





30RB/RQ Modular Air-Cooled Liquid Chiller Reversible Air-to-Water Heat Pump

Nominal cooling capacity: 65kW Nominal heating capacity: 68kW





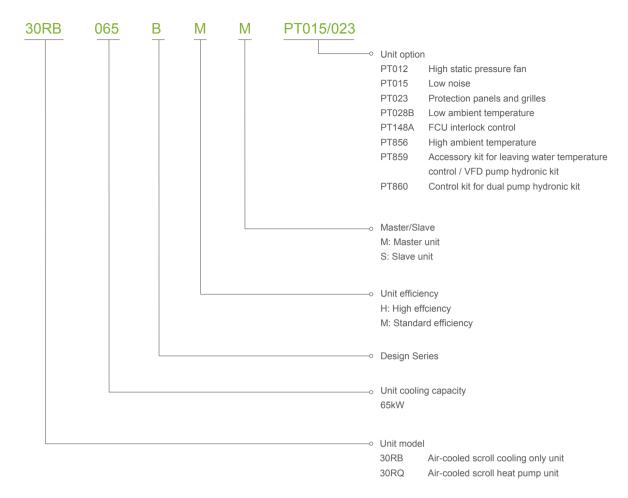
Turn To The Experts

Founded by the inventor of modern air conditioning, Carrier is the world's leader in high-technology heating, air-conditioning and refrigeration solutions. Carrier experts provide sustainable solutions, integrating energy-efficient products, building controls and energy services for residential, commercial, retail, transport and food service customers. Carrier is a part of UTC Build ing & Industrial Systems, a unit of United Technologies Corp., a leading provider to the aerospace and building systems industries worldwide.

With a broad portfolio of advanced technical patent awards, our global R&D center in Shanghai develops innovative heat, ventilation and air-conditioning (HVAC) solutions.

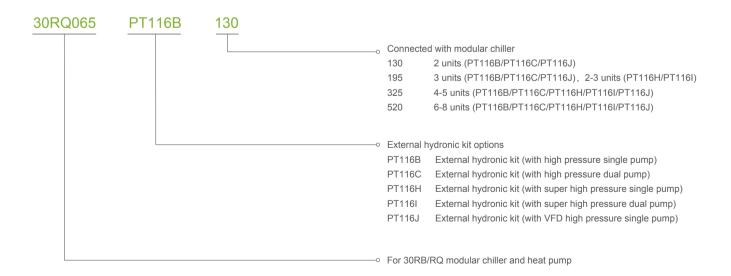


Nomenclature



Note:

- System controller will be shipped inside of master unit's control box.
- 2. If select PT028B, it is mandatory to apply brine for anti-freezing.
- 3. Employ entering water temperature control as default for single and multiple modular connection. PT859 is mandatory if leaving temperature control required.
- 4. PT859 is mandatory for modular chiller when external VFD pump hydronic kit is ordered.
- 5. PT860 is mandatory for modular chiller when external dual pump hydronic kit is ordered.



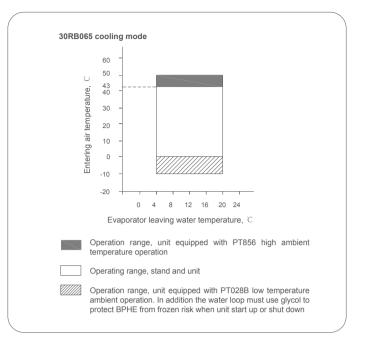
^{*} Unit shown on cover is with PT023 protection panels and grilles option

Operating Range, 30RB

Cooling mode

Evaporator	Minimum	Maximum
Entering water temperature at start-up	12°C	30°C
Leaving water temperature during operation	4°C	20°C
Entering/leaving water temperature difference	-	9K
Condenser	Minimum	Maximum
Outdoor air temperature*	0°C	43°C

^{*} Maximum outside temperature: For transport and storage of the 30RB/RQ units the minimum and maximum allowable temperatures are -20 °C and +50 °C. It is recommended that these temperatures are used for transport by container.



Operating Range, 30RQ

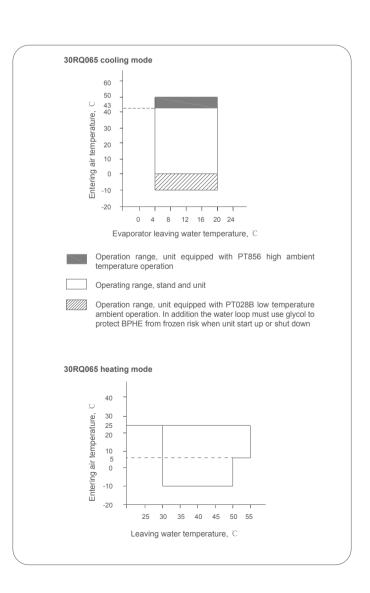
Cooling mode

Water heat exchanger (Evaporator)	Minimum	Maximum	
Entering water temperature at start-up	12°C	30℃	
Leaving water temperature during operation	4°C	20°C	
Entering/leaving water temperature difference	е -	9K	
Air heat exchanger (Condenser)	Minimum	Maximum	
Outdoor air temperature*	0°C	43°C	

^{*} Maximum outside temperature: For transport and storage of the 30RB/RQ units the minimum and maximum allowable temperatures are -20 °C and +50 °C. It is recommended that these temperatures are used for transport by container.

Heating mode

Water heat exchanger (Condenser)	Minimum	Maximum
Entering water temperature at start-up	3.3℃	45°C
Leaving water temperature during operation	tion 30°C	55℃
Entering/leaving water temperature differ	rence -	9K
Air heat exchanger (Evaporator)	Minimum	Maximum
Outdoor air temperature	-10 °C	25°C



Features

The new generation of Aquasnap modular chillers/heat pumps is the new design type catering for flexible combination to suit different capacity needs and installation space. It is the premium solution for commercial and light commercial applications such as the air conditioning of office, hotel, complex building and industry, etc.

Benefits

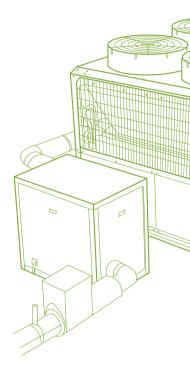
- Environment sound refrigerant HFC-410A of zero ozone depletion potential.
- Extremely high full load and system part load energy efficiency leads to low operation cost.
- Flexible combination of modular design type meets various capacity requirement and system capacity extension needs.
- Low operating sound with no intrusive low-frequency noise creates a better working/living environment.
- Multiple modules and robust control system ensure superior reliability to minimize chiller down-time.

Environmental sound

- Ozone-friendly HFC-410A refrigerant
 - · Chlorine-free refrigerant of the HFC group with zero ozone depletion potential.
 - · High-density refrigerant, therefore less refrigerant required.
 - · Very efficient gives an increased energy efficiency ratio.
- Leak-tight refrigerant circuit
 - · Brazed refrigerant connections for increased leaktightness.
 - · Reduction of leaks due to reduced vibration levels and elimination of capillary tubes.
 - · Verification of pressure transducers and temperature sensors without transferring refrigerant charge.

Economical operation

- Extremely high full load efficiency and system part load efficiency
 - · High tier offering boosts full load cooling efficiency above 3.2 and standard tier at 3.1.
 - · The multiple module system offers flexible capacity control step to respond customer load change, its high system part load efficiency leads to more economical operating cost.
 - · Counter flow brazed plate heat exchanger ensures high efficient heat transfer.
 - Electronic expansion device (EXV) allows operation at a lower condensing pressure. (EER and COP optimization) and improved utilization of the evaporator heat exchange surface(dynamic super heat control).
- Optimized defrost control algorithm reduced the defrost cycle (30RQ only)
- Reduced maintenance costs
 - · Maintenance-free scroll compressors.
 - · Fast diagnosis of possible incidents and their history via the Auto-adaptive Plus control.
 - · HFC-410A refrigerant is easier to use than other refrigerant blends.



Flexible combination

- Max. 12 modules stack up in parallel in one control system extending cooling/heating capacity to 780/816kW.
- Cooling only and heat pump modular could flexibly stack up addressing diverse capacity needs by mix combined technology.
- Ease of system extension and multi-phase investment benefiting customer in capital utilization.



Quiet operation

Compressors

- · Low-noise scroll compressors with low vibration level.
- · The compressor assembly is installed on an independent chassis and supported by anti-vibration mountings.
- · Dynamic suction and discharge piping support minimize vibration transmission (Carrier patent).
- · Acoustic compressor enclosure reduces radiated noise emission (option).

Condenser section

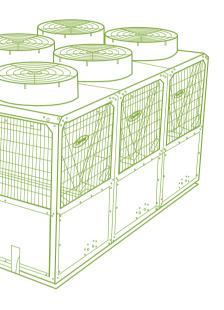
- · Condenser coils in V-shape with an open angle allows quieter air flow across the coil.
- · Low-noise 4th generation Flying Bird fans (Carrier patent) enjoy quieter operation and never generate intrusive low-frequency noise.
- · Rigid fan mounting preventing start-up noise (Carrier patent).





Easy and fast installation

- Single module with compact footprint is easy for storage, shipping, lifting and installation.
- Multiple modulars connected in lateral with one side water piping ensure compact installation footprint, saving valuable space for customer.
- Extra screw/victaulic water connection adapts for various jobsite needs.
- Innovative external hydronic kit integrates all the necessary hydronic components, saving valuable installation time, effort and space.
 - · Centrifugal high or super high pressure water pump provides diverse lifts for different applications.
 - \cdot Dual pumps apply operating time balancing and automatic changeover to the back-up pump if any fault occurs.
- \cdot VFD pump kit reduces obviously the energy consumption based on load variation and the number of modular units operating.
- $\cdot \ \ \text{High-capacity membrane expansion tank ensures pressurization of the water circuit.}$

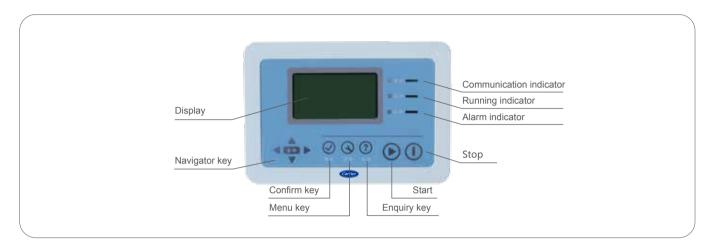


Auto-adptive Control

Auto-adptive Control combines intelligence with operating simplicity. The control constantly monitors all machine parameters and precisely manages the operation of compressors, expansion devices, fans for optimum energy efficiency.

User-friendly interface

- The new backlighted LCD ensures legibility, the information is in clear text and can be displayed in English.
- Unit uses intuitive tree-structure menus, similar to the Internet navigators. They are user-friendly and permit quick access to the principal operating parameters of master and each salve unit: operating mode, compressors operating status, suction pressure, compressor operating hours, set point, air temperature, entering and leaving water temperature.



Advanced control function

- Unit control function including: Unit ON/OFF, user safety interlock, water pump control, operation indication, circuit alarm and alert etc.
- System can start/stop according to FCU status via FCU interlock controller (option).
- Intelligent defrost control algorithm reduced the defrost cycle duration and automatically balance the defrost sequence of more than one unit which have defrosting request at the same time (30RQ only).
- Password protection in case of mishandling.

Powerful diagnostics

- Real-time monitor all the control and operation parameters, alarm when necessary.
- As many as 12 diagnostics to protect unit: water flow detective, water temperature out of range protection, compressor reverse, low chilled water temperature, high/low refrigerant pressure, motor overload, anti-freeze protection, etc. The diagnostics histories are recorded and could be easily visited via system controller.

Group control

- Master/slave control of group modular operating in parallel with run time equalization and automatic changeover in case of fault.
- One system controller could support maximum 12 modules, which gives more flexibility for capacity extension.
- With RS485 port and Modbus protocol, remote control of multiple modular gets available through communication with Building Automation System (BAS).



Modular Unit Technical Specifications

Performance data

Model		30RB065BHM/S	30RB065BMM/S	30RQ065BHM/S	30RQ065BMM/S
Nominal cooling capacity*	kW	65	65	65	65
Compressor power input(cooling)	kW	18.1	18.9	18.3	19.7
EER	kW/kW	3.30	3.17	3.27	3.05
Nominal heating capacity*	kW	/	/	68	68
Compressor power input(heating)	kW	/	/	19.0	19.6
COP	kW/kW	/	/	3.30	3.21
Refrigerant			HFC-	410A	
Circuit A	kg	8.0	5.5	8.0	6.7
Circuit B	kg	8.0	5.5	8.0	6.7
Compressor			Hermetic scro	II compressors	
Circuit A		1	1	1	1
Circuit B		1	1	1	1
Number of capacity stages		2	2	2	2
Minimum capacity	%	50	50	50	50
Condensers			Grooved copper tube	es and aluminium fins	
Fans			Axial Flying Bird IV	with rotating shroud	
Quantity		2	2	2	2
Total air flow	I/s	6834	6834	6834	6834
Speed	rpm	700	700	700	700
Water heat exchanger			Brazed plate h	neat exchanger	
Water volume	- 1	5.06	5.06	5.94	5.06
Nominal water flow rate, cooling mode	l/s	3.1	3.1	3.1	3.1
Nominal water flow rate, heating mode	l/s	/	/	3.3	3.3
Unit internal water pressure drop, cooling mode***	kPa	84	84	77	84
Unit internal water pressure drop, heating mode***	kPa	/	/	83	91
Max. water-side operating pressure	kPa	1600	1600	1600	1600
Water connections			Victa	aulic	
Nominal diameter		DN40	DN40	DN40	DN40
Electrical data					
Main power supply			400V-3Ph-50Hz (th	ree-phase five line)	
Control power supply			230V (un	it built in)	
Nominal unit operating current draw, circuit A/B	Α	33.1	34.4	33.4	35.7
Maximum operating current draw, circuit A/B	А	45.0	43.0	45.0	43.0
Maximum start-up current, circuit A/B	А	176.0	176.0	176.0	176.0
Total fan power input	kW	1.6	1.6	1.6	1.6
Unit length	mm	2236	2236	2236	2236
Unit width	mm	1100	1100	1100	1100
Unit height	mm	1898	1898	1898	1898
Shipping weight**	kg	574	538	610	576
Operation weight	kg	580	543	616	581

^{*} Nominal cooling mode - evaporator entering/leaving water temperature 12/7 °C, outside air temperature 35 °C Nominal heating mode - water heat exchange entering/leaving water temperature 40/45 °C, outside air temperature 7 °C; Water heat exchanger fouling factor - 0.018m2K/kW.

***Unit only, not include additional shipping package weight 20kg.

****Unit internal pressure drop includes BPHE, Y strainer and water pipes.

Options & accessories

Options	No.	Description	Advantages	Use
High static pressure fan	012	950RPM to provide 120Pa static pressure for indoor unit installation with discharge ducts	Ducted condenser air discharge, optimized condensing temperature control	
Low noise	015	Acoustic compressor enclosure	Noise emission reduction by 2dBA	
Protection panels and grilles	023	Metallic panels and grilles on all four unit faces	Better chiller protection and aesthetics	
Low ambient temperature	028B	Fan running No. controlled by condensing pressure	Stable operation with air temperature down to -10C	30RB065BHM/S 30RB065BMM/S 30RQ065BHM/S 30RQ065BMM/S
FCU interlock control	148A	Fan-coil interlock controller	Provide interlock function between FCU and master modular	
High ambient temperature	856	Optimized designed control box adaptive to high ambient temperature	Stable unit operation with air temperature up to 50°C	
Accessory kit for leaving water temperature control */ variable speed pump hydronic kit	859	Accessory kit for controlling leaving water temperature set point Accessory kit for variable speed pump hydronic kit	Control leaving water temperature	
Control kit for dual pump hydronic kit	860	Control kit matched with dual pump hydronic kit	Optimized and adaptive performance	

^{*} Only for 2~4 modular units

Multiple Modules Performance Data

Cooling capacity (kW)	65	130	195	260	325	390	455	520
Heating capacity (kW)	68	136	204	272	340	405	476	544
Modular No.	1	2	3	4	5	6	7	8
Piping DN recommendation	≥DN50	≥DN80	≥DN80	≥DN100	≥DN100	≥DN125	≥DN125	≥DN125

Hydronic Kit Technical Specification

Hydronic kit model	Modular Qty	Nominal water flow rate*	Pump water pressure*	water p (with s	r available ressure** tandard y modular)			Expansion tank volume	Maximum water side pressure	Connection diameter	Pump power input	Pump maximum operating current	Main power supply	Recommended wiring size
				30RB	30RQ	30RB	30RQ		,		прас	draw		
	unit	m³/h	kPa	k	Pa	k	Pa	I	kPa	DN	kW	А		mm²
External hydronic kit (high pressure single pump)			expan							ainer,safety ulic water o		on, etc.		
30RQ065PT116B130	2	22.4	270	186	186	186	193	35	500	DN65	4.0	7.1		
30RQ065PT116B195	3	33.6	282	198	198	198	205	50	500	DN80	5.5	9.8		1.0x2.5 (Min.) 1.0x10.0 (Max.)
	4	44.8	260	176	176	176	183							
30RQ065PT116B325	5	56.0	245	161	161	161	168	80	500	DN100	7.5	13.7	400V-3Ph- 50hZ	
	6	67.2	288	204	204	204	211							(Iviax.)
30RQ065PT116B520	7	78.4	276	192	192	192	199	80	500	DN100	11.0	19.6		
	8	89.6	255	171	171	171	178							
External hydronic kit (high pressure dual pump)			expans							iner,safety ulic water c		on, etc		
30RQ065PT116C130	2	22.4	250	166	166	166	173	35	500	DN65	4.0	7.1		
30RQ065PT116C195	3	33.6	270	186	186	186	193	50	500	DN80	5.5	9.8		
	4	44.8	250	166	166	166	173							
30RQ065PT116C325	5	56.0	235	151	151	151	158	80	500	DN100	7.5	13.7	400V-3Ph- 50hZ	1.0x2.5 (Min.) 1.0x10.0 (Max.)
	6	67.2	273	189	189	189	196							(Max.)
30RQ065PT116C520	7	78.4	258	174	174	174	181	80	500	DN100	11.0	19.6		
	8	89.6	230	146	146	146	153							

^{*} at nominal cooling condition

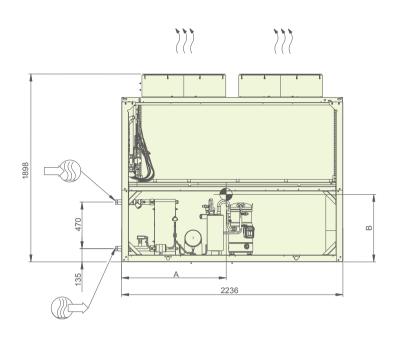
^{**} at nominal cooling condition, customer available pressure = pump water pressure - modular chiller water pressure loss, Need to consider the water head loss of the piping between external hydronic kit and modular chiller

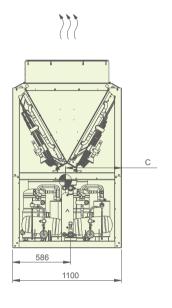
^{***} at 50Hz

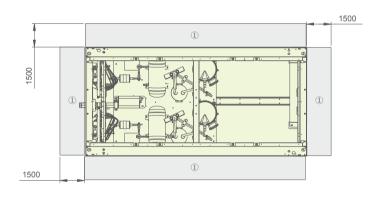
Hydronic kit model	Modular Qty	Nominal water flow rate*	Pump water pressure*	water project water project (with s	r available ressure** tandard / modular)	(with	available ressure** high modular)	Expansion tank volume	Maximum water side pressure	Connection diameter	Pump power input	Pump maximum operating current draw	Main power supply	Recommended wiring size
	unit	m³/h	kPa	k	Pa	k	:Pa	I	kPa	DN	kW	А		mm²
Extemal hydronic kit (super high pressure single pump)			е							ox,Y straine victaulic wa			etc.	
30RQ065PT116H195	2	22.4	335	251	251	251	258	50	500	DN65	5.5	9.8		
	3	33.6	305	221	221	221	228							
30RQ065PT116H325	4	44.8	320	236	236	236	243	80	500	DN100	7.5	13.7		1.0x2.5
	5	56.0	300	216	216	216	223						400V-3Ph- 50hZ	(Min.) 1.0x10.0 (Max.)
	6	67.2	328	244	244	244	251							(IVIAX.)
30RQ065PT116H520	7	78.4	318	234	234	234	241	80	500	DN100	15.0	27.4		
	8	89.6	306	222	222	222	229							
Extemal hydronic kit*** (super high pressure dual pump)	Super high pressure dual pump,control box,Y strainer,safety valve, expansion tank,pressure gauge, air vent valves, victaulic water connection, etc.													
30RQ065PT116I195	2	22.4	315	231	231	231	238	50	500	DN65	5.5	9.8		
30110000111101193	3	33.6	293	209	209	209	216	00 00	300	DINOS	5.5			
30/RQ065PT116l325	4	44.8	310	226	226	226	233	80	500	DN100	7.5	13.7		1.0x2.5
00/1140001 1 1 101020	5	56.0	290	206	206	206	213	00	300	Bivioo	7.0		400V-3Ph- 50hZ	(Min.) 1.0x10.0
	6	67.2	313	229	229	229	236							(Max.)
30RQ065PT116I520	7	78.4	300	216	216	216	223	80	500	DN100	15.0	27.4		
	8	89.6	281	197	197	197	204							
Extemal hydronic kit*** (VFD high pressure single pump)													ssure gauge er connectio	
30RQ065PT116J130	2	22.4	284	200	200	200	207	35	500	DN65	4.0	7.1		
30RQ065PT116J195	3	33.6	290	206	206	206	213	50	500	DN80	5.5	9.8		
	4	44.8	272	188	188	188	195							1 0.0 5
30RQ065PT116J325	5	56.0	250	166	166	166	173	80	500	DN100	7.5	13.7	400V-3Ph- 50hZ	1.0x2.5 (Min.) 1.0x10.0
	6	67.2	294	210	210	210	217							(Max.)
30RQ065PT116J520	7	78.4	275	191	191	191	198	80	500	DN100	11.0	19.6		
	8	89.6	245	161	161	161	168							

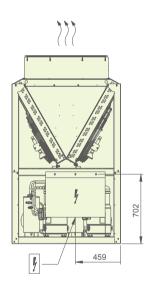
Dimensions/Clearances

30RB/RQ





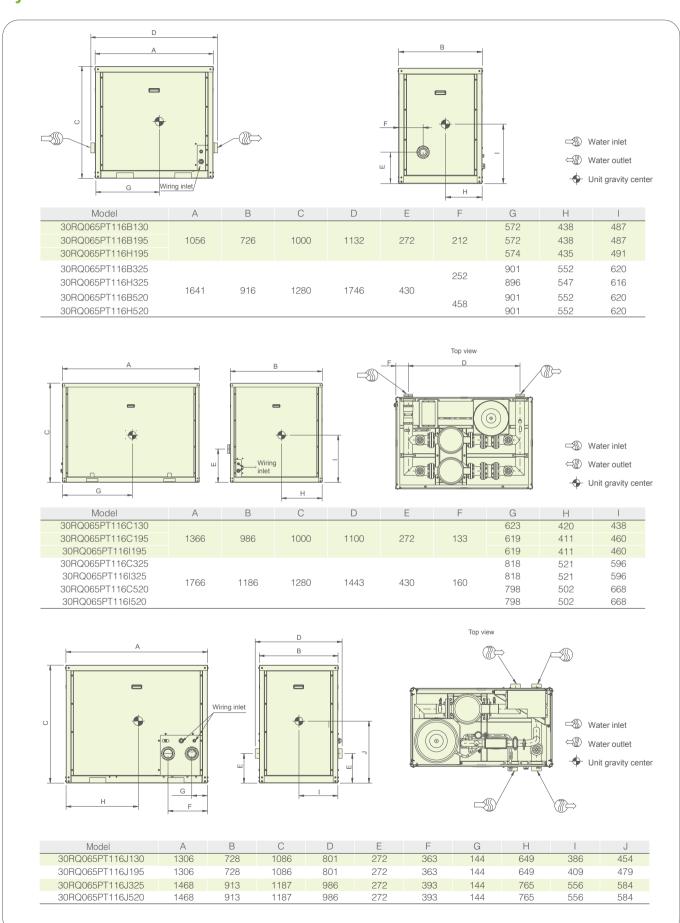




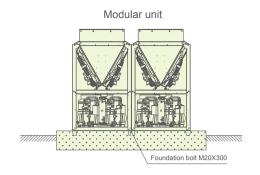
- ① Required clearances for air entry
- □ Water inlet
- ₩ Water outlet
- Air outlet do not obstruct
- Power supply inlet
- Unit gravity center

Model	А	В	С
30RB065BHS/BMS	1044	737	594
30RQ065BHS/BMS	1056	682	566

Hydronic Kit Dimension



Installation Basement and Weight Distrbution

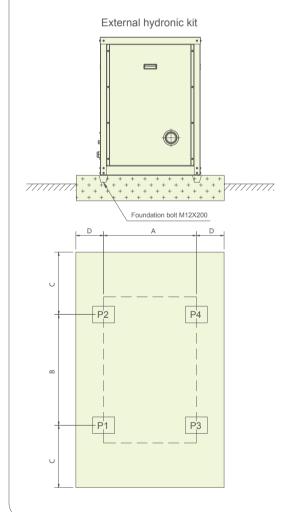


		-		2954		-
		400	1027	100	1027	400
1	645	P2		P4 P2		P4
2587	1297					
	645	P1 L		P3 P1 L		P3 —

Model	Operating Weight (kg)	P1 (kg)	P2 (kg)	P3 (kg)	P4 (kg)
30RB065BHM/S	580	174	140	148	118
30RB065BMM/S	543	165	131	138	109
30RQ065BHM/S	616	167	150	158	141
30RQ065BMM/S	581	158	141	149	133

- 1. The installation basement shall be concrete structure or channel steel frame that is strong enough to support unit operating weight.

 2. Each unit shall be fixed by four bolts(M20)
- 3. Anti-vibration pads (20mm) shall be installed between the unit chassis and basement.



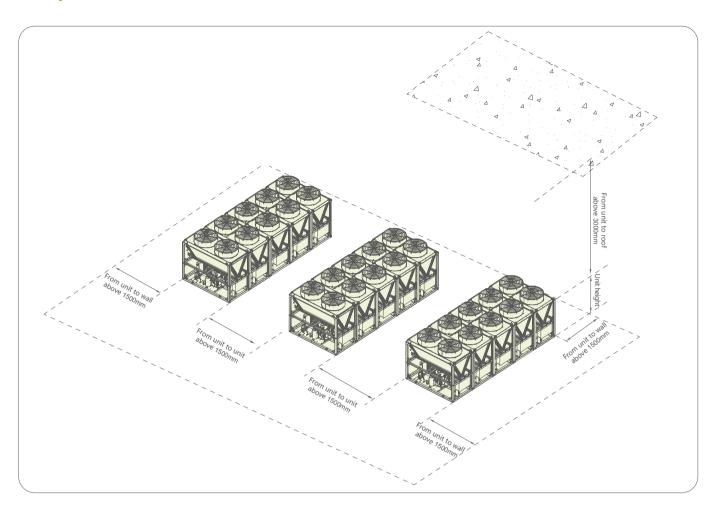
Model	Operating Weight (kg)	P1 (kg)	P2 (kg)	P3 (kg)	P4 (kg)	A (mm)	B (mm)	C (mm)	D (mm)
			,		. 0,	(/	,	,	,
30RQ065PT116B130	215	75	36	57	47	670	640	350	150
30RQ065PT116B195	258	90	43	68	57	670	640	350	150
30RQ065PT116B325	368	128	62	97	82	860	1162	400	200
30RQ065PT116B520	546	190	92	143	121	860	1162	400	200
30RQ065PT116C130	386	97	127	92	71	930	900	400	200
30RQ065PT116C195	462	117	155	109	82	930	900	400	200
30RQ065PT116C325	641	158	204	158	121	1130	1000	500	200
30RQ065PT116C520	793	191	269	195	138	1130	1000	500	200
30RQ065PT116H195	248	86	42	64	56	670	640	350	150
30RQ065PT116H325	358	122	62	94	80	860	1162	400	200
30RQ065PT116H520	546	189	92	143	122	860	1162	400	200
30RQ065PT116I195	462	117	155	109	82	930	900	400	200
30RQ065PT116l325	641	158	204	158	121	1130	1000	500	200
30RQ065PT116l520	793	191	269	195	138	1130	1000	500	200
30RQ065PT116J130	215	75	36	57	47	1130	640	500	200
30RQ065PT116J195	258	90	43	68	57	1130	640	500	200
30RQ065PT116J325	368	128	62	97	82	1130	640	500	200
30RQ065PT116J520	546	190	92	143	121	1130	640	500	200

- 1. The installation basement shall be concrete structure or channel steel frame that is strong enough to support unit operating weight.

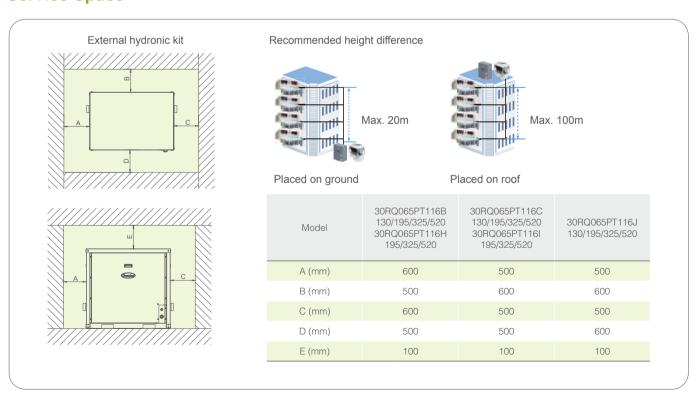
 2. Each unit shall be fixed by four bolts(M12)

 3. Anti-vibration pads (10mm) shall be installed between the unit chassis and basement.

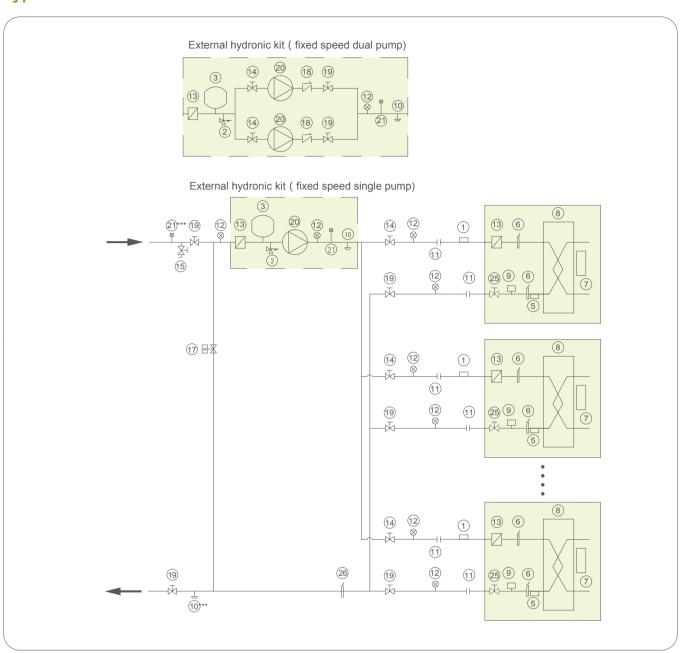
Multiple Modules Installation



Service Space



Typical Water Connection



Unit components	Installation components	
Onit components	Included in kit	Not inclued in kit
5 Drain screw plug	2 Safety valve	1 Manual air vent
6 Temperature sensor	3 Expansion tank	11 Flexible connection
7 BPHE heater	10 Drain valve	14 Flow control valve**
8 Brazed plate exchanger	12 Pressur guage	15 Charge valve
9 Flow switch*	13 Filter	17 Bypass valve
13 Filter	18 Check valve	19 Stop valve
25 Eletrical ball valve(PT859)****	19 Stop valve	21 Auto air vent
26 Temperature sensor(PT859)****	20 Pump	
	21 Auto air vent	

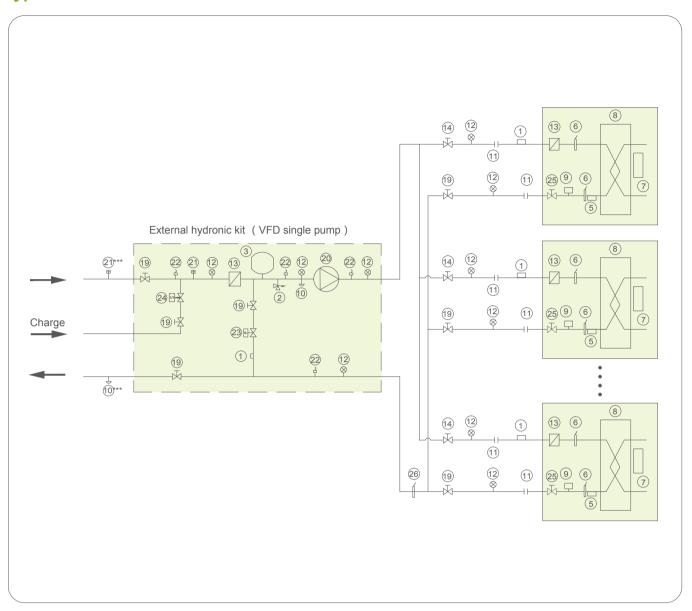
Note: * 30RB/RQ065 Unit flow switch is installed at BPHE outlet;

** Recommend flow regulating valve as butterfly valve or sluice valve etc. instead of stop valves like ball valve;

***Air vent valves should be installed at the highest point of water loop. Drain valve must be installed at the lowest point of water loop;

****Temperature sensor mounted on main pipe is only for LWT control (PT859 option)

Typical Water Connection



Unit components	Installation components	
Offit components	Included in kit	Not inclued in kit
5 Drain screw plug	2 Safety valve	1 Manual air vent
6 Temperature sensor	3 Expansion tank	11 Flexible connection
7 BPHE heater	10 Drain valve	14 Flow control valve**
8 Brazed plate exchanger	12 Pressur guage	19 Stop valve
9 Flow switch*	13 Filter	21 Auto air vent
13 Filter	18 Check valve	
25 Eletrical ball valve(PT859)****	20 Pump	
26 Temperature sensor(PT859)****	21 Auto air vent	
	22 Pressure sensor	
	23 Digital bypass valve	
	24 Auto charge valve	

^{* 30}RB/RQ065 Unit flow switch is installed at BPHE outlet;

^{**} Recommend flow regulating valve as butterfly valve or sluice valve etc. instead of stop valves like ball valve;

***Air vent valves should be installed at the highest point of water loop. Drain valve must be installed at the lowest point of water loop;

****Temperature sensor mounted on main pipe is only for LWT control(PT859 option)

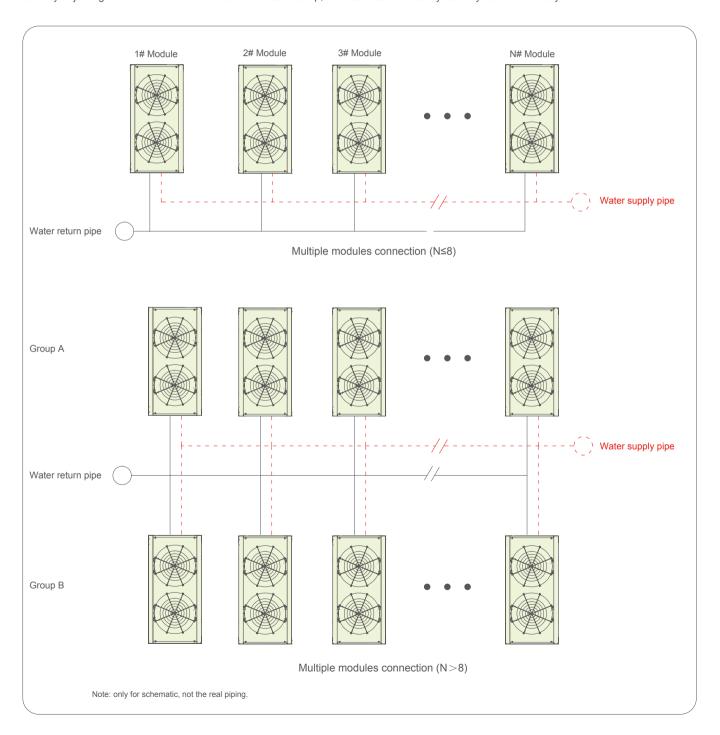
Water Connection Layout Recommendation

Classified by the arrangment of water supply and return pipes, water system for air conditioning could be direct return or reversed return.

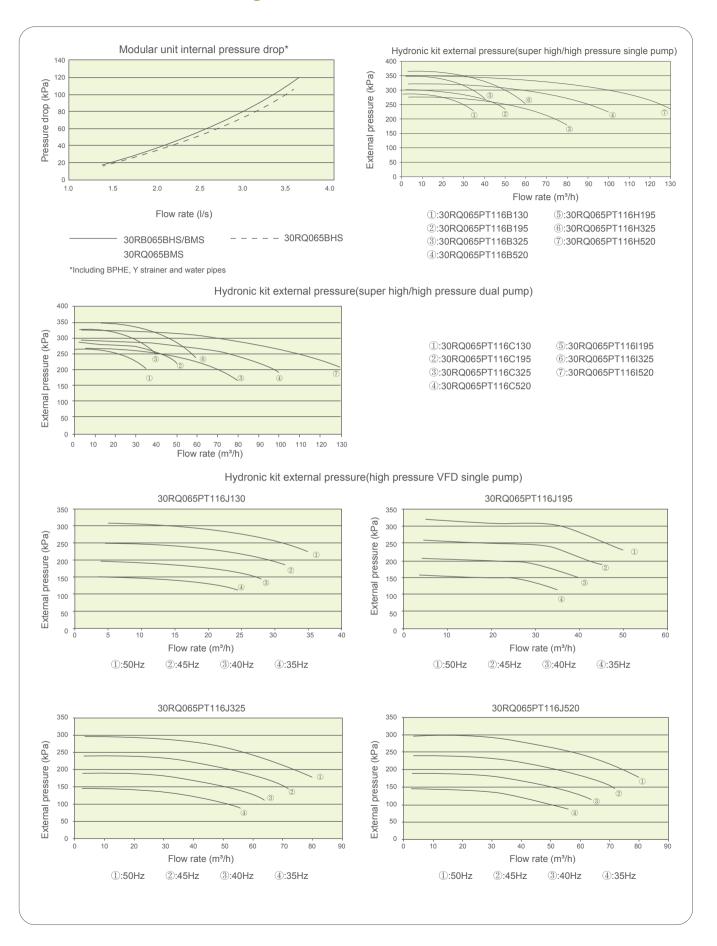
Direct return system: water flow is first-in first-out, so each module will have different pipe length and pressure drop. The direct return system advantages in its simple layout, easy installation and low cost. Due to the different water loop length of each module, the flow regulation valve for each is required to balance the pressure, which ensures the appropriate flow allocation.

Reversed return system: water travels almost the same distance for each module connected in parallel. Each module will have uniform flow rate thanks to the similar water pressure drop. It is always recommended to apply reversed return water system (see below schematics for 30RB/RQ065 multiple module operation).

If not more than 8 modules are connected, Carrier recommends reversed return water system for balancing water allocation. For those jobsites with limited space, direct return water system sometimes is considered and the flow regulation valve must be installed in each module water loop to uniform flow rate. Moreover, when defining the pump size, customer needs to take full account of the extra pressure drop generated by adjusting valve. If more than 8 modules are stacked up, reversed return water system layout is mandatory.



Water Side Performance Diagram



Minimum Water Loop Volume

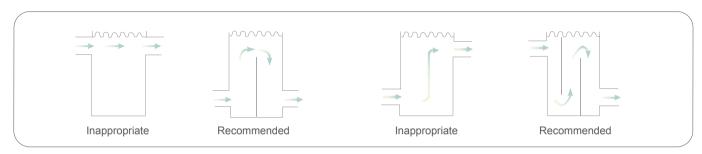
For better control of leaving water temperature, the water loop minimum capacity is given by the formula:

Capacity = CAP (kW) × N Liters

CAP: Unit's nominal cooling capacity

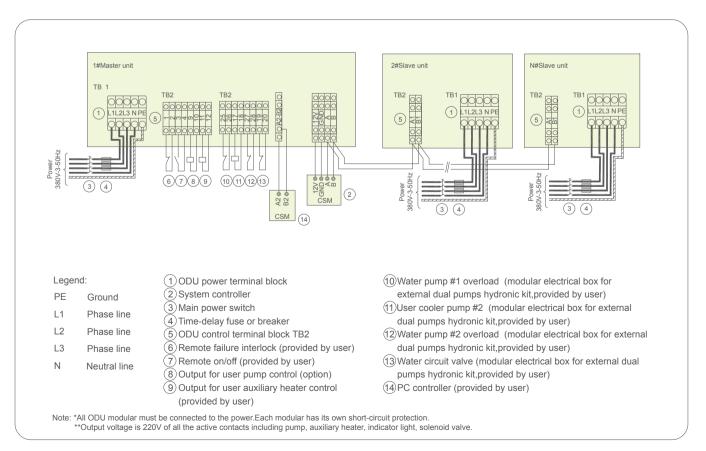
Application		N
Comfort air conditioning	30RB/RQ	3.5
Process cooling	30RB/RQ	Should be greater than 3.5 for better water temperature control

It is often necessary to add a buffer water tank to the circuit in order to achieve the required volume. The tank must itself be internally baffled in order to ensure proper mixing of the liquid (water or brine). Refer to the examples below.

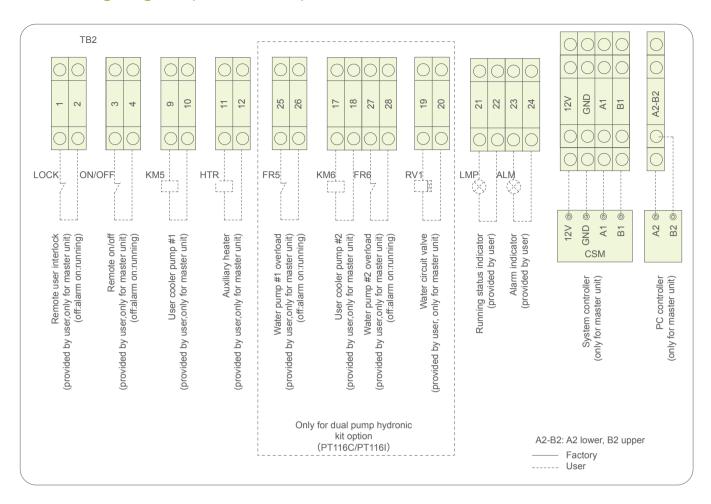


Field wiring diagram (modular unit)

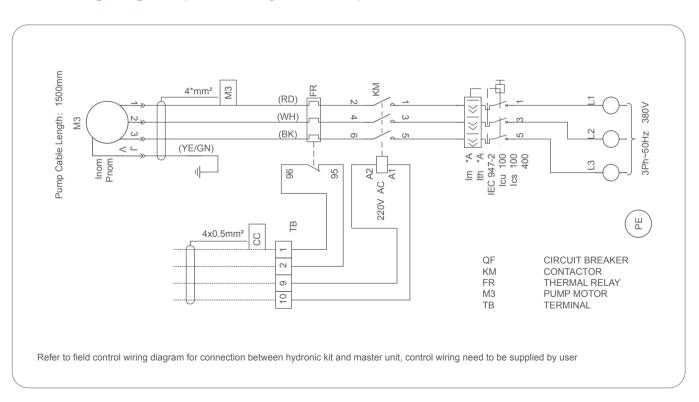
30RB/RQ



Field wiring diagram (modular unit)



Field wiring diagram (external hydronic kit)





Carrier improves the world around us; Carrier improves people's lives; our products and services improve building performance; our culture of improvement will not allow us to rest when it comes to the environment.





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