

Condair MLRO

A custom water treatment system
for your unique applications



Humidification, dehumidification and
evaporative cooling

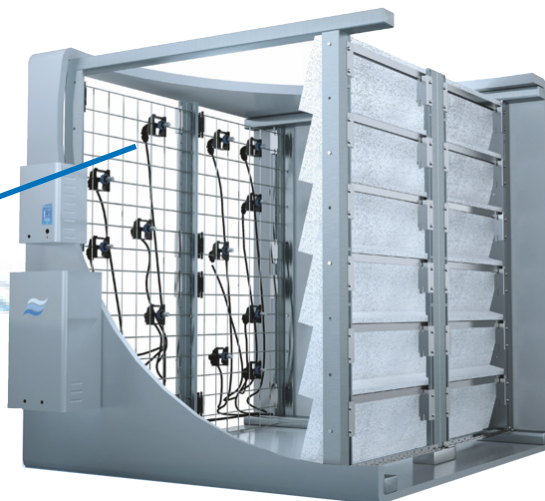
Condair: Your Water Experts

Reverse osmosis (RO) is an effective and economic method of removing unwanted minerals from water. By removing the minerals from a humidifier's supply water, any scale buildup in the system is virtually eliminated. This results in a much lower level of required maintenance in all types of humidifiers, as well as reduced energy consumption in steam humidifiers.

Adiabatic



Avoid nozzle replacements due to clogging and dusting of the humidified environment.



Reduce maintenance intervals



Extend media life and keep it cleaner, longer.



Improved humidity control



Isothermal

Custom Solutions to Fit Your Application

The Condair MLRO is a completely customizable reverse osmosis system capable of providing from 98 to 396 gallons (300-1500 liters) of treated water to any application. The MLRO is fed with softened and dechlorinated water to extend the lifetime of RO membranes, a holding tank is sized to ensure continuous water supply.

- PLC control
- Separate pump provides 4 bar output pressure
- Overflow protection
- Compact skid
- Stainless steel frame
- Fully assembled and tested
- All components exposed to water are made of corrosion resistant material
- Hoses are stainless steel braided or high pressure



Options

MLRO DL	MLRO option specific for use with the DL hybrid humidifier that provides up to 7 bar output pressure and is able to receive pressure signals from up to 3x DL units. This option also comes with standard UV.
EC Regulator	Several EC Regulation options that allow for conductivity to be measured and regulated as well as to set hi/low alarms.
DI Option	RO water can be further treated.



Consider including Condair Expert On Site with your project. On site product assistance, start up and commissioning as well as preventative maintenance ensure precise configuration and optimal system performance for the duration of the product's lifetime.

Technical Specifications

Condair MLRO	300	500	800	1000	1500
Permeate (L/h) @15°C	275	500	750	1000	1500
Permeate (gpd) @59°F	1728	3168	4752	6336	9504
Storage tank gal (l)	13 (50)	52 (200)	132 (500)	132 (500)	132 (500)
Permeate Quality* (µS/cm)	5 < EC < 30				
Outgoing pressure RO psi (bar)	43.0 – 60.0 (3.0 – 4.2)				
Permeate/ Concentrate Ratio	50/ 50 %	75/ 25 %			
Salt rejection rate	>95%				
Inlet pressure psi (bar)	36.0 – 101.0 (2.5 – 7.0)				
Water temperature °F (°C)	41 – 77 (5 – 25)				
Power supply	208/3/60	208/3/60	208/3/60	208/3/60	208/3/60
	480/3/60	480/3/60	480/3/60	480/3/60	480/3/60
Connection and dimension					
Inlet Water	3/4"RG				
Permeate	3/4"RG				
Drain	3/4"RG				
Size, frame (LxWxH) in (cm)	34x28x63 (86x70x160)		56x28x63 (140x70x160)		
Size, tank (LxWxH) in (cm)	On skid	24x24x40 (60x60x154)	31.5x31.5x50 (79x79x186)		
Weight lb (kg)	552 (115)	485 (220)	552 (250)	600 (270)	705 (320)

*Permeate quality is based on meeting specified supply water quality targets found in the product technical documentation. To make sure your supply water meets the requirements, take an on-site water quality test. Find out about water testing options from your local sales rep.

Features

- Virtually eliminates scale buildup in humidifiers
- Provides hygienic water solutions
- Reduces maintenance time and cost
- Reduces energy consumption by humidifier
- Enables more precise humidity control
- Extends life cycle of humidifiers

