

Mfg. All Type of Chiller & Refrigeration Equipment
Installation Services & Maintenance for HVAC Project

OZONE
AIR SOLUTION LIMITED

Water Cooled Process Chiller



High-Performance Water-Cooled Process Chillers for Industrial Applications

Our environmentally friendly water-cooled process chillers are designed for high efficiency and reliability, making them ideal for extreme tropical weather conditions. These scroll chillers are engineered, manufactured, and tested according to international standards, ensuring superior performance in industrial process cooling applications. Temp Rang + 20 C TO -15 C

High-Efficiency Cooling Systems – Capacity from 35 KW to 175 KW | Reliable & Energy-Efficient

Our **high-performance cooling systems** offer a **capacity range from 35 KW to 175 KW**, providing **reliable and energy-efficient solutions** for a variety of industrial applications. Designed to optimize cooling performance and minimize energy consumption, these systems feature advanced technology and environmentally friendly refrigerants.

Water Cooled Process Chiller



Key Features :

- **Capacity ranges from 35 KW to 175 KW**, offering versatile cooling solutions for different scale applications.
- **Reliable and energy-efficient compressors**, designed for long-term operation and optimal energy usage.
- **Separate refrigeration circuits** for each compressor, enhancing system efficiency and reducing potential downtime.
- Uses **environmentally friendly refrigerants** such as **R-407C, R-410A, and R-134A**, contributing to sustainability and reduced environmental impact.
- Fully **automatic PLC-based units** with **remote operation** and **data logging facilities** for easy monitoring and control.
- Features **automatic, stepped capacity control**, utilizing **multiple compressor operation** for precise cooling adjustments, ranging from **50% to 100%** capacity, ensuring energy savings and adaptability to load variations.

These **energy-efficient cooling systems** ensure **optimal cooling performance**, reduce operational costs, and support **environmentally sustainable practices**.

- Multiple scroll compressors, each with a separate refrigeration circuit for enhanced reliability
 - Uninterrupted operation – maintenance can be performed on one module while others remain functional
 - Energy-efficient water-cooled chillers optimized for HVAC, industrial refrigeration, and commercial cooling solutions
- With independent refrigeration circuits, our water-cooled process chillers ensure seamless operation and reduced downtime, making them the perfect choice for manufacturing, pharmaceuticals, food processing, and chemical industries. Backed by our expert engineering team, these high-efficiency chillers provide long-lasting performance while minimizing operational costs.
- For energy-efficient cooling solutions, industrial water chillers, and reliable process cooling systems, our water-cooled scroll chillers deliver unmatched efficiency and sustainability.

Water Cooled Process Chiller Technical Specifications									
Description	Model	OAS120TSLWPC	OAS144TSLWPC	OAS192TRWPC	OAS240TRWPC	OAS280TSLWPC	OAS384TSLWPC	OAS480TSLWPC	OAS600TSLWPC
Cooling Capacity	kcal/h	30094	36113	48151	60189	72226	96302	120378	150472
	KW	35	42	56	70	84	112	140	175
Input Power	KW	12.5	14	16	24	28	32	48	58
Max Current	A	24	30	35	50	60	70	100	138
Power Supply		380-420V/3PH,50Hz							
Refrigerant	Type	R-22 / R-407C / R-410A							
Compressor	Type	Reciprocating / Hermetic Scroll							
	Make	BITZER / EMERSON / DANFOSS							
	Power(KW)	5.9	7.1	8.8	12.45	14.2	17.6	24.9	29.6
	Capacity Control	100%	100%	100%	100%	50%-100%	50%-100%	50%-100%	50%-100%
Condensor	Type	Shell and Tube type heat exchanger							
	Tubes	3/4 " OD Copper Seamless Tube OD Fine 46 FPI grooved for better heat transfer							
	Heating Capacity(KW)	40.53	48.27	69.52	82.59	96.5	139	165	196
	Condensing Temp.	40 C	40 C	40 C	40 C	40 C	40 C	40 C	40 C
	Flow m3/h	7.8	9.3	13.4	16	18.7	20.2	32.5	38.5
	inlet/outlet	1.5"	2"	2"	2.5"	2.5"	2.5"	3"	3"
Evaporator	Type	Shell and Tube type heat exchanger							
	Tubes	5/8 "OD Copper Seamless Integrally finned & Inner Grooved for better heat transfer.							
	Cooling Capacity(KW)	35	42	56	70	84	112	140	175
	Temperature at outlet	7 C	7C	7C	7C	7C	7C	7C	7C
	Temperature at Inlet	12 C	12 C	12 C	12 C	12 C	12 C	12 C	12 C
	Flow m3/h	6	7.2	9.6	12	14	19.3	24.1	30.1
	inlet/outlet	1.5"	2"	2"	2.5"	2.5"	2.5"	3"	3"
Control Panel	Fully Automatic Safety Control ,Digital Temperature Controller, MCB / Contactor / Relay/ SPPR , All Make Schneider and Sensor, RTD Type,Cables- Make Polycab								
Safety protection	Compressor inner protection,over current ,high/low pressure ,over temperature ,flowrate,phase sequence/phase missing ,low level coolant ,anti freezing,exhaust overheat,								
Dimension	Length	1600	1750	1950	2000	1750	1950	1750	2000
	Width	800	950	1100	1050	950	1400	1100	1350
	Height	1250	1250	1400	1400	1600	1600	1600	1600