



Air Cooled Water Chiller - MRS

MRM industrial grade water chillers are available in cooling capacity range from 13 to 75 kW, with water working temperatures ranging from 0°C to 25°C and suitable for indoor or outdoor installation. The standard configuration is designed for an ambient temperature up to 45°C

These units are equipped with up to four hermetic rotary Scroll compressors in one or two refrigeration circuits with ozone-friendly refrigerant R410A, axial-flow fans and microchannel full-aluminium condenser.

Characterized by very small footprints, these chillers are particularly suited for installation close to processing machines.



Versions

- ► Fan Type
 - ► AC: on-off asynchronous fans
 - ▶ EC: brushless EC variable speed fans
 - ▶ EH: high pressure EC fans, suitable for ducting indoor installation
- Evaporator Type
 - ▶ **BP:** Brazed-plate
 - ► **S&T:** shell-and-tube
- ► Water Configuration Type
 - N: no pumps and tanks
 - ▶ M: with evaporator pump only
 - P: with tank and process pump

R410A

Scroll

Advantages

- ▶ Reduced footprint
- ▶ FC version with integrated Free Cooler (saving more than 60% of energy)
- Microchannel condenser and free cooler with low refrigerant charge and with low air pressure drop
- ▶ Easily cleanable microchannel condenser using pressure washer

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Technical Features

Chiller System

- Scroll compressor;
- ▶ 1 refrigerant circuit;
- R410A refrigerant;
- ▶ High and low pressure gauges

High efficieny microchannel aluminium condenser

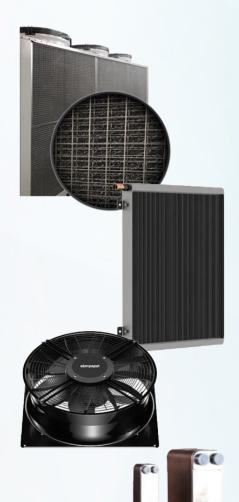
- ▶ Higher efficiency and performances
 - ▶ Heat exchange from +20% to +40% compared with finned tube models
 - Reduction of air-side pressure drops
 - ▶ Lower weight and reduced dimensions
 - ▶ Thinner profile than finned tube models
 - ▶ 60% lower weight compared to finned tube models
- Proven reliability
 - ▶ Robust design and easy to clean with pressurised water
 - Process and materials proven over time
 - Engineered with long-life aluminium alloys
- Low cost
 - ► Lower refrigerant charge
 - Optimised material cost

Fan Type

- AC: asynchronous on-off fans
 - For temperatures greater than -15°C
- ▶ EC: brushless fans with variable speed
 - ▶ For ambient temperatures greater than -25°C
- ▶ EH: high head EC fans
 - Suitable for ducting on indoor installations (heat recovery)
 - ▶ For ambient temperatures greater than -25°C

Evaporator

- ▶ BP: brazed plates
 - All configurations available
 - ▶ SS316L copper brazed plates
 - Oversized exchange surface
 - ▶ Reduced dimensions and high-efficiency herringbone pattern
- ► S&T: shell
 - ▶ Available on MRS121-161-191 no-tank configurations only
 - ► Cleanable
 - Gas and water low approach
 - Carbon steel body and copper pipes
 - Anti-corrosion extra thick design





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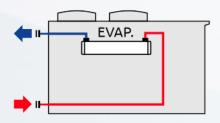




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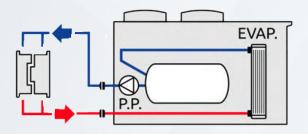
Technical Features

- ► Self water-filling
- ▶ Chilled-water storage tank pressurized and insulated
- ► Galvanized steel frame and panels, painted with polyester powders
- Stainless steel pumps

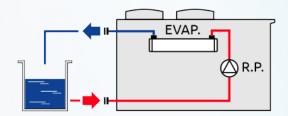


N: without pumps and tank

Process pumping stations available on request for GPP/GPV series, with and without inverters, recirculating pumping stations and its storage tanks.



P: with tank and process pump



M: with evaporator's pump only

Process pumping stations available on request for GPP/GPV series, with and without inverters.

Built-in Freecooling option

Some versions are available with built-in freecooler system. This version, using the ambient air, allows to cool the wa-ter from the process, by shutting down, partially and/or completely,the refrigerating unit, resulting in energy savings.

MRS (FREE COOLING) EVAP. P.P. FREECOOLER

Options

- ► Cold Climate for no glycol systems when Tamb <0°C
- ► Electrical cabinet heater for glycol systems when Tamb <0°C
- ▶ Remote control with 30m of cable
- ► Y water filters
- ► Wheels
- Opened loading tank option
- ▶ Metal air filter on condenser



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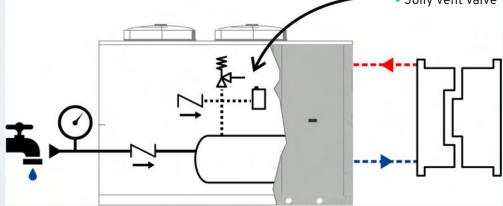
Hydraulic Supply

Standard models with internal tank "P"

- Filling by water system
- ▶ The pressure of the inner tank is determined by the water supply
- ▶ External water and glycol charging kits available

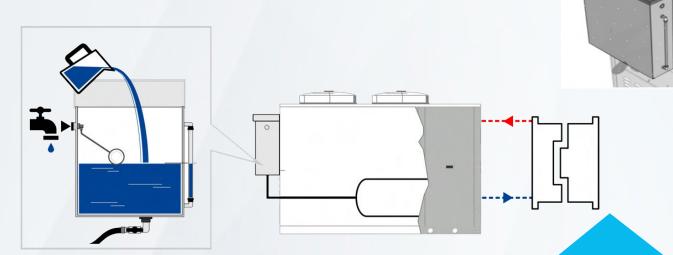
Safety Devices

- ▶ Vacuum breaker valve
- ► Safety valve
- ▶ Jolly vent valve



Models with internal tank "P" and tray for manual loading

- Consisting of a stainless steel tray with flap lid
- ▶ Allows manual loading of water, or water-glycol mixture
- ▶ Allows automatic loading with float if connected to water system
- Equipped with internal visual level indicator



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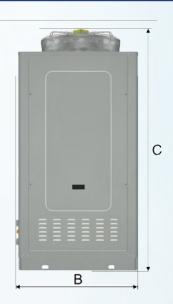




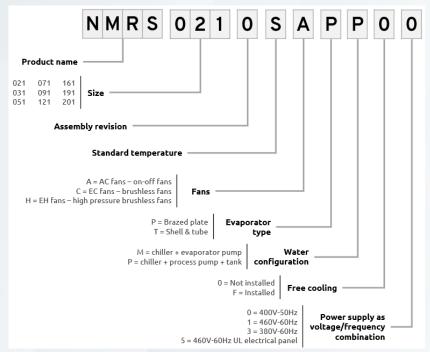
Frigel Industrial Chiller Technical Data - 60Hz

	Industrial Chiller Air - MRS (Heavygel)									
Model		21	31	51	71	91	121	161	191	201
А	mm	820	820	1,360	1,360	1,360	1,810	1,810	1,810	1,810
В	mm	688	688	690	690	690	890	890	890	890
С	mm	1,631	1,631	1,827	1,827	1,827	1,865	1,865	1,865	1,865





Order Code



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