

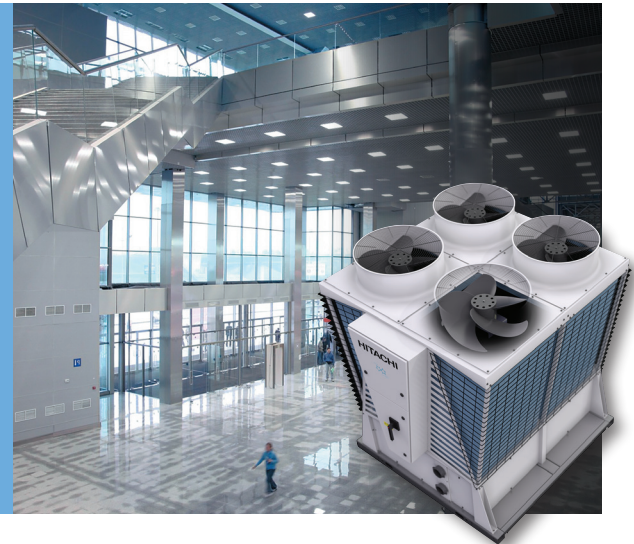
Hitachi Air Conditioning

Engineered for tomorrow.



Samurai RCME-AH Hi Efficiency, Air Cooled Cooling only

The Samurai range of chillers offer world-renowned reliability – thanks to our own twin screw compressors – and incorporate the latest developments in screw compressor technology for excellent partial load performance. Equipped with inverter-driven fans and intelligent control system for optimum seasonal efficiency – Samurai RCME-AH is highly effective even at partial load. Our Chillers are ideally suited for Industrial and process, data centres, shopping centres, airports, hotels, hospitals and offices.



Features and Benefits

- ✓ Flexible modular concept allows project customisation on efficiency, price or installation space
- ✓ Capacities from 106kW to 1280kW
- ✓ ESEER of 4.32 to 5.01
- ✓ Intelligent control system for optimum SEER even at partial load
- ✓ Control outlet water temperature to +/- 0.5°C independent of cooling load
- ✓ All Inverter-driven fan motors for optimised efficiency
- ✓ LCD touch screen panel
- ✓ New U-shape heat exchanger with enhanced aluminium fins for 20% more exchange surface
- ✓ 2 plate heat exchangers delivers improved refrigerant distribution and greater efficiency
- ✓ Electronic expansion valve with PID control
- ✓ New twin screw compressor optimised for R134a with continuous capacity control
- ✓ Awarded Enhanced Capital Allowance (ECA).

BMS Interface



Modbus CHL-MBS_01

Can control up to 8 RCME-AH chillers (8 chillers x 8 modules = 64 modules)

Awarded Enhanced Capital Allowance (ECA) scheme status



The ECA Scheme is part of the Government's programme of measures to manage climate change which gives businesses tax relief for investing in energy-efficient, accredited products - making it possible to claim a 100% first year capital allowance against the taxable profits in the period of investment (rather than claiming on a reducing balance).

		RCME 40AH	RCME 50AH	RCME 60AH	RCME 080/2AH	RCME 090/2AH	RCME 100/2AH	RCME 110/2AH	RCME 120/2AH
Module		40/-	50/-	60/-	40/40	40/50	50/50	50/60	60/60
Cooling Capacity ¹	Kw	106	132	160	212	238	264	292	320
Power Input	Kw	30.5	39.3	49.1	60.9	69.8	78.6	88.5	98.2
EER (inc. pump)		3.48 (3.40)	3.36 (3.29)	3.26 (3.19)	3.48 (3.40)	3.41 (3.35)	3.36 (3.30)	3.30 (3.25)	3.26 (3.20)
ESEER (inc. pump)		4.61 (4.31)	4.45 (4.19)	4.32 (4.07)	4.61 (4.31)	4.52 (4.30)	4.45 (4.23)	4.38 (4.16)	4.32 (4.11)
Sound Power Level (Std/LN/SLN)	dB(A)	91 / tbc / tbc	92 / tbc / tbc	93 / tbc / tbc	94 / tbc / tbc	95 / tbc / tbc	95 / tbc / tbc	96 / tbc / tbc	96 / tbc / tbc
Sound Pressure Level (Std/LN/SLN) ²	dB(A)	77 / tbc / tbc	78 / tbc / tbc	79 / tbc / tbc	80 / tbc / tbc	81 / tbc / tbc	81 / tbc / tbc	82 / tbc / tbc	82 / tbc / tbc
Height / Width / Depth	mm	2450 / 2230 / 2000			2450 / 2250 / 4000				
Net Weight	Kg	1425	1460	1515	2910	2945	2980	3035	3090
Capacity Control	-	Continuous Capacity Control							
	%	25 ~ 100			12.5 ~ 100				
Number of Circuits	-	1	1	1	2	2	2	2	2
Water Pipe Connection	in	2 ½" Victaulic (1 x Inlet / 1 x Outlet)			2 ½" Victaulic (2 x Inlet / 2 x Outlet)				
		Common Water Pipe Connection Option available							
Leaving Water Outlet Temperature	°C	5°C ~ 15°C (-5°C option)							
Ambient Temperature	°C	-15°C ~ 46°C							

NOTES:

- ✓ 3 Basic Modules (40, 50 and 60HP) Customise selection for either Energy Efficiency, Price or Installation space
- ✓ Combine up to 8 Modules to match higher capacities (40 & 60HP modules cannot be combined)
- ✓ Two Operating Modes as standard; selected at Commissioning
 - Steady water outlet temperature (+/- 0.5°C). All compressors running at the same load
 - Hi Efficiency Mode, Smart control of compressors start/stop operation
- ✓ Option for up to 4 modules to be factory connected on a single base frame (RCME 080/2AH ~ RCME 240/4AH)

1. The nominal cooling capacities are based on the European Standard EN14511. Chilled Water Inlet / Outlet Temperature : 12 / 7°C. Condenser Inlet Air Temperature : 35°C
 2. Sound Pressure level measured at 1.5m height and 1m from control panel



RCME 3AH



Hi Efficiency Air Cooled Cooling Only

		RCME 120/3AH	RCME 130/3AH	RCME 140/3AH	RCME 150/3AH	RCME 160/3AH	RCME 170/3AH	RCME 180/3AH
Module		40/40/40	40/40/50	40/50/50	50/50/50	50/50/60	50/60/60	60/60/60
Cooling Capacity ¹	Kw	318	344	370	396	424	452	480
Power Input	Kw	91.4	100.3	109.1	117.9	127.7	137.4	147.2
EER (inc. pump)		3.48 (3.42)	3.43 (3.37)	3.39 (3.34)	3.36 (3.30)	3.32 (3.27)	3.29 (3.23)	3.26 (3.21)
ESEER (inc. pump)		4.61 (4.39)	4.54 (4.34)	4.50 (4.29)	4.45 (4.25)	4.40 (4.19)	4.36 (4.16)	4.32 (4.12)
Sound Power Level (Std/LN/SLN)	dB(A)	96 / tbc / tbc	96 / tbc / tbc	96 / tbc / tbc	97 / tbc / tbc	97 / tbc / tbc	97 / tbc / tbc	98 / tbc / tbc
Sound Pressure Level (Std/LN/SLN) ²	dB(A)	82 / tbc / tbc	82 / tbc / tbc	82 / tbc / tbc	83 / tbc / tbc	83 / tbc / tbc	83 / tbc / tbc	84 / tbc / tbc
Height / Width / Depth	mm	2450 / 2250 / 6000						
Net Weight	Kg	4395	4430	4465	4500	4555	4610	4665
Capacity Control	-	Continuous Capacity Control						
	%	8.3 ~ 100						
Number of Circuits	-	3	3	3	3	3	3	3
Water Pipe Connection	in	2 ½" Victaulic (3 x Inlet / 3 x Outlet)						
		Common Water Pipe Connection Option available						
Leaving Water Outlet Temperature	°C	5°C ~ 15°C (-5°C option)						
Ambient Temperature	°C	-15°C ~ 46°C						

		RCME 160/4AH	RCME 170/4AH	RCME 180/4AH	RCME 190/4AH	RCME 200/4AH	RCME 210/4AH	RCME 220/4AH	RCME 230/4AH	RCME 240/4AH
Module		40/40/40/40	40/40/40/50	40/40/50/50	40/50/50/50	50/50/50/50	50/50/50/60	50/50/60/60	50/60/60/60	60/60/60/60
Cooling Capacity ¹	Kw	424	450	476	502	528	556	584	612	640
Power Input	Kw	121.8	130.8	139.6	148.5	157.1	167.0	177.0	186.6	196.3
EER (inc. pump)		3.48 (3.42)	3.44 (3.39)	3.41 (3.36)	3.38 (3.33)	3.36 (3.31)	3.33 (3.28)	3.30 (3.25)	3.28 (3.23)	3.26 (3.21)
ESEER (inc. pump)		4.61 (4.40)	4.56 (4.35)	4.52 (4.32)	4.49 (4.28)	4.45 (4.25)	4.41 (4.21)	4.38 (4.18)	4.35 (4.16)	4.32 (4.13)
Sound Power Level (Std/LN/SLN)	dB(A)	97 / tbc / tbc	97 / tbc / tbc	98 / tbc / tbc	98 / tbc / tbc	98 / tbc / tbc	98 / tbc / tbc	99 / tbc / tbc	99 / tbc / tbc	99 / tbc / tbc
Sound Pressure Level (Std/LN/SLN) ²	dB(A)	83 / tbc / tbc	83 / tbc / tbc	84 / tbc / tbc	84 / tbc / tbc	84 / tbc / tbc	84 / tbc / tbc	85 / tbc / tbc	85 / tbc / tbc	85 / tbc / tbc
Height / Width / Depth	mm	2450 / 2250 / 8000								
Net Weight	Kg	5880	5915	5950	5985	6020	6075	6130	6185	6240
Capacity Control	-	Continuous Capacity Control								
	%	6.25 ~ 100								
Number of Circuits	-	4	4	4	4	4	4	4	4	4
Water Pipe Connection	in	2 ½" Victaulic (4 x Inlet / 4 x Outlet)								
		Common Water Pipe Connection Option available								
Leaving Water Outlet Temperature	°C	5°C ~ 15°C (-5°C option)								
Ambient Temperature	°C	-15°C ~ 46°C								

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- Sound Pressure level measured at 1.5m height and 1m from control panel