



ML  
SERIES



Power, Purity and Precision - When you Need it Most!

# Condair ML Series

## High Pressure Direct Room Systems



Humidification, Dehumidification  
and Evaporative Cooling





## 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 5.5, 9.9, or 14.3 lb/hr 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



## MLP Solo

### Customised installation options

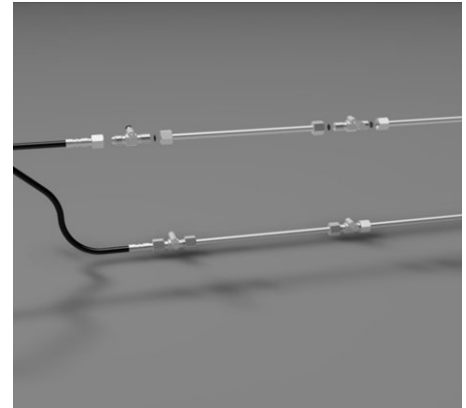
The ML Solo high pressure air humidification system offers solutions especially suited to different spatial conditions such as low ceilings or angled rooms.

### 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.



## ML Flex System

### 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. The ML Flex system is made from high-quality stainless steel.

## 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 are integrated to match humidification volume – and even highcapacity systems require only a single installation footprint. The systems are also available without reverse osmosis.

### 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; guarantee 8,000 maintenance-free hours of operation. We have delivered systems of more than 2,600 gallons (10,000 liters) an hour.

### 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.

## When It Has To Be More!

Our solutions are designed for various humidification applications. The individual modules have versatile expansion options and some offer unlimited humidification capacities. Customer-specific combined water treatment systems can handle volumes up to 2,600 gallons (10,000 liters).

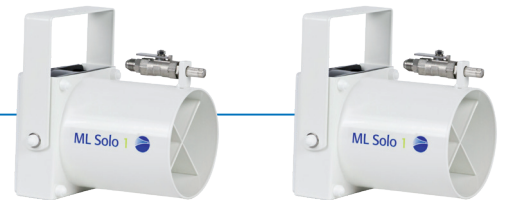
All solutions are planned and executed as customer-specific projects. Depending on requirements, a range of nozzle sizes can be selected, as well as different diameters for the high pressure hoses and variable water supply capacities. This guarantees the assembly of a plant system that is precisely tailored to match requirements and on-site conditions. All parts of ML products that convey water are made from stainless steel. This guarantees a long useful life and uncompromising hygiene. We are ISO 22000 hygiene certified for production, sale, installation and maintenance of humidification systems.



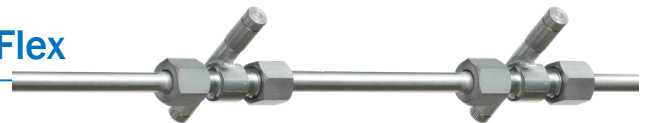
**ML Princess**



**ML Solo**



**ML Flex**



**MLP RO**

### Water Treatment

- UV-light sterilisation
- Water softening
- Chlorine removal
- Silt filtration
- Microbiological filtration  
Bacteria filter
- TDS filtration  
Reverse Osmosis 95-98 %  
Double RO > 98 %  
De-ionized water

## Technical details

### MLP RO

	MLP RO 100	MLP RO 300	MLP RO 500	MLP RO 800
Humidification performance (lb/hr)* at 60 Hz	220	700	1100	1760
Dimensions (H x W x D) for pump station	34" x 28" x 63"	34" x 28" x 63"	34" x 28" x 63"	56" x 28" x 63"
Dimensions for external tank	Internal tank	Internal tank	24" dia. x 39" H	31" dia. x 49" H
Weight	275 lb (125 kg)	286 lb (130 kg)	530 lb (240 kg)	595 lb (270 kg)
At 60 Hz	3 x 208 VAC+GND 1.6KW 20A or 3 x 480 VAC+GND 1.8KW 20A	3 x 208 VAC+GND, 2.7KW, 20A or 3 x 480 VAC+GND 2.7KW 20A	3x208 VAC+GND, 3.1KW, 20A or 3x480 VAC+GND, 3.1KW, 20A	3x208 VAC+GND 4.2KW, 20A or 3x480 VAC+GND, 4.2 KW, 20A

\* For potable water

### ML Princess

	ML Princess 2	ML Princess 2 Max
Humidification capacity (lb/hr)	80	115
No. of nozzles	8	8
Operating pressure (psi)	525-1070	525-1070
Operating voltage	100 – 120 VAC	100 – 120 VAC
Power input (W)	26	49
Weight (lbs)	20	20
Dimensions (diameter/height)	21" / 12"	21" / 12"

### ML Solo

	ML Solo 1	ML Solo 2
Humidification performance (lb/hr)	3.3-5.5	11-20
No. of nozzles	1	2
Operating pressure (psi)	600-1070	600-1070
Operating voltage	24 VAC, 50 – 60 Hz	24 VAC, 50 – 60 Hz
Power input (W)	15 / 16	15 / 16
Weight (lbs)	4.4	4.4
Dimensions (HxWxD)	Example: 7.1" x 5.9" x 6.7"	Example: 7.1" x 5.9" x 6.7"
Installation	Ceiling- or wall-mounted	Ceiling- or wall-mounted

### ML Flex

	ML Flex
Humidification performance (lb/hr)	1 – ∞
Operating pressure (psi)	600 - 1070
Min. distance to ceiling	10"
Min. room height	8.0 ft

Condair manufactures a comprehensive range of humidifier and evaporative cooling systems across all humidification technologies. Whether for people or equipment, Condair's humidification engineers are able to provide the right solution to meet the needs of every environment.

**Contact us today and ensure you have the best humidification solution for your building.**

Experts in YOUR industry trust Condair - so should you!

- Tacoma Art Museum
- Rock & Roll Hall of Fame
- Lockheed Martin
- Harley Davidson
- Texas Instruments
- Keurig
- Boeing
- GE Health
- Candian Broadcasting Corporation (CBC)
- Tufts University - Timko Lab
- Facebook
- ULINE
- Duke University Greenhouse
- JABIL - Flextronics
- 3M Corporation
- Gentex
- Hewlett Packard
- Honeywell

