



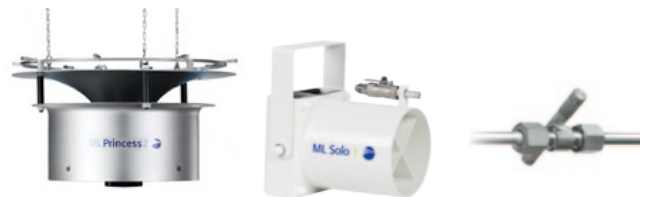
Maximum Performance

System Solutions for industrial
Humidification and Cooling

ML **Princess**

ML **Solo**

ML **Flex**



Humidification
and Evaporative Cooling

**condair**
SYSTEMS



Your advantages

When it has to be more

The ML systems are designed for high-volume humidification applications. The individual modules have flexible expansion options and some offer unlimited humidification capacities. Customer-specific combined water treatment systems can handle volumes up to 10,000 litres.

Flexibility

All ML systems are planned and executed as customer-specific projects. Depending on requirements, a range of nozzle sizes can be selected, as well as different diameters for the high-pressure hoses and variable water supply capacities. This guarantees the assembly of a plant system that is precisely tailored to match requirements and on-site conditions.

Stainless steel for safety

All parts of ML products that convey water are made from stainless steel. This guarantees a long useful life and uncompromising hygiene.

High pressure – low energy

High pressure humidification offers low operating costs and reduced cooling costs. The evaporation of water particles in air requires energy, 0.68 kW per liter of atomized water which is taken from the surrounding air.

Service and safety

We offer maintenance service contracts to guarantee trouble-free system operation. All ML products satisfy stringent hygiene standards. As an extra level of safety, we run microbial and bacterial tests on plant during servicing.

ML System

ML Princess



ML Solo



ML Flex



MLP RO

Water treatment

- Standard water treatment
- UV-light Particle filtration
- Optional water treatment water softening
- Chlorine filtration
- Silt filtration
- Microbiological filtration
Bacteria filter
- TDS filtration
Reverse Osmosis 95–98%
Double RO >98%
Ion exchange >98%



MLP RO

2 in 1

The MLP RO packages the required reverse osmosis unit and high-pressure pump into a single, space-saving system. It is compatible with all ML products. Modules in a range of separate sizes are integrated to match humidification volume – and even high-capacity systems require only a single installation footprint. The systems are naturally also available without reverse osmosis, if this feature is not required.

High pressure, high quality

The high-pressure pump is manufactured from high-quality stainless steel. It works using water hydraulics and is therefore completely oil-free. This saves on maintenance work and extends product lifetime. We guarantee 8,000 maintenance-free hours of operation for the high-pressure pumps in the first two years.

Crystal-clear water

The reverse osmosis unit fitted to the MLP RO removes minerals from the water supply, ensuring trouble-free and hygienic water fogging. The pores of the membrane used are so fine that they can filter out 95–98% of all minerals and bacteria.

ML Princess

High capacity

The ML Princess is suited to large manufacturing and production areas to maintain consistent levels of humidification in very large spaces with high ceilings.

A choice of performance options

Depending on the humidification volume required, the ML Princess can be fitted with 8 or 12 high-pressure nozzles. This means performance options can be chosen to ensure the economical matching of volume to requirements.

Uniform humidification

The ML Princess consists of a high-pressure ring plus an in-built fan. The fan distributes the moisture within the room to ensure that a uniform level of humidity can be evenly distributed throughout the space.



ML Solo

ML Flex System

Custom positioning options

The ML Solo high-pressure air humidification system offers solutions especially suited to different spatial conditions such as low ceilings or angled rooms.

Easily adjustable

The ML Solo 1 and 2 can be attached either to ceilings or walls, and can thus accommodate the individual needs of any interior.

Targeted humidification

The ML Solo is fitted with easily adjustable support brackets, which enable precise orientation of the units. Water is directed into the room with high precision and at high pressure. The optimum fan design ensures the humidifying fog is directed precisely into the room and immediately absorbed by ambient air.

Direct, zoned air humidification

ML Flex is impressively easy to install and has very low running costs. Deployment in explosion-secure areas is also possible, since no electronic modules are fitted to the nozzles, thus avoiding both heat generation and sparking.

Unlimited combination options

The ML Flex system has a wide range of possible applications, which are modified to suit the individual conditions on site. The system can be mounted onto both walls and ceilings. Since the high-pressure nozzles are engineered as T-pieces, they can be adjusted individually to set the nozzles as desired. Humidification volume can be expanded without restrictions.

Stainless steel technology

The ML Flex system is made from high-quality stainless steel, which guarantees a long-term return on your investment.

Technical details

MLP RO

	MLP RO 100	MLP RO 300	MLP RO 500	MLP RO 800
Humidification performance (l/h)* at 50 Hz	100	265	440	750
Dimensions (H x W x D)	860 x 700 x 1600 mm	860 x 700 x 1600 mm	860 x 700 x 1600 mm	860 x 700 x 1600 mm
Weight (kg)	125	130	240	270
At 50 Hz	220 – 240 V / 380 – 415 V3	220 – 240 V / 380 – 415 V3	220 – 240 V / 380 – 415 V3	220 – 240 V / 380 – 415 V3
– Power consumption (kW)	0,50	0,75	1,50	2,20
– RO performance (kW)	0,37	0,75	0,70	1,57

* For potable water

ML Princess

	ML Princess 2	ML Princess 3
Humidification performance (l/h)	12–40	18–54
No. of nozzles	8	12
Operating pressure	35–70 bar	35–70 bar
Operating voltage	200–240 VAC	200–240 VAC
Power input (W)	75	120
Weight (kg)	6	8
Dimensions (diameter/height)	540/310 mm	660/330 mm

ML Solo

	ML Solo 1	ML Solo 2
Humidification performance (l/h)	1,5 – 2,5	3 – 5
No. of nozzles	1	2
Operating pressure	50 – 70 bar	50 – 70 bar
Operating voltage	24 VAC, 50 – 60 Hz	24 VAC, 50 – 60 Hz
Power input (W)	15/16	15/16
Weight (kg)	2	2
Dimensions (H x W x D)	180 x 150 x 170 mm	180 x 150 x 170 mm
Installation	Ceiling- or wall-mounted	Ceiling- or wall-mounted

ML Flex

	ML Flex
Humidification performance (l/h)	1 – ∞
Operating pressure	35 – 70 bar
Min. distance to ceiling	200 mm
Min. fogging zone	1,5 m