



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



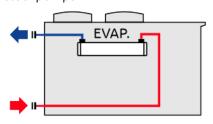




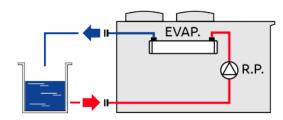


Technical Features

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



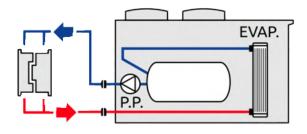
N: without pumps and tank



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







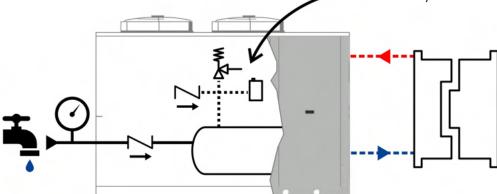
Hydraulic Supply

Standard models with internal tank "P"

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



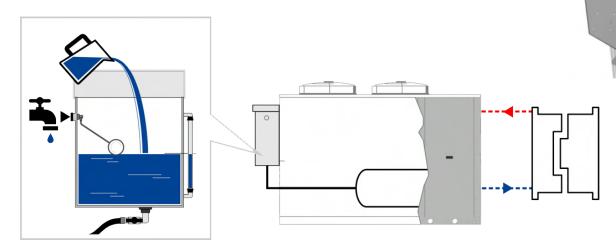
Models with internal tank "P" and tray for manual loading

• 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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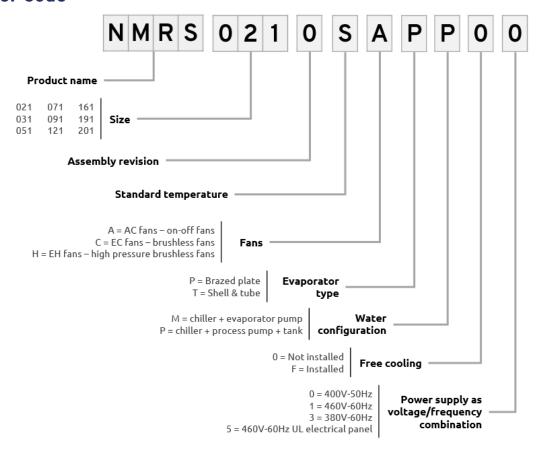


Industrial Chiller Air - MRS (Heavygel)										
Model		21	31	51	71	91	121	161	191	201
Α	mm	820	820	1,360	1,360	1,360	1,810	1,810	1,810	1,810
В	mm	688	688	690	690	690	890	890	890	890
С	mm	1,631	1,631	1,827	1,827	1,827	1,865	1,865	1,865	1,865





Order Code



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