



Water Cooled Brine Chiller



High-Performance Brine Chillers for Ultra-Low Temperature Applications

Our brine chillers are meticulously designed by our expert team to deliver high-efficiency cooling for ultra-low temperature applications. These industrial chillers utilize glycol-based cooling to achieve operating temperatures as low as -50°C , making them ideal for industries requiring precise temperature control.

To meet diverse industrial refrigeration needs, our brine chillers support multiple refrigerants, including R-22 (Freon), R-407c, and R-134a. Both R-407c and R-134a are environmentally friendly, non-ozone-depleting refrigerants, ensuring sustainable cooling solutions.

High-Efficiency Cooling Systems – Capacity from 112 KW to 1127 KW | Reliable, Energy-Efficient Solutions

Our **high-performance cooling systems** offer a **capacity range from 112 KW to 1127 KW**, designed to provide **superior reliability, high energy efficiency**, and long equipment life for industrial and commercial applications. These systems are engineered to reduce operational costs and ensure **optimal performance** in a variety of cooling environments.

Key Features :

- **Capacity ranges from 112 KW to 1127 KW**, providing flexibility for large-scale cooling requirements.
- **Superior reliability** for consistent, long-term operation with minimal downtime.
- **High energy efficiency**, ensuring reduced operational costs and increased savings.
- **Long equipment life**, minimizing the need for frequent maintenance and repairs.
- **Variable frequency drive (VFD)** option available to optimize energy consumption and improve load adaptability.
- **User-friendly interface** with a **graphical display**, offering easy monitoring and control.
- **Clean energy solutions with intelligent management**, designed for sustainability and reduced environmental impact.
- Ideal **solution for energy-saving equipment**, ensuring lower energy consumption without compromising cooling performance.
- **Easy interface with BMS (Building Management Systems)** through standard protocols for seamless integration.
- **Uses ozone eco-friendly refrigerant HFC-134a**, contributing to environmentally responsible cooling.
- **Highly reliable design with best-in-class COP** (Coefficient of Performance), maximizing efficiency and minimizing energy loss.
- Equipped with an **advanced fully automatic PLC-based controller**, allowing for **remote operation** and **data logging** for precise control and monitoring.
- **Step less capacity control from 25% to 100%**, adapting perfectly to **varying process loads** for energy efficiency.
- **Universal temperature range from +0°C to -45°C**, offering versatile cooling capabilities.
- Includes **anti-freeze safety** and **water flow switches** for enhanced safety and protection.
- **World-class safety controllers** for both **equipment** and **compressors**, ensuring reliable, secure operations.
- **Custom-built machines** available to meet unique project requirements, providing tailored solutions for specific needs.
- **100% functionally tested** to ensure the highest standards of quality and performance.
- Designed and manufactured in compliance with **superior design and manufacturing standards**, guaranteeing premium quality.
- **Extended warranty options** available for up to **1 year**, offering long-term peace of mind.

Ensure high-performance, **energy-efficient cooling systems** with **long-term reliability** and **customized solutions** for your industrial and commercial needs.

- Wide range of compressor options – single-stage open type, double-stage open type, double-stage semi-hermetic, and single-stage screw compressors, designed for different capacities
- Durable construction – fabricated using high-quality raw materials and special alloys like ultra-low-temperature steel for maximum efficiency
- Customizable operating voltages to suit diverse industrial applications
- Our air-cooled brine chillers and water-cooled brine chillers are widely used in industries such as chemical processing, pharmaceuticals, food preservation, and industrial refrigeration. Whether you need low-temperature chillers for specialized cooling or energy-efficient refrigeration systems, our brine chillers provide superior performance and reliability
- Site support with Amc options are available for entire life of equipment's

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Applications :

- Chemical & Pharmaceuticals
- Medical Process
- Laboratory Equipment's
- Food and Beverage Industry
- Food Process Industry

Water Cooled Brine Chiller Technical Specifications																		
Description	Model	OAS480TSWBC	OAS600TSWBC	OAS720TSWBC	OAS840TSWBC	OAS960TSWBC	OAS1080TSWBC	OAS1260TSWBC	OAS1344TSWBC	OAS1560TSWBC	OAS1680TSWBC	OAS2040TSWBC	OAS2280TSWBC	OAS2700TSWBC	OAS3060TSWBC	OAS3480TSWBC	OAS3864TSWBC	
Cooling Capacity	(-) 5 C	KW	120	145	172	190	219	227	287	320	362	350	471	526	615	701	789	865
	(-) 10C		100	123	140	162	185	190	244	273	308	291	396	444	520	589	663	722
	(-) 15 C		84	100	120	135	154	158	205	230	260	240	328	370	434	489	551	597
	(-) 20 C		70	85	98	110	127	130	170	191	216	194	267	304	357	402	453	488
Max. Input Power	KW	52	65	78	88	96	102	112	132	150	160	186	246	255	280	280	332	
Max Current	A	86	108	128	144	162	170	180	216	246	260	310	370	240	450	450	566	
Power Supply		380-420V/3Ph,50Hz																
Refrigerant	Type	R-134A / R-407C / R-404A / R-22A																
Compressor	Type	Compact Screw Compressors																
	Make	Bitzer / Ref-com / Hanbell / Frascold																
	Power(KW)	28.1	34.9	40.8	48.2	52.7	61.8	71.5	74.1	84.6	94.2	106	118	141.8	155	171	212	
	Capacity Control	100-75-50-25% (Standard)																
Condensor	Type	Shell and Tube type heat exchanger																
	Tubes	3/4" OD Copper Seamless Tube OD Fine 46 FPI Outer grooved for better heat transfer																
	Heating Capacity (KW)	171.4	215	255	294	333	384	439	466	537	594	703	794	938	1051	1189	1341	
	Condensing Temp.	40 C	40 C	40 C	40 C	40 C	40 C	40 C	40 C	40 C	40 C	40 C	40 C	40 C	40 C	40 C	40 C	
	Flow m3/h	34.7	44.5	52.6	60.8	69.2	79.9	91.2	96.7	111.2	123.3	145.8	164	194.3	218.6	246.8	278.4	
	inlet/outlet	3"	3"	3"	4"	4"	4"	5"	5"	5"	5"	6"	6"	8"	10"	10"	12"	
Evaporator	Type	Shell and Tube type heat exchanger																
	Tubes	1/2"OD Copper Seamless Integrally finned & Inner Grooved for better heat transfer.																
	Cooling Capacity (KW)	140	175	210	245	280	315	367	392	455	490	595	665	787	892	1015	1127	
	(-) 5 C	Flow m3/h	20.6	25	29.6	32.7	37.7	39.1	49.4	55.1	62.4	60.3	81.2	90.6	106	120.8	136	149.1
	(-) 10C		17.2	21.2	24.1	27.9	31.8	32.7	42.1	47.1	50.1	50.1	68.2	76.5	89.6	101.5	114.3	124.4
	(-) 15 C		14.4	17.2	20.6	23.2	26.5	27.2	35.3	39.6	41.3	41.3	56.5	63.7	74.8	84.3	95	102.9
	(-) 20 C		12.1	14.6	16.8	18.9	21.8	22.4	29.3	32.9	33.4	33.4	46	52.4	61.5	69.3	78.1	84.1
inlet/outlet	3"	3"	3"	4"	4"	4"	5"	5"	5"	5"	6"	6"	8"	10"	10"	12"		
Control Panel		HMI 7" Disply PLC Delta Programabal Fully Automatic Safety Controller , MCB / Contactor / Relay/ SPDR , All Make Schneider and Sensor, RTD Type,Cables- Make Polycab																
Safety protection		Compressor inner protection, over current protection, high/low pressure protection, over temperature protection, flow rate protection, phase sequence/phase missing protection, low level coolant protection, anti freezing protection, exhaust overheat protection																
Dimension	Length	2470	2900	2900	2900	2950	2950	3400	3400	3400	3400	3700	3700	4400	4400	4700	4700	
	Width	1100	1100	1200	1200	1200	1200	1300	1300	1300	1300	1430	1430	1600	1600	1740	1740	
	Height	1400	1450	1450	1500	1600	1600	1750	1750	1750	1750	1800	1800	1850	1850	2050	2050	