



ML  
SERIES



# ML Series Direct Room Humidifiers

In-Space Humidification Sensation



ML Solo



ML Princess

Humidification, dehumidification  
and evaporative cooling



# Condair ML Series

## When You Need Direct Room Humidification



Condair specializes in the design and production of superior humidification systems and cooling. Our future depends on our ability to understand the needs of all our customers. We create the most appropriate solutions to their specific needs in the most efficient way. To this end, we draw upon our extensive experience to develop an ever-growing range of products that will provide our customers with maximum reliability, minimum maintenance and a choice of energy sources.

The Condair ML Series product line is no exception. This direct room humidification solution offers low operating costs, reduced cooling costs and requires minimal maintenance. Suitable for a wide range of applications – from production facilities to office environments – direct room humidifiers efficiently maintain consistent relative humidity levels.

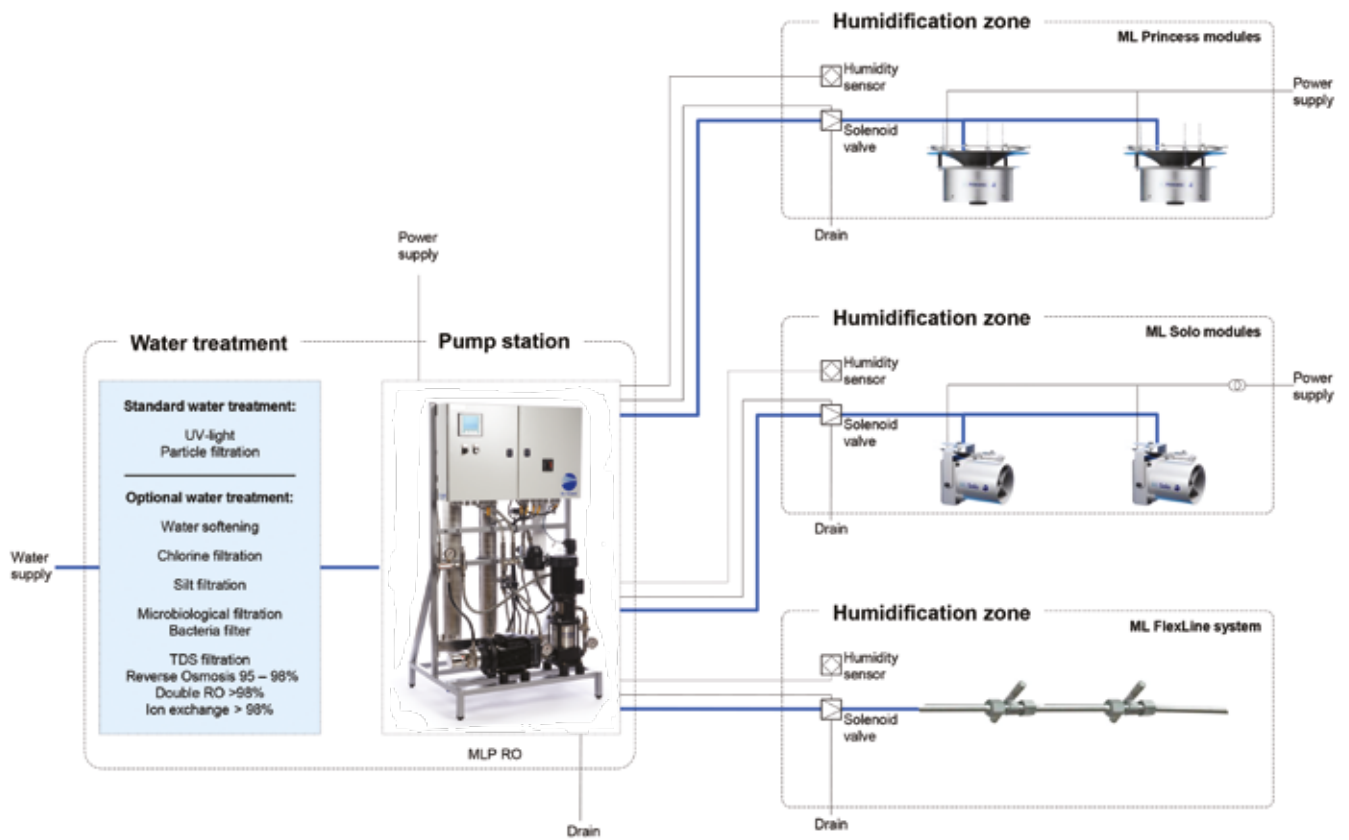
Experts in your industry trust the Condair ML Series to increase their profits - so should you.

Experts such as:

- Boeing
- Harley Davidson
- Keurig
- Honeywell
- Amazon
- Rock and Roll Hall of Fame
- JABIL
- Flex
- 3M Corporation
- GE Healthcare
- Facebook
- Siemens
- Gentex
- Tacoma Art Museum
- Duke University
- Texas Instruments



## ML Series



# ML Series Humidification Modules



ML Princess

All ML Series humidification modules can be combined in one or more rooms or halls depending on space, room configuration, type of production and similar factors.

ML Princess is a ceiling or wall mounted humidifier. This high-pressure humidifier is ideal for use in production areas, warehouses, industrial applications and does not require compressed air. The integrated fan distributes the fog uniformly in a 360-degree fashion.



ML Solo

ML Solo high-pressure humidifier provides energy-saving humidity control and evaporative cooling directly to the room. Ideal for applications with small moisture requirements such as fruit and vegetable departments, or rooms with low ceilings.

ML Flex is a high-pressure humidifier for use in industrial productions and horticulture as well as for dust suppression and evaporative cooling. Suitable for high ceilings and perfect for explosion proof projects because there is no electrical needs. The system is ideal for adiabatic cooling of items, or in zones where a significant cooling effect is required.



ML Flex System

Experts in various industries trust the Condair ML Series for their humidification solutions - so should you.

Industries such as (but not limited to):

- Printing
- Electronics
- Offices
- Call Centers
- Produce
- Textile
- Woodworking
- Data Centers
- Life Sciences
- Agriculture



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## ML Series Specifications

SPECIFICATION	ML PRINCESS 2	ML PRINCESS 3	ML SOLO 1	ML SOLO 2	ML FLEX SYSTEM
Nozzles	8 stainless steel nozzles	12 stainless steel nozzles	One stainless steel nozzle with adjustable vaporization angles	Two stainless steel nozzles with adjustable vaporization angles	Customized nozzle and stainless steel pipe system with two stainless steel nozzle designs for full evaporation
Capacity – lbs/hr (kg/hr)	Up to 80 (36) with full evaporation	Up to 120 (54) with full evaporation	5.5 (2.5) - 10 (4.5)	11 (5) - 20 (9)	5.5 (2.5) - 10 (4.5) per nozzle
Built-in Distribution Fan	Even humidification at 55 dBa and 100W	Even humidification at 59 dBa and 160W	Low noise for even humidification at 34 dBa	Low noise for even humidification at 37 dBa	N/A
Ceiling Heights – ft (m)	As low as 12 (3.6)	23 (7) or higher	As low as 8 (2.4)	As low as 8 (2.4)	24 (7.3) or higher
Mount	Ceiling or wall	Ceiling or wall	Ceiling or wall	Ceiling or wall	Suspended, ceiling, or wall
Recommended Use	Humidification and cooling in large manufacturing and production areas in all industries	Humidification and cooling in large manufacturing and production areas in all industries with high ceilings	Small work areas and offices	Small work areas and offices	High racking, explosion-proof and very dusty environments. Customized array construction for induct or plenum spaces.

# Pump Station



## Why Choose the ML High Pressure Series Pump Station?

- Modular design to fit many air handling units (AHU) and zones or spaces
- Connect 1 HP pump to numerous AHU's and zones saving on total costs
- Extremely low energy consumption when compared to steam humidifiers (save 90% of total energy)
- The best high pressure nozzle system out there. Nozzles atomize water into micro-fine particles. Anti-drip nozzles and many different size nozzles (3.3, 5.5, 10 or 13.2 lbs/hr)

## ML High Pressure Pump Station and Control: Standard Components

- Consistent high pressure 1000 psi for fine atomization
- High-clean water filtration
- Temperature and pressure pump safety protection
- Water meter
- Hour meter
- UV sterilization of water
- Siemens PLC humidity zone controllers with auto flush feature
- Corrosion resistant materials
- Water lubricated stainless steel Danfoss pump (very low maintenance)
- Turn-key assembly on self-contained single skid frame
- Available capacity from 264 to 6,600 lbs/hr (120 - 3,000 kg/hr)
- True n+1 (or n+2, even n+3) redundancy available for entire systems or pumps
- Directly coupled motor to pump – never belt driven – no belts to change

## Integrated Reverse Osmosis System and more

- Ultra-clean demineralized water filtration
- 5 micron sediment pre-filter
- Processes normal tap water
- Ultra-clean demineralized water filtration
- Fully compatible with ML high pressure systems
- Nozzle clogging protection
- Clean In Place (CIP) add-on available to periodically dose the water with sanitizing agent. For ultra low bacteria count and keeping the system hygienic.
- Electrical conductivity sensors to measure water hardness and mineral quantity
- Modular add-ons to allow for deionized (DI) water production and CO2 dosing

# Service



Having your humidification equipment serviced regularly will ensure reliability, maximize performance, prolong life and improve moisture stability.

Condair has the expertise to provide complete service for the life of your humidification system. From initial design and engineering through comprehensive installation, startup and on-going maintenance, Condair has you covered.



We provide:

- Complete on-site training on the operation and maintenance of your equipment
- Comprehensive preventive maintenance program
- BQ bacteria testing on-site to ensure optimum water quality
- Installation and repair service by factory trained technicians

Condair knows your equipment the best. Contact us first for all of your service and support needs.

# Ultra Hygienic Systems

Rest assured that your direct room system will operate at peak hygienic conditions, backed by the most rigorous certification for hygiene and safety.

Condair is not only the leader in humidification, but is also the leader in hygiene. Trust Condair to ensure perfect safety and hygiene with reverse osmosis (RO) filters, micron filters, ultra-violet (UV) disinfection, automatic line flush and purging, BQ testing, disinfection, routine preventative maintenance, and the best certification for hygiene.

We can provide:



As the leading manufacturer of commercial/industrial humidification systems for more than 70 years, Condair has the technology and application expertise to meet the needs of any application.

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

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