Highly Efficient Water, Glycol & Oil

Optimize your process temperature management

omi-italy.it

Product Group Overview & Key benefits

Our water & oil chillers come in a wide range of sizes, offering **cooling capacities from 0,8 kW up to 465 kW** with power consumption starting as low as 0,88 kW. All our products are **ISO9001 & PED certified** and are **Industry 4.0-ready**, making them a perfect long term investment to improve your operational capability. All of chillers can be configured to match your specific requirements. Browse the catalog to learn more and discover the world of truly efficient chilling equipment.

Flexible solution
Broad range of models and options available to satisfy your unique process needs.

Easy use & maintenance
Ergonomic design along with advanced controls allow for simple & trouble free operation.

Reliable & Efficient
Unique design features and high-quality materials allow for high durability and maximum performance while maintaining low energy consumption.

Ecological
Ecological Refrigerant Gas R513A standard in the smaller models (up to CHW 67 - CHO67) and optional on larger models.

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Industries

In the ever-evolving landscape of industrial refrigeration, the demand for reliable and efficient cooling solutions has never been more critical. OMI water, glycol and oil chillers stand at the forefront of this industry, offering a product range that is not only diverse but also tailored to meet the specific needs of various demanding industrial applications such as laser cutting or food & beverage production and storage.

OMI's water, glycol and oil chillers are built to provide reliable and optimum performance to companies that utilize cooling systems in a variety of industries and applications. Our customer-centric approach enables us to develop products that answer common industrial production pain-points and help ensure uninterrupted operation and efficiency of your business. Hundreds of OMI chillers are already in operation with industry-leading businesses in applications including (but not limited to):

- Gas generation
- Laser cutting
- PET and plastic
- Rollers for paper
- Direct process
- Food & Beverage production & storage
- Laboratories
- CNC machines
- Welding machines

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CNC machines

CHO Series

When it comes to oil chillers, OMI's CHO series is a class apart. These chillers are specifically designed to cater to the unique cooling requirements of **oil-based applications**. With cooling capacities ranging **from 2.9 kW to 14.9 kW**, the CHO series is versatile enough to handle a wide array of industrial needs. Notably, the entire range is equipped with a pump (excluding the CHO 149 model) and operates without a tank. The CHO series also boasts of using **eco-friendly refrigerant gases like R513A and R407C**, ensuring that industries can achieve their cooling objectives without compromising on environmental sustainability.

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CHO series - Performance Range

Model	Connections	Cooling capacity			Power supply	Power consumption		Tank	Fluid temperature				Ambient temperature				Available fluid pressure				Refrigerant gas	Noise level	Dimensions			Weight
									Min		Max		Min		Max		Std		Max				mm			
	BSP	kW	Kcal/h	Btu/h	V/ph/Hz	kW	A	l	°C	°F	°C	°F	°C	°F	°C	°F	bar	psi	bar	psi		dB(A)	W	D	H	Kg
CHOM 29	1"	2,9	2500	9910	230/1/50	2,03	11,1	10	25	77	30	86	2	37	40	104	2	29	8	116	R513A	<70	580	650	980	99
CHOM 39		3,9	3360	13320	230/1/50	2,26	11,2	30	25	77	30	86	2	37	40	104	2	29	8	116	R513A	<70	580	650	980	110
CHOT 29		2,9	2500	9910	400/3/50	1,88	3,8	30	25	77	30	86	2	37	40	104	2	29	8	116	R513A	<70	580	650	980	99
CHOT 39		3,9	3360	13320	400/3/50	2,14	4,1	30	25	77	30	86	2	37	40	104	2	29	8	116	R513A	<70	580	650	980	110
CHOT 56		5,5	4730	18790	400/3/50	3,44	6,2	60	25	77	30	86	2	37	40	104	2	29	8	116	R513A	<70	580	650	980	123
CHOT 67		6,7	5770	22890	400/3/50	3,09	5,7	60	25	77	30	86	2	37	40	104	2	29	8	116	R513A	<70	580	650	980	125
CHOT 97	1" ½	9,7	8350	33130	400/3/50	5,05	9,9	100	25	77	30	86	2	37	40	104	2	29	8	116	R407C	<80	760	760	1335	140
CHOT 130		13,0	11190	44410	400/3/50	5,63	12,1	100	25	77	30	86	2	37	40	104	2	29	8	116	R407C	<80	760	760	1335	150
CHOT 149		14,9	12820	50900	400/3/50	3,64	6,7	100	25	77	30	86	2	37	40	104	2	29	8	116	R407C	<80	760	760	1380	170

Performances refer to the following operating conditions: 25°C (77°F) ambient temperature, 20°C (68°F) fluid outlet temperature, fluid type: ISO VG 32 oil.
The entire range is supplied with pump (excluded CHO 149) and without tank.

Contact our team for detailed information about correction factors, configurations and options.

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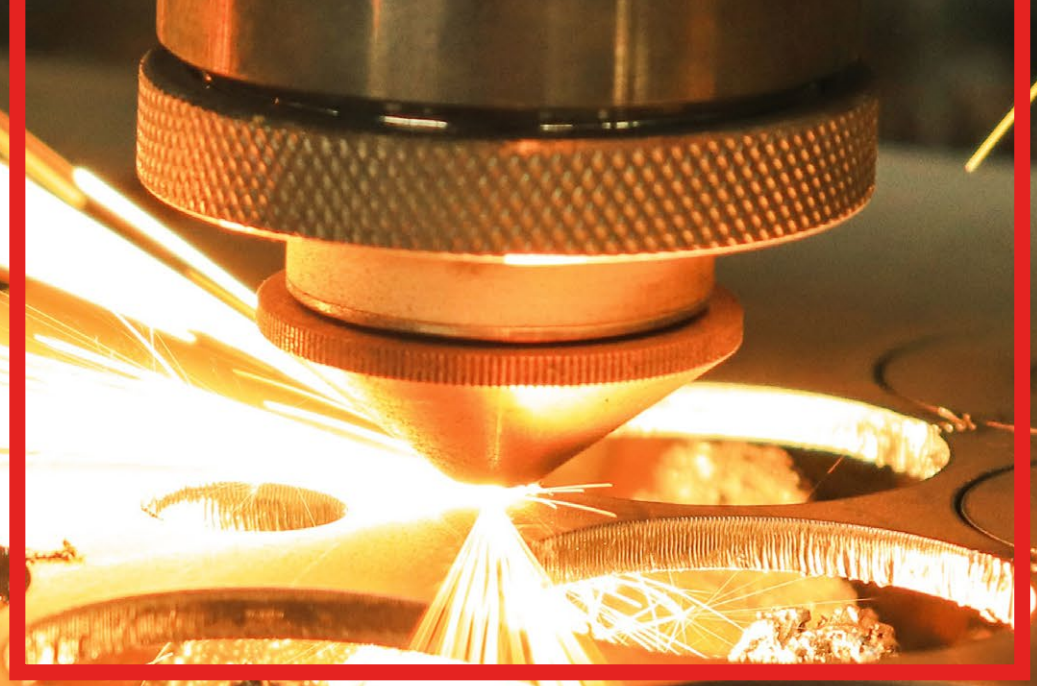
Optional features
& upgrades



- **Internal by-pass with pressure gauge** - This device allows the chiller to operate properly even if the plant is disabled or closed. Recommended in case of multiple applications.
- **Special pumps (silenced, high pressure, stainless steel and more)** - Silenced pumps for indoor ambient, stainless steel pumps suitable for aggressive liquids, vane pumps for high pressure applications, etc.
- **Out of standard voltages**
- **Low ambient temperature kit** - ideal for installations in environments with temperatures down to -15°C.
- **Support heaters** - used as antifreeze, from 350W to 3000W,used like antifreeze protection or in particular applications, to warm up the liquid media at required value automatically before start the production.
- **Water condenser** - Shell and tube condenser for fresh and sea water applications.
- **Remote display** - To monitor chiller performance remotely.
- **Centrifugal fans** - Ideal option for installations with conduits to dissipate the heat from the condenser.
- **Stainless steel fittings** - For installations in slightly corrosive environments or liquids.

- **Flow switch and level** - Options that can be installed separately or combined. They monitor fluid flow and tank level. In case of no flow or level below the set point, the compressor is switched off first, then the pump. Automatic reset.
- **Control box for high temperatures** - For installations in high temperature environments up to 50°C.
- **Industry 4.0** - Controller equipped with Modbus RS-485 Connection.
- **Valve kit for level difference** - Option suitable for systems with long external pipes or where application is located in a higher position compared to the chiller. If the chiller is off, the non-return valve and solenoid valve prevent the water from entering the device and from overflowing from the tank.
- **Condenser air filter** - Air filter, removable and washable, which keeps the condenser clean and efficient to maximize the heat exchange.
- **Wheels** - The wheels allow you to make the chiller mobile: the wheels are equipped with brakes.
- **Accuracy +/- 0,5°K** - Option suitable for applications where a high precision of the process fluid temperature is required.

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