



## Air-Cooled Brine Chillers



### Applications :

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

### Energy-Efficient Air-Cooled Screw Chillers with R134a Refrigerant

We are introducing a new generation of air-cooled screw chillers featuring R134a refrigerant, expanding our existing range of R22 air-cooled chillers. These advanced industrial chillers are engineered for high energy efficiency and robust performance, integrating the latest innovations in HVAC cooling technology.

Key features include an R134a-optimized screw compressor, a high-efficiency DX cooler, and an advanced air-cooled condenser, ensuring superior cooling performance. Designed with an intelligent microprocessor control system, these air-cooled chillers operate efficiently in ambient temperatures ranging from -0°C to -45°C. For ultra-low temperature applications reaching -50°C, refer to our brine chillers.

Our screw compressors, sourced from Blitzer (Germany) and frescoed (Italy), ensure exceptional reliability and durability. These chillers are CFC-free and do not utilize harmful refrigerants such as R-407c, R-404A, R-134a, R-410a making them an eco-friendly choice for industrial refrigeration systems, commercial cooling solutions, and HVAC applications.

For businesses seeking energy-efficient chillers, high-performance air-cooled refrigeration systems, and sustainable cooling technology, our next-generation air-cooled screw chillers deliver unmatched efficiency and reliability

### High-Efficiency Cooling Equipment – Capacity from 22.7 KW to 490 KW | Reliable, Energy-Saving Solutions

Our **high-performance cooling equipment** offers a wide **capacity range from 22.7 KW to 490 KW**, providing **superior reliability** and **high energy efficiency** for various industrial applications. Designed for **long equipment life** and **energy-saving solutions**, these systems feature cutting-edge technology and user-friendly interfaces.

# Air-Cooled Brine Chillers



## Key Features :

- Superior reliability with best-in-class COP (Coefficient of Performance) for long-term, efficient operation.
- High energy efficiency, reducing operational costs while maintaining peak performance.
- Variable frequency drive option for energy optimization and load adaptability.
- User-friendly interface with graphical display, making it easy to operate and monitor.
- Clean energy solutions with intelligent management for environmentally conscious operations.
- Ideal for energy-saving equipment across various sectors, optimizing performance with minimal energy use.
- Easy integration with BMS (Building Management Systems) via standard protocols for seamless operations.
- Uses ozone-friendly refrigerant HFC-134a, reducing environmental impact.
- Advanced PLC-based controller with remote operation and data logging capabilities for real-time monitoring.
- Step less capacity control from 25% to 100%, adapting precisely to varying process loads for efficiency.
- Universal temperature range from +0°C to -25°C, providing versatility in cooling applications.
- Anti-freeze safety and water flow switches ensure safe operation.
- Equipped with world-class safety controllers for equipment and compressor protection.
- Custom-built machines available based on specific project needs.
- All equipment is 100% functionally tested to meet the highest standards of quality.
- Designed and manufactured in compliance with superior design and manufacturing standards for optimal performance.
- Extended warranty options up to 10 years for peace of mind.
- Comprehensive site support and AMC (Annual Maintenance Contract) options available for the entire life of the equipment.

Ensure the best performance and long-lasting reliability with our energy-efficient cooling equipment, designed to meet the highest industry standards and environmental requirements

Air Cooled Brine Chiller Technical Specifications															
Description	Model	OAS78TS LBAC	OAS120TS LBAC	OAS144TS LBAC	OAS192TS LBAC	OAS240TS MBAC	OAS300TS MBAC	OAS384TS MBAC	OAS480TS MBAC	OAS600TS MBAC	OAS780TS BAC	OAS1020TS BAC	OAS1140TS BAC	OAS1320TS BAC	OAS1680TS BAC
Cooling Capacity	(-) 5 C	15.54	24.6	28.27	38.03	62.5	73.6	97.1	114	154	191	257	287	323	411
	(-) 10C	12.5	20.6	22.76	30.33	51.1	60.2	79.7	93.4	127	160	217	242	273	342
	(-) 15 C	9.8	16.11	18.13	23.77	41.4	48.5	64.5	75.7	103	133	180	202	228	281
	(-) 20 C	7.6	12.74	14.27	18.19	33	38.5	51.4	60.4	81.4	109	148	166	187	228
Input Power	KW	23	28	32	40	50	52	68	75	100	102	116	138	150	205
Max Current	A	32	40	45	55	70	75	95	108	145	162	185	216	246	330
Power Supply		380-415V 50Hz													
Refrigerant	Type	R-134A/R-407C/R-404A/R-22A													
Compressor	Type	Scroll/semi-hermetic/Scroll													
	Make	Bitzer/Rof-com/Hanbell/Hercold													
	Power(KW)	6.3	11.3	11.73	15.16	26.02	30.2	40.1	47.9	63.4	77.5	102.9	114.6	127.4	160
	Capacity Control	100%	100%	100%	100%	100%	100%	100%	100%	100%	100-75-50-25%	100-75-50-25%	100-75-50-25%	100-75-50-25%	100-75-50-25%
Condensor	Type	Air Cooled Condenser Externally Finned Copper													
	Tubes	3/8" OD Copper inner groove for better heat transfer													
	Heating Capacity( KW)	29.36	47.41	54.04	72.67	102	120	150	185	250	297	395	440	494	637
	Condensing Temp.	50 C	50 C	50 C	50 C	50 C	50 C	50 C	50 C	50 C	50 C	50 C	50 C	50 C	50 C
Fan	Air Flow (CFM )	4400	10400	12000	17500	23400	26000	36000	40800	48000	70600	81600	100500	111300	140070
	Air blower (KW)	0.5	1	1.52	2	3.04	3.04	3.2	4.8	6.4	12	9.6	25	25	35
Evaporator	Type	Copper coil/plate type heat exchanger/ Shell and Tube type heat exchanger													
	Flow m3/h	(-) 5 C	2.6	4.2	4.8	6.5	10.7	12.6	16.7	19.6	26.5	32.9	44.3	49.4	70.8
		(-) 10C	2.1	3.5	3.9	5.2	8.8	10.3	13.7	16.1	21.8	27.5	37.4	41.7	58.9
		(-) 15 C	1.6	2.7	3.1	4	7.1	8.3	11.1	13	17.7	22.9	31	34.8	48.4
		(-) 20 C	1.3	2.1	2.4	3.1	5.6	6.6	8.8	10.4	14	18.7	25.5	28.6	38.9
Pump	inlet/outlet	1"	1"	1"	2"	2"	2"	3"	3"	4"	4"	5"	5"	5"	6"
	Type	Manablock	Manablock	Manablock	Manablock	Manablock	Manablock	Manablock	Manablock	Manablock	Manablock	Manablock	Manablock	Manablock	Manablock
Tank	HP	0.75	0.75	1	1	1	1	2	2	2	3	3	5	5	7.5
	MOC	SS304	SS305	SS306	SS307	SS308	SS309				N/A				
	LTR	119	165	193	257	330	382				N/A				
	Insulation	12 mm HR	12 mm HR	12 mm HR	12 mm HR	12 mm HR	12 mm HR				N/A				
Control Panel	Fully Automatic Safety Control, Digital Temperature Controller, MCB / Contactor / Relay/ SPDP, All Make Schneider and Sensor, RTD Type, Cable- Make Polycab														
Safety protection	Compressor inter protection, over current, high/low pressure, over temperature, flow rate, phase sequence, phase mixing, low level coolant, anti freezing, exhaust overheat,														
Dimension	Length	1690	1050	2050	1945	2100	2340	2830	3150	4300	4320	5190	5990	5900	8250
	Width	950	950	950	1545	1600	1730	1880	1950	1730	2100	1950	2030	2080	2030
	Height	1800	1800	1800	1915	1980	2050	1920	2050	2250	2300	2400	2400	2450	2500