



Industrial Chiller

Air Cooled Water Chiller - MRS



MRS 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.

Characterised 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

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We have 30+ years experience controlling temperature for the world's most demanding industries.



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







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



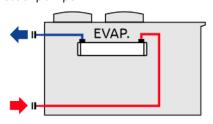




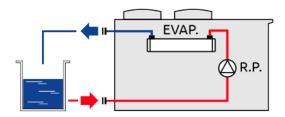


Technical Features

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

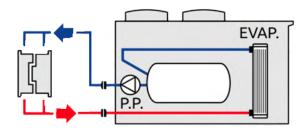


N: without pumps and tank



M: with evaporator's pump only

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



P: with tank and process pump

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**

Option

- 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

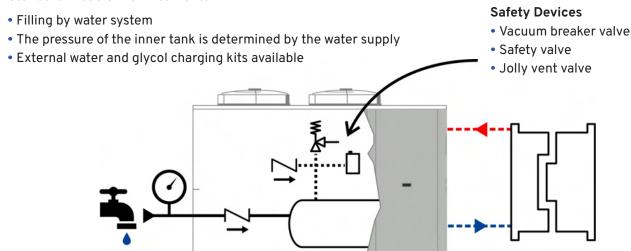






Hydraulic Supply

Standard models with internal tank "P"



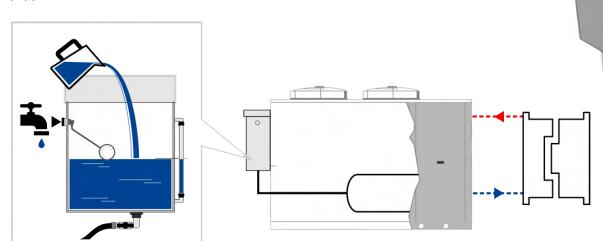
Models with internal tank "P" and tray for manual loading

· 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







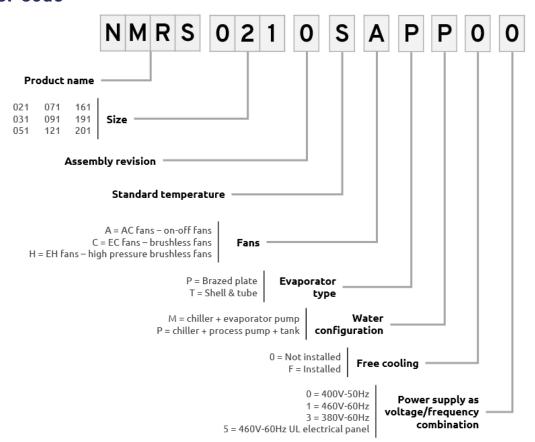


Industrial Chiller Air - MRS (Heavygel)										
Model		21	31	51	71	91	121	161	191	201
Α	mm	820	820	1,360	1,360	1,360	1,810	1,810	1,810	1,810
В	mm	688	688	690	690	690	890	890	890	890
С	mm	1,631	1,631	1,827	1,827	1,827	1,865	1,865	1,865	1,865





Order Code



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