

RITCHAI TECH IS MANUFACTURER OF

CHILLERS

In the industrail



Ritchai Tech

is a designer & industrial chiller manufacture.

Our product for example chiller (CH), heat pump (HP)
Etc. Our designed chillers speapication to your require
and appropriate to use.

www.ritchaitech.co.th

Tel. 02-150-1949

Fax. 02-150-1950

COMPANY PROFILE



General Information:	Ritchai tech. Co., Ltd.
Registration Date:	4 August 2016
Company Directors:	Mr. Sayan Nakkiaew Mr. Rittichai Nakkiaew Mr. Nattawut Nakkiaew
Location:	55/48 Biggerland Klong 9, Wat Lanna Alley, Lamlukka Rd, Lamlukka Sub-district, Lamlukka District, Pathum Thani Province 12150 Thailand
Telephone:	0-2150-1949
Fax:	0-2150-1950
Website:	www.ritchaitech.co.th
E-mail:	info@ritchaitech.co.th

ข้อมูลทั่วไป:	บริษัท ฤทธิชัย เทค จำกัด
วันที่จดทะเบียน:	4 สิงหาคม พ.ศ. 2559
กรรมการบริษัท:	นายสายันต์ นาคเขียว นายฤทธิชัย นาคเขียว นายณัฐวุฒิ นาคเขียว
ที่ตั้ง:	55/48 โครงการบิกเกอร์แลนด์คลอง 9 ซอยวัดลานนา ถนนลำลูกกา ตำบลลำลูกกา อำเภอลำลูกกา จังหวัดปทุมธานี 12150
โทรศัพท์:	0-2150-1949
โทรสาร:	0-2150-1950
เว็บไซต์:	www.ritchaitech.co.th
อีเมล:	info@ritchaitech.co.th

จุดเด่นของเรา

- ☒ จำหน่ายเครื่องчилเลอร์และระบบทำความเย็น
- ☒ ออกแบบเครื่องчилเลอร์ตามความต้องการของลูกค้า
- ☒ ประกอบเครื่องчилเลอร์ได้ไม่จำกัดรูปแบบ
- ☒ ระบบงานบริการแบบครบวงจร

Chiller

Chiller Solutions from Ritchai Tech, we help you respond to your building efficiency needs by providing the widest variety water and air-cooled industrial and commercial chillers on the market. From reducing your facility's carbon footprint, to delivering a healthier indoor environment and cutting energy costs, we create smaller, more energy efficient chillers tailored to fit almost any comfort or process cooling application – even heating.

AIR ❄️ WATER COOLED CHILLER



Industrial chiller selection

Important specifications to consider when searching for industrial chillers include the total life cycle cost, the power source, chiller IP rating, chiller cooling capacity, evaporator capacity, evaporator material, evaporator type, condenser material, condenser capacity, ambient temperature, motor fan type, noise level, internal piping materials, number of compressors, type of compressor, number of fridge circuits, coolant requirements, fluid discharge temperature, and COP (the ratio between the cooling capacity in RT to the energy consumed by the whole chiller in KW). For medium to large chillers this should range from 3.5 to 7.0, with higher values meaning higher efficiency. Chiller efficiency is often specified in kilowatts per refrigeration ton (kW/RT). Process pump specifications that are important to consider include the process flow, process pressure, pump material, elastomer and mechanical shaft seal material, motor voltage, motor electrical class, motor IP rating and pump rating. If the cold-water temperature is lower than -5°C , then a special pump needs to be used to be able to pump the high concentrations of ethylene glycol. Other important

Specifications include the internal water tank size and materials and full load current. Control panel features that should be considered when selecting between industrial chillers include the local control panel, remote control panel, fault indicators, temperature indicators, and pressure indicators. Additional features include emergency alarms, hot gas bypass, city water switchover, and casters. Demountable chillers are also an option for deployment in remote areas and where the conditions may be hot and dusty.



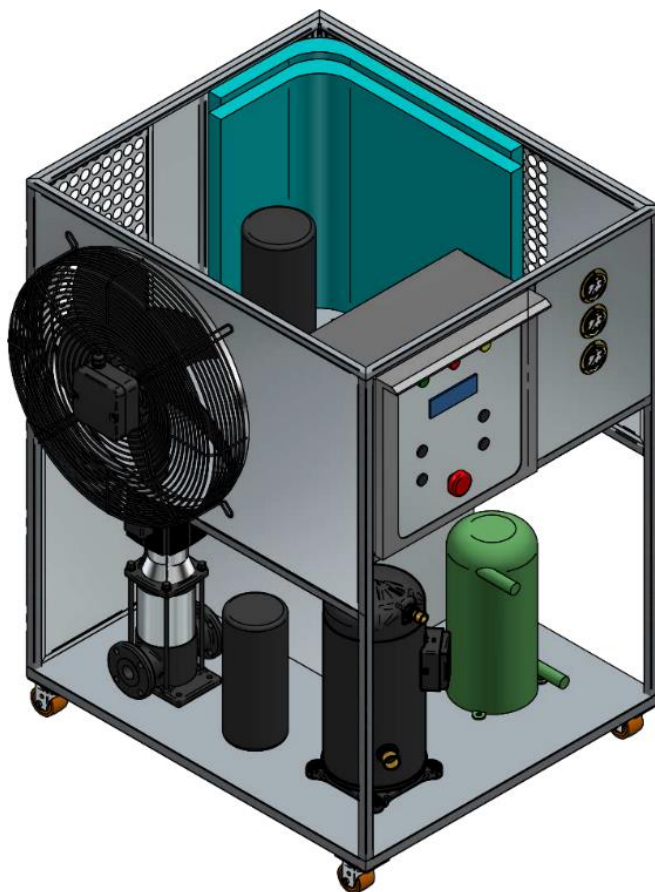
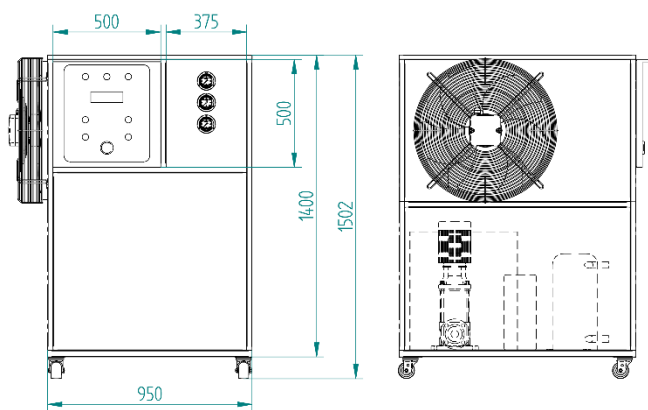
ABOUT US

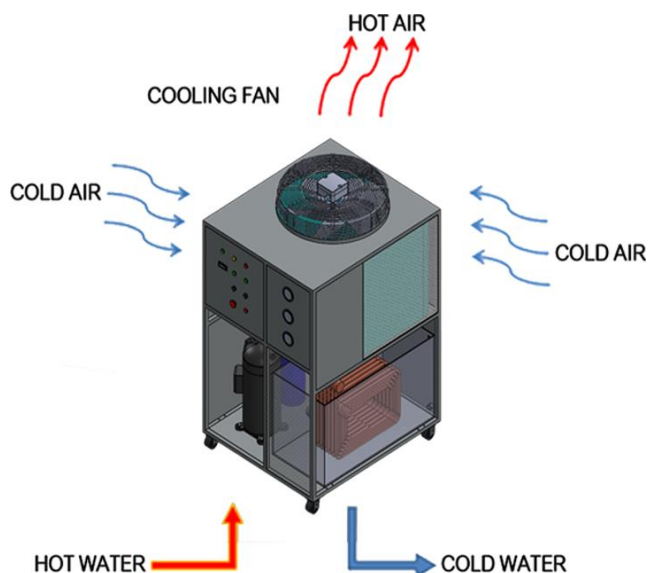
The Company was founded by Mr. Sayan Nakkiaew with experience in chillers and air condition system for more than 35 years. The business began with installation and maintenance of air conditioner and cooling system for over 15 years. Then the activities were expanded to manufacture industrial chiller, including the opening of a chiller production shop named Ritchai Cool Engineering Service to manufacture and assemble the chiller according to purchase orders since the year 2000.

The highlight of the product

The highlight of the product is the structure made of Stainless Steel 304. In those days, most chillers remained spray-paint metal. Besides, distinctive features include the design of cooling coil and unique copper pipe system of Ritchai Cool Engineering Service as well as standard equipment under the slogan: Choose Quality Choose RTC, which have always received good response from the customers.

Subsequently, the establishment of an additional company was registered on 4 August 2016 under the name of Ritchai Tech Co., Ltd. Including the opening of a new chiller factory for increasing the capacity to produce chillers and standards higher than ever under the new slogan, i.e. Quality than Quantity.





Air Cooled Chiller

Water chiller using air-cooled condenser. The advantages of air-cooled chiller are fast, easy installation, relatively low burden of care, suitability for the factory or place with water quality unfavorable for water-cooled condenser system.



Water Cooled Chiller

Water chiller using water-cooled condenser. The advantages of water-cooled chiller include better cooling performance than air system, less noise while functioning than air system. Meanwhile, the disadvantages of water system include the required cooling tower system and water supply for water-based cooling, including the necessity to take account of the quality of cooling water of condenser.



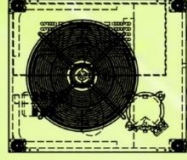
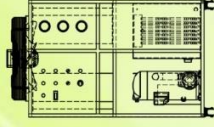
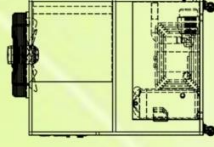
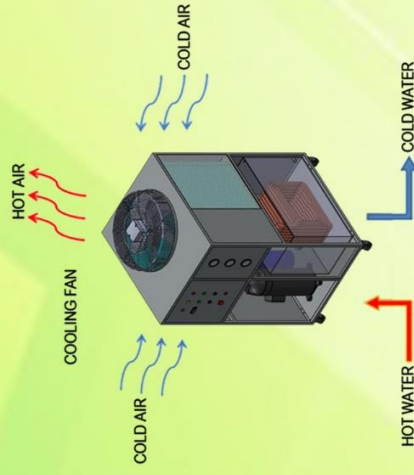
Chiller by RITCHAI TECH

- 1 High performance, long working time
Structure made of Stainless Steel 304, compact size
Easy to move
- 2 Water tank made of Stainless Steel with insulation
Ability to control cold water temperature range from 25-5 degrees Celsius
(Depending on the load)
- 3 Use of Copeland, Bitzer and Mitsubishi Scroll compressor
Water pump of the type: flow rate and high pressure
- 4 No Cooling Tower System required
(Air-cooled chiller)
- 5 Low level of noise while the machine is working
(Water-cooled chiller)
- 6 Waterproof Main Distribution Board*
Availability of stainless steel coil or stainless steel water pump for special applications*

AIR COOLED CHILLER

MACHINE MODEL : RT1A - RT60A

COOLING CAPACITY : 1 - 60 TON



คุณสมบัติมาตรฐาน...

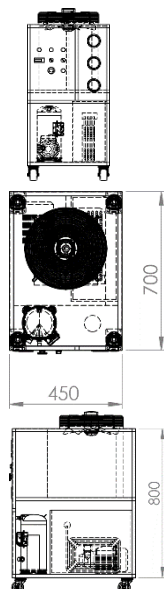
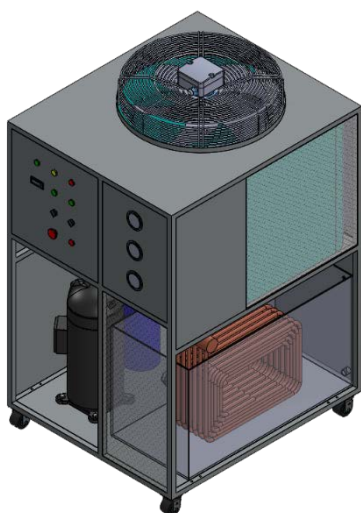
เพื่อที่สุดของคุณภาพการผลิตในอุตสาหกรรม

ENERGY EFFICIENCY
In Industrial Processes

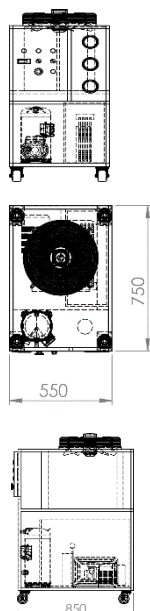
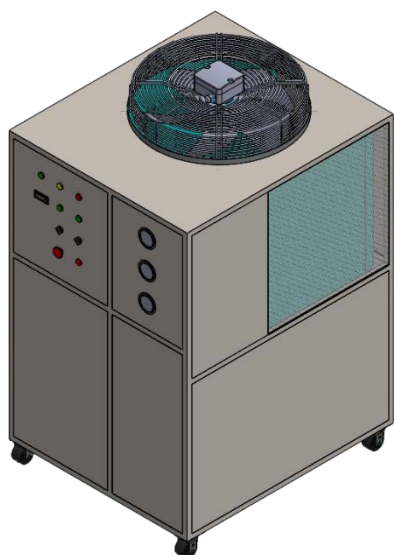
SPECIFICATION

WCH	RT1A	RT1.5A	RT2A	RT3A	RT5A	RT7.5A	RT10A	RT15A	RT20A	RT30A	RT40A	RT50A	RT60A
Power Supply	220/1/50		380/3/50										
PERFORMANCE													
Refrigerant	R-22 / R-407C / R-410A												
Cooling capacity	12,000	18,000	24,000	38,000	60,900	92,000	123,000	184,000	246,000	400,000	500,000	620,000	750,000
Cooling capacity	1	1.5	2	3.1	5	7.6	10	15	24	33	42	52	63
COMPRESSOR													
Compressor Type	LG	LG	Copeland / LG	Copeland ZR45	Copeland ZR72	Copeland ZR108	Copeland ZR144	Copeland ZR108 x 2	Copeland ZR144 x 2	Copeland ZR250 x 2	Copeland ZR310 x 2	Copeland ZR380	Copeland ZR310 x 3
Compressor Power	1	1.5	2	4	6	9	12	18	24	33	42	52	63
Condenser	Type	Cond Pre-Coated Fin and Tube with Fan OR water condenser Shell and Tube											
Evaporator	Type	Coil in Tank System / Shell and Tube System											
PUMP													
Pump Power	Hp	0.5	1		2		3						
Flowrate	L/min	20-90	20-120		100-280								
Pressure	Bar	1-2		1		1 1/2	1 1/2	2	2	2	3	3	3
Connection Size	Inch	1/2	1/2	1/2	1	1 1/2	1 1/2	2	2	2	3	3	3
TANK													
Capacity	Litre	40		70	120	200	300	NO TANK					
SIZE													
W	cm	55	65	82	95	100	130	180					
L	cm	78	85	90	110	195	300	215					
H	cm	115	130	165	175	215	215	215					

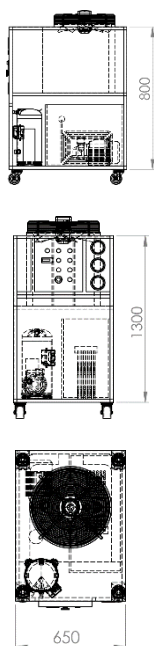
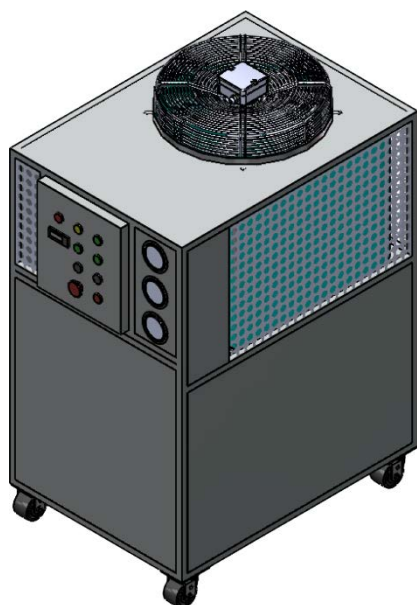
** ขนาดเครื่องอาจมีการเปลี่ยนแปลงขึ้นอยู่กับความต้องการของลูกค้า และอะไหล่ที่ใช้



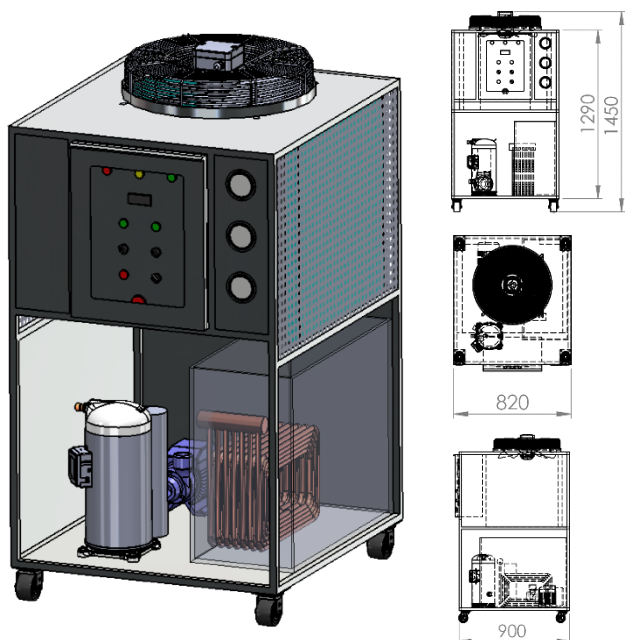
Model	RT 1 A / RT 1.5 A	
Dimension (W x –L x H)	55x78x115	
Capacity (BTU)**	12,000 BTU / 18,000 BTU	
Refrigeration Type	R-22 / R-407C / R-410A	
Condenser	Air-cool	
Pump (HP.)	0.5	
Water Tank (L)	40	
Protections	Compressor	LG
	Pump	Overload Relay
	Refrigerant Circuit	High and low pressure controller
	Cooling Water	By-pass valve
	Power (Voltage)	220V 1P 50HZ



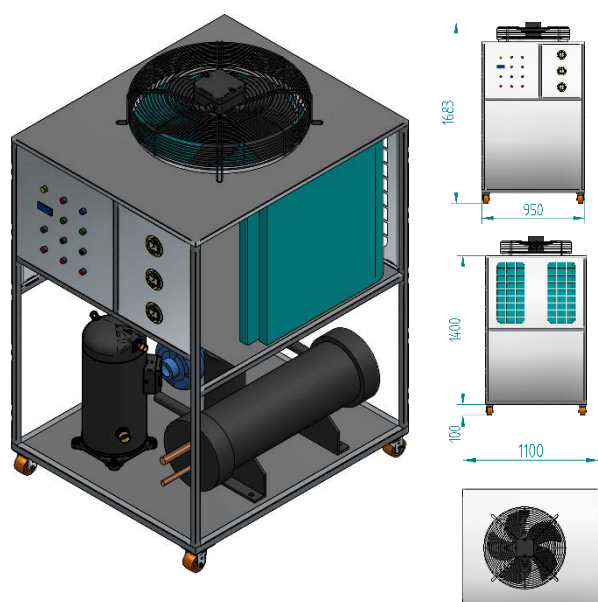
Model	RT 2 A	
Dimension (W x L x H)	55x78x115	
Capacity (BTU)**	24,000 BTU	
Refrigeration Type	R-22 / R-407C / R-410A	
Condenser	Air-cool	
Pump (HP.)	1	
Water Tank (L)	40	
Protections	Compressor	Copeland / LG
	Pump	Overload Relay
	Refrigerant Circuit	High and low pressure controller
	Cooling Water	By-pass valve
	Power (Voltage)	380V 3P 50HZ



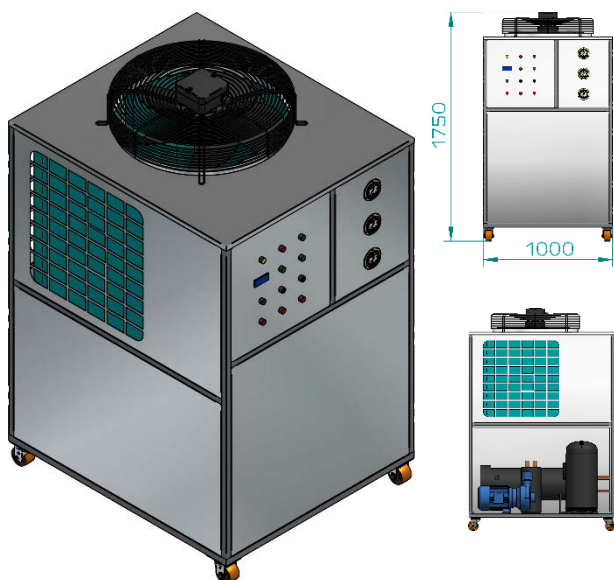
Model	RT 3 A	
Dimension (W x L x H)	65x85x130	
Capacity (BTU)**	38,000 BTU	
Refrigeration Type	R-22 / R-407C / R-410A	
Condenser	Air-cool	
Pump (HP.)	1	
Water Tank (L)	70	
Protections	Compressor	Copeland ZR 45
	Pump	Overload Relay
	Refrigerant Circuit	High and low pressure controller
	Cooling Water	By-pass valve
	Power (Voltage)	380V 3P 50HZ



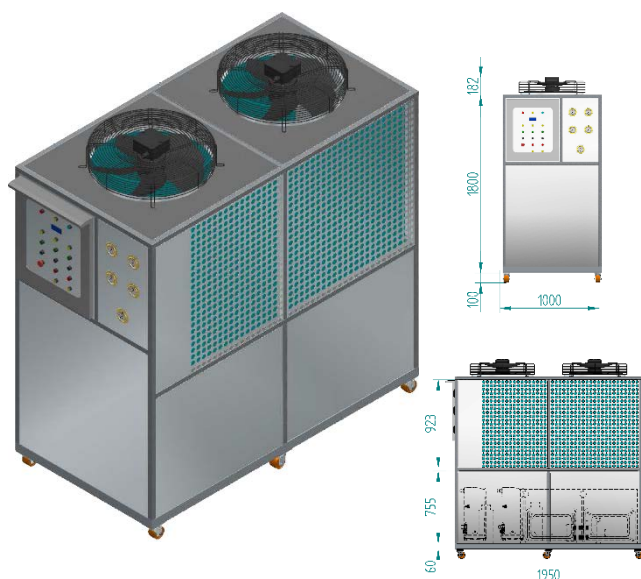
Model	RT 5 A
Dimension (W x L x H)	82x90x165
Capacity (BTU)**	60,900 BTU
Refrigeration Type	R-22 / R-407C / R-410A
Condenser	Air-cool
Pump (HP.)	1
Water Tank (L)	120
Protections	Compressor
	Copeland ZR 72
	Pump
	Overload Relay
	Refrigerant Circuit
	High and low pressure controller
	Cooling Water
	By-pass valve
Power (Voltage)	380V 3P 50HZ



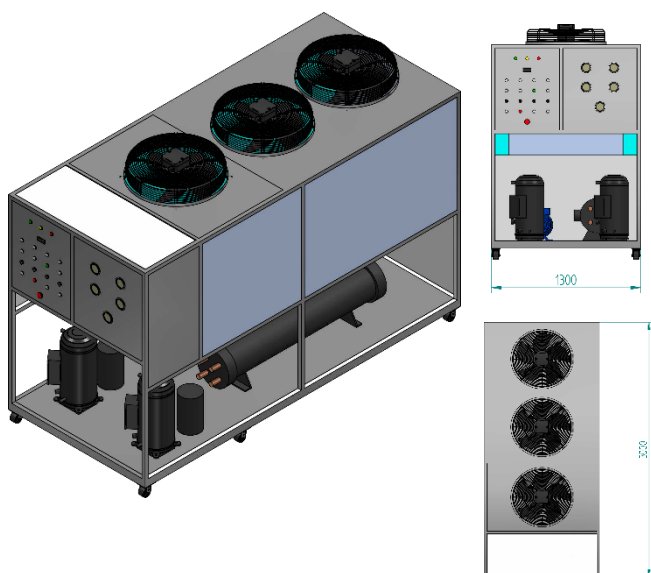
Model	RT 7.5 A / RT 10 A
Dimension (W x L x H)	95x110x175
Capacity (BTU)**	92,000 BTU / 123,000 BTU
Refrigeration Type	R-22 / R-407C / R-410A
Condenser	Air-cool
Pump (HP.)	2
Water Tank (L)	200
Protections	Compressor
	Copeland ZR 108 / 144
	Pump
	Overload Relay
	Refrigerant Circuit
	High and low pressure controller
	Cooling Water
	By-pass valve
Power (Voltage)	380V 3P 50HZ



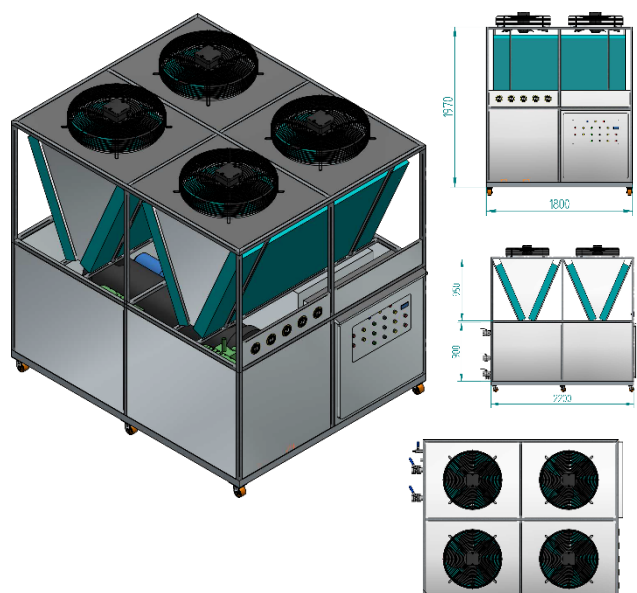
Model	RT 15 A
Dimension (W x L x H)	100x195x215
Capacity (BTU)**	184,000 BTU
Refrigeration Type	R-22 / R-407C / R-410A
Condenser	Air-cool
Pump (HP.)	2
Water Tank (L)	300
Protections	Compressor
	Copeland ZR108 x 2
	Pump
	Overload Relay
	Refrigerant Circuit
	High and low pressure controller
	Cooling Water
	By-pass valve
Power (Voltage)	380V 3P 50HZ



Model	RT 20 A
Dimension (W x L x H)	100x195x215
Capacity (BTU)**	246,000 BTU
Refrigeration Type	R-22 / R-407C / R-410A
Condenser	Air-cool
Pump (HP.)	2
Water Tank (L)	300
Protections	Compressor Copeland ZR144 x 2
	Pump Overload Relay
	Refrigerant Circuit High and low pressure controller
	Cooling Water By-pass valve
	Power (Voltage) 380V 3P 50HZ



Model	RT 30 A / RT 40 A
Dimension (W x L x H)	130x300x215
Capacity (BTU)**	400,000 / 500,000 BTU
Refrigeration Type	R-22 / R-407C / R-410A
Condenser	Air-cool
Pump (HP.)	3
Water Tank (L)	NO TANK
Protections	Compressor Copeland ZR250 x 2 / ZR310 x 2
	Pump Overload Relay
	Refrigerant Circuit High and low pressure controller
	Cooling Water By-pass valve
	Power (Voltage) 380V 3P 50HZ



Model	RT 50 A / RT 60 A
Dimension (W x L x H)	130x300x215
Capacity (BTU)**	620,000 / 750,000 BTU
Refrigeration Type	R-22 / R-407C / R-410A
Condenser	Air-cool
Pump (HP.)	3
Water Tank (L)	NO TANK
Protections	Compressor Copeland ZR380 / 310 x 3
	Pump Overload Relay
	Refrigerant Circuit High and low pressure controller
	Cooling Water By-pass valve
	Power (Voltage) 380V 3P 50HZ

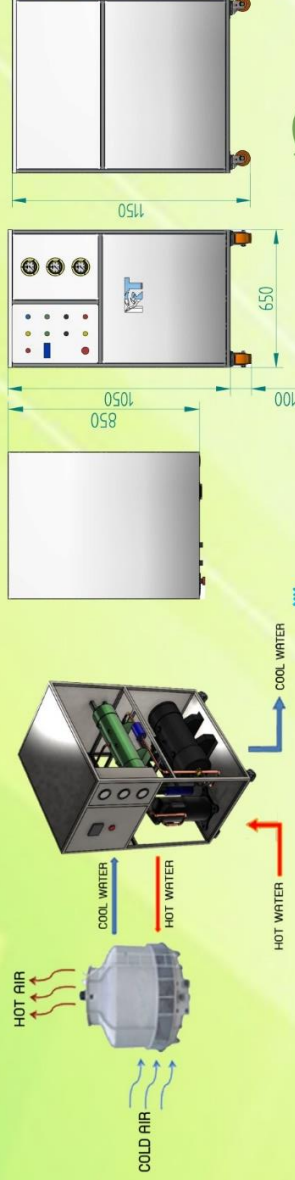
RT Series

Water-Cooled Chiller

WATER COOLED CHILLER

MACHINE MODEL : RT1W - RT60W

COOLING CAPACITY : 1 - 60 TON



ENERGY EFFICIENCY
in Industrial Processes



THINK GREEN

คุณสมบัติมาตรฐาน...

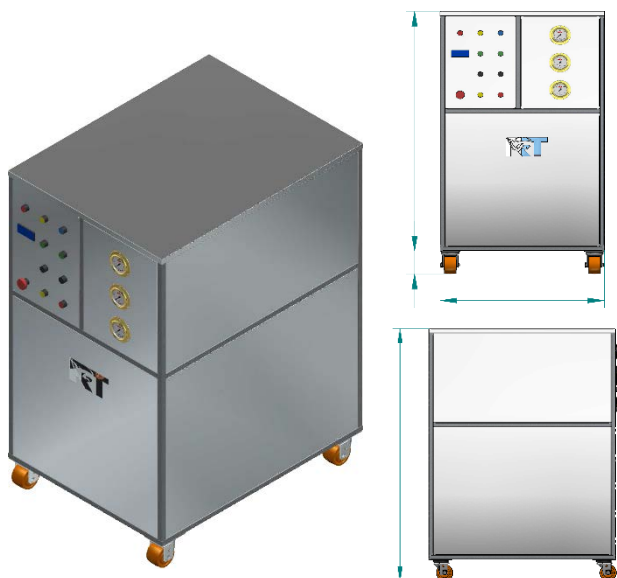
เพื่อที่สุดของคุณภาพการผลิตในอุตสาหกรรม



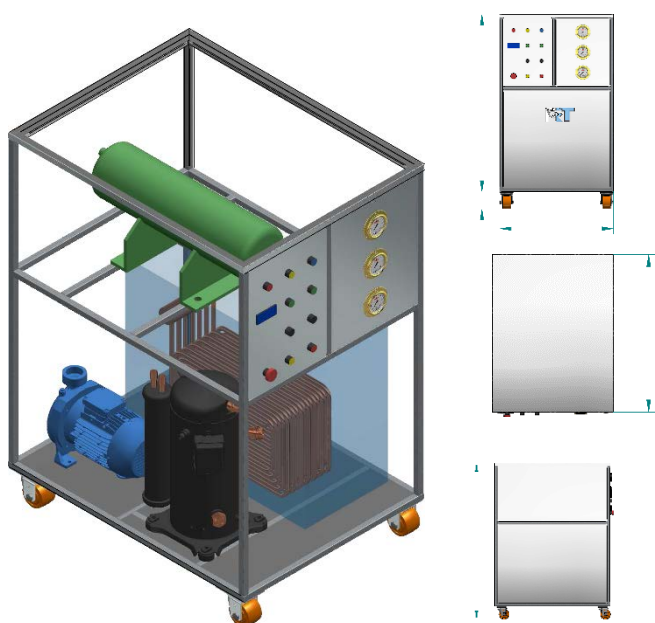
SPECIFICATION

WCH	RT1W	RT1.5W	RT2W	RT3W	RT5W	RT7.5W	RT10W	RT15W	RT20W	RT30W	RT40W	RT50W	RT60W
Power Supply	220/1/50		380/3/50										
PERFORMANCE													
Refrigerant	R-22 / R-407C / R-410A												
Cooling capacity	12,000	18,000	24,000	38,000	60,900	92,000	123,000	184,000	246,000	400,000	500,000	620,000	750,000
Cooling capacity	1	1.5	2	3.1	5	7.6	10	15	24	33	42	52	63
COMPRESSOP													
Compressor Type	LG	LG	Copeland / LG	Copeland ZR45	Copeland ZR72	Copeland ZR108	Copeland ZR144	Copeland ZR108 x 2	Copeland ZR144 x 2	Copeland ZR250 x 2	Copeland ZR310 x 2	Copeland ZR380	Copeland ZR310 x 2
Compressor Power	1	1.5	2	4	6	9	12	18	24	33	42	52	63
Condenser	Cond Pre-Coated Fin and Tube with Fan OR water condenser Shell and Tube												
Evaporator	Coil in Tank System / Shell and Tube System												
PUMP													
Pump Power	0.5			1			2			3			
Flowrate	20-90		20-120		100-280								
Pressure			1-2		1	1	1 1/2	2	2	2	3	3	3
Connection Size	1/2	1/2	1/2	1	1	1 1/2	1 1/2	2	2	2	3	3	3
TANK													
Capacity	40		70	120	200	300	NO TANK						
SIZE													
W	55		65	70	95	100	130	130	130	130	130	130	130
L	78		85	88	110	195	200	200	250	250	250	250	250
H	115		115	140	145	175	175	175	175	175	175	175	175

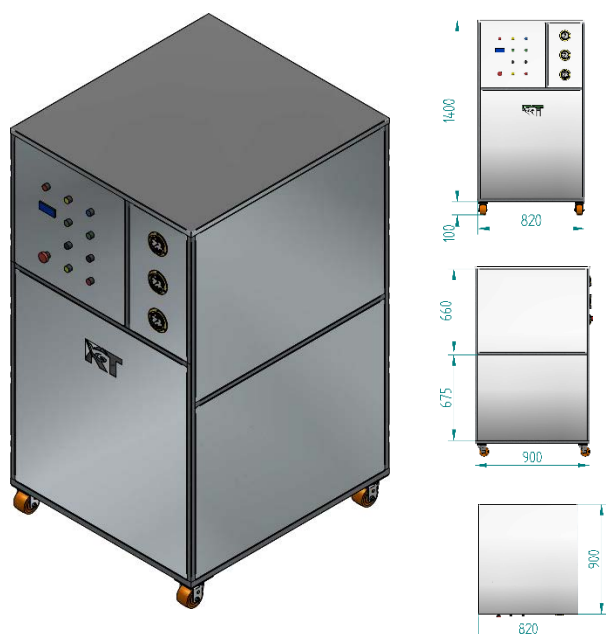
** ขนาดเครื่องอาจมีการเปลี่ยนแปลงขึ้นอยู่กับความต้องการของลูกค้า และอะไหล่ที่ใช้



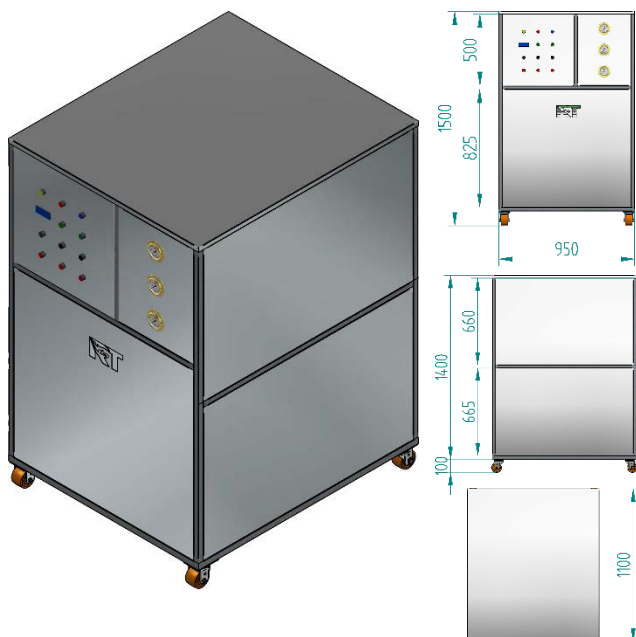
Model	RT 1 W / RT 1.5 W / RT 2 W
Dimension (W x L x H)	55x78x115
Capacity (BTU)**	12,000 / 18,000 / 24,000 BTU
Refrigeration Type	R-22 / R-407C / R-410A
Condenser	Air-cool
Pump (HP.)	0.5 / 1
Water Tank (L)	40
Protections	Compressor
	Copeland / LG
	Pump
	Overload Relay
	Refrigerant Circuit
	High and low pressure controller
	Cooling Water
	By-pass valve
Power (Voltage)	220V 1P 50Hz. / 380V 3P 50Hz.



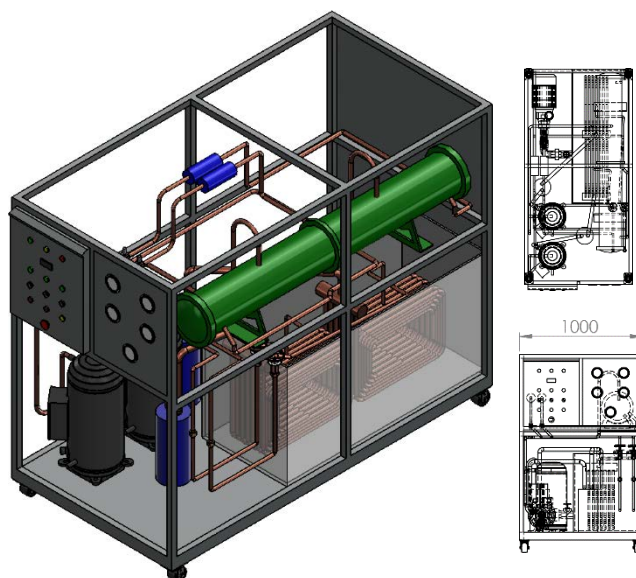
Model	RT 3 W
Dimension (W x L x H)	65x85x115
Capacity (BTU)**	38,000 BTU
Refrigeration Type	R-22 / R-407C / R-410A
Condenser	Air-cool
Pump (HP.)	1
Water Tank (L)	70
Protections	Compressor
	Copeland ZR45
	Pump
	Overload Relay
	Refrigerant Circuit
	High and low pressure controller
	Cooling Water
	By-pass valve
Power (Voltage)	380V 3P 50HZ



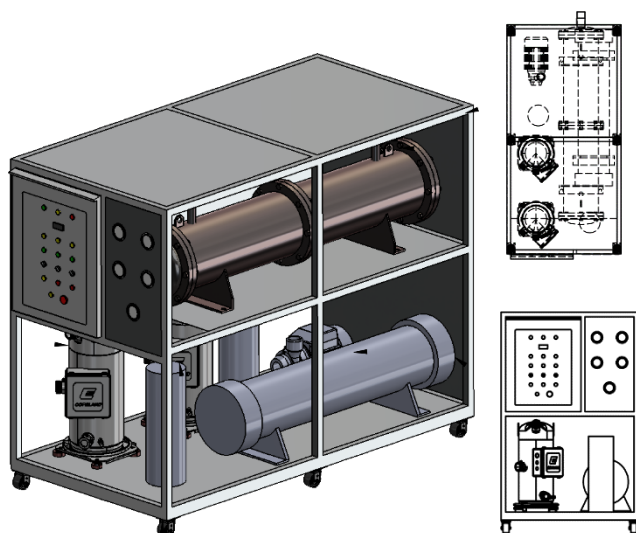
Model	RT 5 W
Dimension (W x L x H)	70x88x140
Capacity (BTU)**	60,900 BTU
Refrigeration Type	R-22 / R-407C / R-410A
Condenser	Air-cool
Pump (HP.)	1
Water Tank (L)	120
Protections	Compressor
	Copeland ZR72
	Pump
	Overload Relay
	Refrigerant Circuit
	High and low pressure controller
	Cooling Water
	By-pass valve
Power (Voltage)	380V 3P 50HZ



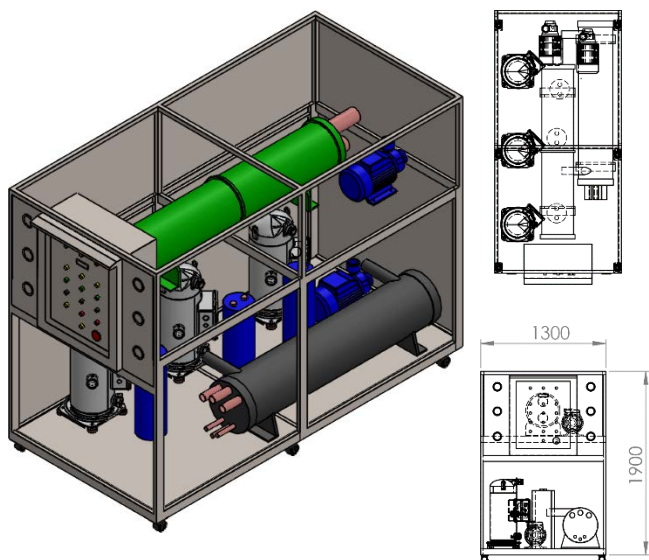
Model	RT 7.5 W / RT 10 W	
Dimension (W x L x H)	95x110x145	
Capacity (BTU)**	92,000 / 123,000 BTU	
Refrigeration Type	R-22 / R-407C / R-410A	
Condenser	Air-cool	
Pump (HP.)	2	
Water Tank (L)	200	
Protections	Compressor	Copeland ZR108 / 144
	Pump	Overload Relay
	Refrigerant Circuit	High and low pressure controller
	Cooling Water	By-pass valve
	Power (Voltage)	380V 3P 50HZ



Model	RT 15 W / RT 20 W	
Dimension (W x L x H)	100x195x175	
Capacity (BTU)**	184,000 / 246,000 BTU	
Refrigeration Type	R-22 / R-407C / R-410A	
Condenser	Air-cool	
Pump (HP.)	2	
Water Tank (L)	300	
Protections	Compressor	Copeland ZR108x2 / 144x2
	Pump	Overload Relay
	Refrigerant Circuit	High and low pressure controller
	Cooling Water	By-pass valve
	Power (Voltage)	380V 3P 50HZ

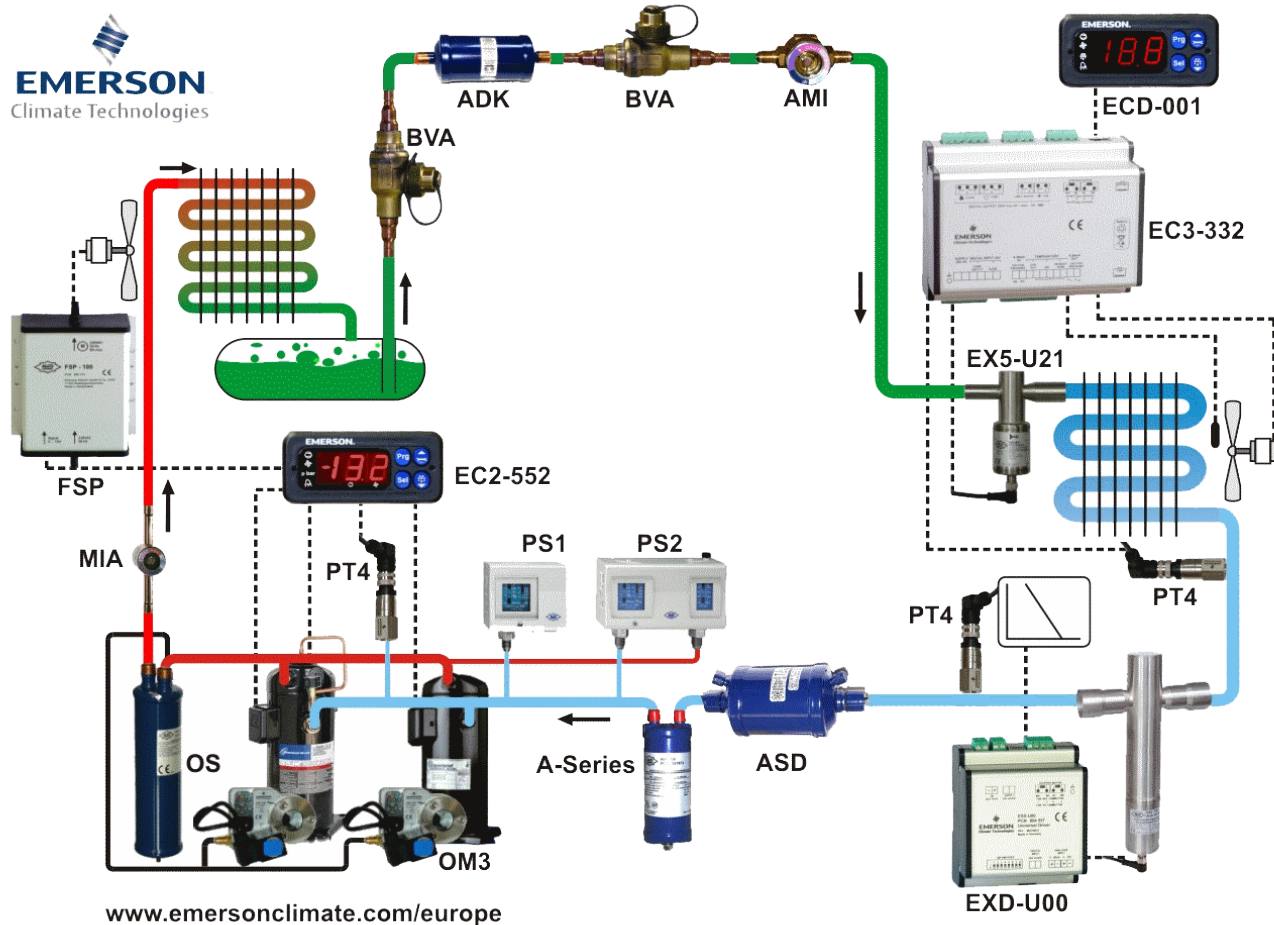


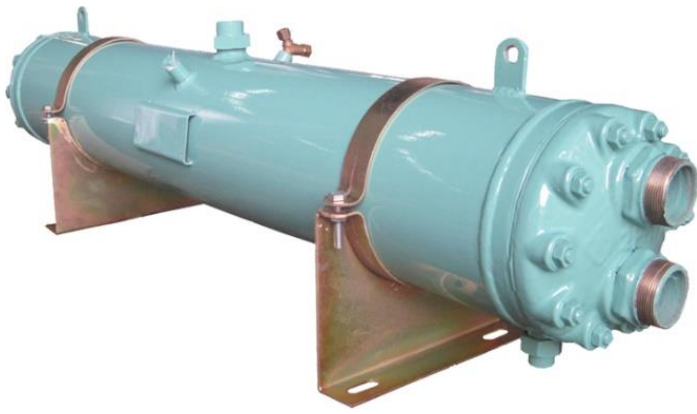
Model	RT 30 W / RT 40 W	
Dimension (W x L x H)	130x200x175	
Capacity (BTU)**	400,000 / 500,000 BTU	
Refrigeration Type	R-22 / R-407C / R-410A	
Condenser	Air-cool	
Pump (HP.)	3	
Water Tank (L)	NO TANK	
Protections	Compressor	Copeland ZR250x2 / 310x2
	Pump	Overload Relay
	Refrigerant Circuit	High and low pressure controller
	Cooling Water	By-pass valve
	Power (Voltage)	380V 3P 50HZ



Model	RT 50 W / RT 60 W
Dimension (W x L x H)	130x250x175
Capacity (BTU)**	620,000 / 750,000 BTU
Refrigeration Type	R-22 / R-407C / R-410A
Condenser	Air-cool
Pump (HP.)	3
Water Tank (L)	NO TANK
Compressor	Copeland ZR380 / 310x3
Pump	Overload Relay
Refrigerant Circuit	High and low pressure controller
Cooling Water	By-pass valve
Power (Voltage)	380V 3P 50HZ

Protections





SHELL AND TUBE HEAT EXCHANGER

The advantages of shell and tube heat exchanger are the ability to pull. This device is commonly used in the cooling industry or lubricant cooling system.

Plate Heat Exchanger

Plate Heat Exchanger is the lining up of several plate heat exchangers so that each liquid flow through the gap between the plates.



HEATER

Water heater based on the principles of heating coil with Immersion Heater in water tank. Availability of digital hot water temperature controller and float switch as protections in case of hot water in the tank or too little water



BOILER

Water heater based on the principles of gas boiler with built-in boiler to heat the water and store it in the tank. Availability of digital hot water temperature controller and float switch as protections in case of hot water in the tank or too little water.



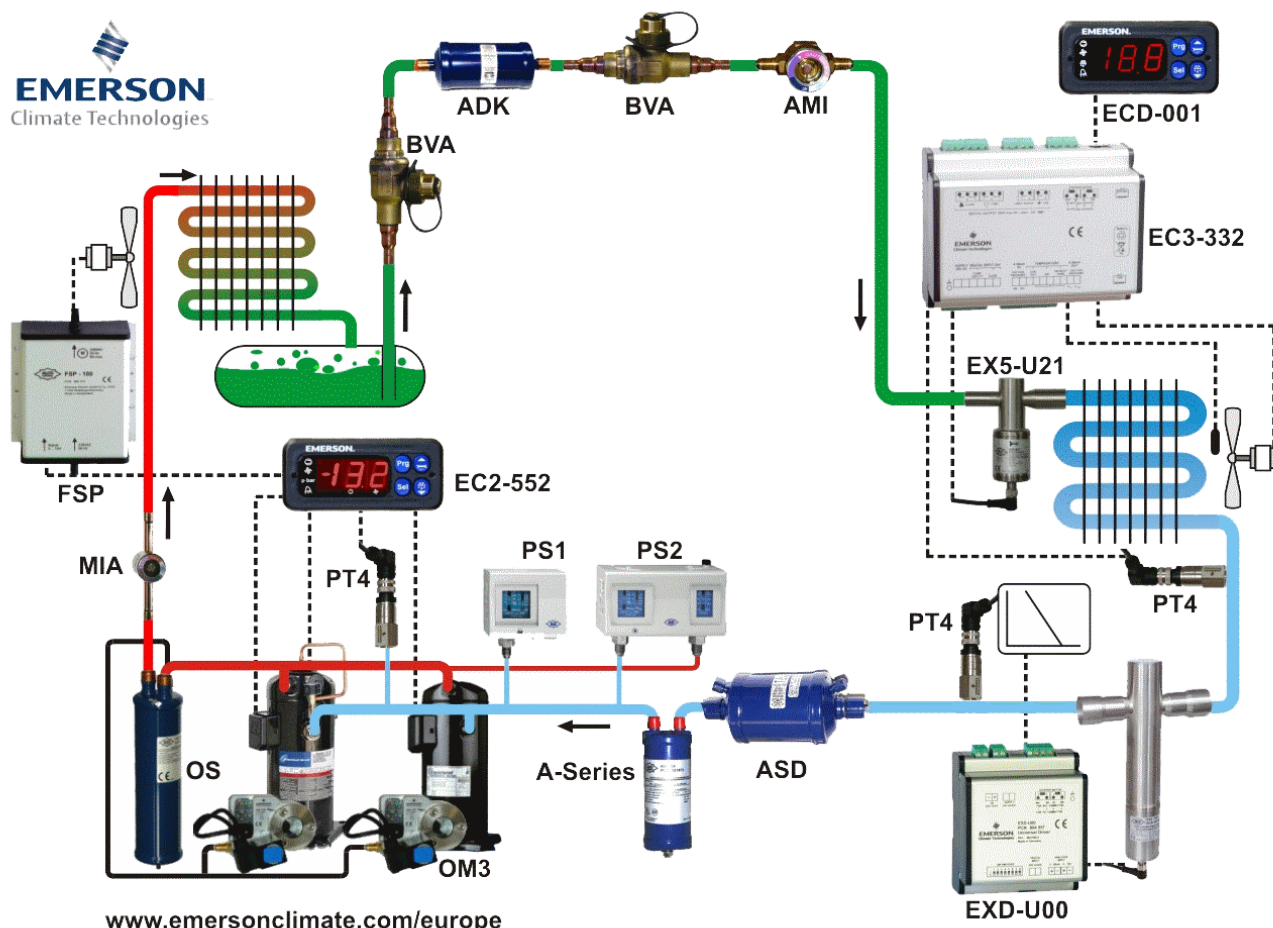
HEAT EXCHANGER

Heat exchanger to make heat pass from one liquid to another so as to increase, reduce the temperature, which is widely used in the food industry or air conditioning system

HEAT PUMP

Heat Pump's a device used to transfer low temperature heat from one source (Heat Source) to heat up. Then sent to the desired source with high heat (Heat Sink)





Project Site References





Ritchai Tech Co.,Ltd.
55/48 M.3 T. Lamlukka A. Lamlukka
Pathum Thani 12150 THAILAND
02-150-1949 www.ritchaitech.co.th



WEBSITE

บริษัท ฤทธิชัย เทค จำกัด จดทะเบียนวันที่ 04 สิงหาคม 2559 ตั้งอยู่ที่ 5/48 โครงการบิกเกอร์แลนด์คลอง 9 ซอยวัดลานนา ถนนลำลูกกา อำเภอลำลูกกา จังหวัดปทุมธานี 12150 โทร. 02-150-1949 โทรสาร 02-150-1950 เว็บไซต์ www.ritchaitech.co.th เลขประจำตัวผู้เสียภาษี 0135559014841

Ritchai Tech Co.,Ltd. Registration date on 04 August' 2016, location 55/48 Biggerland Klong 9, Wat Lanna Alley, Lamlukka Rd., Lamlukka, Lamlukka Pathum Thani 12150 Tel. 02-150-1949 Fax. 02-150-1950 Website www.ritchaitech.co.th Tax ID 0135559014841