



Cooling Capacity
95kW - 1920kW

Heating Capacity
92kW - 2384kW

HITACHI

Modular Chiller Solutions

Giving you complete control



Hitachi and Temperzone:

Combining to offer Australia and New Zealand the most comprehensive range of air conditioning technology.

The benefits of our unique modular design

Projects change and develop over time. In order to keep up you must be able to rely on your selected products.

Hitachi with its modular design is an ideal solution for quick compact and space adaptable installations whilst not limiting your ambitions for high efficiency. And with up to 116 possible module combinations for both Air and Water Cooled units, matching your project development couldn't be easier.

Intelligent controls

You require control. With Hitachi's Modular units you can be confident of optimising the control of the chiller, saving energy and efficiently interfacing with Building Management Systems. Current Limiter settings, second Water Outlet Temperature setting (4 for Heat Pump), Night Shift mode along Modbus and BACNet Gateways will provide your site customisation. Whilst dynamic sequencing of modules for priority, operation time, backup, maintenance or module failure automatically provides continuity.

Price, performance and space flexibility

What drives your project, High efficiency? Reduced initial costs? Or is space flexibility the determining factor? With Hitachi's Samurai Modular Chiller range you can specify your exact project requirements by configuring a chiller with 1 or up to 8 modules. Two operating modes selectable at commissioning allow the installation's performance to focus on either high efficiency or high accuracy outlet water temperature. Alternatively, spread the cost of investment and add modules to match your project phases.

Continuous operational safety

Safety first. Each module has its own compressor, regulators and refrigerant circuit. Should a module fail, the remaining modules maintain operational continuity, whilst Hitachi's unique Dynamic Back-up Control automatically starts any standby modules. Smart defrost, automatic restart after power failure, anti-freeze pump function, automatic fan on/off cycling for snow protection, remote alarms all enhance the security of supply.



Screw Chillers

Modular Chiller Features



Screw Chillers

Control

- LCD Touch Panel
- BACnet Gateway
- ModBus Gateway



Optional Coil Guard Shown

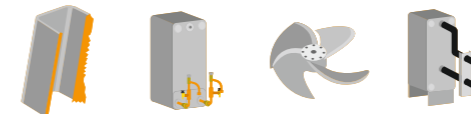


Versatility

- Modular Design
- Modules joined on site

Efficiency

- U-Shaped Heat Exchanger
- Continuous Capacity Control
- DC Motor and Fan
- Electronic Expansion Valves
- Plate Heat Exchanger



Installation

- Twin Screw Compressor
- Increased Corrosion Protection
- Low noise option



New components

Engineered for tomorrow

Modular design combined with world-renowned reliability. Samurai chillers are highly effective, even at partial load.

Twin screw compressor

Latest development of Hitachi's world renowned screw compressor technology. Optimised for R134a refrigerant, featuring continuous capacity control and a unique cyclonic oil chamber.

A new rotor, a lighter casing and easy access to the E-Box enhance efficiency and handling. Whilst a new bearing system allows the overhaul period to be increased to 40,000 hours.

Plate heat exchangers

The new AH series units are equipped with true Dual-type brazed plate exchangers, manufactured from stainless steel AISI316. These plate heat exchangers have two refrigerant inlets in order to improve the distribution of gas-liquid mixtures in the interior of the evaporator. The higher efficiency and compact nature of the refrigeration system allows for accurate control of the evaporation temperature.

Moreover, the pressure loss on the water inlet side has been significantly reduced, less than 24 kPa at nominal conditions, facilitating lower input power of the circulating pumps.

Continuous capacity control

Hitachi's Continuous Capacity Control system uses advanced electronic controls to position the infinitely variable slide valve within each compressor. Capacity control per module is performed from 100% to 25% load linearly.

Due to the modular ability of the AH series the final Chiller turndown is 100% to 3% (dependent on quantity of modules.)

Modulation allows exact load control and accurate chilled water temperature without the need for expensive inverters offering significant saving compared with step control systems.



Screw Chillers

DC motor and fan

Each module is equipped with 4 DC inverter-controlled fan motors.

This ensures low power consumption especially in partial load. The use of DC fan motors significantly improves the efficiency compared to conventional AC motors. The continuous speed control of all motors ensures precise regulation of airflow.

The new 4-bladed fan (710 mm) is optimized for use in the new AH Series chillers:

- Low sound emissions
- Increased air throughput
- Reduced energy consumption

U-shaped heat exchanger

The AH series takes advantage of the latest technology that has proven itself in the VRF Series. The "U" shaped style provides a 20% increase in surface area compared with the previous series. 7 mm piping ensure a high heat transfer ratio, whilst an additional sub-cooling circuit increases the seasonal efficiency even at low load conditions.

Electronic expansion valve

To provide greater efficiency and accuracy, all units are equipped as standard with two electronic expansion valves to ensure equal refrigerant distribution to both inlets of the plate heat exchangers. New model with higher torque and increased pulses range (656 to 5960) for improved endurance and precision.

LCD touch panel

Each Hitachi Model RC-1 AH series is equipped with its own user-friendly touch screen panel, which shows the data of the device and settings of various parameters to optimize the performance of the device allows.

- 3.5" TFT display
- 320 x 240 pixels (QVGA)
- 65,536 colours
- Available in multiple languages
- Status indicator of the unit: pump kit option, fan, alarm, error messages
- Operating parameters: temperature, pressure, etc.
- Display of the last 10 alarms. The software saves detailed operating parameters of the last 3 alarms (at the moment the alarm / 10 seconds before the alarm / 20 seconds before the alarm)

Always well connected

We've taken care of everything. A range of optional accessories can be added to ensure Samurai meets all your requirements.

Options

ModBus Gateway

- Compatible with R134a modules
- Ports: RS485 & TCP (Ethernet)
- New parameters: High pressure, low pressure, operating time
- Easy configuration
- Din rail mounting

One Gateway per chiller (max. eight modules)

BACnet Gateway

- Compatible with R134a modules
- BACnet IP
- Easy configuration
- Din rail mounting (one Gateway per chiller (max.eight modules))

Low noise - optional

Compressor enclosure manufactured from specially designed acoustic panels. Module noise levels are reduced -3dB(A) or -5dB(A) against the standard module, without any reduction in performance, efficiency or footprint.



Screw Chillers

Engineering excellence

Hitachi's vision is to deliver innovative solutions that answer society's challenges. But we never lose sight of the most important factor; our customers.

Machine protection

DX Coil Protection – optional

Optional additional protection applied on top of the standard acrylic coat to each of the 3 Rows per "U" coil section. The heat exchangers are protected to 3,500h in the "salty spray test" according to DIN50021-SS. (Standard protection is 480h)

Affords additional protection for installations in areas such as; Industrial areas with high humidity and aggressive atmospheres, Coastal environments with high salinity.

Increased chiller protection – optional

Optional additional protection for the chiller components and structure. Protected to 1,440h in the "salty spray test" according to DIN50021-SS. (Standard protection is 480h)

Modifications are:

- dx coil heat exchanger protection
- Additional coating to the units inner and outer plates, electrical panel, base, fan and heat exchanger guards.
- Stainless Steel Water Piping
- Painted low noise compressor enclosure

Protection is suitable for installations such as, industrial areas with high humidity and aggressive atmosphere and coastal and offshore environments with high salinity.



Screw Chillers

RCME AH1

(with option for heating)

Modern modular design of RCME AH1 brings maximum space installation flexibility, cost effective expansion and redundancy whilst allowing investment to be spread to match project phases.

High Efficiency Cooling Only Air Cooled Chiller:

- Site Customisation based on Price, Efficiency or Space
- Combine up to 8 modules for 100 to 1,400 kw installations
- Intelligent Controls - Dynamic Backup, Current Limiter
- Low Noise Options - No Capacity, Efficiency or footprint reduction
- 116 total combinations

High Efficiency Heat Pump Air Cooled Chiller:

- Match differing installation cooling and heating loads by combining C/O & H/P modules in the same "Chiller" *
- Combine up to 8 modules for 95 to 1,280 kw installations
- Intelligent Controls - Smart Defrost, Load Up/Down "Learning" Control
- Two Operating Modes - High Efficiency, Precise Water Outlet Temperature
- 116 total combinations

RCME 40~70, air-cooled, basic modules

Samurai Individual Modules	RCME 40AH1	RCME 50AH1	RCME 60AH1	RCME 70AH1
Cooling Capacity ¹ (kW)	100	125	150	175
Total Input Power ¹ (kW)	27.2	35.6	47.0	54.5
EER ²	3.68 / 3.63	3.51 / 3.47	3.19 / 3.16	3.21 / 3.18
ESEER ²	4.54 / 4.39	4.34 / 4.21	4.25 / 4.14	4.28 / 4.15
Sound Power Level (dB(A))	89	91	93	94
Sound Pressure Level (10m) (dB(A))	61	63	65	66
Dimension (H x W x D) mm	2450 x 2230 x 2000			
Operating weight (kg)	1340	1380	1460	1480
Compressor (type)	HITACHI Semi-Hermetic Twin Screw, 25-100% variable capacity control			
Quantity	1	1	1	1
R134a Refrigerant Circuit	Twin Electronic Expansion Valve, high and low pressure sensors, filter, pressures switch and valve			
Water Side Heat Exchanger	Braze Plate Heat Exchanger			
Air Side Heat Exchanger	Multi-Pass Cross Finned Tube (Cu/Al)			
Water Flow min - max (nominal) m ³ /h	3.0 / 4.78 / 6.84	3.73 / 6.0 / 8.6	4.5 / 7.2 / 10.3	5.3 / 8.4 / 12
Water Pressure Drop (nominal) kPa	15.9	15.5	14.7	19.5
Water Pipe Connection (inch)	2 x 2½" Victaulic (1 x Inlet, 1 x Outlet)			
Chilled Water Outlet Temp				
Standard	5°C - 15°C			
Low - Optional	-10°C - +5°C			
High - Optional	+15°C - 30°C			
Ambient Air Temperature (Cool) °C	-15°C - 46°C			
Electrical power supply	400 / 3 / 50			

Data is based on the following conditions:

¹ Chilled Water Inlet / Outlet Temperature: 12 / 7°C Condenser Inlet Air Temperature: 35°C.

² Data Excludes / Includes Pump Kit Input (According to European Standard EN 14511)

* Restrictions apply



Screw Chillers

RHME 40~70AH1 Air Cooled Heat Pump Individual Modules

Samurai Individual Modules	RHME 40AH1	RHME 50AH1	RHME 60AH1	RHME 70AH1
Cooling Capacity ¹ (kW)	95	119	143	160
Total Input Power ¹ (kW)	27.9	36.6	48.4	54.2
EER ³	3.4 / 3.37	3.25 / 3.22	2.96 / 2.94	2.95 / 2.93
ESEER ³	4.10 / 4.01	3.91 / 3.84	3.84 / 3.77	3.83 / 3.75
Heating Capacity ² (kW)	92.00	115.00	138.00	138.00
Total Input Power ² (kW)	28.6	37.4	48.8	48.7
COP ³	3.22 (3.20)	3.07 (3.06)	2.83 (2.82)	2.83 (2.82)
SCOP (with pump)	3.22	3.10	2.98	2.98
Sound Power Level (dB(A))	89	91	93	94
Sound Pressure Level (10 m) (dB(A))	61	63	65	66
Dimension (mm) (H x W x D)	2450 x 2230 x 2000			
Operating weight (kg)	1440	1480	1560	1580
Compressor (type)	HITACHI Semi-Hermetic Twin Screw, 25-100% variable capacity control			
Quantity	1	1	1	1
R134a Refrigerant Circuit	Twin Electronic Expansion Valve, high and low pressure sensors, filter, pressures switch and valve			
Water Side Heat Exchanger	Braze Plate Heat Exchanger			
Air Side Heat Exchanger	Multi-Pass Cross Finned Tube (Cu/Al)			
Water Flow min - max (nominal) m ³ /h	2.8 / 4.53 / 6.5	3.56 / 5.7 / 8.1	4.3 / 6.83 / 9.76	4.8 / 7.64 / 10.9
Water Pressure Drop (nominal) kPa	9.4	9.7	10.6	13.0
Water Pipe Connection (inch)	2 x 2½" Victaulic (1 x Inlet, 1 x Outlet)			
Chilled Water Outlet Temp				
Standard	5°C - 15°C			
Low - Optional	-10°C - +5°C			
High - Optional	+15°C - 30°C			
Heated Water Outlet °C	+35°C - +55°C			
Ambient Air Cooling (db)	-15°C - 46°C			
Temperature Heating (db / wb)	-9.5°C / -10.0°C - +21°C / 15.5°C			
Electrical power supply	400 / 3 / 50			

Data is based on the following conditions:

1 Cooling operation: Chilled Water Inlet / Outlet Temperature: 12 / 7°C

Condenser Inlet Air Temperature: 35°C.

2 Heating operation: Heated Water Inlet / Outlet Temperature: 40 / 45°C

Evaporator Air Inlet Temperature: 6°C WB.

3 Data is with (without) pump input included (according to the European Standard EN 14511).

* Restrictions apply

RCME WH

(with option for heating)

Modern modular design of RCME WH provides continuous operation, capacity control and safety.

High Efficiency Water Cooled Chiller:

- Only 806 mm width for easy site access on refurbishment projects
- Combine up to 8 modules for 140 to 1,920 kw installations (170 to 2,384 kw heating capacity)
- Intelligent Controls - 2nd Water Temperature settings (Redundancy with Dynamic Backup with option for heating)
- Reduced refrigerant per circuit in large capacity installations
- Option for heating includes Site Customization based on – Price, Efficiency, Space
- 116 total combinations

RCME 40~70WH Water Cooled Individual Modules

Samurai Individual Modules	RCME 40WH	RCME 50WH	RCME 60WH	RCME 70WH
Cooling Capacity ¹ (kW)	140	180	215	240
Total Input Power ¹ (kW)	28.0	36.3	44.3	49.3
EER ²	5.00 / 4.83	4.96 / 4.80	4.85 / 4.70	4.87 / 4.71
ESEER ²	5.85 / 5.35	6.22 / 5.69	6.22 / 5.71	6.25 / 5.72
Sound Power Level (dB(A))	88	89	90	91
Sound Pressure Level (10 m) (dB(A))	60	61	62	63
Operating weight (kg)	860	950	1040	1075
Compressor (type)	HITACHI Semi-Hermetic Twin Screw, 25-100% variable capacity control			
Quantity	1	1	1	1
R134a Refrigerant Circuit	Twin Electronic Expansion Valve, high and low pressure sensors, filter, pressures switch and valve			
Water Side Heat Exchanger - Evap	Braze Plate Heat Exchanger			
Water Side Heat Exchanger - Cond	Braze Plate Heat Exchanger			
Evap. Water Flow Min / Nom / Max l/sec	4.2 / 6.7 / 14.5	5.4 / 8.6 / 18.7	6.4 / 10.2 / 22.3	7.2 / 11.5 / 23.3
Evap Water Pressure Drop (nominal) kPa	20.0	21.5	18.9	23.2
Cond. Water Flow Min / Nom / Max l/sec	5.3 / 8.6 / 18.6	6.8 / 10.8 / 23.2	8.4 / 13.4 / 23.3	9.3 / 15.0 / 23.3
Cond. Water Pressure Drop (nominal) kPa	24.1	25.9	29.3	29.8
Water Pipe Connection (inch)	2 x 2½" Victaulic (1 x Inlet, 1 x Outlet per heat exchanger)			
Chilled Water Outlet Temp				
Standard	5°C - 15°C			
Low - Optional	-10°C - +5°C			
High - Optional	15°C - 25°C			
Condenser Water Outlet °C	+22°C ~ +50°C			
Electrical power supply	400 / 3 / 50			

Data is based on the following conditions:

1 Cooling operation: Chilled Water Inlet / Outlet Temperature: 12 / 7 °C
Condenser Inlet / Outlet Temperature: 30 / 35 °C

3 Data is with (without) pump input included (according to the European Standard EN 14511).



Screw Chillers

RCME 40~70WH Water Cooled Individual Modules – Heat Pump option

Samurai Individual Modules	RCME 40WH	RCME 50WH	RCME 60WH	RCME 70WH
Cooling Capacity ¹ (kW)	140	180	215	240
Total Input Power ¹ (kW)	28	36.3	44.3	49.3
EER ³	5.00 / 4.83	4.96 / 4.80	4.85 / 4.70	4.87 / 4.71
ESEER ³	5.85 / 5.35	6.22 / 5.69	6.22 / 5.71	6.25 / 5.72
Heating Capacity ² (kW) (option)	171	215	267	298
Total Input Power ² (kW)	33.4	43.3	52.8	58.8
COP ³	5.12 (5.00)	4.98 (4.86)	5.06 (4.95)	5.07 (4.96)
SCOP (with pump)	4.72	4.59	6.22	6.24
Sound Power Level (dB(A))	88	89	90	91
Sound Pressure Level (10m) (dB(A))	60	61	62	63
Dimension (mm) (H x W x D)	1681 x 806 x 1271	1681 x 806 x 1271	1681 x 806 x 1271	1681 x 806 x 1271
Operating weight (kg)	860	950	1040	1075
Compressor (type)	HITACHI Semi-Hermetic Twin Screw, 25-100% variable capacity control			
Quantity	1	1	1	1
R134a Refrigerant Circuit	Twin Electronic Expansion Valve, high and low pressure sensors, filter, pressures switch and valve			
Water Side Heat Exchanger - Evap	Braze Plate Heat Exchanger			
Water Side Heat Exchanger - Cond	Braze Plate Heat Exchanger			
Evap. Water Flow Min / Nom / Max l/sec	4.2 / 6.7 / 14.5	5.4 / 8.6 / 18.7	6.4 / 10.2 / 22.3	7.2 / 11.5 / 23.3
Evap Water Pressure Drop (nominal) kPa	20.0	21.5	18.9	23.2
Cond. Water Flow Min / Nom / Max l/sec	5.3 / 8.6 / 18.6	6.8 / 10.8 / 23.2	8.4 / 13.4 / 23.3	9.3 / 15.0 / 23.3
Cond. Water Pressure Drop (nominal) kPa	24.1	25.9	29.3	29.8
Water Pipe Connection (inch)	(1 x Inlet, 1 x Outlet per heat exchanger)			
Chilled Water Outlet Temp				
Standard	5°C - 15°C			
Low - Optional	-10°C - +5°C			
High - Optional	15°C - 25°C			
Heated Water Outlet °C	+35°C ~ +55°C			
Condenser Water Outlet °C	+22°C ~ +50°C			
Electrical power supply	400 / 3 / 50			

Data is based on the following conditions:

1 Cooling operation: Chilled Water Inlet / Outlet Temperature: 12 / 7 °C
Condenser Inlet / Outlet Temperature: 30 / 35 °C

2 Heating operation: Hot Water: Condenser Inlet / Outlet Water Temperature: 40 / 45 °C.

3 Data is with (without) pump input included (according to the European Standard EN 14511).

Chiller Module Combinations



Screw Chillers

RCME-AH1 / RHME -AH1 / RCME-WH Module Combinations

The following units & unit combinations can be installed on site. Other combinations will not be allowed due to possible poor water distribution.

Modules	RCME-AH1 / RHME-AH1	Air Cooled		
		RCME-AH1	RHME-AH1	
		Cooling Capacity	Cooling Capacity	Heating Capacity
One Module	40	100	95	92
	50	125	119	115
	60	150	143	138
	70	175	160	138
Two Modules	40 + 40	200	190	184
	40 + 50	225	214	207
	50 + 50	250	238	230
	50 + 60	275	262	253
	60 + 60	300	286	276
	60 + 70	325	303	276
	70 + 70	350	320	276
Three Modules	40 + 40 + 40	300	285	276
	40 + 40 + 50	325	309	299
	40 + 50 + 50	350	333	322
	50 + 50 + 50	375	357	345
	50 + 60 + 60	425	405	391
	60 + 60 + 60	450	429	414
	60 + 60 + 70	475	446	414
	60 + 70 + 70	500	463	414
	70 + 70 + 70	525	480	414
Four Modules	40 + 40 + 40 + 40	400	380	368
	40 + 40 + 40 + 50	425	404	391
	40 + 40 + 50 + 50	450	428	414
	40 + 50 + 50 + 50	475	452	437
	50 + 50 + 50 + 50	500	476	460
	50 + 50 + 50 + 60	525	500	483
	50 + 50 + 60 + 60	550	524	506
	50 + 60 + 60 + 60	575	548	529
	60 + 60 + 60 + 60	600	572	552
	60 + 60 + 60 + 70	625	589	552
	60 + 60 + 70 + 70	650	606	552
	60 + 70 + 70 + 70	675	623	552
	70 + 70 + 70 + 70	700	640	552

Modules	RCME-WH	Water Cooled	
		RCME-WH	
		Cooling Capacity	Heating Capacity Option
One Module	40	140	171
	50	180	215
	60	215	267
	70	240	298
Two Modules	40 + 40	280	342
	40 + 50	320	386
	50 + 50	360	430
	50 + 60	395	482
	60 + 60	430	534
	60 + 70	455	565
	70 + 70	480	596
Three Modules	40 + 40 + 40	420	513
	40 + 40 + 50	460	557
	40 + 50 + 50	500	601
	50 + 50 + 50	540	645
	50 + 60 + 60	610	749
	60 + 60 + 60	645	801
	60 + 60 + 70	670	832
	60 + 70 + 70	695	863
	70 + 70 + 70	720	894
Four Modules	40 + 40 + 40 + 40	560	684
	40 + 40 + 40 + 50	600	728
	40 + 40 + 50 + 50	640	772
	40 + 50 + 50 + 50	680	816
	50 + 50 + 50 + 50	720	860
	50 + 50 + 50 + 60	755	912
	50 + 50 + 60 + 60	790	964
	50 + 60 + 60 + 60	825	1016
	60 + 60 + 60 + 60	860	1068
	60 + 60 + 60 + 70	885	1099
	60 + 60 + 70 + 70	910	1130
60 + 70 + 70 + 70	935	1161	
70 + 70 + 70 + 70	960	1192	

Chiller Module Combinations



Screw Chillers

Modules	RCME-AH1 / RHME-AH1	Air Cooled		
		RCME-AH1	RHME-AH1	
		Cooling Capacity	Cooling Capacity	Heating Capacity
Five Modules	40 + 40 + 40 + 40 + 40	500	475	460
	40 + 40 + 40 + 40 + 50	525	499	483
	40 + 40 + 40 + 50 + 50	550	523	506
	40 + 40 + 50 + 50 + 50	575	547	529
	40 + 50 + 50 + 50 + 50	600	571	552
	50 + 50 + 50 + 50 + 50	625	595	575
	50 + 50 + 50 + 50 + 60	650	619	598
	50 + 50 + 50 + 60 + 60	675	643	621
	50 + 50 + 60 + 60 + 60	700	667	644
	50 + 60 + 60 + 60 + 60	725	691	667
	60 + 60 + 60 + 60 + 60	750	715	690
	60 + 60 + 60 + 60 + 70	775	732	690
	60 + 60 + 60 + 70 + 70	800	749	690
	60 + 60 + 70 + 70 + 70	825	766	690
	60 + 70 + 70 + 70 + 70	850	783	690
	70 + 70 + 70 + 70 + 70	875	800	690
Six Modules	40 + 40 + 40 + 40 + 40 + 40	600	570	552
	40 + 40 + 40 + 40 + 40 + 50	625	594	575
	40 + 40 + 40 + 40 + 50 + 50	650	618	598
	40 + 40 + 40 + 50 + 50 + 50	675	642	621
	40 + 40 + 50 + 50 + 50 + 50	700	666	644
	40 + 50 + 50 + 50 + 50 + 50	725	690	667
	50 + 50 + 50 + 50 + 50 + 50	750	714	690
	50 + 50 + 50 + 50 + 50 + 60	775	738	713
	50 + 50 + 50 + 50 + 60 + 60	800	762	736
	50 + 50 + 50 + 60 + 60 + 60	825	786	759
	50 + 50 + 60 + 60 + 60 + 60	850	810	782
	50 + 60 + 60 + 60 + 60 + 60	875	834	805
	60 + 60 + 60 + 60 + 60 + 60	900	858	828
	60 + 60 + 60 + 60 + 60 + 70	925	875	828
	60 + 60 + 60 + 60 + 70 + 70	950	892	828
	60 + 60 + 60 + 70 + 70 + 70	975	909	828
60 + 60 + 70 + 70 + 70 + 70	1000	926	828	
60 + 70 + 70 + 70 + 70 + 70	1025	943	828	
70 + 70 + 70 + 70 + 70 + 70	1050	960	828	
Seven Modules	40 + 40 + 40 + 40 + 40 + 40 + 40	700	665	644
	40 + 40 + 40 + 40 + 40 + 40 + 50	725	689	667
	40 + 40 + 40 + 40 + 40 + 50 + 50	750	713	690
	40 + 40 + 40 + 40 + 50 + 50 + 50	775	737	713
	40 + 40 + 40 + 50 + 50 + 50 + 50	800	761	736
	40 + 40 + 50 + 50 + 50 + 50 + 50	825	785	759

Modules	RCME-WH	Water Cooled	
		RCME-WH	
		Cooling Capacity	Heating Capacity Option
Five Modules	40 + 40 + 40 + 40 + 40	700	855
	40 + 40 + 40 + 40 + 50	740	899
	40 + 40 + 40 + 50 + 50	780	943
	40 + 40 + 50 + 50 + 50	820	987
	40 + 50 + 50 + 50 + 50	860	1031
	50 + 50 + 50 + 50 + 50	900	1075
	50 + 50 + 50 + 50 + 60	935	1127
	50 + 50 + 50 + 60 + 60	970	1179
	50 + 50 + 60 + 60 + 60	1005	1231
	50 + 60 + 60 + 60 + 60	1040	1283
	60 + 60 + 60 + 60 + 60	1075	1335
	60 + 60 + 60 + 60 + 70	1100	1366
	60 + 60 + 60 + 70 + 70	1125	1397
	60 + 60 + 70 + 70 + 70	1150	1428
	60 + 70 + 70 + 70 + 70	1175	1459
	70 + 70 + 70 + 70 + 70	1200	1490
Six Modules	40 + 40 + 40 + 40 + 40 + 40	840	1026
	40 + 40 + 40 + 40 + 40 + 50	880	1070
	40 + 40 + 40 + 40 + 50 + 50	920	1114
	40 + 40 + 40 + 50 + 50 + 50	960	1158
	40 + 40 + 50 + 50 + 50 + 50	1000	1202
	40 + 50 + 50 + 50 + 50 + 50	1040	1246
	50 + 50 + 50 + 50 + 50 + 50	1080	1290
	50 + 50 + 50 + 50 + 50 + 60	1115	1342
	50 + 50 + 50 + 50 + 60 + 60	1150	1394
	50 + 50 + 50 + 60 + 60 + 60	1185	1446
	50 + 50 + 60 + 60 + 60 + 60	1220	1498
	50 + 60 + 60 + 60 + 60 + 60	1255	1550
	60 + 60 + 60 + 60 + 60 + 60	1290	1602
	60 + 60 + 60 + 60 + 60 + 70	1315	1633
	60 + 60 + 60 + 60 + 70 + 70	1340	1664
	60 + 60 + 60 + 70 + 70 + 70	1365	1695
60 + 60 + 70 + 70 + 70 + 70	1390	1726	
60 + 70 + 70 + 70 + 70 + 70	1415	1757	
70 + 70 + 70 + 70 + 70 + 70	1440	1788	
Seven Modules	40 + 40 + 40 + 40 + 40 + 40 + 40	980	1197
	40 + 40 + 40 + 40 + 40 + 40 + 50	1020	1241
	40 + 40 + 40 + 40 + 40 + 50 + 50	1060	1285
	40 + 40 + 40 + 40 + 50 + 50 + 50	1100	1329
	40 + 40 + 40 + 50 + 50 + 50 + 50	1140	1373
	40 + 40 + 50 + 50 + 50 + 50 + 50	1180	1417

Chiller Module Combinations



Screw Chillers

Modules	RCME-AH1 / RHME-AH1	Air Cooled		
		RCME-AH1	RHME-AH1	
		Cooling Capacity	Cooling Capacity	Heating Capacity
Seven Modules (cont)	40 + 50 + 50 + 50 + 50 + 50 + 50	850	809	782
	50 + 50 + 50 + 50 + 50 + 50 + 50	875	833	805
	50 + 50 + 50 + 50 + 50 + 50 + 60	900	857	828
	50 + 50 + 50 + 50 + 50 + 60 + 60	925	881	851
	50 + 50 + 50 + 50 + 60 + 60 + 60	950	905	874
	50 + 50 + 50 + 60 + 60 + 60 + 60	975	929	897
	50 + 50 + 60 + 60 + 60 + 60 + 60	1000	953	920
	50 + 60 + 60 + 60 + 60 + 60 + 60	1025	977	943
	60 + 60 + 60 + 60 + 60 + 60 + 60	1050	1001	966
	60 + 60 + 60 + 60 + 60 + 60 + 70	1075	1018	966
	60 + 60 + 60 + 60 + 60 + 70 + 70	1100	1035	966
	60 + 60 + 60 + 60 + 70 + 70 + 70	1125	1052	966
	60 + 60 + 60 + 70 + 70 + 70 + 70	1150	1069	966
	60 + 60 + 70 + 70 + 70 + 70 + 70	1175	1086	966
	60 + 70 + 70 + 70 + 70 + 70 + 70	1200	1103	966
	70 + 70 + 70 + 70 + 70 + 70 + 70	1225	1120	966
	Eight Modules	40 + 40 + 40 + 40 + 40 + 40 + 40 + 40	800	760
40 + 40 + 40 + 40 + 40 + 40 + 40 + 50		825	784	759
40 + 40 + 40 + 40 + 40 + 40 + 50 + 50		850	808	782
40 + 40 + 40 + 40 + 40 + 50 + 50 + 50		875	832	805
40 + 40 + 40 + 40 + 50 + 50 + 50 + 50		900	856	828
40 + 40 + 40 + 50 + 50 + 50 + 50 + 50		925	880	851
40 + 40 + 50 + 50 + 50 + 50 + 50 + 50		950	904	874
40 + 50 + 50 + 50 + 50 + 50 + 50 + 50		975	928	897
50 + 50 + 50 + 50 + 50 + 50 + 50 + 50		1000	952	920
50 + 50 + 50 + 50 + 50 + 50 + 50 + 60		1025	976	943
50 + 50 + 50 + 50 + 50 + 50 + 60 + 60		1050	1000	966
50 + 50 + 50 + 50 + 50 + 60 + 60 + 60		1075	1024	989
50 + 50 + 50 + 50 + 60 + 60 + 60 + 60		1100	1048	1012
50 + 50 + 50 + 60 + 60 + 60 + 60 + 60		1125	1072	1035
50 + 50 + 60 + 60 + 60 + 60 + 60 + 60		1150	1096	1058
50 + 60 + 60 + 60 + 60 + 60 + 60 + 60		1175	1120	1081
60 + 60 + 60 + 60 + 60 + 60 + 60 + 60		1200	1144	1104
60 + 60 + 60 + 60 + 60 + 60 + 60 + 70		1225	1161	1104
60 + 60 + 60 + 60 + 60 + 60 + 70 + 70		1250	1178	1104
60 + 60 + 60 + 60 + 60 + 70 + 70 + 70		1275	1195	1104
60 + 60 + 60 + 60 + 70 + 70 + 70 + 70	1300	1212	1104	
60 + 60 + 60 + 70 + 70 + 70 + 70 + 70	1325	1229	1104	
60 + 60 + 70 + 70 + 70 + 70 + 70 + 70	1350	1246	1104	
60 + 70 + 70 + 70 + 70 + 70 + 70 + 70	1375	1263	1104	
70 + 70 + 70 + 70 + 70 + 70 + 70 + 70	1400	1280	1104	

Modules	RCME-WH	Water Cooled	
		RCME-WH	
		Cooling Capacity	Heating Capacity Option
Seven Modules (cont)	40 + 50 + 50 + 50 + 50 + 50 + 50	1220	1461
	50 + 50 + 50 + 50 + 50 + 50 + 50	1260	1505
	50 + 50 + 50 + 50 + 50 + 50 + 60	1295	1557
	50 + 50 + 50 + 50 + 50 + 60 + 60	1330	1609
	50 + 50 + 50 + 50 + 60 + 60 + 60	1365	1661
	50 + 50 + 50 + 60 + 60 + 60 + 60	1400	1713
	50 + 50 + 60 + 60 + 60 + 60 + 60	1435	1765
	50 + 60 + 60 + 60 + 60 + 60 + 60	1470	1817
	60 + 60 + 60 + 60 + 60 + 60 + 60	1505	1869
	60 + 60 + 60 + 60 + 60 + 60 + 70	1530	1900
	60 + 60 + 60 + 60 + 60 + 70 + 70	1555	1931
	60 + 60 + 60 + 60 + 70 + 70 + 70	1580	1962
	60 + 60 + 60 + 70 + 70 + 70 + 70	1605	1993
	60 + 60 + 70 + 70 + 70 + 70 + 70	1630	2024
	60 + 70 + 70 + 70 + 70 + 70 + 70	1655	2055
	70 + 70 + 70 + 70 + 70 + 70 + 70	1680	2086
	Eight Modules	40 + 40 + 40 + 40 + 40 + 40 + 40 + 40	1120
40 + 40 + 40 + 40 + 40 + 40 + 40 + 50		1160	1412
40 + 40 + 40 + 40 + 40 + 40 + 50 + 50		1200	1456
40 + 40 + 40 + 40 + 40 + 50 + 50 + 50		1240	1500
40 + 40 + 40 + 40 + 50 + 50 + 50 + 50		1280	1544
40 + 40 + 40 + 50 + 50 + 50 + 50 + 50		1320	1588
40 + 40 + 50 + 50 + 50 + 50 + 50 + 50		1360	1632
40 + 50 + 50 + 50 + 50 + 50 + 50 + 50		1400	1676
50 + 50 + 50 + 50 + 50 + 50 + 50 + 50		1440	1720
50 + 50 + 50 + 50 + 50 + 50 + 50 + 60		1475	1772
50 + 50 + 50 + 50 + 50 + 50 + 60 + 60		1510	1824
50 + 50 + 50 + 50 + 50 + 60 + 60 + 60		1545	1876
50 + 50 + 50 + 50 + 60 + 60 + 60 + 60		1580	1928
50 + 50 + 50 + 60 + 60 + 60 + 60 + 60		1615	1980
50 + 50 + 60 + 60 + 60 + 60 + 60 + 60		1650	2032
50 + 60 + 60 + 60 + 60 + 60 + 60 + 60		1685	2084
60 + 60 + 60 + 60 + 60 + 60 + 60 + 60		1720	2136
60 + 60 + 60 + 60 + 60 + 60 + 60 + 70	1745	2167	
60 + 60 + 60 + 60 + 60 + 60 + 70 + 70	1770	2198	
60 + 60 + 60 + 60 + 60 + 70 + 70 + 70	1795	2229	
60 + 60 + 60 + 60 + 70 + 70 + 70 + 70	1820	2260	
60 + 60 + 60 + 70 + 70 + 70 + 70 + 70	1845	2291	
60 + 60 + 70 + 70 + 70 + 70 + 70 + 70	1870	2322	
60 + 70 + 70 + 70 + 70 + 70 + 70 + 70	1895	2353	
70 + 70 + 70 + 70 + 70 + 70 + 70 + 70	1920	2384	

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