



**2025**  
COMMERCIAL  
PRODUCT CATALOG

Humidification, Dehumidification and Evaporative Cooling





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# *Humidity for a better life*

## VISION

To create healthier built environments and increase productivity with the optimal humidity for a better life.

## MISSION

Driven by our customers' needs and supported by science, we engineer reliable, sustainable solutions.



## ABOUT CONDAIR

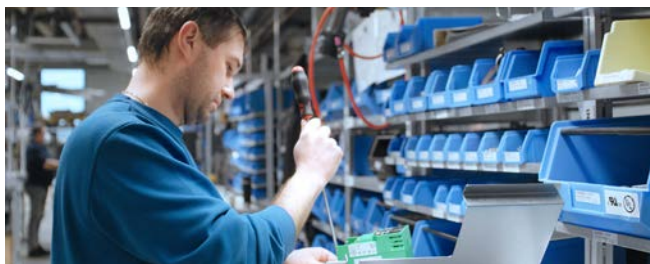
Conair Group, founded in 1948 and based in Switzerland is the global leader in humidification, dehumidification and evaporative cooling. Supported by science, we engineer individual, holistic solutions that customers can trust through the entire lifecycle. With optimal humidity, we increase productivity and create healthier built environments. Conair Group has production sites in Europe, North America and China, its own sales and service organizations in 23 countries, and representatives in 50 locations worldwide.

With a holistic approach, we optimize our systems and bring solutions to our customers in the context of the building and the heating/cooling systems to optimize the sustainable use of resources in the application.

Energy and resource efficiency from product development to integrated electronic regulations provide optimum control of processes, thus ensuring the most highly energy-efficient and water-saving operation of our solutions. We strive to achieve energy and resource efficiency through the complete product life cycle. From initial product development, through manufacturing, operation, and end of life. With our expertise we support our customers in finding solutions to save energy and boost productivity.

Scientific studies prove that a relative humidity of between 40-60% is optimal for our immune system, successfully fights viruses and bacteria, and protects our health.

With its innovative air humidification systems, Conair sets new standards in comfortable and energy-efficient indoor air hydration. With the new HumiLife product portfolio, Conair also offers individual solutions in health, productivity, and sustainability for offices and private households.



Customers can rely on Conair's comprehensive portfolio of innovative technologies for air humidification, dehumidification, and evaporative cooling for the entire life cycle of each product. We are pleased to support our customers in implementing their projects and visions.



In keeping with our vision to create healthier indoor spaces and boost productivity, we ensure optimum air humidity at our Conair locations for the health and well-being of our employees.

40-60%  
RH



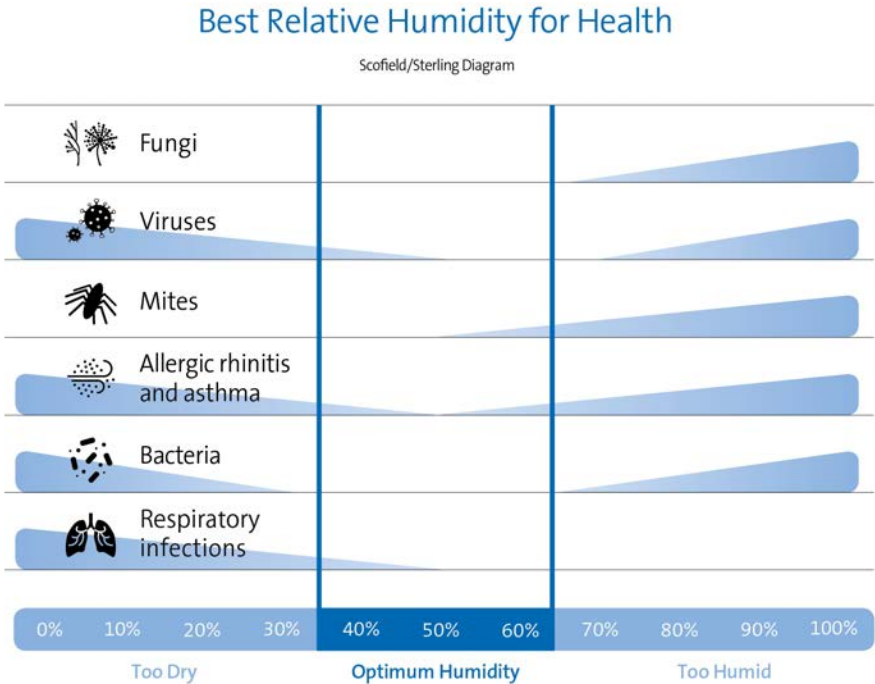
# THE PERFECT RELATIVE HUMIDITY

### Scofield/Sterling diagram

The diagram shows the relevant interdependencies at different room relative humidities for comfort and health protection. The risk posed by undesirable microorganisms and the occurrence of specific symptoms of illnesses are minimal within the optimal range between 40% and 60% relative humidity. The latest studies also confirm that transmission of viruses through particulate matter (e.g. through coughing) is significantly reduced at levels above 40% relative humidity.

The right humidity makes a decisive contribution in a variety of situations encountered in day-to-day life – in the business environment as well as in private spaces. The importance of humidity is so significant that many countries have clear directives for the operation and maintenance of humidification systems.

The scientifically proven and recommended range of 40 -60% relative humidity protects health and increases the sense of well-being for all of us. These clear limits are often difficult to maintain under day-to-day conditions. This is why Condair provides a comprehensive range of different humidification and dehumidification systems embodying a variety of technologies — to ensure optimal air humidity in every situation.



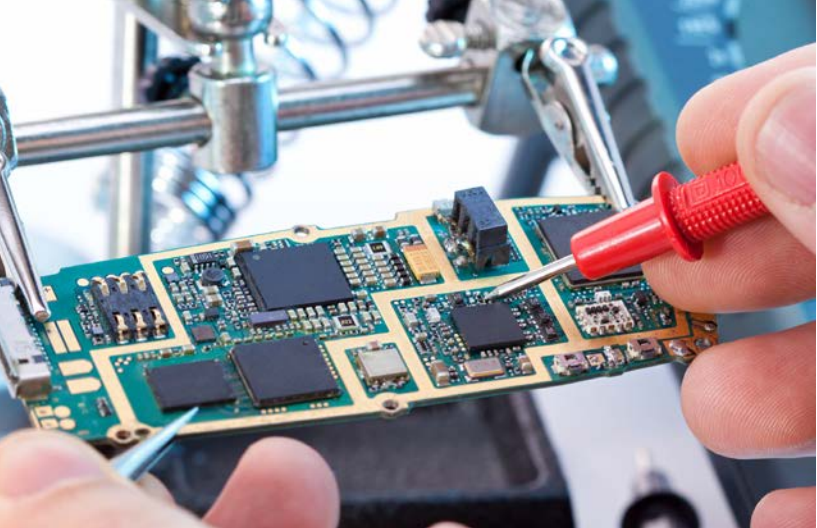
# APPLICATIONS OVERVIEW

Correct air humidity is an important factor in many different applications – ensuring production stability, preserving value, and enhancing health and wellbeing. As humidification, dehumidification and evaporative cooling must be appropriately configured according to each specific application, system planning and the selection of the right system and devices are of great importance.

The table below provides typical environmental conditions for a variety of applications, as well as humidity control technologies that are commonly used in the application. Contact your Condaire representative to see which product is optimal for your application.

APPLICATION	°C	°F	%RH	ISOTHERMAL (VAPORIZATION)					ADIABATIC & EVAPORATIVE				
				ELECTRODE STEAM	RESISTIVE STEAM	GAS FIRED STEAM	PRESURIZED STEAM	STEAM EXCHANGE	SURFACE EVAPORATIVE	PUREHUM 1000 PRO	HYBRID	HIGH-PRESSURE NOZZLES	COMPRESSED AIR NOZZLES
Abrasive	26	79	50	■	■	■	■	■	■	■	■	■	■
Aerospace Manufacturing	21	70	50-55	■	■	■	■	■	■	■	■	■	■
Automotive Manufacturing	21	70	50-55	■	■	■	■	■	■	■	■	■	■
Bread	27	81	75	■	■						■	■	■
Call Centres	21	70	40-60	■	■	■	■	■	■	■	■	■	■
Ceramics	27	81	60-70	■	■	■	■	■	■	■	■	■	■
Cheese Curing	16-18	61-64	90								■	■	■
Clean Rooms	22-23	72-73	43-47	■	■	■				■	■	■	■
Data Centers (Class 1 and 2)	15-32	59-90	20-80	■	■					■	■		
Electrical (Instruments)	21	70	50-55	■	■	■	■	■	■	■	■	■	■
Electrical (X-ray)	20	68	40-50	■	■	■	■			■	■		
Electrical (Switch gear)	23	73	50	■	■					■	■		
Fruit Storage	4-7	39-45	85-90								■	■	■
Fur Storage	4-10	39-50	55-65	■	■	■		■			■	■	■
Greenhouses													
Hospitals (Admin.)	21-27	70-81	40-50	■	■	■	■	■	■	■	■		
Hospitals (ICU)	21-24	70-75	40-60	■	■	■	■	■		■	■		
Hospitals (Operating Rooms)	20-24	68-75	40-60	■	■	■	■	■			■		
Leather (Drying)	20-52	68-126	75	■	■	■	■	■			■	■	■
Leather (Storage)	10-16	50-61	40-60	■	■	■	■	■			■	■	■
Lenses (Optical)	27	81	80	■	■	■	■	■	■	■	■	■	■
Libraries	17-22	63-72	50	■	■	■	■	■	■	■	■		
Meat & Fish	0-1	32-34	88-92								■	■	■
Museums	20	68	20-60	■	■	■	■	■	■	■	■	■	■
Mushrooms	9-16	48-61	80								■	■	■
Office Space	21	70	40-60	■	■	■	■	■	■	■	■	■	■
Paint	16-32	61-90	80	■	■	■	■	■	■	■	■	■	■
Pharmaceuticals	24	75	35-50	■	■	■	■	■	■	■	■	■	■
Plastics (Manufacturing)	24-27	75-81	45-65	■	■	■	■	■	■	■	■	■	■
Plywood (Pressing)	32	90	60							■	■	■	■
Printing (Storage)	24-27	75-81	50	■	■	■	■	■	■	■	■	■	■
Printing (Web offset)	24-27	75-81	50	■	■	■	■	■	■	■	■	■	■
Rubber (Molding)	23	73	50							■	■	■	■
Senior Living Facilities	21	70	40-60	■	■	■	■	■	■	■	■	■	■
Textiles (Knitting)	24	75	60-65							■	■	■	■
Textiles (Spinning)	24-27	75-81	35-60							■	■	■	■
Textiles (Weaving)	24-27	75-81	70-85							■	■	■	■
Tobacco	21-24	70-75	55-65	■	■	■	■	■	■	■	■	■	■
Schools & Universities	20-24	68-75	40-60	■	■	■	■	■	■	■	■		
Yoga Studios	20-24	68-75	40-60	■	■	■	■	■	■	■	■		
Woodworking	20-24	68-75	30-65	■	■	■						■	■

■ Treated water recommended.



## ELECTRONICS

Proper humidification ensures product quality and production efficiency by controlling and/or eliminating electrostatic discharge, reducing de-soldering occurrences and minimizing brittle components.

## WOODWORKING

Maintaining proper relative humidity (RH) throughout the entire production cycle reduces dimension changes of wood, minimizes issues with gluing and laminating, and eliminates static electricity and issues with woodworking machinery. This improves product quality, increasing profits. Proper humidification levels can also help with dust suppression, by weighing down fine wood particles, to settle on the ground and surfaces for easier cleaning and better air quality.



## OFFICES

Establishing balanced relative humidity (RH) is essential to occupant health and wellness. By reducing airborne infections, it minimizes absenteeism and increases employee comfort and mental focus. Office equipment also benefits from proper RH helping to reduce maintenance and repair costs.

## PRINTING

Humidity control is essential to maintain quality and productivity at all stages of print production. Proper RH reduces static, keeping paper sheets from sticking and minimizing machine feed issues; prevents dimensional changes to the paper itself, reducing paper curl and registration issues.



# TECHNOLOGY OVERVIEW



## VAPORIZATION

For air humidification through vaporization, water is heated to the boiling point, and transformed into a vapor (steam). The advantage of this process is that steam is sterile and free of germs. Moreover, vaporization is the humidification process that can be controlled most accurately, which is of key importance for various applications.

The energy sources used to generate steam include electrical power (for electrode steam and resistive steam humidifiers), gas (for gas-fired steam humidifiers), or even steam from a central facility boiler (steam exchange and pressure steam).



## EVAPORATION

Evaporation occurs when liquid water is introduced directly into the air. Evaporation is an adiabatic process, which means that the energy required to convert the liquid water into a vapor comes directly from the air. As the water evaporates it draws energy from the air which results in cooling of the air as well as humidification.

With evaporative systems, water is dispersed over evaporator media while air flows simultaneously through the media, becoming enriched with moisture. This simple principle has a major operating cost advantage, particularly when the cooling effect is beneficial to the building.



## ATOMIZATION

Atomization also works based on the adiabatic principle. Fine water droplets are released into the surrounding air using mechanical atomizers or nozzles.

In addition to humidification, high-pressure air humidification systems can also be used for cooling purposes in areas where a lot of heat is generated.

## COOLING

Due to the cooling effect, evaporation and atomization technologies are suitable for both humidification and cooling. Evaporative media systems can achieve the highest level of cooling performance of any adiabatic system and are an energy efficient way to cool and humidify many facilities. Quite often, traditional cooling systems can be reduced in size when an evaporative media system is present, saving significant energy and operating cost.



## HYBRID

Hybrid humidification systems combine the advantages of both adiabatic processes (evaporation and atomization) in a single system. Hybrid systems are characterized by a very high degree of efficiency and low energy consumption, which makes them attractive for use in large buildings.

## WATER TREATMENT

Water of sufficient quality is essential to ensure long-term reliable and hygienic operation of a humidification system. Consequently, it is important for the water treatment to work perfectly in line with the humidification system.

With our range of water softeners, desalination systems and systems for complete water purification through reverse osmosis, we can provide solutions that meet all needs and requirements.

## DEHUMIDIFICATION

Using advanced silica-gel desiccant rotors, our dehumidification products rely on the principle of adsorption to dry the air. Silica gel adsorbs water molecules as air passes over it making the air drier. The water molecules are later released into an exhaust air stream through a high temperature regeneration process which restores the drying capability of the silica gel.

These dehumidification systems can be used in a wide variety of commercial and industrial drying applications and are especially suitable for applications where very low dew points are desired.



## ISOTHERMAL HUMIDIFICATION (VAPORIZATION)



### Electrode steam humidifiers

Clean steam technology with a reliable design and touch screen controller.



### OEM consoles

Ideal solution for air handling equipment.



### Resistive steam humidifiers

Accurate, clean atmosphere steam with scale management.



### Gas-fired steam humidifiers

Pure, clean atmospheric steam with energy efficient operation.



### Pressurized steam distribution systems

Reliable humidity from the facility steam boiler.



### Atmospheric steam distributors

Clean steam, precisely controlled, uniformly into the air.



EVAPORATIVE COOLING AND ADIABATIC HUMIDIFICATION (EVAPORATION AND ATOMIZING)



**Surface evaporators/  
Evaporative coolers**

Efficient solution to provide humidification and cooling while reducing building energy usage.



**Hybrid humidifiers**

Benefit from the advantages of atomization and evaporation.



**High-pressure nozzles**

Low energy, precise, customizable modular design.



**Compressed air nozzles**

Accurate humidity control with directional spray aerosols.



**PureHum 1000 Pro**

Portable solution that is easy to adapt to many applications.

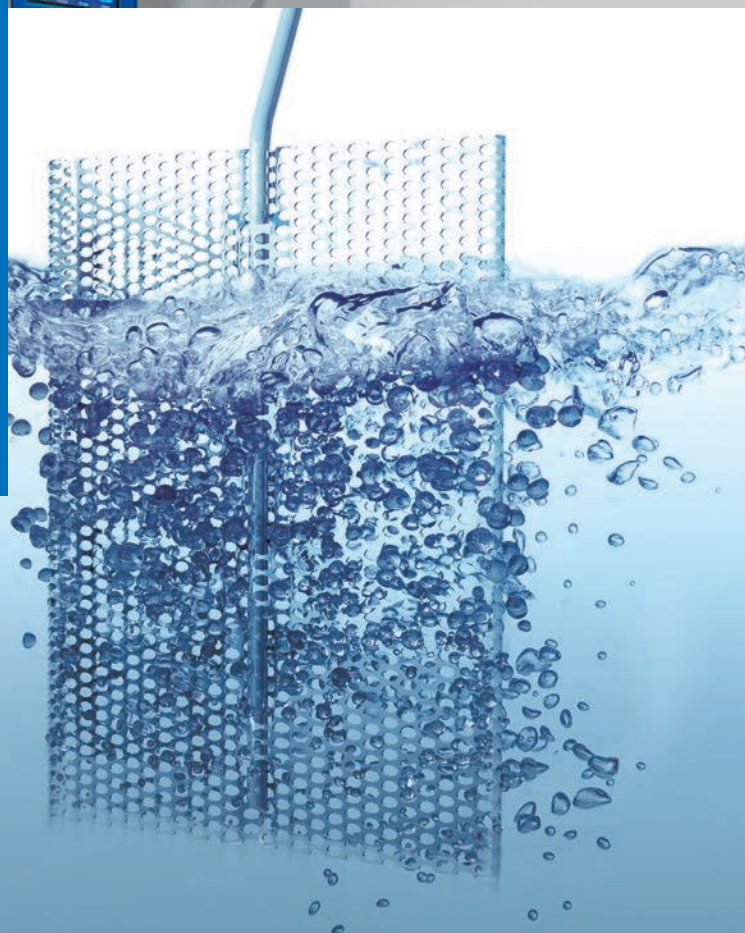


## WHY CYLINDERS?

- Energy efficient
- Reduce down time and costly maintenance
- No special tools required to remove cylinder
- Removes all minerals left behind
- No need for specially treated water
- Keep humidifiers working at optimum performance

### Output vs. Cylinder Life

Unlike other humidifiers whose performance degrades gradually throughout the life of the cylinder, Condair electrode steam humidifiers maintain maximum efficiency from beginning to end. As minerals build-up on the electrodes in the cylinder, the patented Auto-Adaptive control system automatically raises the water level slightly in the cylinder. This exposes fresh electrode surface to the water and maintains peak output and efficiency from the humidifier. Once the electrode surface is completely insulated by the minerals, the user is alerted to change the cylinder.



# ELECTRODE STEAM

- ✓ commercial offices
- ✓ hospitals
- ✓ computer rooms
- ✓ museums
- ✓ clean rooms
- ✓ schools
- ✓ high-tech centres
- ✓ printing plants

## BENEFITS OF ELECTRODE STEAM TECHNOLOGY

Electrode steam technology is an economic, simple, and reliable humidification system for in-duct or direct room humidification.

### **Installation flexibility**

EL humidifiers offer unprecedented installation flexibility. They can be configured for both small and large systems. All EL humidifiers are completely packaged for installation ease. The standard drain water cooling ensures drain water does not exceed 140°F (60°C) to meet local plumbing codes.

### **Easy to service**

The EL Series informs the user when a cylinder is full of scale and needs replacing. This is a simple and quick process of draining the unit, removing the old cylinder, and replacing it with a new one. This straightforward maintenance keeps downtime to a minimum and maintains humidity control.

### **Operates on potable water**

Electrode steam humidifiers operate on potable water without any need for RO water treatment.

### **Economic**

The EL Series has an economic capital cost yet is an extremely dependable solution for hygienic steam humidification.



## EL SERIES

The **EL Series** is the newest electrode steam humidifier from Condair. With over seventy years of experience and a leader in commercial humidification, Condair has developed an all new touch screen controller that is easy to navigate and contains more information than ever before.

- Intuitive touch screen control
- Standard building automation support with integrated BACnet™ (IP and MSTP)
- OSHPD certification for seismic environments
- USB port for performance downloads
- SIM card storage of all operational information and user changes
- New cabinet design and smaller footprint than previous NH models
- Zero side clearance



## TECHNICAL DATA

SPECIFICATION	EL 005	EL 010	EL 020	EL 030	EL 050	EL 075	EL 100	EL 150	EL 200
Capacity: lbs/hr*	1-5	3-10	6-20	9-30	15-50	22-75	30-100	45-150	60-200
Capacity: kg/hr*	0.5-2.2	0.9-4.5	1.8-9	2.7-13.6	4.5-22.7	6.8-34	9-45	6.8-68	9-91
Input kW max	1.9	3.8	7.6	11.4	18.7	28.1	37.4	56.1	74.8
Voltage	110-120	208-600	208-600	208-600	208-600	208-600	208-600	208-600	208-600
Phase	1	1	1	3	3	3	3	3	3
No. of Cylinders/Control Circuits	1/1	1/1	1/1	1/1	1/1	1/1	1/1	2/2	2/2

### Steam Distribution Choices \*\*

Steam hose I.D.	7/8" 2.2 cm	7/8" 2.2 cm	7/8" 2.2 cm	7/8" 2.2 cm	1-3/4" 4.5 cm	1-3/4" 4.5 cm	1-3/4" 4.5 cm	1-3/4" 4.5 cm	1-3/4" 4.5 cm
BP Series (built-on)	Yes	Yes	Yes	Yes	Yes	Yes	Yes	N/A	N/A
BP Series (remote mounted)	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
AS Series	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
AM Series	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes

\* EL Series can be field adjusted from 30% to 100% of full output.  
 \*\* Refer to Engineering Manual for steam distribution methods.

## OUTDOOR ENCLOSURE

Outdoor models for the **EL Series** are available for almost any outdoor application.

- Range of -40°F to 104°F (-40°C to 40°C)
- Easiest and fastest installation and maintenance in the industry
- Full range of indoor capacities and voltages
- User-friendly touchscreen display with standard BMS connectivity



## MES2 SERIES

The **MES2 Series** electrode OEM humidifier is ideal for specialty air handling equipment. Using replaceable cylinders, the MES2 Series is the easiest component humidifier to maintain. With standard modulation and Modbus, the MES2 Series can be integrated into the most demanding systems. Multiple configurations and capacities are available for installation flexibility.



### TECHNICAL DATA

SPECIFICATIONS	05	10	15	20	25	30
Capacity: lbs/hr (kg/hr)	5 (2.3)	10 (4.5)	15 (6.8)	20 (9.1)	25 (11.3)	30 (13.6)
Maximum Input - kW	1.7	3.4	5.1	6.8	8.5	10.2
Voltage	208, 220-240, 277, 380, 440-480, 550-600					
Phase	1	1	1 and 3	1 and 3	3	3
Cylinder	100	200	300	300	400	400

#### Physical Dimensions\*

Depth - in (cm)	6.4 (16.3)		7.9 (20.1)		9.8 (24.9)	
Width (remote electrical) - in (cm)	7.5 (19.0)		8.9 (22.6)		10.3 (26.2)	
Width (attached electrical) - in (cm)	9.8 (24.8)		11.2 (28.4)		12.6 (32)	
Height - in (cm)	12.7 (35.3)	16.8 (42.7)	20.0 (50.8)		20.7 (52.6)	
Net weight – lbs (kg)	10.7 (5.0)	12.4 (5.8)	16.5 (7.8)		20.2 (9.5)	
Full weight – lbs (kg)	14.2 (6.6)	18.4 (8.5)	30.5 (14.2)		43.2 (20.0)	

\* Dimensions reflect fully enclosed cabinets. Given weights include attached enclosed electronics.

## RH2+ SERIES

The **RH2+ Series** electrode steam humidifier features the same proven technology as the EL Series to deliver efficient and dependable humidification to light commercial applications. Two models are available to cover all applications: the RH2+ Space Series for in-space humidification and the RH2+ Duct Series for humidification through the duct system.



### TECHNICAL DATA

SPECIFICATIONS	RH2+ SERIES DUCT	RH2+ SERIES SPACE
Wiring Connection	Hardwired	Hardwired
Rated Current	15.9 A	12.7 A
Maximum Ext. Protection	20 A	20 A
Voltage/Phase	110-240/1	110-240/1
Capacity: lbs/hr (kg/hr)	5.0-10.0 (2.3-4.6)	4.0-8.0 (1.8-3.6)
Consumption: gal/day (l/day)	14.5-29.0 (55.1-110.2)	11.6-23.2 (44.1-88.2)
Dimensions: in (cm)	21.4 (54.4) H x 11.4 (29.0) W x 6.9 (17.4) D	
Weight: lbs (kg)	21 (9.5)	22 (10)
Controls	On/off or modulating	
Steam Distribution	Duct mounted distributor or remote blower	Built-in blower



# RESISTIVE STEAM

- ✓ commercial offices
- ✓ hospitals
- ✓ computer rooms
- ✓ museums
- ✓ clean rooms
- ✓ schools
- ✓ high-tech centres
- ✓ printing plants



scale forms



patented scale management breaks away scale



scale from the humidifier gravitates into the scale tank



scale collection tank is emptied

## PATENTED SCALE MANAGEMENT

### A technical innovation that solves the scale problem.

The patented scale management removes the separated scale particles from the steam cylinder during operation and automatically leads them into the designated scale collection tank. Scale deposits are continuously removed from the steam cylinder.

The pieces of scale are collected in an external scale collection tank where they can be emptied easily. Maintenance work is therefore significantly reduced and operational reliability maximized. The patented scale management system ensures reduced maintenance times and long life of RS steam humidifiers.

### Easy cleaning and maintenance

Maintenance intervals are extremely long, and the actual maintenance work is reduced to a minimum due to the external scale collection tank. The external location of the scale collection vessel below the unit ensures very easy access. The tank can be removed and emptied easily without the need for opening the unit housing. This makes maintenance tasks simple, quick, and cost-effective.

### Innovative drain pump

Scale deposits are not only undesirable in the air humidifier itself; it can also cause problems in the drain piping of a building if scale remains are left in the drain water. This can reduce the drain pipe cross sections and even block them.

For this reason, in the RS steam humidifier, the drain pump has been placed above the scale collection tank. Scale deposits drop into the collection tank, where they accumulate. This prevents scale remains from being sucked in and transferred to the drain piping.

This arrangement of the drain pump protects the drainage system of the building against undesirable and problematic scale deposits.

## RS SERIES

The **RS Series** resistive element humidifier provides pure, clean, atmospheric steam from potable or DI/RO water with high precision. With SSR heating element control coupled with a high precision humidistat, the RS Series can achieve +/-1% RH, perfect for humidity-critical applications.

For potable water applications, the patented scale management system option saves time and money during maintenance. Scale sinks into the scale tank which can be easily removed and emptied.

- Precise RH tolerances for humidity critical applications
- Use with potable, DI, or RO supply water
- User-friendly touchscreen controller
- Standard building automation support with integrated BACnet (IP and MSTP)
- Scale collector tank option for easy maintenance
- Zero side clearance



## TECHNICAL DATA

SPECIFICATION	RS 010	RS 015	RS 020	RS 030	RS 045	RS 065	RS 090	RS 090	RS 130	RS 180
Capacity: lbs/hr*	0-10	0-15	0-20	0-30	0-45	0-65	0-90	0-90	0-130	0-180
Capacity: kg/hr*	0-4.5	0-6.8	0-9.6	0-13.6	0-20.4	0-29.5	0-40.9	0-40.9	0-59.0	0-81.8
Input kW max	3.9	6.0	7.2	10.8	16.3	24.5	32.6	32.1	48.6	64.2
Voltage	208-600	208-600	208-600	208-600	208-600	208-600	208-240	440-600	440-600	440-600
Phase	1 / 3	1 / 3	1 / 3	1 / 3	3	3	3	3	3	3
No. of Stainless Steel Tanks	1 x small	1 x small	1 x small	1 x med	1 x med	1 x med	2 x med	1 x med	2 x med	2 x med

### Steam Distribution Choices \*\*

	1-3/4" 4.5 cm	1-3/4" 4.5 cm	1-3/4" 4.5 cm	1-3/4" 4.5 cm	1-3/4" 4.5 cm	1-3/4" 4.5 cm	1-3/4" 4.5 cm	1-3/4" 4.5 cm	1-3/4" 4.5 cm	1-3/4" 4.5 cm	1-3/4" 4.5 cm
Steam hose I.D.	1-3/4" 4.5 cm	1-3/4" 4.5 cm	1-3/4" 4.5 cm	1-3/4" 4.5 cm	1-3/4" 4.5 cm	1-3/4" 4.5 cm	1-3/4" 4.5 cm	1-3/4" 4.5 cm	1-3/4" 4.5 cm	1-3/4" 4.5 cm	1-3/4" 4.5 cm
BP Series (built-on)	Yes	Yes	Yes	Yes	Yes	Yes	No	Yes	No	No	No
BP Series (remote mounted)	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
AS Series	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
AM Series	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes

\* Capacities are voltage dependent. Output can be field adjusted from 20% to 100% of rated capacity.

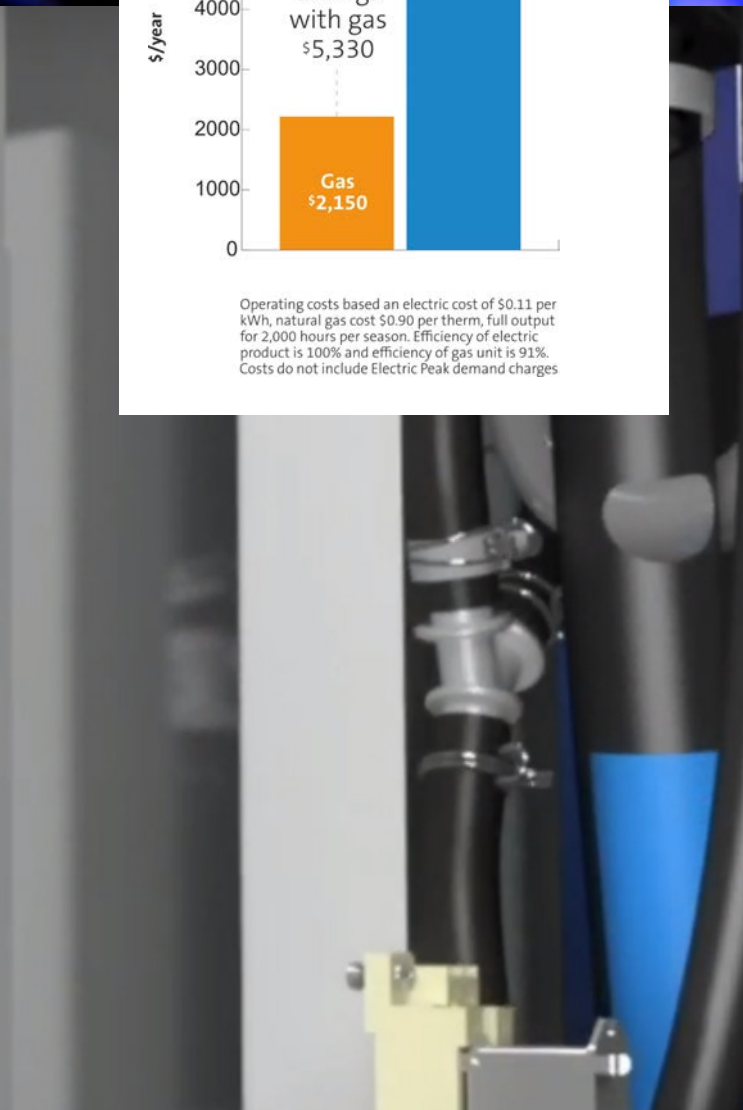
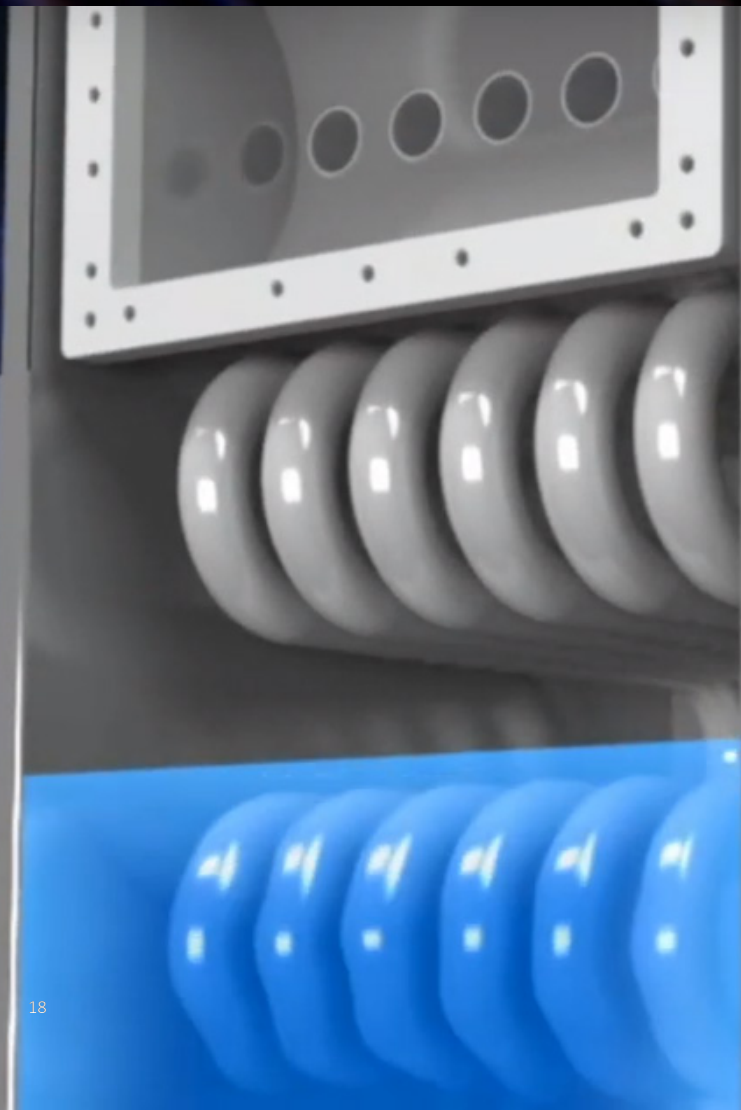
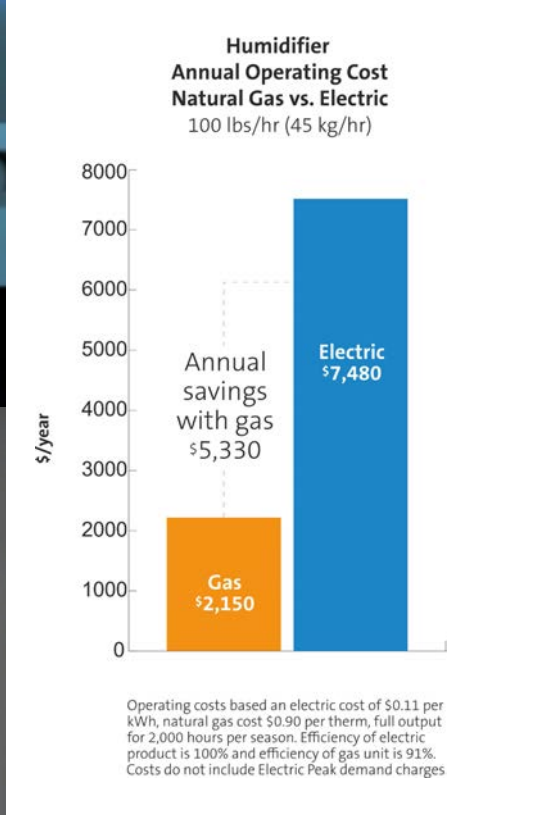
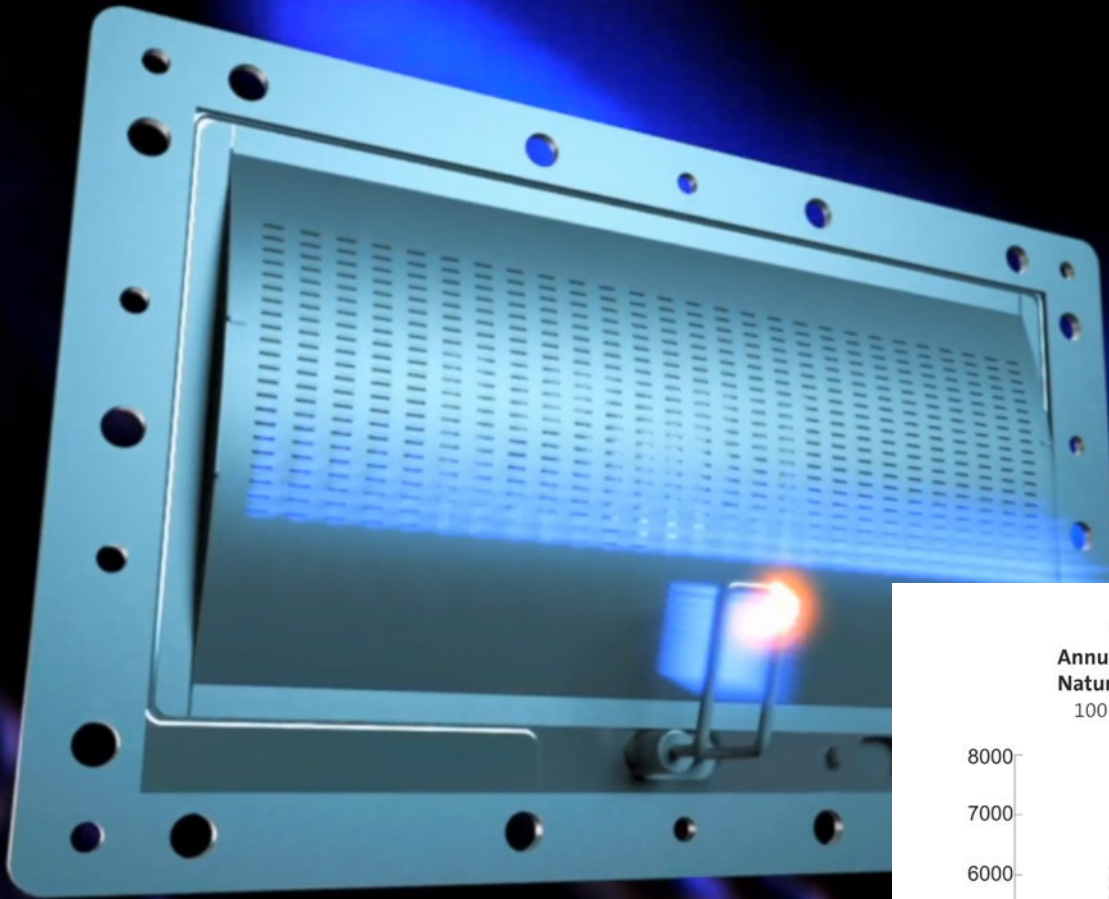
\*\* Refer to Engineering Manual for steam distribution methods.

## OUTDOOR ENCLOSURE

Outdoor models for the **RS Series** are available for almost any outdoor application.

- Range of -40°F to 104°F (-40°C to 40°C)
- Easiest and fastest installation and maintenance in the industry
- Full range of indoor capacities and voltages
- User-friendly touchscreen display with standard BMS connectivity





# GAS STEAM

- ✓ commercial offices
- ✓ schools
- ✓ libraries
- ✓ museums and art galleries
- ✓ manufacturing
- ✓ laboratories
- ✓ hospitals
- ✓ printing plants

## WHY CHOOSE A GS SERIES HUMIDIFIER

**GS Series** humidifiers have been engineered to meet the highest standards of efficient performance with cost-effective gas operation. They are designed for ease of installation, adaptability, simplicity of operation, ease of maintenance and servicing, energy efficiency, cleanliness and long-term reliability. GS Series humidifiers offer complete application flexibility to system engineers, contractors, and customers.

## MORE STANDARD FEATURES

### **Touch controller for precise control**

The Integrated Controller allows verification of all unit and process data at a glance. Operating data can be called up in real time, and there is a comprehensive data history. Seamless integration into existing Building Management Systems. Standard connection using Modbus, BACnet IP and BACnet MSTP. Option required for LonWorks and BTL certified.

### **Venting flexibility**

The GS series can be vented as a direct room or sealed combustion appliance without any modification to the unit.

### **Support stand**

The GS CS and NX models come standard with a support stand to ensure easy installation.

## EASY CLEANING & MAINTENANCE

### **Water treatment**

The GS can operate on both potable water and mineral-free water. Operation with reverse osmosis water reduces the maintenance cycle as well as maintenance costs.

### **Programmable system drains**

Software on the GS system allows for automatic blowdowns, periodic full tank drain cycles and automatic idle drains to reduce mineral concentration in the tank. The amount of water drained can be adjusted based on water conditions and the time of full tank drains programmed for a time that fits the application.

### **Large cleanout port**

Designed with technician feedback, the GS features one of the largest cleanout port on the market. The whole face of the tank is removed to help simplify maintenance.



# GS SERIES

## Standard Features

- Intuitive, touch screen Integrated Controller
- BMS compatibility via Modbus, BACnet IP or BACnet MSTP Slave (optional via BACnet MSTP Master or LonWorks)
- Single or dual modulation capability
- USB port for performance download
- Manual steam capacity adjustment
- Continuous self-diagnostic with self-correction and fail safe operation
- On screen troubleshooting center with corrective action
- On screen indication of service and fault history
- On screen graphic indication of humidity demand trends
- Low and high relative humidity alarms
- Automatic duty cycling of burner for equal usage
- Adjustable automatic blow down period
- Pre-cleaning sequence
- Keep warm feature for rapid response and additional freeze protection
- Automatic float level, fill and drain component checks
- Flat plate burner design for more efficient combustion
- Internal Smart drain water cooling and drain pump
- On/off cycling prevention
- Totally enclosed cabinet with internal pipe chase
- Corrosion and scratch resistant cabinet
- Float system external to boiling water tank
- Integrated vacuum break valve
- Zero clearance to combustibles
- Fits through a 36" door
- Single water supply, gas inlet, steam outlet and vent connections
- Large cleaning port with round edges and no lips for all capacities
- Heat treated 316 S.S. heat exchanger with minimal welding
- Materials suitable for all water types, including Potable, RO and DI
- Stand, floor or wall mounting options
- Accepts 110-120V power supply
- Sealed combustion option
- Sacrificial anode inside tank to protect against corrosion



## TECHNICAL DATA

SPECIFICATION	COMPACT SIZE UNITS		FULL SIZE UNITS				
	GS 50	GS 100	GS 150	GS 200	GS 300	GS 450	GS 600
Capacity: lbs/hr (kg/hr)	50 (23)	100 (45)	150 (65)	200 (90)	300 (130)	450 (195)	600 (260)
Dimensions: in (mm) W x H x D	25.5 x 22 x 44 (640 x 542 x 1101)		28 x 29 x 55 (717 x 738 x 1387)	41 x 29 x 55 (1026 x 738 x 1387)		57 x 29 x 55 (1448 x 738 x 1387)	67 x 29 x 55 (1700 x 738 x 1387)
Operating Weight: lb (kg)	327 (148)	351 (159)	490 (222)	721 (327)	757 (343)	946 (429)	1460 (662)
Mounting	Stand / Wall		Stand (GS CS / GS NX), Stand / Floor (GS MT)				
Power Circuit	120V / 1 Phase / 60 Hz						
Models	Condensing System (CS), Low NO. (NX), Mid-Temperature (MT)						

## MODEL SPECIFICATIONS

SPECIFICATION	GS CS CONDENSING SYSTEM	GS NX LOW NOx EMISSIONS	GS MT MID-TEMPERATURE
Efficiency	Up to 93%	Up to 89%	Up to 84%
Exhaust Temperature	140°F / 60°C	140°F / 60°C	300°F / 150°C
Venting	CPVC, BH	CPVC, BH	BH
Condensing High-Efficiency	Yes	Yes	No
Gas Type	NG/P	NG	NG





GAS STEAM

## GS OUTDOOR

The **GS OC** gas-fired humidifier features a weather-proof cabinet that is completely integrated with familiar GS Series components and operation and specially designed to operate in extreme temperatures.

The GS OC has a temperature range of -40°C (-40°F) to +50°C (+122°F). The unit also features extensive IP testing and has a rating of IP 55 for dust and water ingress protection.

## TECHNICAL DATA

SPECIFICATION	GS 50	GS 100	GS 150	GS 200	GS 300	GS 450	GS 600
Capacity: lbs/hr (kg/hr)	50 (23)	100 (45)	150 (65)	200 (90)	300 (130)	450 (195)	600 (260)
Dimensions: in (mm) W x H x D	39 x 35 x 68 (990 x 889 x 1727)			49 x 35 x 68 (1244 x 889 x 1727)		75 x 35 x 68 (1905 x 889 x 1727)	

### Cold Climate

120V/1/60 Breaker Rating (A)	25	40	50	60
240/3/60 Breaker Rating (A)	15	20		

### Moderate Climate

120V/1/60 Breaker Rating (A)	20	25	30	35
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## STEAM EXCHANGE

- ✓ hospitals
- ✓ educational facilities
- ✓ government buildings
- ✓ institutional buildings
- ✓ printing plants
- ✓ museums and galleries
- ✓ commercial offices

## HUMIDIFIERS DESIGNED TO DELIVER RELIABLE HUMIDITY FROM FACILITY STEAM BOILERS

**SE Series** steam to steam heat exchange humidifiers use central facility steam as an energy source to boil potable, reverse osmosis, or deionized water. The result is clean, hygienic humidification steam, completely free of boiler chemicals and amines. Boiler steam passes through high-quality 316 stainless steel heat exchangers, turning fresh water into steam. This technique prevents chemical boiler treatments from being dispersed into the building air supply.

## SE SERIES

The **SE Series** is a complete packaged humidifier and includes all required components, most of which are contained within the cabinetry. The humidifier is designed for easy installation, reliable operation, and rapid maintenance. Available capacities range from 50-1050 lbs/hr (23 to 475 kg/hr), when supplied with facility steam pressure at a maximum of 15 psi (1 bar).

- Capacities up to 1050 lbs/hr (476 kg/hr)
- Total Controller
- Intuitive scale management based on steam production
- All components suitable for RO, DI or potable water
- Built-in drain water cooling
- Fully modulating down to 25% of capacity
- Built-in float & thermostatic steam trap(s) and P-trap
- Fully insulated tank for efficient operation
- Pre-cleaning sequence for easier and faster maintenance
- Includes valve, actuator and strainer



## TECHNICAL DATA

SPECIFICATION	SE 050	SE 100	SE 175	SE 250	SE 375	SE 525	SE 750	SE 1050
Pressure range - psig (kPa)	5-15 (35-105)							
Max. capacities (at 15 psi steam pressure) - lbs/hr (kg/hr)	50 (23)	100 (45)	175 (79)	250 (114)	375 (170)	525 (240)	750 (340)	1050 (476)
Dimensions: in (cm) W x H x D	25.6 x 20.6 x 18.4 (65.1 x 52.4 x 46.7)	46.4 x 32.0 x 20.0 (117.8 x 81.4 x 50.8)		46.4 x 32.0 x 26.4 (117.8 x 81.4 x 67.1)		46.4 x 32.0 x 42.0 (117.8 x 81.4 x 106.7)		46.4 x 32.0 x 58.0 (117.8 x 81.4 x 147.3)
Standard actuator	Electric Modulating 0-10 VDC, 24 VAC							
Built-in steam trap	Float & Thermostatic							
Insulation & Cabinetry	Standard							
Voltage/Phase	110-120/1							
Full load amps	2.1							
Internal Smart Drain Water Cooler	Standard							
Steam Outlets (s) - OD in (cm)	1 x 1.75 (1 x 4.44)		1 x 3 (1 x 7.62cm)			1 x 4 (1 x 10.16)	2 x 4 (2 x 10.16)	

### Options

Keep Warm Feature	No	Yes
Freeze Protection	No	Yes
Outdoor Model	No	Yes
Floor Stand	Yes	

# STEAM DISTRIBUTION

## LS SERIES

The **LS Series** pressure steam humidifiers deliver reliable humidity from the facility steam boiler for duct or air handler application. With distributors constructed of premium quality 304 stainless steel, the LS Series features Condair's tube in tube design for efficient operation. LS Series distributors are available in a wide variety of lengths ranging from 12" to 144" to suit your duct size for the best possible steam dispersion. Multi-tube units are also available.



- Available single or multiple tube configurations (AS Series)
- Available with short absorption distributors (AM Series)
- Pressure ranges from 2-50 PSIG (14-345 kPa)
- High-capacity system up to 3200 lbs/hr (1452 kg/hr)
- Economical and cost-effective system to meet high humidity requirements
- Delivers precise humidity control
- Steam jacketed dispersion tubes to prevent “spitting”
- Available tube insulation for increased efficiency
- Suitable for boilers operating on DI, RO or potable water
- Available pneumatic or electric controls

## TECHNICAL DATA

SPECIFICATION	MODEL 200 MODEL LS1	MODEL 300 MODEL LS2	MODEL 450 MODEL LS3	MODEL 600 MODEL LS3	MODEL 800 MODEL LS3	AM AM-MINI
Pressure range - psig (kPa)	2-50 (14-345)	2-50 (14-345)	2-50 (14-345)	2-50 (14-345)	2-50 (14-345)	2-50 (14-345)
Max. capacity single tube - lbs/hr (kg/hr)	284 (129)	540 (245)	916 (417)	1258 (572)	N/A	N/A
Max. capacity multi-tube - lbs/hr (kg/hr)	374 (170)	653 (297)	1030 (468)	1664 (757)	3209 (1456)	3200 (1452)
Separator physical data - H x D in (mm)	7.7 x 6 (195 x 152)	8.8 x 6 (223 x 152)	10.5 x 6 (268 x 152)	11.2 x 9 (284 x 229)	12.6 x 9 (322 x 229)	Custom
Standard actuator	Electric Modulating 0-10 VDC, 24 VAC					
Standard steam trap	Float & Thermostatic					
Separator and dispersion tube material	Stainless Steel 304					
<b>Options</b>						
Pneumatic actuator	Yes					
Electric on/off actuator	Yes					
Tube insulation	Yes					
DI water installation	Yes	Yes	No	No	No	Yes



## BP SERIES

**BP Series** blower packs are an optional accessory used for direct steam distribution into localized areas, or into structures that do not have a built-in air distribution system. When used with the EL Series and RS Series models, built-on blower packs are available for ease of installation. Remote mounted blower packs are also available with the EL Series, RS Series, SE Series, GS Series, and residential humidifiers for better distribution of steam in the space being humidified.



## AS SERIES

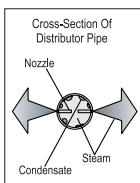
The **AS Series** atmospheric steam distributor allows for direct introduction of atmospheric steam into a duct system or Air Handling Unit. Atmospheric steam distributors are designed for use with EL Series, RS Series, GS Series, SE Series and residential humidifiers. All steam distributor tubes are made of stainless-steel and adjustable for horizontal or vertical flow applications. An Integral condensate return allows for condensate produced at the distributor to be returned back to the humidifier or drained through a convenient floor drain.



## AM SERIES

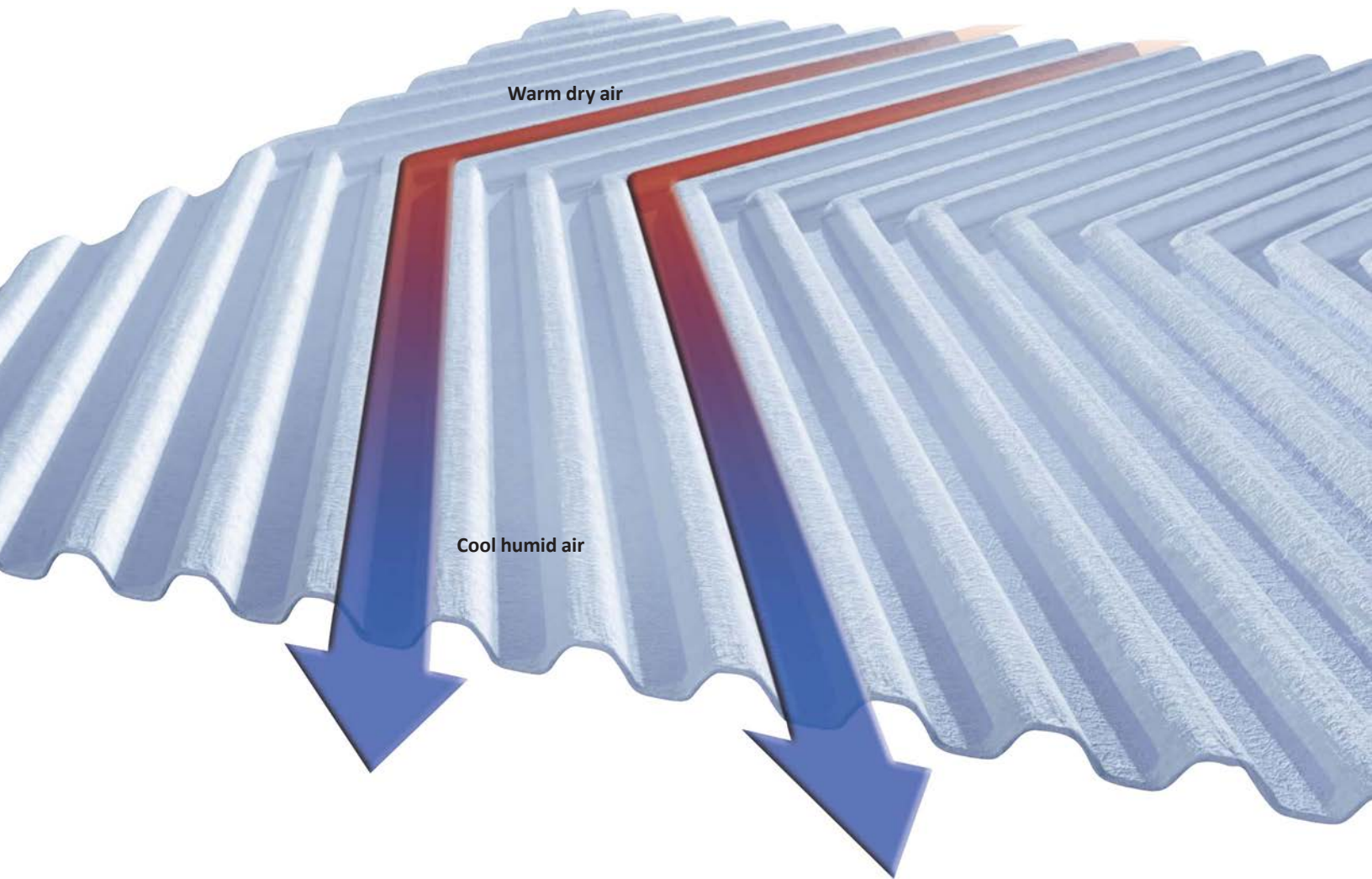
The **AM Series** short absorption manifold, distributes clean steam, precisely controlled, uniformly into the air stream, and void of any condensate spray. Condair's steam absorption system is for use in air handling units and duct systems where short steam absorption distance is critical. Steam distribution takes place via distributor tubes with integrated nozzles which extend into the center of the distribution tube ensuring only condensate-free steam is released. Condensate drains out of the distribution tubes through the header, eliminating the need for jacketed tubes.

An AM Series (mini) is also available for use in ducts with heights ranging from 8" - 24" (20.3 - 61.0 cm). Optional stainless steel air gap insulation can reduce energy losses by up to 70%, while ensuring efficient and hygienic operation.



DISTRIBUTOR	EL SERIES	RS SERIES	RH SERIES	GS SERIES	SE SERIES
AS Series	■	■	■	■	■
BP Series (built-on)	■	■	■		
BP Series (remote)	■	■	■	■	■
AM Series	■	■		■	■
AM Series (mini)	■	■		■	■





# EVAPORATIVE

- ✓ data centers
- ✓ clean rooms
- ✓ pharmaceutical manufacturing
- ✓ warehouses
- ✓ aerospace
- ✓ office towers
- ✓ hospitals
- ✓ museums
- ✓ automotive

## AN EFFICIENT WAY TO PROVIDE BOTH HUMIDIFICATION AND COOLING

Saving energy and water, while reducing operating costs, is an important challenge in an increasingly energy conscious world. The **ME Series** evaporative media humidifier/cooler is an efficient way to provide both humidification and cooling while reducing building energy usage.

### Evaporative cooling

For every 2.2 lbs/hr (1kg/h) of water evaporated from the ME, 630W of evaporative cooling is also delivered to the airstream. As a single ME humidifier can deliver up to 2200 lbs/hr (1,000kg/h) of moisture it can provide approximately 630kW of cooling while operating on less than 0.3kW of electricity.

This cooling technique can be employed directly on fresh air entering a building or via indirect exhaust air cooling systems. By humidifying exhaust air with a ME its temperature can be reduced to below that of the incoming fresh air. A heat recovery system then transfers some of this cool energy into the incoming fresh air, lowering its temperature and reducing the need for more expensive mechanical cooling.

The ME is ideal for use in free air cooling systems, such as those used in data centers, where a large volume of outside air is used to cool an internal environment. By evaporating moisture into the incoming airstream, its temperature is reduced, thus extending the cooling capacity of the system.

### Hygienic operation

The hygienic nature of evaporative humidification combines with the ME's advanced features to make it one of the most hygienic humidifiers available. Evaporative humidifiers provide aerosol-free in-duct humidity control virtually eliminating the risk of microbial inhalation.

Water is prevented from remaining in the humidifier to stagnate by timer or conductivity controlled flush and drain cycles. This inhibits microbial growth within the system and combats lime scale formation. To reduce water consumption these cycles can be triggered by water conductivity or temperature with optional sensors so that flushes only occur when necessary.

The drain tray of the evaporative module can be fitted with a submerged UV water treatment unit that kills micro-organisms in the reservoir. This is more effective than treatment on a supply line as it combats microbial growth in water after it has been exposed to the contaminants in the airstream. It also provides continuous UV sterilization to the water in the system even when the humidifier is not in use. Optional water supply line UV or silver ion treatment are also available.



## ME SERIES

The key to the high level of performance of the **ME Series** is the unique evaporative cassettes that offer highly efficient operation with low pressure drop. Glass fiber types media are self-contained in a stainless-steel frame for added rigidity. The media also features a UL 900 smoke and flame rating in the USA (ULC-S111-07 Class 2 in Canada).

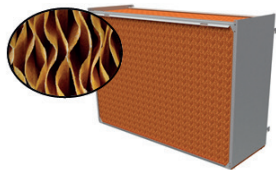
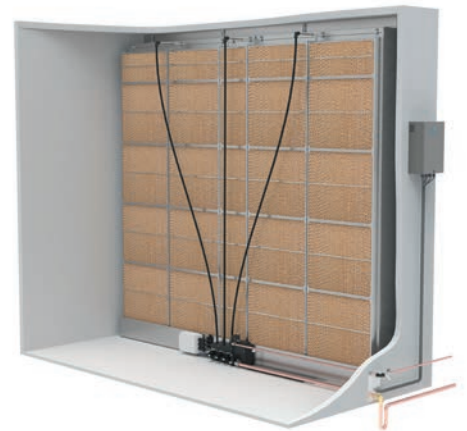
The ME Series is available in both direct feed and recirculation models. Direct feed models are excellent for potable water applications or where a central recovery system is being employed. Recirculation models are ideal for all water types and features a unique hydraulic module. The self-contained hydraulic module offers flexibility to be installed internally or externally to the airstream. External installations separate the mechanical components from the airstream, simplifying installation and maintenance.

Also available is the advanced Integrated Controller which features LCD touchscreen display and advanced control functions allowing the user to adjust a variety of operational parameters.



## MC SERIES

The **MC Series** is our most cost-effective evaporative media solution. The MC offers a simplified design, yet still incorporates the same quality design, innovative hygiene, installation, and operational features as the ME. A single unit can offer up to 793 lbs/hr (360 kg/hr) of humidity and approximately 245 kW/h of adiabatic cooling from less than 0.15 kW of electrical energy.



### GLASS FIBER MEDIA

- Glass fiber media
- Impregnated with silver ions
- High velocity performance
- Lowest pressure drop
- Suitable for all water types
- UL 900 smoke and flame rating



### INTEGRATED CONTROL (IC) SYSTEM

- Smart water management
- Advanced hygiene control
- Modbus and BACnet interface standard
- Intuitive touch screen control
- Simple operation
- Available LonWorks or N2 gateways
- NRTL-C approved

FEATURES COMPARISON	ME CONTROL	ME DIRECT FEED	MC
Operates on DI/RO, Potable, Softened Water	■	■	■
Recirculation Water System	■		■
Flow Through Water System		■	
Integrated Controller With Backlit LCD Touchscreen Display with On Screen Help	■		
Basic Control Panel			■
Smart Water Management System	■		
Adjustable Flush Cycles	■		■
Pre-cleaning Sequence	■		■
Bacnet MS/TP and IP Protocol Standard	■		
Modbus Protocol Standard	■		■
Programmable Maintenance Settings	■		
Individual Step-Control, 1-7 stages	■		
Individual Step-Control, 1-3 stages			■
Multi-Unit Networking	■		
Multiple Control Signal Acceptance	■		■
Operation History Log	■		
Remote Fault Indication	■		■
Conductivity Smart Monitoring	■		
Submerged UV Treatment	■		■
Stainless-Steel Reservoir	■	■	■
Stainless Side Frames	■	■	■
Glass Fiber Media with Silver Coating	■	■	■
Mist Eliminator V-Profile Polyester Media (above 689 fpm)	■	■	
2-Year Limited Warranty (Excluding Media)	■	■	■
Building Connectivity BMS gateways – BACnet, LonTalk, N2	■		

## TECHNICAL DATA

SPECIFICATION	ME SERIES	MC SERIES
Minimum Size (W x H)	600 x 625 mm	600 x 750 mm
Maximum Size (W x H)	4200 x 4000 mm	3000 x 3000 mm
Size Increments	150 mm W / 125 mm H	300 mm W / 250 mm H
Maximum Output	2200 lbs/hr (5 pumps)	793 lbs/hr (3 pumps)
Pump Fault Detection	Option	Standard
Number of Stages	Maximum 7 per system	Maximum 3 per system
Media Types	Glass-Fiber	Glass-Fiber
Media Efficiencies	75%   85%   95%	85%   95%
Max Face Velocity over Media	689 fpm (3.5 m/s) without droplet separator 886 fpm (4.5 m/s) with droplet separator	
Power Consumption	85 – 278 W	74 – 145 W
Controller	Condair integrated controller	Basic control with status LED (no display)
Control Options	BACnet, Modbus, LonWorks (including certified versions)	Modbus only
System Drain	Integrated overflow with pump assistance	Integrated overflow and gravity drain





## PUREHUM 1000 PRO MOBILE EVAPORATIVE HUMIDIFIER & AIR PURIFIER

- ✓ offices
- ✓ classrooms
- ✓ music stores
- ✓ museums and galleries
- ✓ commercial spaces
- ✓ hospitality industry

### HUMIDITY AND PURITY ON THE MOVE

The Condaire PureHum 1000 Pro makes it simple. Set up your space in just 15 minutes: roll it in, connect to the water supply, plug it in, and enjoy instant humidification. Easy, efficient, and ready when you are.



The Condair PureHum 1000 Pro is a commercial mobile humidifier for humidifying rooms up to 3500 sq ft (330m<sup>2</sup>) with an output of up to 5.75 lbs/hr (2.6l/h).\*

This unit is ideal for applications that do not have space in their current HVAC system to add a humidification unit or if your space is being leased or rented. The PureHum 1000 Pro minimizes your installation time and costs, giving you instant savings compared to permanent solutions.

The unit comes with a standard F7 filter, with optional upgrade to a HEPA H10 filter, which effectively removes airborne pollutants in humidification mode. In purification mode, an activated charcoal\*\* filter combined with HEPA H10 filter can also be used to remove odors, pollens and other pollutants from the air.

The integrated touchscreen display offers intuitive control and provides data on room conditions, water level and operating parameters. An optional WLAN/Wi-Fi module allows the unit to be controlled via a phone app.

\*Based on a ceiling height of 10 ft. Volumetric max of 35,315 CF (1000 m<sup>3</sup>).

\*\*Activated charcoal filter is not suitable for evaporative humidification operation.



Control through the multi-lingual touch-screen, or through the app.

## TECHNICAL DATA

SPECIFICATIONS	
Dimensions (WxHxD)	33.5 x 24.8 x 15.4 inches (85x63x39 cm)
Weight (empty)	61.7 lbs (28 kg)
Power Consumption	130W
Water tank capacity	13.2 gal (50l)
Capacity levels (automatic)	1 to 8
Sound pressure level	32 to 58 dBA
Air circulation rate	412 to 588 cfm (700 to 1000 m3/h)
Air Filtration	F7 filter (standard) HEPA H10 (option)Charcoal filter (option)
Humidification capacity	3.75 to 5.75 lbs/hr (1.7 to 2.6 l/h)
Humidification capacity	2.0 to 3.5 lbs/hr (0.9 to 1.6 l/h)
For rooms up to a max. of	3500 sq ft*(330 m2)
Water level detector	Standard
UV disinfection	Standard
Lime conversion cartridge	Standard
Water connection	Option (3/4" NPT)
Control via radio hygrostat	Standard





# HIGH PRESSURE DIRECT ROOM HUMIDIFIERS

- ✓ printing & packaging
- ✓ electronics
- ✓ aerospace
- ✓ wood
- ✓ horticulture
- ✓ food industry
- ✓ tobacco
- ✓ medical technology

High pressure humidification offers low operating costs, reduced cooling costs and requires minimal maintenance. We provide the highest quality products and services to a wide range of industries in production facilities and office environments to maintain consistent relative humidity levels.

## **How does high pressure humidification work?**

Water is atomized into micron-sized particles which are immediately absorbed into ambient air. Systems are internally controlled to monitor facility humidification zones and respond accordingly, 24 hours a day, to maintain the desired levels of humidity. Typical range of operation is  $\pm 2\%$  from Relative Humidity set point regardless of environmental conditions. Humidification distribution equipment is matched to the characteristics of the facility to assure 100% evaporation of moisture. Energy incentives are often available for replacement of older, less efficient humidification technology.

## **How does high pressure humidification reduce energy consumption?**

High pressure humidification not only saves energy compared to other technologies, it's an environmentally conscious solution. The evaporation of water particles in air requires energy (0.68 kW per liter of atomized water) which is taken from the surrounding air. This process decreases the temperature of air while increasing the relative humidity.

In operations with mechanical cooling, reductions of air conditioning can be significant. Free cooling environments, such as computer data centers, realize lower energy consumption for cooling, lower power usage effectiveness (PUE) and a decrease of their carbon footprint.



## ML SERIES

The **ML Series** direct room humidification system offers low operating costs, reduced cooling costs and requires minimal maintenance. The systems can be combined or customized to fit multiple zones, high loads, many different room configurations, and applications.

- Modular design to fit many air handling units (AHU) and zones or spaces
- 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 14.3 lbs/hr)

### ML SERIES PUMP STATION

ML Series (In-Space) Direct Room humidifiers use the ML pump station to feed the direct room humidification heads in the space that is being humidified.

#### **ML High Pressure Pumpstation 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 - 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 Systems and more**

- Ultra-clean de-mineralized water filtration
- 5 micron sediment pre-filter
- Processes normal tap water
- 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 de-ionized (DI) water production and CO2 dosing





## ML PRINCESS

**ML Princess** is a ceiling mounted humidifier. The 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 low ceiling heights or spot humidification.

## ML FLEX

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



## TECHNICAL DATA

SPECIFICATION	ML PRINCESS 2	ML PRINCESS 2 MAX	ML SOLO 1	ML SOLO 2	ML FLEX SYSTEM
Nozzles	8 stainless-steel nozzles	8 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 115 (52) with full evaporation	5.5 (2.5) - 10 (4.5)	11 (5) - 20 (9)	3.3 (1.5) - 10 (4.5) per nozzle
Built-in Distribution Fan	Even humidification at 55 dBa and 100W	Even humidification at 56 dBa and 100W	Low noise for even humidification at 43 dBa	Low noise for even humidification at 43 dBa	Low noise for even humidification at 32 dBa
Ceiling Heights – ft (m)	As low as 20 (6)	As low as 20 (6)	As low as 8 (2.4)	As low as 10 (3)	minimum between 6.5 (2) and 30 (9) depending on nozzle size and direction
Mount	Ceiling	Ceiling	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	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.



# HIGH PRESSURE IN-DUCT HUMIDIFIER

- ✓ data centers
- ✓ printing
- ✓ textile
- ✓ greenhouses
- ✓ storage facilities
- ✓ electronics



## HP SERIES

The **HP Series** high pressure humidification system uses advanced atomization nozzles to ensure efficient evaporation, providing considerable operating cost savings when compared to other humidifier technologies.

Precision impeller type high pressure nozzles generate an extremely fine spray of water droplets. A unique nozzle manifold design ensures that the spray is uniform and absorbed over a short distance. In combination with the Condair Mist Eliminator, the humidified air is 99% free of aerosols for hygienic operation.

High Precision Nozzles deliver 10-40 micron droplets through a 0.008" orifice. A single nozzle can produce up to 12 lbs/hr of humidification. Constructed from durable stainless steel and factory assembled onto manifolds, Condair nozzles are easy to integrate into any project.

The Pump Module supplies high-pressure water to the patented nozzles eliminating the need for a compressed air system. Reverse Osmosis water is supplied to the pump system at 25-60 PSIG (172- 413 kPa) and exits the nozzles at 1000 PSIG (6895 kPa). Pumps are available in brass or stainless steel, and with or without a variable frequency drive.

- Modular design can fit many air handling unit (AHU) sizes.
- Save on total costs by connecting one HP pump to numerous AHU's.
- Extremely low energy consumption (up to 90% less!) when compared to steam humidifiers.
- Customizable solutions for true (n+1) redundancy, dual pump configuration, BAS/BMS communication, and large loads (over 9000 lbs/hr).
- Integrated reverse osmosis (RO) water treatment.
- Add-on options for ultra-hygienic and sensitive applications: Deionized (DI) water production and clean-in-place (CIP) intelligent water disinfection.

### HP High Pressure Pumpstation 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 - 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 Systems and more

- Ultra-clean de-mineralized water filtration
- 5 micron sediment pre-filter
- Processes normal tap water
- 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 de-ionized (DI) water production and CO2 dosing

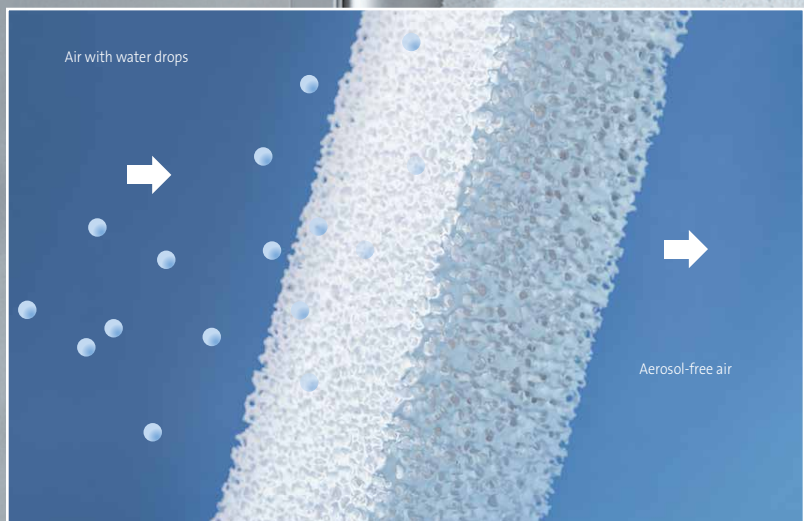
## TECHNICAL DATA

SPECIFICATION	HP 100 (200 VFD)	HP 300 (500 VFD)	HP 500 (800 VFD)	HP 800 (1300 VFD)
Pump Capacity: lbs/hr (l/hr)	No VFD: 26 - 264 (12 - 120) With VFD: 11 - 440 (5 - 100)	No VFD: 79 - 700 (36 - 318) With VFD: 44 - 1100 (20 - 500)	No VFD: 92 - 1162 (42 - 528) With VFD: 88 - 1760 (40 - 800)	No VFD: 159 - 2086 (72 - 948) With VFD: 132 - 2860 (60 - 1300)
Nominal Output (480V/3/60Hz) kW	No VFD: 1.0 With VFD: 1.8	No VFD: 1.8 With VFD: 2.2	No VFD: 2.2 With VFD: 3.2	No VFD: 3.2 With VFD: 4.0
Rated Current Amps	1.5	1.9	3.7	5.3
Required humidifying section (Length)	Min. 4.2 ft. (1.3 m)			
Humidifying capacity	26 - 2860 lbs/hr (12 - 1300 kg/hr)			
Pump supply voltage	208, 400, 480, 600 VAC / 3 Phase / 50-60 Hz			
Pump operating pressure (Standard)	1015 Psi (70 bar)			
Inlet water pressure range	30 - 102 Psi (2 to 7 bar)			
Inlet water quality	Reverse Osmosis, De-ionized (5 - 30 µS/cm)			
Control signal connection	0-5 VDC, 1-5 VDC, 0-10 VDC, 2-10 VDC, 0-20 mA, 4-20 mA			
Relative humidity control accuracy	± 4% (7 Stage), ± 2% (15 Stage)			
Required air filter class upstream of humidifier	MERV 13			
Allowable air velocity	787 ft/ min			

### Options

Multi-zone Package	Allows up to 4 individually controlled humidifier grids to share a common pump.
Droplet Separator	Easy to install droplet filter contains water to a given evaporation distance and improves water efficiency through post evaporation.
Conductivity sensor	Continuously monitors incoming water quality by measuring conductivity and triggers alarm if water values are out of range. Provides peace of mind as well as enhanced operational safety.
Water meter	Integrated water meters display consumption. Ideal for building performance monitoring or claiming regional water and sewer tax credits.
UV Water Treatment	Factory installed ultraviolet lamp inhibits bacterial growth in the humidification water, enhancing hygienic operation and improving operational safety.
High Precision System	Additional valve staging allows for tighter tolerances and enables control accuracy of up to +/-2%.
Communication Gateway	Provides a factory installed communication gateway for integration of the humidifier into a building automation or SCADA system.
Integrated RO System	Provides a high-performance reverse osmosis water treatment system integrated directly into the high pressure pump skid.
Water Softener	Self-regenerating ion exchange softener is ideal for systems with integrated RO systems. Removes hardness prior to RO system, prolonging membrane life.
Carbon Filters	Activated carbon pre-filter removes free chlorine from supply water. Recommended for systems with integrated RO system when chlorine concentrations are above 0.05 – 0.1 mg/l.
Additional Hose	Provides additional high-pressure hose for connections between pump and valve blocks.





# HYBRID

- ✓ data centers
- ✓ textiles
- ✓ automotive
- ✓ pharmaceutical
- ✓ office towers
- ✓ hospitals
- ✓ airports
- ✓ museums

## TWO ADIABATIC PRINCIPLES INTELLIGENTLY COMBINED!

The **DL Series** hybrid humidifier is based exclusively on the advantages of the two humidification principles of atomization and evaporation. This results in the sustainable resolution of key problems which can emerge when these technologies are used individually. The humidification system is therefore the first choice in terms of hygiene, energy efficiency, and cost-effectiveness.

### Atomize

The humidifying water is atomized by stainless-steel atomizing nozzles. The atomizing nozzles have an adjustable spray output and are optimally distributed over the entire cross-section of the device. A high evaporation efficiency and a uniform humidity distribution are achieved by this layout.

### Evaporate

The evaporator unit made of premium ceramic is placed at the end of the humidification distance. It captures the humidifying water and ensures the best possible reevaporation. The ceramic plates thus allow the most effective utilization of the high-grade humidifying water. At the same time, they prevent water accumulation in downstream components.

### Aerosol-free air

No water aerosols should enter the air duct system during hygienic humidification. The aerosols could get deposited there and form hazardous wet areas. Water aerosols in microbially contaminated humidifying water or existing biofilms can become germ carriers and contaminate breathable air.

The DL Series offers a sustainable solution with the ceramic evaporator unit which separates and effectively evaporates the humidifying water from the air flow.

### Advanced Hygiene Features

The Condair DL incorporates many hygiene features to make it one of the most hygienic in-duct adiabatic humidifiers in the world. The system has been independently tested by the SGS Institut Frensenius in Germany and certified for hygienic operation.

Throughout a six-month testing period the humidifier outperformed the VDI6022 industry standard for microbial growth, achieving a maximum CFU/ml microbial count 85% less than the recommended limit.

A patented Hygiene Plus feature provides silver ionisation water treatment. Silver has a residual sterilising effect and actively inhibits microbial growth throughout the humidifier. The Hygiene Plus system delivers the exact level of disinfecting silver needed depending on the humidity output at any time.

Alongside the system operating on pure RO water, flush and drain cycles ensure water cannot remain in supply pipelines or the humidifier itself long enough to stagnate. The system will drain if left unused for 12 hours and perform a flush cycle whenever powered-up. An optional pipe flushing feature allows water to be drained from the pipework between the RO filter and the central pump station.



## DL SERIES

Pressurized molecular nozzles require less compression work which translates to significant energy savings. The nozzle system has the highest control precision with 31 stages of output in conjunction with an adjustable speed driven humidification pump. Using pressurized molecular nozzles combined with unique ceramic media absorption distance is minimized and guarantees the humidified air is absolutely aerosol free.

- Very low pressure drop: 0.2in w.c. at 500 fpm
- Extremely low installation length of 24"
- Optimized ceramic for higher humidification efficiency
- Certificated hygiene system with HygienePlus® Concept
- Modern and intuitive touch screen controller
- Low maintenance required
- BMS connectivity available
- Independently certified by the SGS Institut Frensenius for hygienic operation



## HYGIENEPLUS®

The HygienePlus® concept is a complete hygiene solution that has the highest hygiene quality. The HygienePlus® concept is based on demand driven silver ionization of the humidifying water to prevent the growth of harmful microbial organisms. The silver ions treat all the humidification components for unmatched hygiene.



## INTUITIVE TOUCH CONTROLLER

With the Condair touch controller you have all devices and process data at a glance. Functional data can be called up in real time and by using a detailed data history. Via the IoT (Internet of Things) connection, data can be transferred to the Condair Cloud, viewed and analyzed online.

The connection to Modbus RTU or Modbus TCP as well as BACnet IP or BACnet MS/TP is easily made directly via the interfaces attached to the controller.

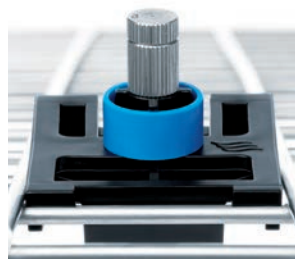
The DL has BTL (BACnet Testing Laboratories) certified BACnet technology. This certification is carried out by an accredited BTL test laboratory and is considered a worldwide test standard in BACnet communication. The optional gateway board can also be used to connect to a Lonworks network.





### PATENTED CERAMIC MEDIA

- Full surface evaporation
- Maximum utilization of humidifying water
- Aerosol free
- Very low pressure drop (0.2in w.c. at 500 fpm)
- Lasts the lifetime of the system! Does not require replacement



### MOLECULAR ATOMIZER NOZZLES

- Flexible spray angle of 15°
- Non-wearing
- High precision humidification
- Multiple nozzle sizes
- Made from 316 stainless steel

### TECHNICAL DATA

SPECIFICATION	TYPE A (WITH BOOSTER PUMP)	TYPE B (WITHOUT BOOSTER PUMP)
Maximum Duct Velocity	590 fpm (3 m/s)	
Maximum Duct Velocity With Droplet Separator	787 fpm (4 m/s)	
Pressure Drop at 500 fpm	Approx. 0.20 IWC (50 Pa)	
Power Supply	110-240 V/1/50...60hz	
Voltage Solenoid Valves	24 V DC	
Inlet Water Quality	RO or DI (0.5-15uS/cm)	
Water Supply Pressure	44 psi – 102 psi (3 – 7 bar)	44 psi – 102 psi (3 – 7 bar)
Unit Width	17.7"– 165.4" (450 mm – 4200 mm)	
Unit Height	17.7"– 157.5" ( 450 mm – 4000 mm)	
Unit Depth	23.6"– 35.5" (600 mm – 900 mm)	
Control Accuracy	7-Steps: ±3% RH 15-Steps: ±2% RH 31-Steps: ±2%RH	7-Steps: ±4% RH 15-Steps: ±3% RH 31-Steps: ±3%RH





# COMPRESSED AIR AND WATER SPRAY HUMIDIFIERS

- ✓ textile
- ✓ printing
- ✓ food industry
- ✓ tea
- ✓ tobacco

## JS SERIES

The **JS Series** JetSpray Compact is an easy-to-install, direct room humidifier for areas that need up to 66 lb/hr of humidification. This compressed air and water humidifier comes pre-assembled and offers guaranteed evaporation of the moisture into the atmosphere without any potential risk of drips.

By forcing the water to mix with the air under pressure, the sprays produced are rapidly absorbed and highly directional. This makes the JetSpray ideal for cold temperature applications, such as cold stores, where the ambient humidity is often high and moisture less readily absorbed by the air. As no fan unit is required to encourage evaporation, the JetSpray can reliably be used in very dusty and dirty industrial environments without frequent maintenance. Nozzles contain a self-cleaning mechanism that prevents blockages and provides reliable operation.

## ADVANCED HYGIENE

Advanced hygiene features ensure the humidifier provides safe humidification. The JetSpray is a sealed system with no open water tanks, minimizing the risk of water contamination. Automatic purge and flush cycles ensure water cannot remain in the pipelines to stagnate. An air run-on feature leaves the pipework dry at the end of the cycle. PureFlo Ag+ silver ion water treatment is incorporated on the incoming water supply line. The JetSpray Compact can operate on potable water, softened or RO water. This means it provides very efficient water consumption, when compared to humidifiers that require RO water.

## FEATURES AND BENEFITS

- Fully assembled unit (IP54 rating) makes installation easy
- Provides up to 66 lb/hr of humidification, which is ideal for small industrial areas
- The use of compressed air prevents nozzle dripping
- Can be operated on potable, softened or RO water
- Nozzles can be directionally adjusted horizontally and vertically

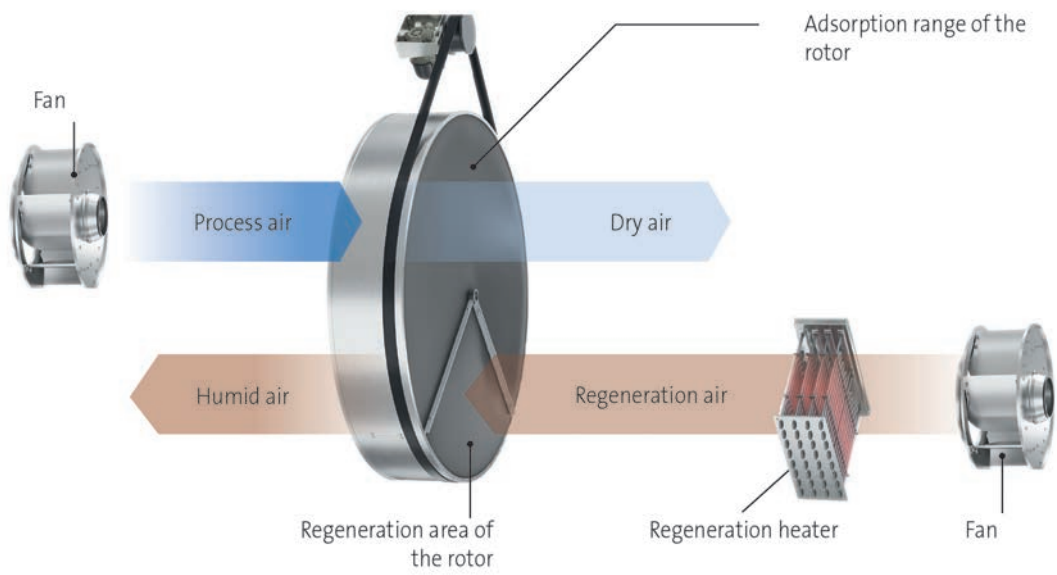
## TECHNICAL DATA



	JS60C-11	JS60C-15	JS60C-20	JS60C-24	JS60C-28	JS60C-40	JS60C-53	JS60C-66
Output (lbs/hr)	11	15	20	24	28	40	53	66
Humidity Control	±4 % RH							
Control	On/Off							
Dimension - In. (mm) W x H x D	20.5 x 29.1 x 6.57 (521 x 740 x 167)							
Weight - lb. (kg)	40 (18)							
Power Supply	110VAC / 60Hz							
Power Consumption (W)	0.17							
Fuse Rating (A)	4							

COMPRESSED AIR AND  
WATER NOZZLES





# INDUSTRIAL DEHUMIDIFICATION

- ✓ archival storage
- ✓ electronics
- ✓ pharmaceutical
- ✓ food processing
- ✓ beverage manufacturing
- ✓ chemical factories

## DESICCANT DEHUMIDIFIERS

The Condaire **DA Series** provides safe and reliable desiccant dehumidification for nearly any space. Using industry tested silica gel desiccant technology, the DA Series allows for high efficiency dehumidification at low dew points for numerous applications. As a fully UL certified desiccant dehumidifier and using self-regulating PTC heaters, the DA-Series is one the safest dehumidifier available.

As with all Condaire products, the DA Series is a fully packaged unit. This means the fans for the system are internal to the unit. Along with the standard insulated casing, the DA Series is extremely quiet to operate.

- High-performance Silica Gel desiccant rotor
- Robust Magnelis housing with RAL9006 powder coating
- Insulated casing with double skin layout
- Electric reactivation with self-regulating PTC heater
- EC fans for process and reactivation air fans
- PLC control with touchscreen
- Service friendly design
- All units are fully UL approved

Depending on customer requirements, the following options are available:

- Pre-cooling and/or post-cooling modules (chilled water coils)
- Modbus TCP/IP & RTU RS485 board for PLC
- BACnet MS/TP & IP board for PLC
- Stainless-steel (on special request)



## TECHNICAL DATA

SPECIFICATION	DA 300N	DA 400N	DA 600N	DA 800N	DA 1400N	DA 2000N	DA 2400N	
Drying capacity at 68°F (20°C), 60%rH (lb/hr)	7.3	11.2	15.6	22.0	29.7	31.9	44.1	
Process airflow nominal (CFM)	300	400	600	800	1400	2000	2400	
Nominal ext. static pressure process air side (in. H <sub>2</sub> O)	1.2	0.8	1.2	0.8	1.2	1.2	0.8	
Reactivation airflow nominal (CFM)	88	129	208	235	294	323	500	
Nominal ext. static pressure reactivation air side (in. H <sub>2</sub> O)	1.2	1.0	0.8	1.2	1.0	0.8	0.8	
Electric power of regeneration heater (kw)	4	7	10.2	13	17	18	23	
Voltage (V/Ph/Hz)	280/3/60, 480/3/60						480/3/60	





# WATER TREATMENT

## WHY WATER TREATMENT?

Your water may be safe for drinking, but without water treatment may lead to scaling or bacteria build-up in your humidification systems as well as dusting within applications.

When paired with humidification systems, water treatment is used for:



HUMIDIFIER TECHNOLOGY	SCALE MANAGEMENT	HYGIENE
Isothermal	<ul style="list-style-type: none"> <li>Preventing scaling within the boiling system</li> <li>Reducing maintenance frequency and costs</li> <li>Improving operation efficiency, reduced energy costs</li> </ul>	<ul style="list-style-type: none"> <li>Isothermal systems that boil water provide clean atmospheric steam without the requirement for water treatment</li> </ul>
Adiabatic	<ul style="list-style-type: none"> <li>Preventing scaling and corrosion of media, nozzles, and other components</li> <li>Preventing application dusting due to carryover of particles and contaminants</li> <li>Reducing maintenance frequency and costs</li> </ul>	<ul style="list-style-type: none"> <li>Eliminating bacteria content in the water which can be carried over into the air during humidification.</li> </ul>



## CONDAIR RO-H

### Compact and Economic Reverse Osmosis System

The Condair **RO-H** pure water system removes over 95% of all salts and minerals contained in tap water. Models available: RO-HB and RO-HM.



## CONDAIR RO-E

### Compact and Integrated Reverse Osmosis System

The Condair **RO-E** pure water system can pair seamlessly with Condair humidifiers through the integrated controller or have it's own controller for standalone operation.



## CONDAIR MLRO










### Industrial Reverse Osmosis system

The Condair **MLRO** standalone pure water system is ideal for large isothermal or any adiabatic applications. This system provides RO water from pre-treated water to achieve optimal water quality.

## TECHNICAL DATA

SPECIFICATION	RO-H	RO-E	MLRO
Permeate output 59°F (15°C)	158 gpd (26 lph)	374-3252 gpd (59-513 lph)	1900-19000 gpd (300-3000 lph)
Humidification capacity (max.)*	40 lbs/hr	1130 lbs/hr	6500 lbs/hr
Storage tank gal (l)	2.5, 3.8, 6 (8, 12, 18)	6.6, 37 (20, 140)	13-264 (50-1000)
Power	120V/1/60, 75W	120V/1/60, 600W	208-480V/3/60
Size (LxWxH) in (mm)	15.2x9.8x18.7 (386x249x475)	18.8x21.9x31.3 (477x556x795)	63x28x34-55 (1600x711x864-1397)
Standard Accessories	carbon filter, 5µ filter, tank	5µ filter, tank, cover	5µ filter, tank
Recommended Pre-treatments	None	carbon filter, softener	softener, dechlorinator

\* Dependent on incoming water quality and temperature.

									
WT SERIES	EL SERIES	RS SERIES	GS SERIES	SE SERIES	ME SERIES	ML SERIES	HP SERIES	DL SERIES	US SERIES
RO-H		■							■
RO-E		■	■	■	■				■
MLRO		■	■	■	■	■	■	■	■





## CONTROLS

### CONDAIR CONTROL TECHNOLOGY FOR SMOOTH CONTROL OF EVERY HUMIDIFIER APPLICATION

Our customers deserve highly efficient, reliable humidification systems that offer simplistic controls. This is why we at Condair have designed highly accurate control systems that perfectly complement our products. Designed to provide clear information regarding humidifiers and their operating conditions, they allow for users to quickly input preferred functions and maintain system operations. We can supply control technology suited for any type of humidity application including residential, commercial and industrial environments.





Digital wall control

## ON/OFF CONTROLS

Condair **on/off controls** can be used with all technologies for humidity control and/or humidification safety.

For room humidity control, Condair offers a return-air duct mounted on/off digital duct humidistat or a wall mounted on/off digital humidistat. Both humidistats come complete with a built-in sensor, a keypad for adjusting setpoint and a backlit LCD display. Features such as outdoor temperature setback and a relay for furnace/circulation fan control ensure safe, energy efficient operation. Accuracies of  $\pm 4.5\%$  RH are expected.



Digital duct control

For humidification safety, Condair offers an air-proving and high-limit control device. The air-proving device is used to prevent humidifying when there is no air movement in the duct. The high-limit control device is an on/off digital duct humidistat used to prevent over humidification of the supply duct.

## MODULATING CONTROLS

Condair offers modulating **humidistats** and **transducers** for more precise room and duct control.

Humidistats provide a demand signal to the humidifier, while transducers sense and transmit relative humidity levels to the humidifier, Building Management System (BMS), or wall-mounted humidistat. Typical controller accuracies of  $\pm 2.5\%$  RH are expected with standard conditions, while tolerances of  $\pm 0.5\%$  RH can be achieved with Condair's new High Precision Package.



nLink-Analog control

Humidistats and transducers can either be wall mounted for room humidity control or duct mounted for room humidity and/or high limit control. Both wall and duct controllers come complete with a keypad for configuration as well as a backlit digital display. Controls can be combined with BMS to allow remote display and configuration of humidity setpoints.



nSens control



PROTOCOL	SE SERIES	HP SERIES	ML SERIES	MC SERIES	US SERIES	MLRO	DA SERIES	OE SERIES
Modbus	■	■	■	■		■	■	■
BACnet IP	■	■	■		■	■	■	
BACnet MS/TP	■	■	■			■	■	
BACnet MS/TP BTL Certified	■							
BACnet IP BTL Certified	■							
LonWorks	■							

■ Standard ■ Optional





# BUILDING CONNECTIVITY

Condair **Building Connectivity** offers monitoring and control allowing humidifier(s) to communicate to your Building Management System (BMS). The controller is factory installed and is located internally to the humidifier. Simply specify at time of order what operating protocol you are using – Modbus, BACnet IP, BACnet MSTP or LonWorks.







## INTEGRATED CONTROLLER

The Condair products that come equipped with a touchscreen Integrated Controller (IC or IC2) can communicate with common building management systems such as BACnet IP or MS/TP, Modbus, and LonWorks. Products equipped with the Integrated Controller can, as a standard feature, communicate with Building Automation Systems via Modbus RTU, BACnet IP, BACnet MS/TP (master or slave).\*

Additionally, the following protocols can be accessed with an optional add-on card: BACnet IP with BTL Certified, BACnet MS/TP (master or slave) with BTL certified hardware, LonWorks.

\*Standard BACnet MS/TP master support is available from products running 5.8.x.x or newer. Products equipped with the second generation integrated controller are BACnet BTL certified as a standard feature.

## INTEGRATED CONTROLLER PRODUCTS AND STANDARD CONNECTIVITY OPTIONS

	 EL SERIES	 RS SERIES	 GS SERIES	 ME SERIES	 DL SERIES	 RO-A
Modbus	■	■	■	■	■	■
BACnet IP	■	■	■	■		■
BACnet MS/TP	■	■	■	■		■
BACnet MS/TP BTL Certified	■	■	■	■	■	
BACnet IP BTL Certified	■	■	■	■	■	
LonWorks	■	■	■	■		

■ Standard ■ Optional





# DESIGN TOOLS

## HELP

**HELP** is an interactive humidification engineering and load-sizing program that guides you through the process of selecting humidification systems. The web-based software is designed to make humidification/dehumidification quotes quicker and easier. It includes:

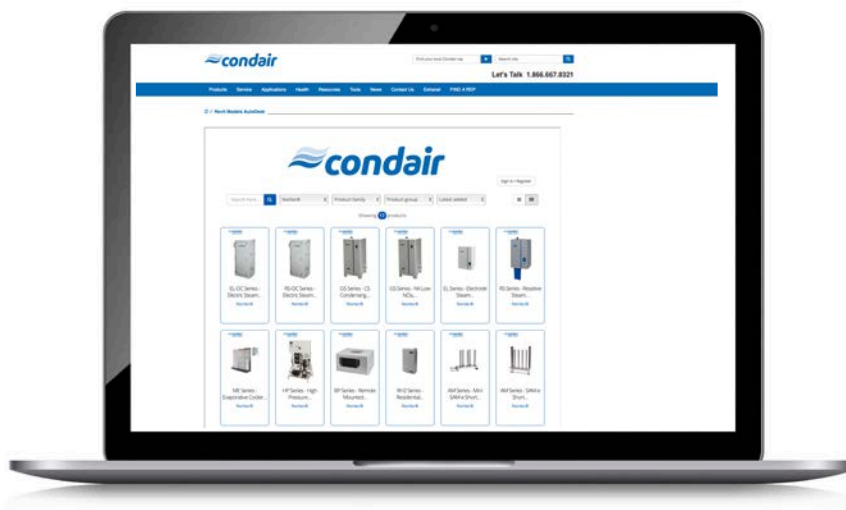
- Online product catalog
- Wizard-based product selection to build a complete humidification system
- Specification and schedule tools with pdf or excel export
- Intuitive graphical load sizing system
- Dynamically generated humidifier dimensional drawings
- Layout tools
- Visual schematics
- Application resources and product recommendation by application
- Cloud saved quotes
- Built-in representative finder to connect you with your local Condair representative for pricing.
- Integrated ordering and shipping tools

Visit <https://na.condairhelp.com> to register for a free account and see how effortless humidification/dehumidification quotes can be!

## BIM OBJECTS

Condair offers Building Information Modeling (BIM) models for all product lines! The models are complete with detailed 3D geometry, submittal data, specifications, and product details. Condair is the first humidifier manufacturer to offer this important support tool for architects and consulting engineers.

To access Condair models, simply go to [condair.com](http://condair.com) and click on **tools** in the menu.





# PRODUCT SERVICE

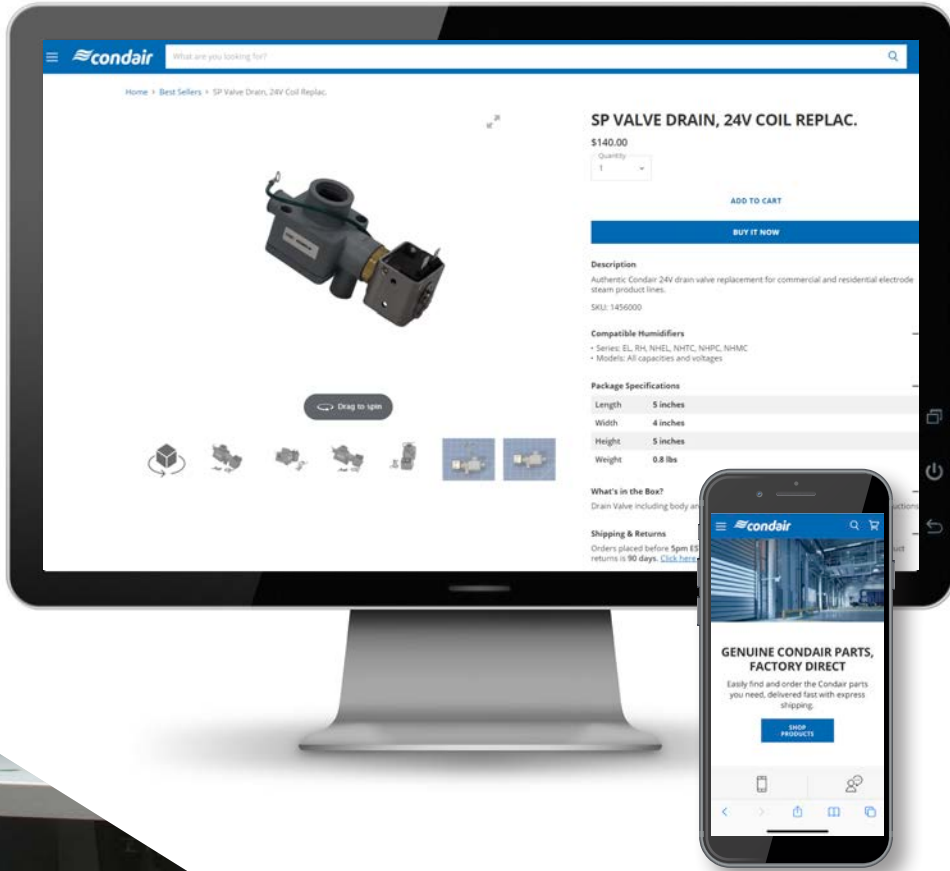
## QUALITY SERVICE STRAIGHT FROM THE MANUFACTURER, GUARANTEED!

As the global market leader for humidification/dehumidification and evaporative cooling solutions, Conair is continuously aiming to exceed customer expectations through reliable and durable solutions. With the Service provided by Conair, we transfer the knowledge from our team at the factory right to the customer's site. We deliver to you, the benefits of a wide range of service offerings, spare parts portfolio, service specialists, and over 75 years of experience in reliable Service delivery.

When choosing Conair to assist with installation support, start-up or provide preventative maintenance for Conair products, the facility owner, engineer, and contractor will reap the benefits of having the manufacturer's expertise delivered directly onsite. Your humidifier/dehumidifier will receive service support guaranteed to the highest standard, providing everyone peace of mind.

All Conair orders are automatically archived including the system design data for each delivered unit. During service work, a Conair expert can access this data onsite, via mobile software, to get the most updated installation plans or an accurate picture of the system's history. Conair's humidity control specialists are the preferred solution when it comes to the expertise for commissioning support or to maintain a Conair humidification/dehumidification system.

- Technical expertise delivered directly from the manufacturer
- Efficient and long humidifier operational lifetime
- Accommodation for contractor and engineering partners
- Peace of mind knowing that an expert will be on site
- Focus on other projects while we handle your humidifier service
- Professional project management
- Commissioning and start up support



# CondairParts.com

## YOUR ONE-STOP SHOP FOR OFFICIAL CONDAIR SPARE PARTS AND CONSUMABLES.

Are you a service contractor, facility manager or equipment owner looking for genuine Condair parts, directly from the manufacturer? It is now easier than ever before with [CondairParts.ca](#) (Canada) and [CondairParts.com](#) (United States) which provide parts professionals with a robust set of tools to identify, price, and order spare parts.

### **Intuitive Search**

Shop and search by part number, part description, product category, humidifier series, model & voltage. Predictive search and intuitive filters help you find parts you need quickly and easily.

### **Detailed Product Information**

Parts information has been greatly expanded and enhanced with all of the necessary information regarding the kit: 360-degree images, “what’s in the box?” a list of components included with the kit, humidifier compatibility and kit specifications. You’ll also have easy access to downloads including engineering manuals, service manuals and exploded view diagrams.

### **Seamless Orders**

Places orders directly with a click of a button! Simply fill a cart with items you wish to order and checkout. You have the option to pay by credit card (Visa and MasterCard), Interac debit or by accelerated checkouts (Apple Pay, Google Pay and Shop Pay).

### **Express Shipping**

Parts orders are now fulfilled and delivery exceptionally fast with same day shipping for US orders placed before 5PM Eastern time. Faster and lower cost shipment options ensure critical parts get to where they are needed in the shortest possible time.

### **Find a Rep**

Not sure where to start? Can’t find exactly what you’re looking for? Looking for more than just spare parts? Find the Condair representative in your local area and their contact information with our “Find a Rep” feature. Simply type in your zip code or postal code and hit enter. Contact your local Condair rep and they will help point you in the right direction.

## READY TO TRY CONDAIRPARTS.COM?

Head to the website and either choose to browse and shop as a guest or create your own account. An account will allow you to save your information, like shipping address, email and payment preference, as well as keep track of your past orders. Contractor accounts vetted by Condair may be entitled to special discounts.

# NOTES

NOTES



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