

Hitachi Air Conditioning

Engineered for tomorrow.



Samurai RCUE-WG2 Water Cooled Cooling Only or Heat Pump

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 and high seasonal efficiencies.

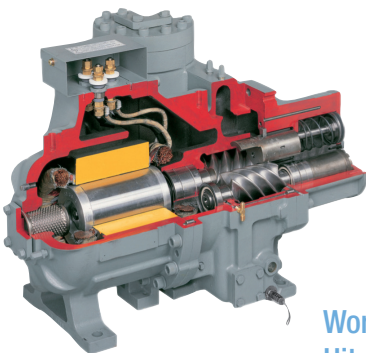
Our Chillers are ideally suited for Industrial and process applications: data centres, shopping centres, airports, hotels, hospitals and offices.



Features and Benefits

- ✓ Capacities from 40HP to 240HP (134kW to 696kW)
- ✓ Control outlet water temperature to +/- 0.5°C independent of cooling load
- ✓ Continuous capacity control provides 15% to 20% energy saving compared to step control
- ✓ ESEER of up to 4.83
- ✓ STAR DELTA starting system reduces the maximum starting current
- ✓ Excellent partial load performance
- ✓ Low noise and vibration
- ✓ Very small installation space

Thanks to meticulous design of each component, it is possible to achieve exceptionally high cooling capacity values per square metre.



World Renowned Reliability with Hitachi's Twin Screw Compressor

With few moving parts, it is highly reliable with very low noise level and low vibration

Optional Control Systems



- ✓ **CSC 5S**
Central controller
(up to 8 Samurai Chillers)



- ✓ **CS Net Web**
Web based controller

BMS Interfaces



- ✓ **Modbus CHL-MBS-01**
Can control up to 8 RCUE-WG2 chillers (Chiller modules >3 cycles are counted as 2 Chillers)



- ✓ **Lonworks® HARC-70CE1 (OP)**
Control and monitor
up to 4 Samurai chillers



RCUE-WG2



Water Cooled

		RCUE 40WG2	RCUE 50WG2	RCUE 60WG2	RCUE 80WG2	RCUE 100WG2	RCUE 120WG2	RCUE 150WG2	RCUE 180WG2	RCUE 200WG2	RCUE 240WG2	
Cooling Capacity ¹	Kw	134	160	194	232	320	388	445	525	600	696	
Heating Capacity ²	Kw	161.1	192.3	233.9	274.7	384.7	467.9	526.9	621.9	719.5	824.2	
Power Input (Cooling) ¹	Kw	33.5	40	49.1	54.5	80	98.2	104.5	123.5	148.5	163.5	
Power Input (Heating) ²	Kw	39.8	47.5	58.3	64.7	95	116.6	124.1	146.7	176.4	194.2	
EER		4.0	4.0	4.0	4.3	4.0	4.0	4.3	4.3	4.0	4.3	
COP		4.0	4.0	4.0	4.2	4.0	4.0	4.2	4.2	4.1	4.2	
ESEER		4.52	4.52	4.46	4.81	4.52	4.46	4.83	4.82	4.55	4.82	
Sound Power Level	dB(A)	83	84	86	86	88	90	90	91	92	93	
Sound Pressure Level	dB(A)	68	69	71	71	72	74	74	75	76	77	
Height	mm	1520				1700			1580			
Width	mm	1105										
Depth	mm	850			1465			2350				
Net Weight	Kg	750	765	830	950	1570	1670	1770	2500	2580	2670	
Capacity Control	-	Continuous Capacity Control										
	%	15 ~ 100										
Number of Circuits	-	1	1	1	1	2	2	2	3	3	3	
Water Pipe Connection (Evaporator)	in	3" Victaulic (1 x Inlet / 1 x Outlet)							3" Victaulic (3 x Inlet / 3 x Outlet)			
	in	-							5" Victaulic (1 x Inlet / 1 x Outlet)			
Water Pipe Connection (Condenser)	in	3" Victaulic (1 x Inlet / 1 x Outlet)							3" Victaulic (3 x Inlet / 3 x Outlet)			
	in	-							5" Victaulic (1 x Inlet / 1 x Outlet)			
Leaving Water Outlet Temperature (Cool)	°C	5 ~ 15 (-10 option)										
Leaving Water Outlet Temperature (Heat)	°C	25 ~ 55										
Condenser Water Outlet Temperature ⁷	°C	22 ~ 45 (55* option)										

NOTES:

- The nominal cooling capacities are based on the European Standard EN12055.
Chilled Water Inlet / Outlet Temperature: 12 / 7°C
Cooling Water Inlet / Outlet Temperature: 30 / 35°C
- The nominal heating capacities are only for Heat Pump Operation Option and based on following conditions.
Chilled Water Inlet / Outlet Temperature: 12 / 7°C
Hot Water (Condenser) Inlet / Outlet Temperature: 40 / 45°C
- Sound Pressure level measured at 1m from the control panel surface and 1.5m from the floor level
- () is in case of high condensing option and heat pump operation option.