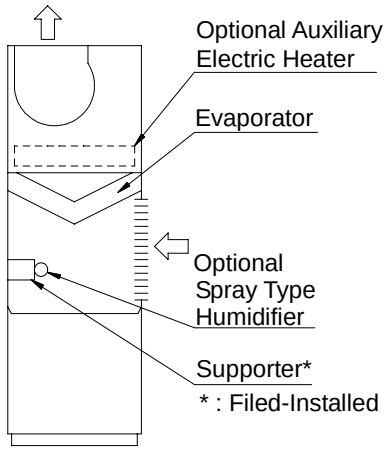
* : Detailed information is available upon request with the Expanded Data
** : Factory-Equipped Option



For models: RP-P5W,
RP-P8W and
RP-P10W



For models: RP-P5WP,
RP-P8WP and
RP-P10WP



For models: RP-P15W, RP-P15WP,
RP-P20WP, RP-P25WP,
RP-P30WP and RP-P40WP

Component Detailed Data

Compressor

Compressor Model			G503DH	G603DH	G750EL	G1000EL	G1300EL
Compressor Type			Hermetic Scroll				
Revolution	50Hz	rpm	2,880	2,880	2,880	2,880	2,880
	60Hz	rpm	3,470	3,470	3,470	3,470	3,470
Piston Displacement	50Hz	m^3/h	13.82	15.55	22.12	27.65	33.70
	60Hz	m^3/h	16.66	18.74	26.54	33.18	40.44
Airtight Pressure	Discharge	kg/cm^2G	33.6	33.6	33.6	33.6	33.6
		MPa	3.3	3.3	3.3	3.3	3.3
	Suction	kg/cm^2G	16.3	16.3	16.3	16.3	16.3
		MPa	1.6	1.6	1.6	1.6	1.6
Motor Type			Special Squirrel-Cage Three-Phase Motor				
Starting Method			Direct-On-Line Starting				
Poles			2	2	2	2	2
Insulation Class			E	E	E	E	E
Oil Type			Equivalent Oil: FVC68D				
Charge		Liters	1.0	1.0	3.5	3.5	3.5

Evaporator and Fan Section

Model		RP-P5W	RP-P5WP	RP-P8W	RP-P8WP	RP-P10W	RP-P10WP	RP-P15W	RP-P15WP	RP-P20WP	RP-P25WP	RP-P30WP	RP-P40WP
Evaporator		Multi-Pass Cross-Finned Tube											
Tube Material		Copper Tube											
Outer Diameter	mm	9.53	9.53	9.53	9.53	9.53	9.53	9.53	9.53	9.53	9.53	9.53	9.53
Rows		3	3	3	3	3	3	4	4	4	4	4	4
Number of Tubes/ Evaporator		72	72	72	72	72	72	120	120	120	144	144	192
Fin Material		Aluminum											
Pitch	mm	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2
Number of Evaporators/Unit		1	1	1	1	1	1	1	1	1	1	1	1
Total Face Area	m^2	0.393	0.393	0.573	0.573	0.753	0.753	0.90	0.90	1.13	1.35	1.62	2.16
Maximum Applicable Pressure	kg/cm^2G	16.3	16.3	16.3	16.3	16.3	16.3	16.3	16.3	16.3	16.3	16.3	16.3
	MPa	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6
Evaporator Fan		Multi-Blade Centrifugal Fan (Double Suction)											
Number/Unit		1	1	2	2	2	2	1	1	2	2	2	2
Outer Diameter	mm	264	264	264	264	264	264	385	385	385	385	385	385
Total Nominal Air	m^3/min	44/38*	44	66	66	88	88	130	130	180	220	260	360
Flow	m^3/s	0.73/0.63*	0.73	1.10	1.10	1.47	1.47	2.17	2.17	3.0	3.67	4.33	6.0
Evaporator Fan Motor		Drip-Proof Type Enclosure											
Starting Method		Capacitor Starting	Direct-On-Line Starting										
Nominal Output	kW	0.13	0.55	0.25	0.75	0.30	1.5	1.5	2.2	3.7	3.7	5.5	7.5
Poles		6	4	6	4	6	4	4	4	4	4	4	4
Phases		1	3	3	3	3	3	3	3	3	3	3	3
Insulation Class		E	E	E	E	E	E	E	B	E	E	B	B
Number/Unit		1	1	1	1	1	1	1	1	1	1	1	1
Air Filter		Permanent Washable											
Material		Polyvinyl Chloride											

***:** Hi/Lo

Condenser

Model		RP-P5W RP-P5WP	RP-P8W RP-P8WP	RP-P10W RP-P10WP	RP-P15W RP-P15WP	RP-P20WP	RP-P25WP	RP-P30WP	RP-P40WP
Condenser Type		Coiled Double Tube							Shell and Tube Type
Outer Tube		Steel							
Outer Diameter	mm	30	36	30	30	30	30	30	264
Length	mm	4,400	5,510	4,400	4,400+5,290	4,400	4,400	3,470	584
Quantity/Unit		2	2	4	4+2	4x2	5x2	5x3	75x3
Inner Type		Finned-Copper Tube							
Number of Tubes		1	1	1	1	1	1	1	1
Condenser Heat Transfer Area*	m^2	1.56	2.41	3.12	5.0	6.24	7.8	9.23	15.3
Number of Water Passes/Condenser		1	1	1	2	2	2	3	3
Maximum Permissible Pressure									
Refrigerant Side	kg/cm^2G	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0
	MPa	2.45	2.45	2.45	2.45	2.45	2.45	2.45	2.45
Water Side	kg/cm^2G	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
	kPa	981	981	981	981	981	981	981	981

***:** Total Refrigerant Side

Refrigerant Control

Refrigeration Cycle

Each refrigeration cycle is equipped with a compressor, water-cooled condenser(s), a liquid line strainer, and the following control and auxiliary components :

Flow Control Device - Capillary tube(s) are equipped for all models for refrigerant control.

Check Joint - A check joint for high pressure and a check joint for low pressure are mounted for all models.

Pressure Gauge - A high pressure gauge and a low pressure gauge are mounted for each refrigeration cycle of models RP-P25WP, RP-P30WP and RP-P40WP.

Electrical Operation Control

Standard Electrical Control Sequence

An operation switch manually selects ventilating and cooling operation. When the operation switch is set at "FAN" and all electrical protective devices are satisfied, the red pilot lamp is activated, and the built-in thermostat controls the compressor operation. The heating operation can be selected by the "HEAT" operation switch, when an electric heater is provided in the field. The control circuit is wired for the manual reset system: when one of the protective devices is tripped, resetting of the operation switch is required.

Operational Sequence Chart for Models RP-P5W through RP-P10WP

◯:ON ⊗:OFF

Operational Equipment	Main Power Switch Pilot Lamp (Green)	⊗	◯			
	CONTROL Switch	⊗	⊗	FAN	COOL*	
	THERMOSTAT	◯	◯	◯	◯	⊗
Electrical Component	Pilot Lamp (Red)	⊗	⊗	◯	◯	◯
	Fan Motor	⊗	⊗	◯	◯	◯
	Compressor	⊗	⊗	⊗	◯	⊗
	Crankcase heater	⊗	◯	◯	⊗	◯

* SELECTION Switch: COOL

Electrical Operation Control (Continued)

Operational Sequence Chart for Models RP-P15W through RP-P25WP

○:ON ⊗:OFF

Operational Equipment	Main Power Switch Pilot Lamp (Green)		⊗	○					
	CONTROL Switch		⊗		FAN	COOL*			
	THERMOSTAT	1st Stage (Higher)	—	—	○	○	○	○	⊗
		2nd Stage (Lower)	—	—	○	○	○	⊗	⊗
Electrical Component	Fan Motor		⊗	⊗	○	○	○	○	○
	Compressor 1		⊗	⊗	⊗	○	○	○	⊗
	Compressor 2		⊗	⊗	⊗	⊗	○	⊗	⊗
	Pilot Lamp (Red)		⊗	⊗	○	○	○	○	○
	Crankcase heater1		⊗	○	○	⊗	⊗	⊗	○
	Crankcase heater2		⊗	○	○	○	⊗	○	○

* SELECTION Switch: COOL

Operational Sequence Chart for Model RP-P30WP and RP-P40WP

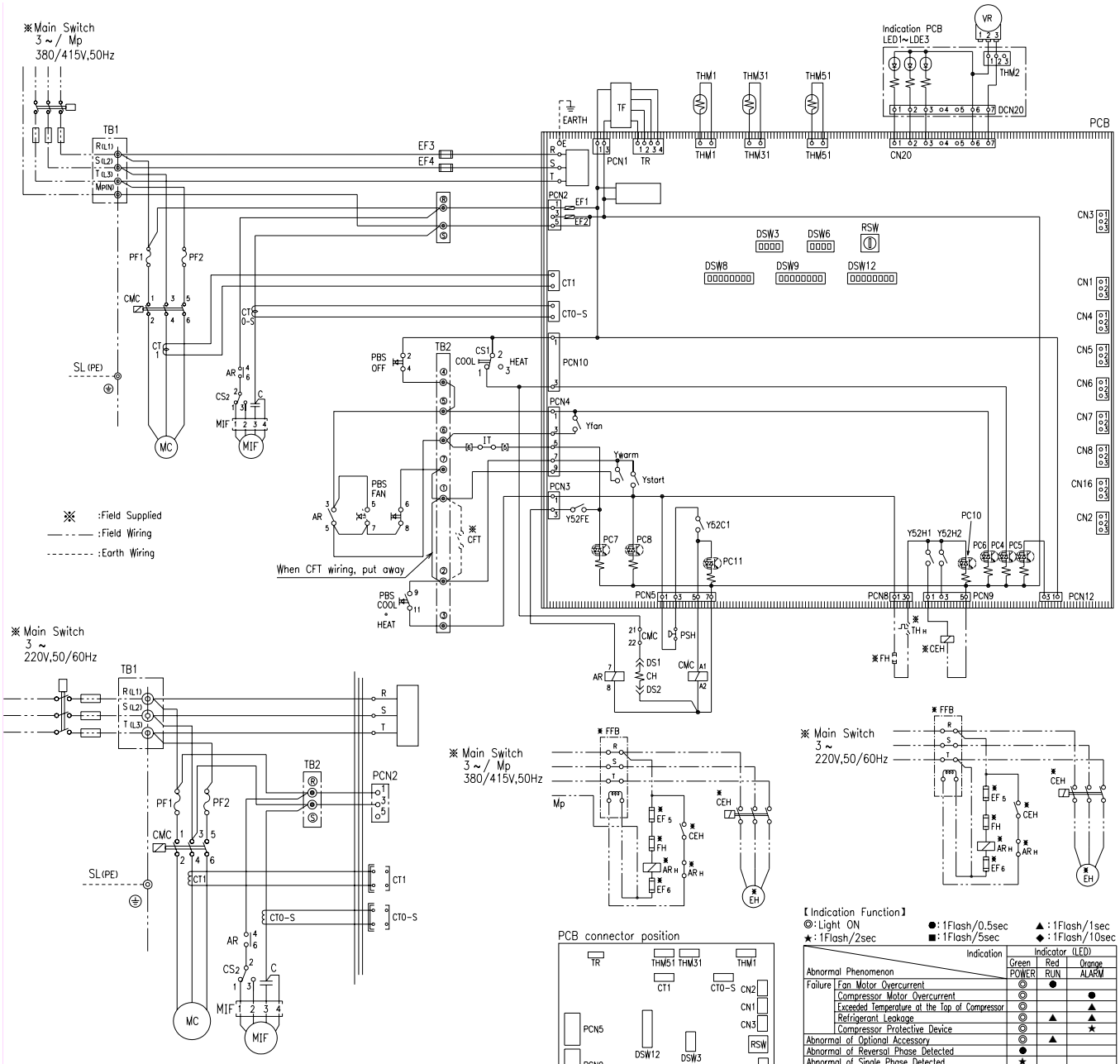
○:ON ⊗:OFF

Operational Equipment	Main Power Switch Pilot Lamp (Green)		⊗	○						
	CONTROL Switch		⊗		FAN	COOL*				
	THERMOSTAT	1st Stage (Higher)	—	—	○	○	○	○	○	⊗
		2nd Stage (Medium)	—	—	○	○	○	○	⊗	⊗
		3rd Stage (Lower)	—	—	○	○	○	○	⊗	⊗
Electrical Component	Pilot Lamp (Red)		⊗	⊗	○	○	○	○	○	○
	Fan Motor		⊗	⊗	○	○	○	○	○	○
	Compressor 1		⊗	⊗	⊗	○	○	○	○	⊗
	Compressor 2		⊗	⊗	⊗	⊗	○	○	⊗	⊗
	Compressor 3		⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗
	Crankcase heater 1		⊗	○	○	⊗	⊗	⊗	⊗	○
	Crankcase heater 2		⊗	○	○	○	⊗	⊗	○	○
	Crankcase heater 3		⊗	○	○	○	○	⊗	○	○

* SELECTION Switch: COOL

Typical Wiring

For Model : RP-P5W



Mark	Name	Mark	Name
AR	Auxiliary	PCB	Printed Circuit Board
C	Capacitor	PF 1,2	Power Fuse for Compressor
CH	Crankcase Heater	PSH	Pressure Switch (High)
CMC	Contactor for Compressor Motor	RSW	Switch (Rotary Switch Setting)
CT1,0-S	Current Transformer	TB 1,2	Terminal
CS 1,2	Changeover Switch	TF	Transformer
DS 1,2	Connector	THM1	Thermistor (Air Intake)
DSW3	Switch (Unit Model Code Setting)	THM31	Thermistor (Freeze)
DSW6	Switch (Fan Motor Capacity Code Setting)	THM51	Thermistor (Top of Comp.)
DSW8	Switch (optional Function Setting)	VR	Variable Resistor (for Temp. set)
DSW9	Switch (optional Function Setting)	※AR H	Auxiliary Relay
DSW12	Switch (optional Function Setting)	※CEH	Contactor for Electric Heater
EF 1,2	Fuse	※CFT	Contactor for Cooling Tower
EF 3,4	Fuse for Reversal protective Relay	※EF 5,6	Fuse
IT	Internal Thermostat	※EH	Electric Heater
LED 1~3	Pilot Lamp	※FFB	Fuse-free Breaker with Voltage Release Coil
MC	Motor for Compressor	※FH	Fuse for Electric Heater
MIF	Motor for indoor Fan	※TH H	Overheat Protection Thermostat
PBS	Push Bottom Switch		

Abnormal Phenomenon	Indication	Indicator (LED) Green POWER	Red RUN	Orange ALARM
Failure	Fan Motor Overcurrent	◎	●	
	Compressor Motor Overcurrent	◎		●
	Exceeded Temperature at the Top of Compressor	◎		▲
	Refrigerant Leakage	◎	▲	▲
	Compressor Protective Device	◎		★
Abnormal of Optional Accessory		◎	▲	
Abnormal of Reversal Phase Detected		●		
Abnormal of Single Phase Detected		★		
Sensor Failure	Intake Air Temp Thermistor	◎	◎	■
	Freeze Protection Thermistor Temperature at the Top of Compressor	◎	◎	■
Fan Motor Running current decrease Detected		◎	▲	▲
20,000hrs Compressor operation Check		◎	◎	◆
Compressor's Protector Detected that Abnormal ALARM activated 3 times within 6 hours.		◎	●	●

Notes :

1.The ——- - -——portion of the drawing is for local installation part.
2.The ※ portion of parts is optional parts which are field Supplied. (Not standard units parts)
3. ▥ Portion is for printed circuit Board.
4.ⓇⓈⓉ① ~ ⑦ is for Terminal Base.
5. ◉ is Electric box terminal. ▭ is printed circuit's connector.
6.When adopted Electric Heater, the Electric heater protector (FH) (THH) need to be connected with PCB connector PCN8 and magnetic connector (CEH) need to be connected with PCN9.
7.When use cooling tower.please change following wiring.
(1).Cooling Tower fan must be interlocked with magnetic to make sure pump operation.
(2).Cooling tower's fan magnetic contractor (※CFT) need to be interlock with compressor from ① to ② on TB2.
(3).One cooling tower to match with 2 airconditioners also need above wiring arrangement. (see Fig.1)

Notice of modification

1.Chattering phenomenon shall be avoided while use room thermostate, the operation differential Temp. shall be at 1.5℃.
2.Automatic restart circulation shall be avoid when installation.

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Typical Wiring (Continued)

For Models：RP-P5WP, RP-P8WP and RP-P10WP

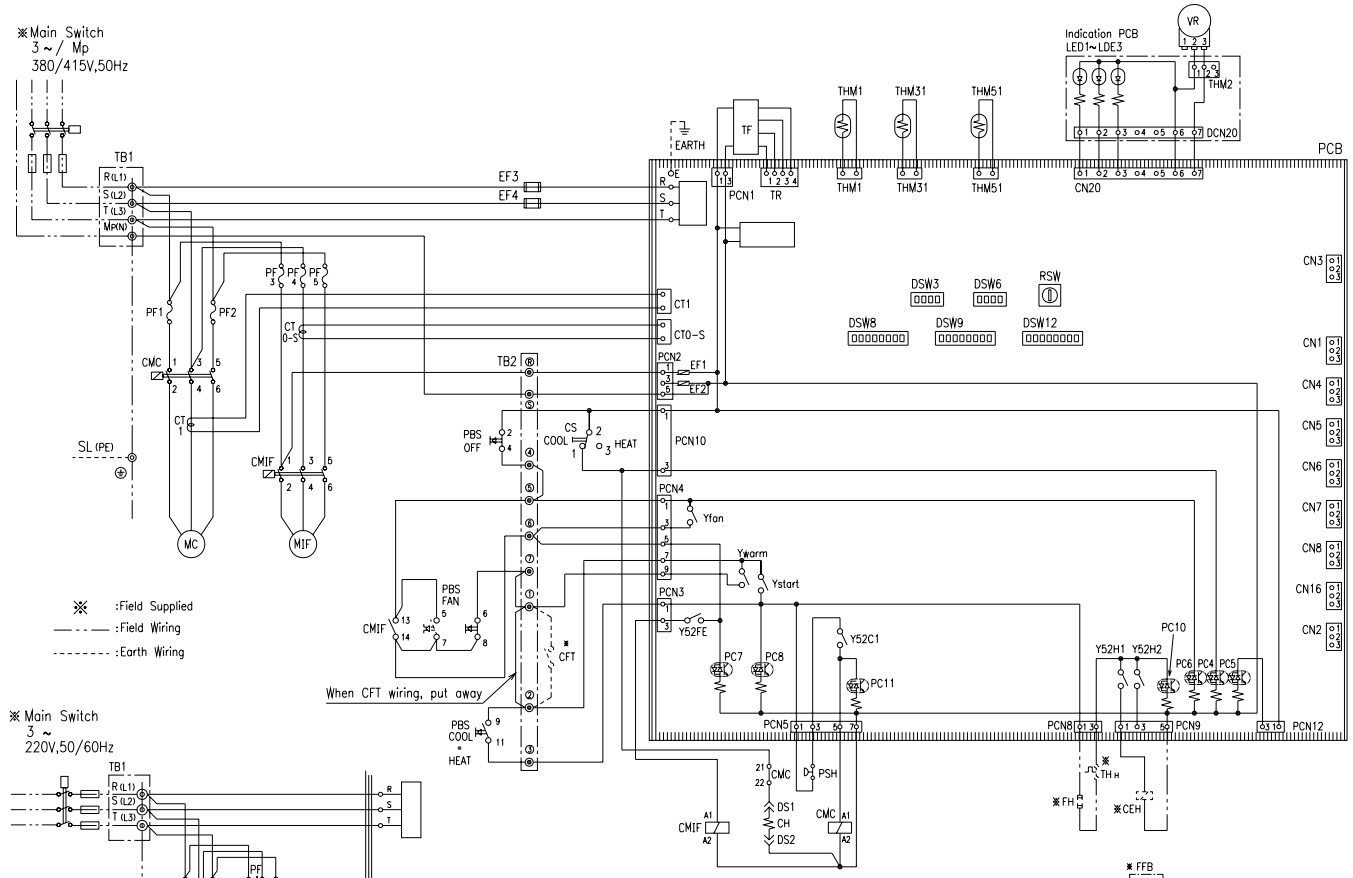


Fig.1

PCB connector position

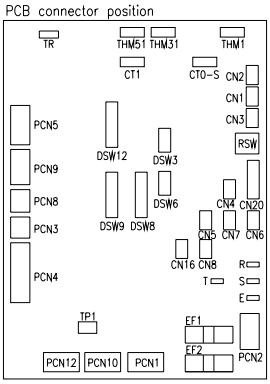


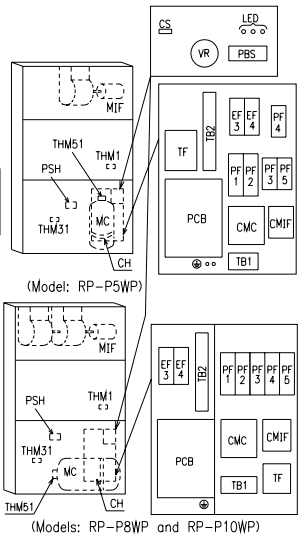
Table 1. DSW set (Factory set)

DSW3		
RP-P5WP	RP-P8WP	RP-P10WP
ON OFF 1 2 3 4	ON OFF 1 2 3 4	ON OFF 1 2 3 4

DSW6		
RP-P5WP	RP-P8WP	RP-P10WP
ON OFF 1 2 3 4	ON OFF 1 2 3 4	ON OFF 1 2 3 4

DSW8	DSW9	DSW12
ON OFF 1 2 3 4 5 6 7 8	ON OFF 1 2 3 4 5 6 7 8	ON OFF 1 2 3 4 5 6 7 8

(■ :Position of switch)



Arrangement of Electric Parts in Unit

Mark	Name	Mark	Name
CMC	Contactor for Compressor Motor	PF 1,2	Power Fuse for Compressor
CH	Crankcase Heater	PF 3~5	Power Fuse for indoor Fan Motor
CMIF	Contactor for indoor Fan Motor	PSH	Pressure Switch (High)
CT 1,0-S	Current Transformer	RSW	Switch (Rotary Switch Setting)
CS	Changeover Switch	TB 1,2	Terminal
DS 1,2	Connector	TF	Transformer
DSW3	Switch (Unit Model Code Setting)	THM1	Thermistor (Air Intake)
DSW6	Switch (Fan Motor Capacity Code Setting)	THM31	Thermistor (Freeze)
DSW8	Switch (optional Function Setting)	THM51	Thermistor (Top of Comp.)
DSW9	Switch (optional Function Setting)	VR	Variable Resistor (for Temp. set)
DSW12	Switch (optional Function Setting)	※ARH	Auxiliary Relay
EF 1,2	Fuse	※CEH	Contactor for Electric Heater
EF 3,4	Fuse for Reversal protective Relay	※CFT	Contactor for Cooling Tower
LED 1~3	Pilot Lamp	※EF5,6	Fuse
MC	Motor for Compressor	※EH	Electric Heater
MIF	Motor for indoor Fan	※FFB	Fuse-Free Breaker with Voltage Release Coil
PBS	Push Bottom Switch	※FH	Fuse for Electric Heater
PCB	Printed Circuit Board	※THH	Overheat Protection Thermostat

【Indication Function】

◎:Light ON ●:1Flash/0.5sec ▲:1Flash/1sec
★:1Flash/2sec ■:1Flash/5sec ◆:1Flash/10sec

Abnormal Phenomenon \ Indication		Indicator (LED) Green POWER	Red RUN	Orange ALARM
Failure	Fan Motor Overcurrent	◎	●	
	Compressor Motor Overcurrent	◎		●
	Exceeded Temperature at the Top of Compressor	◎		▲
	Refrigerant Leakage	◎	▲	▲
	Compressor Protective Device	◎		★
Abnormal of Optional Accessory		◎	▲	
Abnormal of Reversal Phase Detected		●		
Abnormal of Single Phase Detected		★		
Sensor Failure	Intake Air Temp Thermistor	◎	◎	■
	Freeze Protection Thermistor Temperature at the Top of Compressor	◎	◎	■
Fan Motor Running current decrease Detected		◎	▲	▲
20,000hrs Compressor operation Check		◎	◎	◆
Compressor's Protector Detected that Abnormal ALARM activated 3 times within 6 hours.		◎	●	●

Notes :

1.The ——- - -——portion of the drawing is for local installation part.
2.The ※ portion of parts is optional parts which are field Supplied. (Not standard units parts)
3. ▥▥▥ Portion is for printed circuit Board.
4.ⓇⓈⓉ① ~ ⑦ is for Terminal Base.
5. ◉ is Electric box terminal. ▭ is printed circuit's connector.
6.When adopted Electric Heater, the Electric heater protector (FH) (THH) need to be connected with PCB connector PCN8 and magnetic connector (CEH) need to be connected with PCN9.
7.When use cooling tower, please change following wiring.
(1).Cooling Tower fan must be interlocked with magnetic to make sure pump operation.
(2).Cooling tower's fan magnetic contractor (※CFT) need to be interlock with compressor from ① to ② on TB2.
(3).One cooling tower to match with 2 airconditioners also need above wiring arrangement. (see Fig.1)

Notice of modification

1.Chattering phenomenon shall be avoided while use room thermostate, the operation differential Temp. shall be at 1.5℃.
2.Automatic restart circulation shall be avoid when installation.

Typical Wiring (Continued)

For Models：RP-P8W and RP-P10W

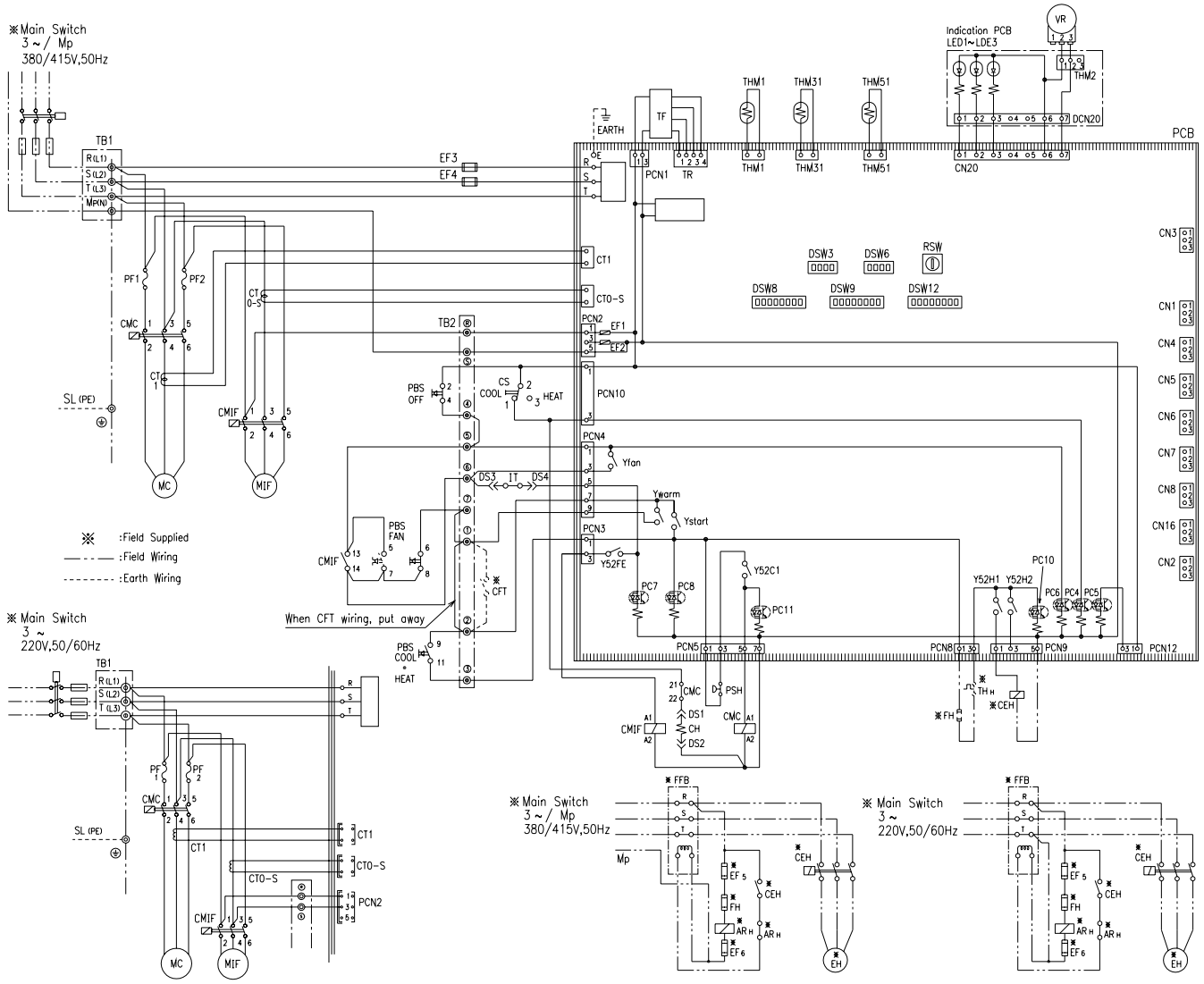
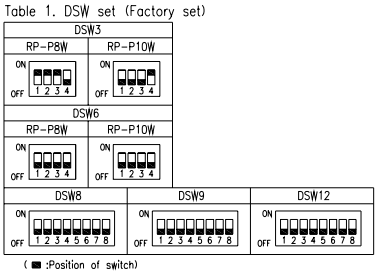
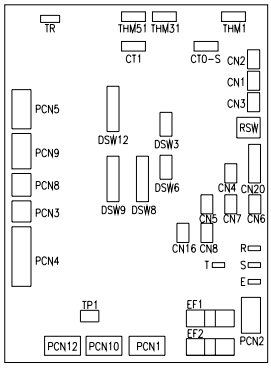


Table 1. DSW set (Factory set)



PCB connector position



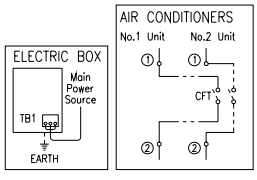


Fig.1

【Indication Function】
◎:Light ON ●:1Flash/0.5sec ▲:1Flash/1sec
★:1Flash/2sec ■:1Flash/5sec ◆:1Flash/10sec

Abnormal Phenomenon \ Indication		Indicator (LED) Green POWER	Red RUN	Orange ALARM
Failure	Fan Motor Overcurrent	◎	●	
	Compressor Motor Overcurrent	◎		●
	Exceeded Temperature at the Top of Compressor	◎		▲
	Refrigerant Leakage	◎	▲	▲
	Compressor Protective Device	◎		★
Abnormal of Optional Accessory		◎	▲	
Abnormal of Reversal Phase Detected		●		
Abnormal of Single Phase Detected		★		
Sensor Failure	Intake Air Temp Thermistor	◎	◎	■
	Freeze Protection Thermistor Temperature at the Top of Compressor	◎	◎	■
Fan Motor Running current decrease Detected		◎	▲	▲
20,000hrs Compressor operation Check		◎	◎	◆
Compressor's Protector Detected that Abnormal ALARM activated 3 times within 6 hours.		◎	●	●

Notes :

1.The - - - portion of the drawing is for local installation part.
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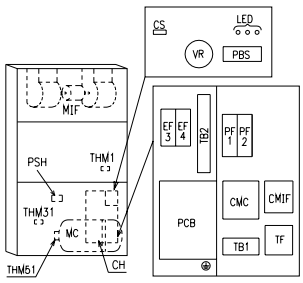
(3).One cooling tower to match with 2 airconditioners also need above wiring arrangement. (see Fig.1)

Notice of modification

1.Chattering phenomenon shall be avoided while use room thermostate, the operation differential Temp. shall be at 1.5℃.
2.Automatic restart circulation shall be avoid when installation.

Mark	Name	Mark	Name
CMC	Contactor for Compressor Motor	PCB	Printed Circuit Board
CH	Crankcase Heater	PF 1,2	Power Fuse for Compressor
CMIF	Contactor for indoor Fan Motor	PSH	Pressure Switch (High)
CT 1,0-S	Current Transformer	RSW	Switch (Rotary Switch Setting)
CS	Changeover Switch	TB 1,2	Terminal
DS 1~4	Connector	TF	Transformer
DSW3	Switch (Unit Model Code Setting)	THM1	Thermistor (Air Intake)
DSW6	Switch (Fan Motor Capacity Code Setting)	THM31	Thermistor (Freeze)
DSW8	Switch (optional Function Setting)	THM51	Thermistor (Top of Comp.)
DSW9	Switch (optional Function Setting)	VR	Variable Resistor (for Temp. set)
DSW12	Switch (optional Function Setting)	※AR H	Auxiliary Relay
EF 1,2	Fuse	※CEH	Contactor for Electric Heater
EF 3,4	Fuse for Reversal protective Relay	※CFT	Contactor for Cooling Tower
IT	Internal Thermostat	※EF 5,6	Fuse
LED 1~3	Pilot Lamp	※EH	Electric Heater
MC	Motor for Compressor	※FFB	Fuse-free Breaker with Voltage Release Coil
MIF	Motor for indoor Fan	※FH	Fuse for Electric Heater
PBS	Push Bottom Switch	※TH H	Overheat Protection Thermostat



Arrangement of Electric Parts in Unit

HITACHI

Typical Wiring (Continued)

For Models：RP-P15W, RP-P15WP and RP-P20WP

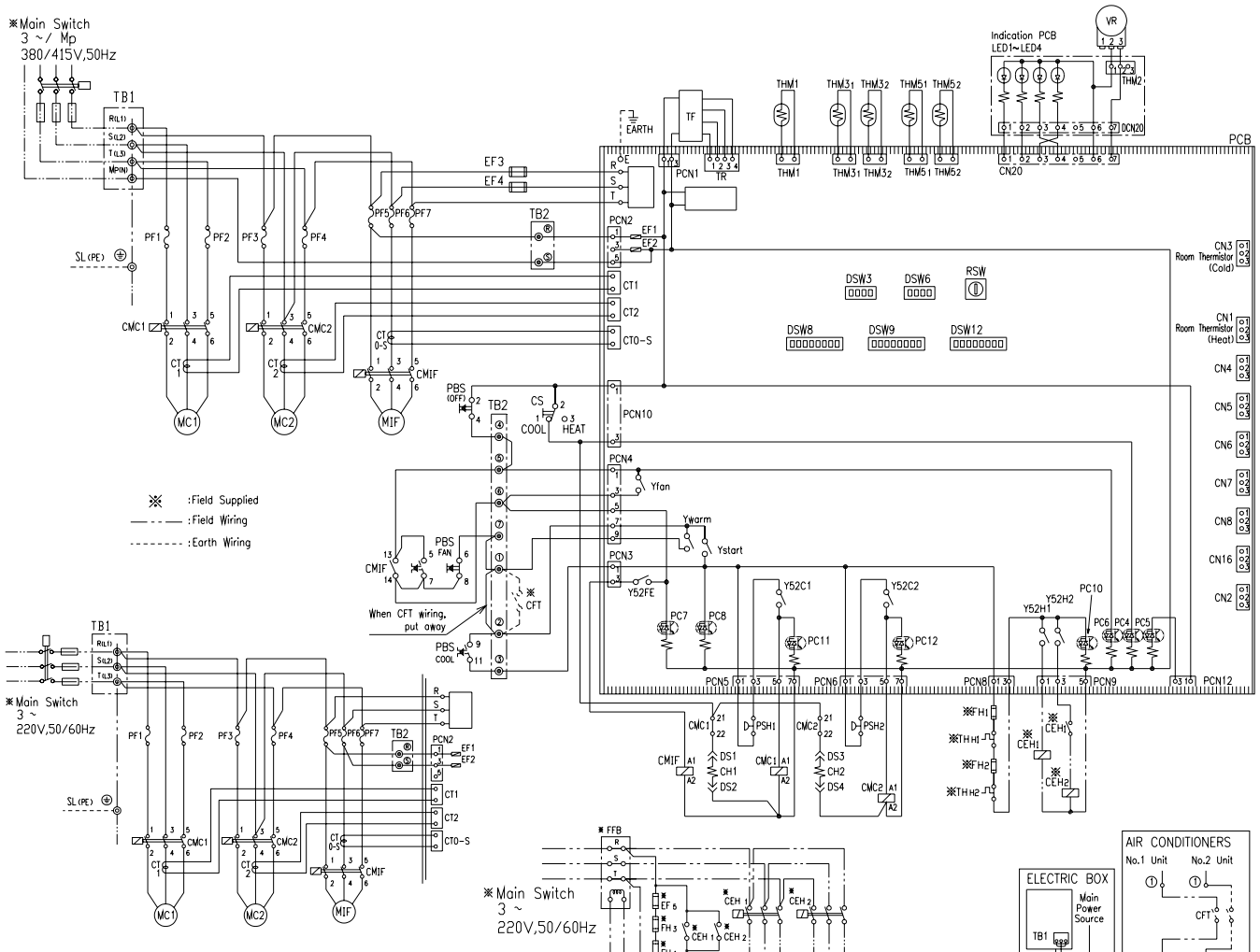
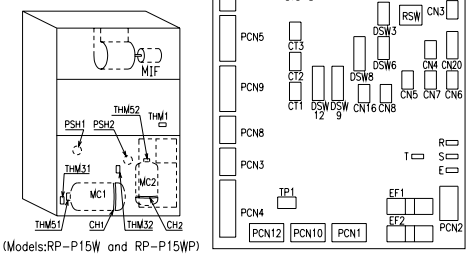


Fig.1



【Indication Function】
◎:Light ON ●:1Flash/0.5sec ▲:1Flash/1sec
★:1Flash/2sec ■:1Flash/5sec ◆:1Flash/10sec
•1:It is light OFF when all alarm is light ON.

Abnormal Phenomenon \ Indication		Indicator (LED) Green POWER	Red RUN	Orange(No.1) ALARM	Orange(No.2) ALARM
Failure	Fan Motor Overcurrent	◎	●		
	Compressor Motor Overcurrent	◎	◎ •1	● Only This One	● Only This One
	Exceeded Temperature at the Top of Compressor	◎	◎ •1	▲ Only This One	▲ Only This One
	Refrigerant Leakage	◎	▲	▲ Only This One	▲ Only This One
	Compressor Protective Device	◎	◎ •1	★ Only This One	★ Only This One
Abnormal of Optional Accessory		◎	▲		
Abnormal of Reversal Phase Detected		●			
Abnormal of Single Phase Detected		★			
Sensor Failure	Intake Air Temp Thermistor	◎	◎	■	■
	Freeze Protection Thermistor Temperature at the Top of Compressor	◎	◎	■ Only This One	■ Only This One
Fan Motor Running current decrease Detected		◎	▲	▲ Only This One	▲ Only This One
20,000hrs Compressor operation Check		◎	◎	◆ Only This One	◆ Only This One
Compressor's Protector Detected that Abnormal ALARM activated 3 times within 6 hours.		◎	●	● Only This One	● Only This One

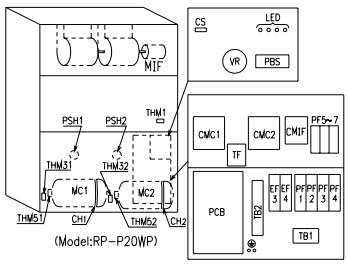
Table 1. DSW set (Factory set)

DSW3 (Cooling Capicity)		DSW6 (Fan Motor Output)		
RP-P15W(P)	RP-P20WP	RP-P15W	RP-P15WP	RP-P20WP
ON / OFF 1 2 3 4	ON / OFF 1 2 3 4	ON / OFF 1 2 3 4	ON / OFF 1 2 3 4	ON / OFF 1 2 3 4

DSW8 Optional Set 1	DSW9 Optional Set 2	DSW12 Optional Set 3
ON / OFF 1 2 3 4 5 6 7 8	ON / OFF 1 2 3 4 5 6 7 8	ON / OFF 1 2 3 4 5 6 7 8

(■:Position of Switch)

Mark	Name	Mark	Name
CMC1,2	Contactor for Compressor Motor	PF 1~4	Power Fuse for Compressor
CH1,2	Crankcase Heater	PF 5~7	Power Fuse for Fan Motor
CMIF	Contactor for indoor Fan Motor	PSH1,2	Pressure Switch (High)
CT1,2,0-S	Current Transformer	RSW	Switch (Rotary Switch Setting)
CS	Changeover Switch	TB1,2	Terminal
DS 1~4	Connector	TF	Transformer
DSW3	Switch (Unit Model Code Setting)	THM1	Thermistor (Air Intake)
DSW6	Switch (Fan Motor Capacity Code Setting)	THM3 1,2	Thermistor (Freeze)
DSW8	Switch (optional Function Setting)	THM5 1,2	Thermistor (Top of Comp.)
DSW9	Switch (optional Function Setting)	VR	Variable Resistor (for Temp. set)
DSW12	Switch (optional Function Setting)	※AR H	Auxiliary Relay
EF 1,2	Fuse for PCB	※CEH 1,2	Contactor for Electric Heater
EF 3,4	Fuse for Reversal Protective Relay	※CFT	Contactor for Cooling Tower
LED 1~4	Pilot Lamp	※EF 5,6	Fuse
MC 1,2	Motor for Compressor	※EH 1,2	Electric Heater
MIF	Motor for indoor Fan	※FFB	Fuse-Free Breaker with Voltage Release Coil
PBS	Push Bottom Switch	※FH 1~4	Fuse for Electric Heater
PCB	Printed Circuit Board	※TH H1,2	Overheat Protection Thermostat



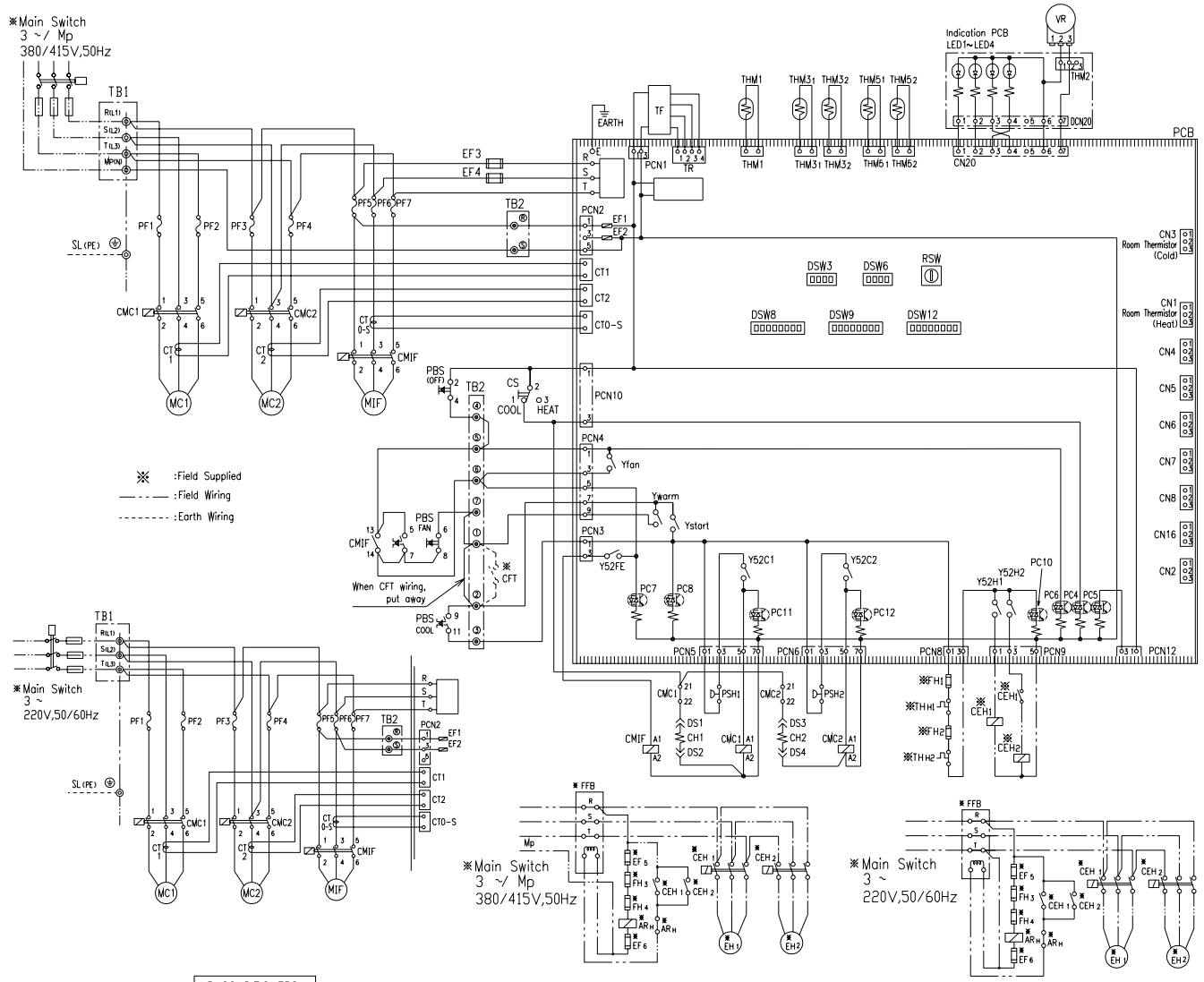
Arrangement of Electric Parts in Unit

Notes:
1.The — - - — portion of the drawing is for local installation part.
2.The ※ portion of parts is optional parts which are field Supplied. (Not standard units parts)
3.▥▥▥ Portion is for printed circuit Board.
4.Ⓡ Ⓢ Ⓣ ① ~ ⑦ is for Terminal Base.
5. ◉ is Electric box terminal. ▭ is printed circuit's connector.
6.When adopted Electric Heater, the Electric heater protector (FH1~4) (TH H1,2) need to be connected with PCB connector PCN8 and magnetic connector (CEH1,2) need to be connected with PCN9.
7.When use cooling tower, please change following wiring.
(1).Cooling Tower fan must be interlocked with magnetic to make sure pump operation.
(2).Cooling tower's fan magnetic contractor (※CFT) need to be interlock with compressor from ① to ② on TB2.
(3).One cooling tower to match with two airconditioners also need above wiring arrangement. (see Fig.1)

Notice of modification:
1.Chattering phenomenon shall be avoided while use room thermostate, the operation differential Temp. shall be at 1.5℃.
2.Automatic restart circulation shall be avoid when installation.

Typical Wiring (Continued)

For Model : RP-P25WP



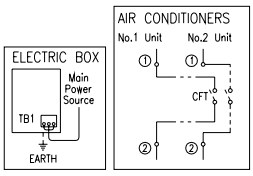
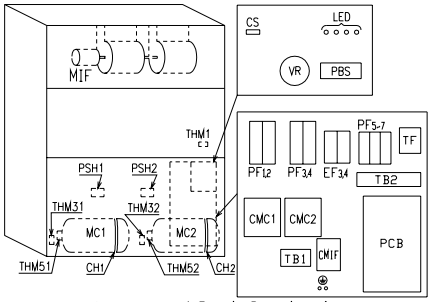


Fig.1



Arrangement of Electric Parts in Unit

Table 1. DSW set (Factory set)

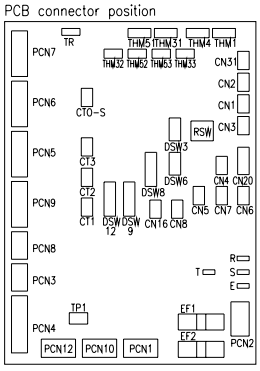
DSW3 (Cooling Capicity)	DSW6 (Fan Motor Output)
ON / OFF 1 2 3 4	ON / OFF 1 2 3 4

DSW8 Optional Set 1	DSW9 Optional Set 2	DSW12 Optional Set 3
ON / OFF 1 2 3 4 5 6 7 8	ON / OFF 1 2 3 4 5 6 7 8	ON / OFF 1 2 3 4 5 6 7 8

(■ : Position of Switch)

Mark	Name	Mark	Name
CMC 1,2	Contactor for Compressor Motor	PF 1~4	Power Fuse for Compressor
CH 1,2	Crankcase Heater	PF 5~7	Power Fuse for Fan Motor
CMIF	Contactor for indoor Fan Motor	PSH 1,2	Pressure Switch (High)
CT 1,2,0-S	Current Transformer	RSW	Switch (Rotary Switch Setting)
CS	Changeover Switch	TB 1,2	Terminal
DS 1~4	Connector	TF	Transformer
DSW3	Switch (Unit Model Code Setting)	THM1	Thermistor (Air Intake)
DSW6	Switch (Fan Motor Capacity Code Setting)	THM3 1,2	Thermistor (Freeze)
DSW8	Switch (optional Function Setting)	THM5 1,2	Thermistor (Top of Comp.)
DSW9	Switch (optional Function Setting)	VR	Variable Resistor (for Temp. set)
DSW12	Switch (optional Function Setting)	※AR H	Auxiliary Relay
EF 1,2	Fuse for PCB	※CEH 1,2	Contactor for Electric Heater
EF 3,4	Fuse for Reversal Protective Relay	※CFT	Contactor for Cooling Tower
LED 1~4	Pilot Lamp	※EF 5,6	Fuse
MC 1,2	Motor for Compressor	※EH 1,2	Electric Heater
MIF	Motor for indoor Fan	※FFB	Fuse-Free Breaker with Voltage Release Coil
PBS	Push Bottom Switch	※FH 1~4	Fuse for Electric Heater
PCB	Printed Circuit Board	※TH H1,2	Overheat Protection Thermostat

PCB connector position



【Indication Function】
◎:Light ON ●:1Flash/0.5sec ▲:1Flash/1sec
★:1Flash/2sec ■:1Flash/5sec ◆:1Flash/10sec
•1:It is light OFF when all alarm is light ON.

Abnormal Phenomenon \ Indication		Indicator (LED) Green POWER	Red RUN	Orange(No.1) ALARM	Orange(No.2) ALARM
Failure	Fan Motor Overcurrent	◎	●		
	Compressor Motor Overcurrent	◎	◎ •1	● Only This One	● Only This One
	Exceeded Temperature at the Top of Compressor	◎	◎ •1	▲ Only This One	▲ Only This One
	Refrigerant Leakage	◎	▲	▲ Only This One	▲ Only This One
	Compressor Protective Device	◎	◎ •1	★ Only This One	★ Only This One
Abnormal of Optional Accessory		◎	▲		
Abnormal of Reversal Phase Detected		●			
Abnormal of Single Phase Detected		★			
Sensor Failure	Intake Air Temp Thermistor	◎	◎	■	■
	Freeze Protection Thermistor Temperature at the Top of Compressor	◎	◎	■ Only This One	■ Only This One
Fan Motor Running current decrease Detected		◎	▲	▲ Only This One	▲ Only This One
20,000hrs Compressor operation Check		◎	◎	◆ Only This One	◆ Only This One
Compressor's Protector Detected that Abnormal ALARM activated 3 times within 6 hours.		◎	●	● Only This One	● Only This One

Notes:

1.The ——— portion of the drawing is for local installation part.
2.The ※ portion of parts is optional parts which are field Supplied. (Not standard units parts)
3. Portion is for printed circuit Board.
4.Ⓡ Ⓢ Ⓣ ① ~ ⑦ is for Terminal Base.
5. ◉ is Electric box terminal. is printed circuit's connector.
6.When adopted Electric Heater, the Electric heater protector ($FH_{1\sim4}$) ($TH_{H1,2}$) need to be connected with PCB connector PCN8 and magnetic connector ($CEH_{1,2}$) need to be connected with PCN9.
7.When use cooling tower, please change following wiring.
(1).Cooling Tower fan must be interlocked with magnetic to make sure pump operation.
(2).Cooling tower's fan magnetic contractor (※CFT) need to be interlock with compressor from ① to ② on TB2.
(3).One cooling tower to match with two airconditioners also need above wiring arrangement. (see Fig.1)

Notice of modification:

1.Chattering phenomenon shall be avoided while use room thermostate, the operation differential Temp. shall be at 1.5°C.
2.Automatic restart circulation shall be avoid when installation.

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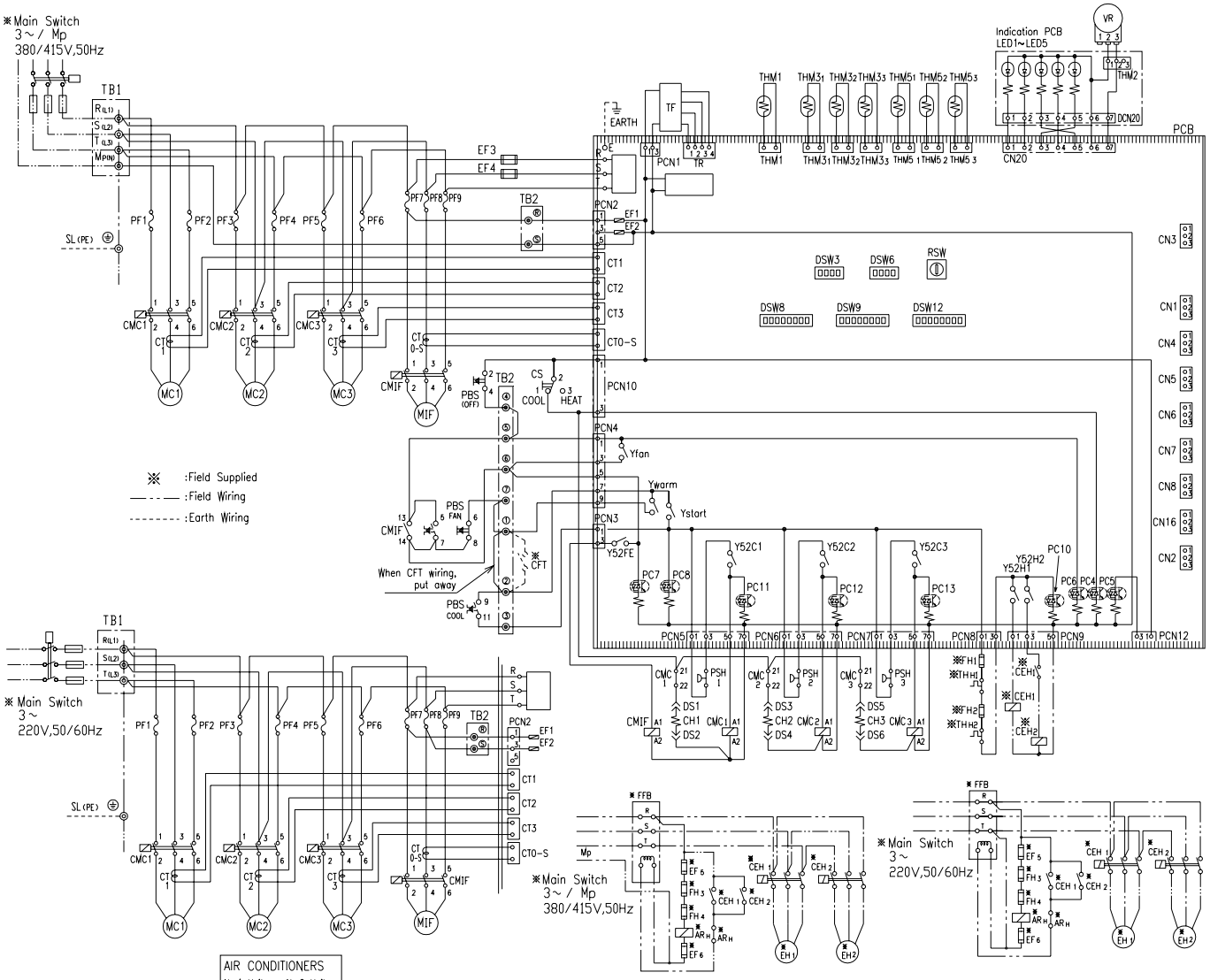
Typical Wiring (Continued)

For Models：RP-P30WP and RP-P40WP



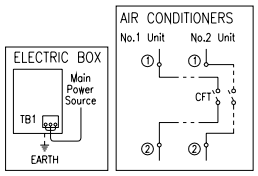


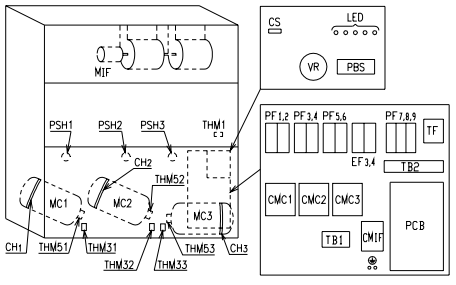
Fig.1

Table 1. DSW set (Factory set)

DSW3 (Cooling Capicity)		DSW6 (Fan Motor Output)	
RP-P30WP	RP-P40WP	RP-P30WP	RP-P40WP
ON OFF 1 2 3 4	ON OFF 1 2 3 4	ON OFF 1 2 3 4	ON OFF 1 2 3 4

DSW8 (Optional Set 1)	DSW9 (Optional Set 2)	DSW12 (Optional Set 3)
ON OFF 1 2 3 4 5 6 7 8	ON OFF 1 2 3 4 5 6 7 8	ON OFF 1 2 3 4 5 6 7 8

(■ :Position of Switch)



Arrangement of Electric Parts in Unit

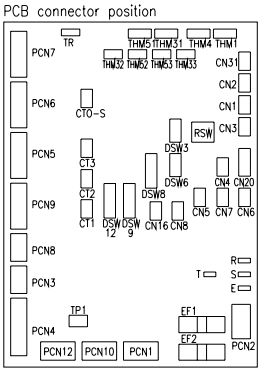
【Indication Function】

◎: Light ON ●: 1Flash/0.5sec ▲: 1Flash/1sec
★: 1Flash/2sec ■: 1Flash/5sec ◆: 1Flash/10sec
★1: It is light OFF when all alarm is light ON.

Abnormal Phenomenon	Indication	Green POWER	Red RUN	Orange(No.1) ALARM	Orange(No.2) ALARM	Orange(No.3) ALARM
Failure	Fan Motor Overcurrent	◎	●			
	Compressor Motor Overcurrent	◎	◎ ★1	● Only This One	● Only This One	● Only This One
	Exceeded Temperature at the Top of Compressor	◎	◎ ★1	▲ Only This One	▲ Only This One	▲ Only This One
	Refrigerant Leakage	◎	▲	▲ Only This One	▲ Only This One	▲ Only This One
	Compressor Protective Device	◎	◎ ★1	★ Only This One	★ Only This One	★ Only This One
Abnormal of Optional Accessory		◎	▲			
Abnormal of Reversal Phase Detected		●				
Abnormal of Single Phase Detected		★				
Sensor Failure	Intake Air Temp Thermistor	◎	◎	■	■	■
	Freeze Protection Thermistor Temperature at the Top of Compressor	◎	◎	■ Only This One	■ Only This One	■ Only This One
Fan Motor Running current decrease Detected		◎	▲	▲ Only This One	▲ Only This One	▲ Only This One
20,000hrs Compressor operation Check		◎	◎	◆ Only This One	◆ Only This One	◆ Only This One
Compressor's Protector Detected that Abnormal ALARM activated 3 times within 6 hours.		◎	●	● Only This One	● Only This One	● Only This One

Mark	Name	Mark	Name
CMC 1,2,3	Contactor for Compressor Motor	PF 1~6	Power Fuse for Compressor
CH 1,2,3	Crankcase Heater	PF 7,8,9	Power Fuse for Fan Motor
CMIF	Contactor for indoor Fan Motor	PSH 1,2,3	Pressure Switch (High)
CT 1,2,3,0-S	Current Transformer	RSW	Switch (Rotary Switch Setting)
CS	Changeover Switch	TB 1,2	Terminal
DS 1~6	Connector	TF	Transformer
DSW3	Switch (Unit Model Code Setting)	THM1	Thermistor (Air Intake)
DSW6	Switch (Fan Motor Capacity Code Setting)	THM3 1,2,3	Thermistor (Freeze)
DSW8	Switch (optional Function Setting)	THM5 1,2,3	Thermistor (Top of Comp.)
DSW9	Switch (optional Function Setting)	VR	Variable Resistor (for Temp. set)
DSW12	Switch (optional Function Setting)	※AR H	Auxiliary Relay
EF 1,2	Fuse for PCB	※CEH 1,2	Contactor for Electric Heater
EF 3,4	Fuse for Reversal Protective Relay	※CFT	Contactor for Cooling Tower
LED 1~5	Pilot Lamp	※EF 5,6	Fuse
MC 1,2,3	Motor for Compressor	※EH 1,2	Electric Heater
MIF	Motor for indoor Fan	※FFB	Fuse-Free Breaker with Voltage Release Coil
PBS	Push Bottom Switch	※FH 1~4	Fuse for Electric Heater
PCB	Printed Circuit Board	※TH H1,2	Overheat Protection Thermostat

PCB connector position



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3. ▥ Portion is for printed circuit Board.
4.Ⓡ Ⓢ Ⓣ ① ~ ⑦ is for Terminal Base.
5. ◉ is Electric box terminal. ⊏ is printed circuit's connector.
6.When adopted Electric Heater, the Electric heater protector (FH 1~4) (TH H1,2) need to be connected with PCB connector PCN8 and magnetic connector (CEH 1,2) need to be connected with PCN9.
7.When use cooling tower, please change following wiring.
(1).Cooling Tower fan must be interlocked with magnetic to make sure pump operation.
(2).Cooling tower's fan magnetic contractor (※CFT) need to be interlock with compressor from ① to ② on TB2.
(3).One cooling tower to match with two airconditioners also need above wiring arrangement. (see Fig.1)

Notice of modification:

1.Chattering phenomenon shall be avoided while use room thermostate, the operation differential Temp. shall be at 1.5°C.
2.Automatic restart circulation shall be avoid when installation.

Protection and Safety Control

Compressor Protection

The compressor is protected by the following devices and the combinations of the devices :

High Pressure Switch - Leading the pressure from the compressor discharge line, this switch cuts out the operation of each compressor when the discharge pressure exceeds the high side setting.

Dual Overcurrent Devices – One-phase current transformer and two-phase fuses equipped in the magnetic switch box, these devices quickly cuts out the operation of each compressor when the current exceeds the setting.

Discharge Gas Thermostat - This thermostat cuts out the operation of the compressor when the discharge gas temperature exceeds the setting value.

Freeze Protection Thermostat - The thermostat cuts out the operation of the compressor when the suction surface temperature of the compressor decreases the setting temperature.

Other Protection

Dual Overcurrent Devices for fan Motor (for models RP-P5WP, RP-P8WP, RP-P10WP through RP-P40WP) – One-phase current transformer and three-phase fuses equipped in the magnetic switch box, these devices quickly cuts out the operation of unit when the current exceeds the setting.

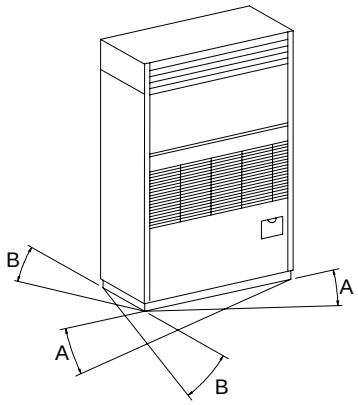
Internal Thermostat for fan Motor (for models RP-P5W, RP-P8W and RP-P10W) – Embedded in the fan motor winding, this thermostat cuts out the operation of unit when the fan motor is excessively heated.

Manual Resetting System - Compressor cycling operation due to automatic resetting of the protective device is protected by the manual resetting system; when one of the protection device is tripped, the printed circuit board in a holding circuit is de-energized, and requires re-manipulation of the operation switch.

Model			RP-P5W	RP-P5WP	RP-P8W	RP-P8WP	RP-P10W	RP-P10WP	RP-P15W	RP-P15WP	RP-P20WP	RP-P25WP	RP-P30WP	RP-P40WP
For Compressor														
Pressure Switch			Automatic Reset, Non-Adjustable (One Switch for Each Compressor)											
High	Cut-out	kg/cm²G	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0
		MPa	2.45	2.45	2.45	2.45	2.45	2.45	2.45	2.45	2.45	2.45	2.45	2.45
	Cut-in	kg/cm²G	19.0	19.0	19.0	19.0	19.0	19.0	19.0	19.0	19.0	19.0	19.0	19.0
		MPa	1.86	1.86	1.86	1.86	1.86	1.86	1.86	1.86	1.86	1.86	1.86	1.86
Overcurrent			Current Transformer (One Phase for Each Compressor)											
220V	60Hz	A	33.6	33.6	43.1	43.1	54.6	54.6	54.6+39.9	54.6+39.9	54.6x2	63.0x2	54.6x3	63.0x3
220V	50Hz	A	33.6	33.6	43.1	43.1	54.6	54.6	54.6+39.9	54.6+39.9	54.6x2	63.0x2	54.6x3	63.0x3
380/415V	50Hz	A	16.8	16.8	21.6	21.6	27.3	27.3	27.3+20.0	27.3+20.0	27.3x2	31.5x2	27.3x3	31.5x3
Fuse Capacity			Two Fuse for Each Compressor											
220V	60Hz	A	30	30	50	50	60	60	60+40	60+40	60x2	60x2	60x3	60x3
220V	50Hz	A	30	30	50	50	60	60	60+40	60+40	60x2	60x2	60x3	60x3
380/415V	50Hz	A	20	20	30	30	30	30	30+20	30+20	30x2	30x2	30x3	30x3
Discharge Gas Thermistor			Automatic Reset, Non-Adjustable (One Thermistor for Each Compressor)											
Cut-out		℃	127	127	127	127	127	127	127	127	127	127	127	127
Freeze Protection Thermistor			Automatic Reset, Non-Adjustable											
Cut-out		℃	0	0	0	0	0	0	0	0	0	0	0	0
For Evaporator Fan Motor														
Overcurrent			Current Transformer (One Phase for Each Fan Motor)											
220V	60Hz	A	—	3.4	—	4.6	—	7.4	7.4	10.8	18.0	18.0	27.6	34.8
220V	50Hz	A	—	3.4	—	4.6	—	7.4	7.4	10.8	18.0	18.0	27.6	34.8
380/415V	50Hz	A	—	1.7	—	2.3	—	3.7	3.7	5.4	9.0	9.0	13.8	17.4
Fan Motor Internal Thermostat			Automatic Reset, Non-Adjustable (One Thermostat for Fan Motor)											
	Cut-out	℃	130	—	130	—	130	—	—	—	—	—	—	—
	Cut-in	℃	100	—	100	—	100	—	—	—	—	—	—	—
Fuse Capacity			Three Fuse for Fan Motor											
220V	60Hz	A	—	10	—	10	—	20	20	30	30	30	40	40
220V	50Hz	A	—	10	—	10	—	20	20	30	30	30	40	40
380/415V	50Hz	A	—	5	—	5	—	10	10	20	20	30	30	30
For Control Circuit Fuse Capacity		A	One Fuse for Each Unit (380V/415V, 50Hz) Two Fuses for Each Unit (220V, 50Hz/60Hz) 5	5	5	5	5	5	5	5	5	5	5	5
Operation Control Built-In Thermostat		℃	15~30	15~30	15~30	15~30	15~30	15~30	15~30	15~30	15~30	15~30	15~30	15~30
Adjustable Range Stages			1	1	1	1	1	1	2	2	2	2	3	3

Foundation Provisions

Maximum Foundation Gradient



Model	Dimensions			
	A		B	
	degree	mm	degree	mm
RP-P5W	0.7	10	0.5	4
RP-P5WP	0.7	10	0.5	4
RP-P8W	0.7	13	0.5	4
RP-P8WP	0.7	13	0.5	4
RP-P10W	0.7	17	0.5	5
RP-P10WP	0.7	17	0.5	5
RP-P15W	0.7	17	0.4	5
RP-P15WP	0.7	17	0.4	5
RP-P20WP	0.7	21	0.4	5
RP-P25WP	0.7	21	0.4	6
RP-P30WP	0.7	24	0.4	6
RP-P40WP	0.4	15	0.3	7

Field Piping Provisions

Condenser Water Piping

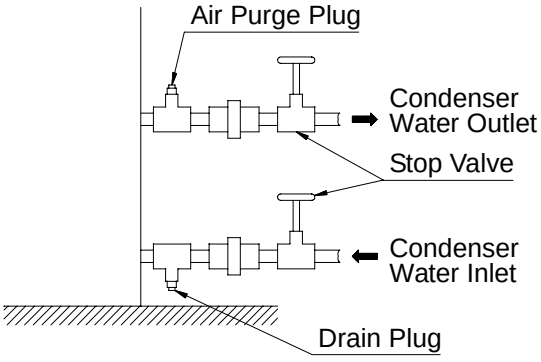
Air Purge and Water Drainage - The air purge plug and water drain plug should be provided near the unit, in order to facilitate maintenance work.

Water Flow Regulating Valve - When tap water is applied or the unit is operated in winter, the water flow regulating valve activated by the discharge pressure should be installed, to keep the condenser water outlet water temperature higher than 21℃.

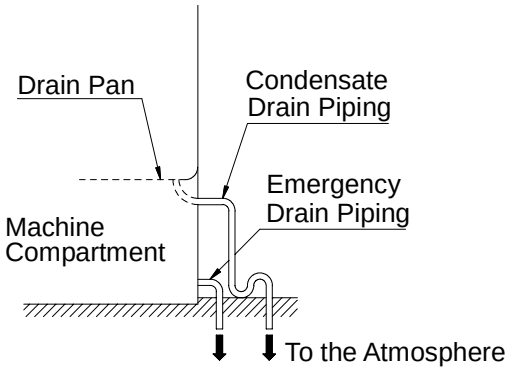
Drain Piping

Condensate Drain Piping - A female piping thread screw connection is provided at both sides of the unit. When air intake ducts are installed, a trap deeper than half of the duct pressure drop in the water gauge should be provided at a lower level than the drain pan.

Emergency Drain - An emergency drain from the machine compartment can be disposed of from the emergency drain connection provided at both the bottom sides of the unit.



Condenser Water Piping



Drain Piping

Wiring Provisions

Field Wiring

These units are internally wired at the factory; required field wiring and components are as follows:

Required Field Wiring - Main Power Wiring to the Units, Earth Wiring, Pump Interlocking Wiring When Cooling Tower is Applied.

Required Components - Main Power Switch, Main Power Fuses, Conduit Coupling, if Required.

Wire and Fuse Size Selection - Wire and fuse sizes should be selected in accordance with national and local codes, taking the designed maximum condensing temperature and ambient temperature into account. The maximum instantaneous current will be the total of the fan motor current and the compressor starting current (and the running current of the other compressor for dual-circuited units).

Ducting Provisions

For Models RP-P5W, RP-P8W, RP-P10W and RP-P15W

Auxiliary Duct - For partial air discharge by duct, an auxiliary duct can be connected on top of the plenum chamber.

Rear Side Air Intake - Rear side air intake by duct is applicable by shutting the front air intake grilles. (Models RP-P5W, RP-P8W and RP-P10W are Factory-Equipped Option.)

Fresh Air Intake - A fresh air intake opening is provided at both sides of the unit for short ducting.

For Models RP-P5WP, RP-P8WP, RP-P10WP, RP-P15WP and RP-P20WP

Rear Side Air Intake - Rear side air intake by duct is applicable by shutting the front air intake grilles. (Models RP-P5WP, RP-P8WP, RP-P10WP are Factory-Equipped Option.)

Fresh Air Intake - A fresh air intake opening is provided at both sides of the unit for short ducting.

For Models RP-P25WP and RP-P30WP

Field Optional Ducting Arrangement -
The factory-standard rear side air intake can be altered to the front side.

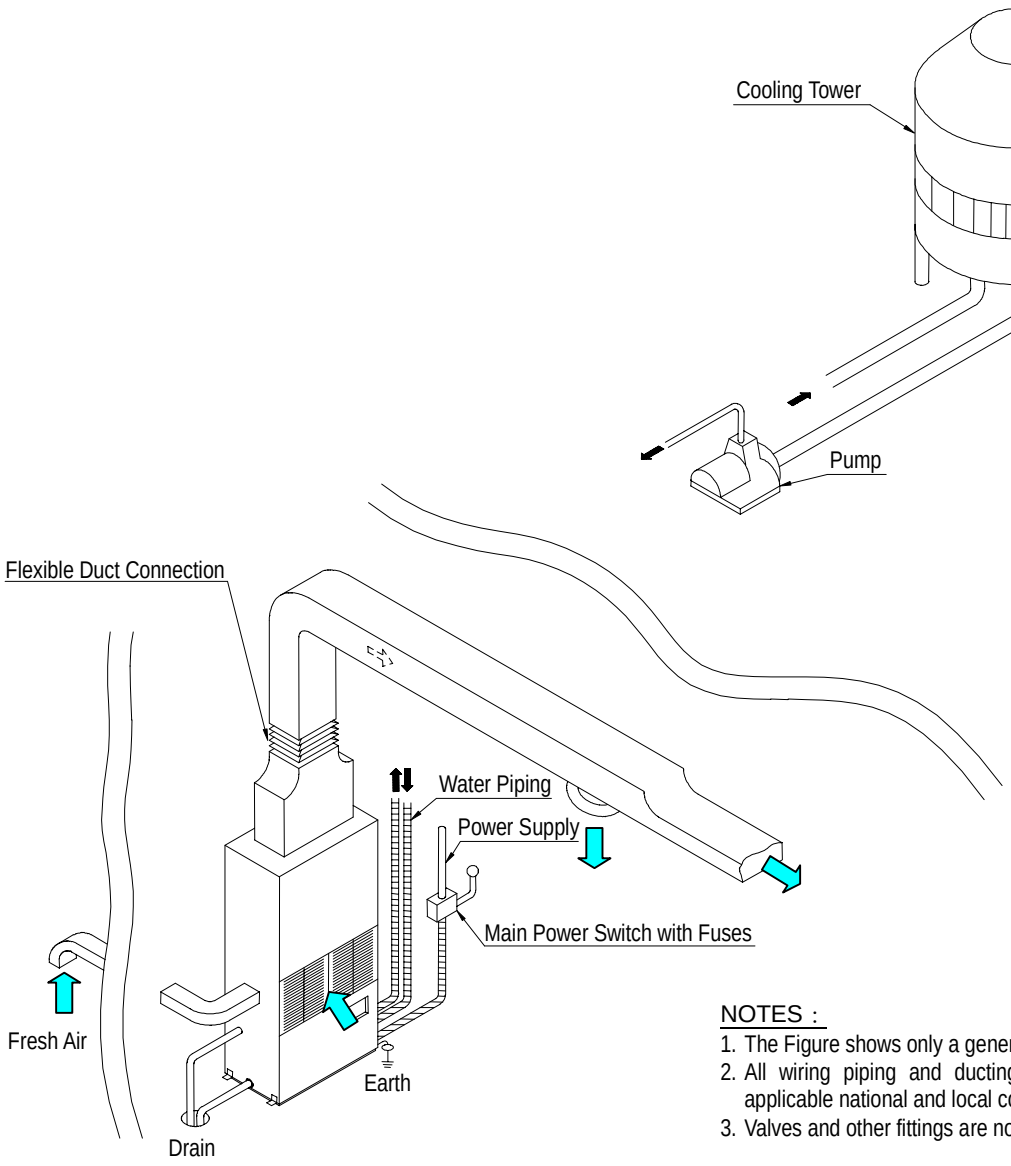
For Model RP-P40WP

Rear Side Air Intake - The factory-standard rear side air intake.

NOTES :

1. Flexible duct connections are recommended.
2. All units are equipped with air filter(s) at the air intake side.
3. See "Features" and "Unit Dimension" for details.

Installation Example



NOTES :

1. The Figure shows only a general example.
2. All wiring piping and ducting must comply with applicable national and local codes.
3. Valves and other fittings are not shown.

Standard Specifications

UNIT - The unit shall be a water-cooled packaged air conditioner for application with R407C refrigerant and shall be composed of _____ refrigeration cycle(s), evaporator fan(s) and electrical components enclosed in a cabinet for indoor installation.

Optional accessories shall also be provided upon customer request. The unit shall be properly assembled, internally piped and wired, thoroughly tested and operating charged with refrigerant at the factory.

CAPACITY - The total cooling capacity of the unit shall be _____kcal/h (_____kW) or greater, and the sensible heat capacity shall be _____kcal/h or greater with _____℃ evaporator air inlet dry bulb, _____℃ evaporator air inlet wet bulb, _____℃ condensing temperature and _____m^3/min evaporator air flow. The unit with two independent refrigeration cycles shall be equipped with a capacity control of _____% partial load. The total compressor power input shall not exceed _____kW.

CABINET - The cabinet shall be constructed of finished steel, baked with synthetic resin paint for front and side panels. The cabinet inside shall be insulated by incombustible and self-extinguishable adiabatic material. The service panels shall be easily removable for service access to the unit components.

REFRIGERATION CYCLE - Each refrigeration cycle shall be equipped with a compressor, a water-cooled condenser, a liquid line strainer, a capillary tubes and an evaporator coil, A check joint for high pressure and a check joint for low pressure shall be provided for each refrigeration cycle of all models. A high pressure gauge and a low pressure gauge shall be provided for each refrigeration cycle of models RP-P25WP through RP-P40WP.

COMPRESSOR - The compressor shall be a hermetic scroll compressor and the starting method shall be the direct-on-line type. The hermetic compressor shall be the welded shell type and it shall be mounted on vibration-proof rubber.

EVAPORATOR FAN AND MOTOR - The evaporator fan(s) shall be the forward-curved, multi-blade centrifugal type, statically and dynamically balanced, and belt driven by a _____kW motor. The fan motor shall be permanently lubricated. The fan(s) shall deliver _____m^3/min with _____mmAq external static pressure at _____rpm.

EVAPORATOR - The evaporator shall be the multi-pass cross-finned tube type, equipped with highly-efficient aluminum fins, mechanically bonded to oxygen-free seamless copper tubes. The fins shall be spaced at more than 12 fins per 25.4 mm. The face area shall not be less than _____m^2. The coil shall be cleaned, dehydrated and tested for leakage at the factory.

CONDENSER - The water-cooled condenser shall be the coiled double tube type for models RP-P5W through RP-P30WP, and shall be the shell-and-tube type for model RP-P40WP. The tube(s) shall be seamless copper tube(s) with integral fins. The refrigerant side of the condenser shall be cleaned, dehydrated and tested for leakage at the factory. The water side of the condenser shall be tested for leakage at the factory. The heat rejection capacity of the condenser(s) shall be capable of maintaining a condensing temperature of_____℃, with_____℃ condenser water inlet temperature and _____m^3/h condenser water flow. The water head loss through the condenser shall not exceed _____mAq under this condition.

PROTECTION DEVICE - Each compressor shall be protected against breakdown by a two-phase fuses and one-phase current transformer, a high pressure switch, a discharge gas thermistor and a freeze protection thermostat. The evaporator fan motor shall be protected from overloaded operation with a internal thermostat (for models RP-P5W, RP-P8W and RP-P10W), or a two-phase fuses and one-phase current transformer (for models RP-P5WP, RP-P8WP, RP-P10WP, RP-P15W through RP-P40WP).

CONTROL - The unit shall be equipped with operation switch(es), pilot lamp(s) and a thermostat mounted on the unit control panel. The operation switch(es) shall set ventilating, cooling and heating operations. The operation control shall conform to manual starting, automatic continuous operation whenever the thermostat requires and the protection devices allow. A manual resetting system shall be provided, in order to protect against compressor cycling operation due to automatic resetting of the protection devices. The two or three compressors of the multi-circuited units shall be started sequentially, and shall provide capacity control with a three-stage thermostat at the most which ON/OFF one of the compressors according to cooling load by the PCB expansion function of the control system.

OPTIONAL ACCESSORIES - Optional accessories shall include hot water heaters, steam heaters and humidifiers for all models, and shall include electric heaters for models RP-P5W through RP-P40WP.

Hitachi Appliances, Inc.

Specifications in this catalog are subject to change without notice, in order that HITACHI may bring the latest innovations to our customers

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