

ACW / WS Series

Industrial Water Chiller





SAUVERAIN



SAUVERAIN

ACW / WS SERIES



ACW / WS SERIES

INDUSTRIAL WATER CHILLER



**ACW / WS Series**

Industrial Water Chiller

1. Product Description

Industrial air cooled water chiller series is used to manufacture water which below normal temperature. It is mainly used to cool the moulds of plastic processing machinery. It can greatly improve the surface smoothness of plastic products, reduce the surface markings and internal stress of plastic products, keep the products from shrinking and deforming, facilitate the demoulding of plastic products and accelerate the product finalization, thus greatly improving the production of plastic forming equipment. Efficiency. Industrial water chillers are also widely used in metal processing, electronics, electroplating, textile, vacuum coating, food, chemical, medical, construction and other industries. It is divided into water-cooled type and air-cooled type. The temperature of frozen water ranges from 5°C to 30°C.

- 1 International brand compressor and high efficiency condenser, evaporator combination; energy saving, low noise, long life.
- 2 Temperature range: 5°C to 30°C.
- 3 Refrigerant gas R22; friendly refrigerant gas: R407C, R134A, R404A, etc.
- 4 By increasing the heat transfer area of the condenser, the condensing unit can operate at high temperature below 45°C.
- 5 Low Noise & High Air Volume Fan.
- 6 Standard low-pressure pipeline pump, stainless steel pump or high-pressure centrifugal pump can be selected.
- 7 Microcomputer control, control accuracy: $\pm 1^{\circ}\text{C}$.
- 8 Water-cooled used shell-tube condenser, fast heat conduction, good effect, suitable for high-temperature, water-rich areas.
- 9 The air-cooled type adopts fin condenser, which has good heat dissipation, easy cleaning and maintenance, and easy installation.

2. Model Description

Unit Model Code

ACW/WS	-	20	A	C	S
--------	---	----	---	---	---

Power Code

S: Single-Phase; Vacancy: Three Phase

Number of Compressors

C: 1 Unit; D: 2 Units; T: 3 Units

Cooling Method of Condenser

Air-Cooled: A; Water-Cooled: W

Equipment Nominal Power

HP

Product Series

ACW/WS



3. Technical Data

3.1 Air-Cooled Water Chiller Technical Data

Model		ACW/WS-05 AC	ACW/WS-08 AC(D)	ACW/WS-10 AC(D)	ACW/WS-12 AC(D)	ACW/WS-15 AC(D)	ACW/WS-20 AC(D)	ACW/WS-25 AC(D)	ACW/WS-30 AD(T)
COOLING CAPACITY	Kcal/h×10 ³	12.1	19.8	24.3	29.9	40.2	50.9	59.7	76.4
	KW	14.1	23.0	28.2	34.8	46.8	59.2	69.4	88.8
	USRT	4.0	6.5	8.0	9.9	13.3	16.8	19.7	25.2
Power Source		3PH-380V-50Hz							
Refrigerant		R22/R407C/R134a							
Cooling Loop		1	1(2)	1(2)	1(2)	1(2)	1(2)	1(2)	2(3)
Throttle Device		Thermal expansion valve							
COMPRESSOR	Model	Fully enclosed scroll type							
		4.1	6.6	8.2	9.8	14.0	17.0	20.4	25.5
	Rated Current (A)	7.3	12.0	14.6	17.0	23.8	28.8	34.4	43.2
CONDENSER	Model	High effective red copper pipes covered into aluminum fins							
	Airflow (m ³ /h)	5500	9000	12800	12800	16800	22000	30000	30000
	Fan Power (kW)	0.40	0.52	0.76	0.76	1.20	1.60	2.25	2.25
EVAPORATOR	Model	Shell and tube type							
	Water Flow (m ³ /h)	2.4	4.0	4.8	6.0	8.0	10.2	11.9	15.3
	Pipe Size	DN25	DN40	DN40	DN50	DN50	DN50	DN65	DN65
PUMP	Power (kW)	0.75	0.75	0.75	1.50	1.50	1.50	2.20	2.20
	Head (m)	20	16	16	18	18	18	20	20
SAFETY DEVICES		Overload protection, High/low pressure protection							
		Power reverse protection, Low temperature protection							
		Exhaust overheat protection, Frost protection							
MECHANICAL DIMENSIONS	L (mm)	1200	1510	1510	1610	1760	1960	2360	2530
	W (mm)	650	935	935	935	935	935	935	1080
	H (mm)	1200	1760	1760	1760	1760	1800	1800	1990
Weight (kg)		170	380	450	560	650	830	890	980
Cooling Capacity Basis									
Condensing Temperature					50°C				
Evaporation Temperature					5°C				



3. Technical Data

3.2 Water-Cooled Chiller Technical Data

Model		ACW/WS-05 WC	ACW/WS-08 WC(D)	ACW/WS-10 WC(D)	ACW/WS-12 WC(D)	ACW/WS-15 WC(D)	ACW/WS-20 WC(D)	ACW/WS-25 WC(D)	ACW/WS-30 WD(T)
COOLING CAPACITY	Kcal/h×10 ³	13.7	22.5	27.3	34.9	45.2	56.9	68.5	85.4
	KW	15.9	26.2	31.8	40.6	52.6	66.2	79.6	99.3
	USRT	4.5	7.4	9.0	11.5	15.0	18.8	22.6	28.2
Power Source		3PH-380V-50Hz							
Refrigerant		R22/R407C/R134a							
Cooling Loop		1	1(2)	1(2)	1(2)	1(2)	1(2)	1(2)	2(3)
Throttle Device		Thermal expansion valve							
COMPRESSOR	Model	Fully enclosed scroll type							
	Input Power (kW)	3.3	5.2	6.6	7.6	11.6	13.8	16.6	20.7
	Rated Current (A)	6.0	10.0	12.0	13.6	20.2	24.0	28.8	36.0
CONDENSER	Model	Shell and tube type							
	Water Flow (m ³ /h)	3.3	5.4	6.6	8.3	11.0	13.8	16.5	20.6
	Pipe Size	DN25	DN40	DN40	DN50	DN50	DN50	DN65	DN65
EVAPORATOR	Model	Shell and tube type							
	Water Flow (m ³ /h)	2.7	4.5	5.5	7.0	9.0	11.4	13.7	17.1
	Pipe Size	DN25	DN40	DN40	DN50	DN50	DN50	DN65	DN65
PUMP	Power (kW)	0.75	0.75	0.75	1.50	1.50	1.50	2.20	2.20
	Head (m)	20	16	16	18	18	18	20	20
SAFETY DEVICES		Overload protection, High/low pressure protection							
		Power reverse protection, Low temperature protection							
		Exhaust overheat protection, Frost protection							
MECHANICAL DIMENSIONS	L (mm)	1100	1400	1400	1400	1400	1880	1880	2100
	W (mm)	650	700	700	750	750	820	850	850
	H (mm)	980	1180	1180	1280	1280	1450	1450	1450
Weight (kg)		150	350	380	480	520	650	680	780
Cooling Capacity Basis									
Condensing Temperature					40°C				
Evaporation Temperature					5°C				



SAUVERAIN

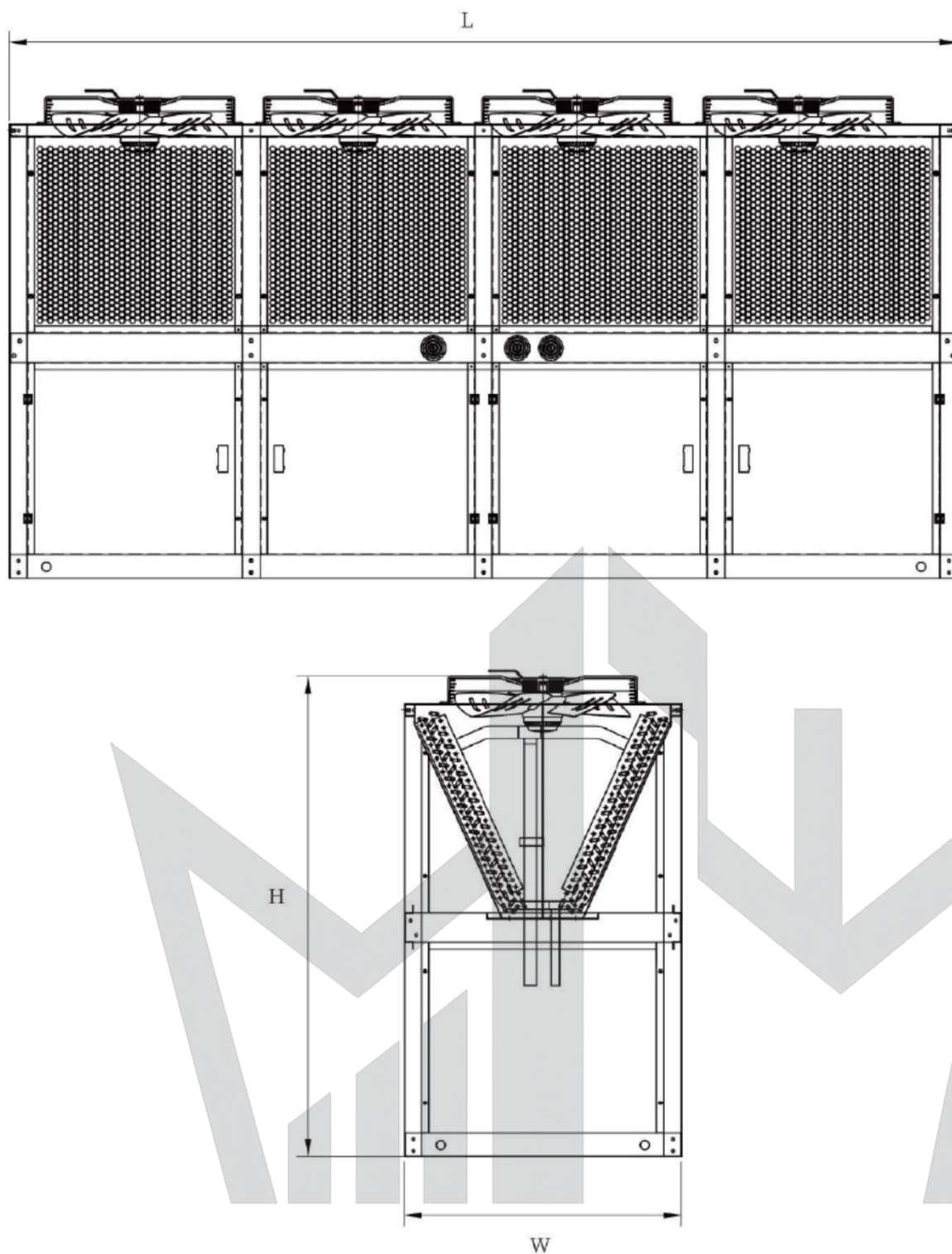


SAUVERAIN

ACW / WS Series

Dimension Drawing

4. Dimension Drawing of Units





SAUVERAIN



SAUVERAIN

ACW / WS Series

Dimension Drawing

4. Dimension Drawing of Units

