CONDAIR CP3

Electrode boiler steam humidifier
Reliable and economic steam humidification

Humidification and Evaporative Cooling

condair

Electrode plugs
Easy to remove

Steam cylinder
Cleanable or disposable options with zinc coated steel elements for long life and reliable operation. Condair CP3 steam cylinders can last up to three times longer than other electrode boilers due to the humidifier's advanced scale management features.

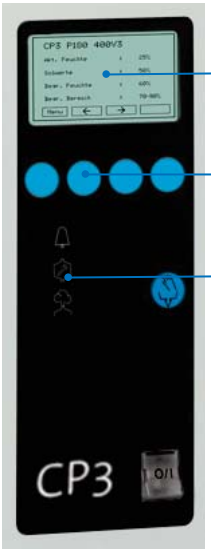
Conductivity monitoring
Mineral levels in the water are proactively monitored by current sensors and precise drains are performed to maintain an optimum water mineral level. This reduces scale build-up in the steam cylinder, prolongs the cylinders operational lifetime, minimises necessary maintenance and reduces spares costs.

Pumped drain
Increases the amount of scale removed from the system to prolong cylinder life and reduce maintenance.

Condair CP3
Electrode boiler steam humidifier

Casing
Powder coated steel as standard with stainless steel option.

BMS connection
Optional e-LINKS card for remote BMS operation.



Large, clear LCD display

Easy to operate keypad

LED operational indicators

Hinged control panel
For easy access to electronics.

The Condair CP3 electrode boiler steam humidifier is an economic yet dependable solution for steam humidification.

It is easy to install, simple to use and provides accurate and responsive humidity control. Innovative features such as water conductivity monitoring and staged electrode use maximise the lifetime of the steam cylinder and extend the operational periods between service requirements. When servicing is needed, the Condair CP3's design makes it easy to drain, remove and replace the disposable steam cylinder, keeping downtime to a minimum.

The Condair CP3 automatically calculates the conductivity of the water in the boiling cylinder **to provide accurate humidity control.**

Intelligent water quality and level control

Water conductivity management
An electrode boiler humidifier operates by passing electrical current through water to heat it. As the water evaporates its mineral content becomes more concentrated. This increased level of conductivity affects the level of steam production.
To maintain an accurate output the concentration of minerals in the water is automatically reduced through drainage and replacement with fresh water.

Steel electrodes with "lattice" design
The robust zinc coated steel elements provide a long operational life. Their special lattice structure offers the greatest possible surface area for optimal transfer of current to the water.

Staged electrode use to prolong life
Only the lower sections of the electrodes are initially submerged and used to create steam. During operation the parts of the electrodes submerged in the water become encrusted with scale. As their conductivity reduces the water level is automatically raised to submerge fresh unused electrodes.

This staged approach to water level control inside the cylinder prolongs the life of the electrodes and helps maintain their efficiency in providing accurate humidity control.

Flexible use, reliable performance and easy product selection -
these are the strengths of the CP3 steam humidifier

Cleanable or disposable steam cylinders

The steam cylinders are at the heart of Condair CP3 system. During the evaporation process minerals will accumulate in the steam cylinder that after prolonged use will need to be removed.

Depending on your level of desired maintenance, the Condair CP3 offers two options:

Cleanable steam cylinders that can be emptied of scale and reused many times

Disposable steam cylinders to reduce maintenance time and keep the system operating

Modern building management based on integrated technology. Using e-LINKS communication with the humidification system **is simple, quick and clear.**

Easy-to-use with optional connection to BMS

Control panel
Operating the Condair CP3 is child's play. The multiple line LCD display indicates all operating parameters, service requirements and fault diagnostics. Control input is via the integrated keypad. The user-friendly software guides you reliably through the menu, even if you infrequently use the unit.

A CP3 card stores all commissioning settings and allows for easy re-commissioning as well as commissioning of several units to the same configuration.

BMS connectivity
The humidifier has an option to be operated from a BMS and accepts Modbus Standard, BACnet or LonWorks protocols.

e-LINKS

Condair's comprehensive range of steam distribution systems **for any project requirement**

Steam distribution is the key to success

Steam distribution must be tailored to the requirements of each project. Whether high or low steam outputs, close humidity control or short duct sections - for every application there is an ideal solution.

Condair steam distribution lances for normal humidification requirements

Condair OptiSorp steam distribution system for short evaporation distance

Condair fan unit for direct room steam humidification

Standard version

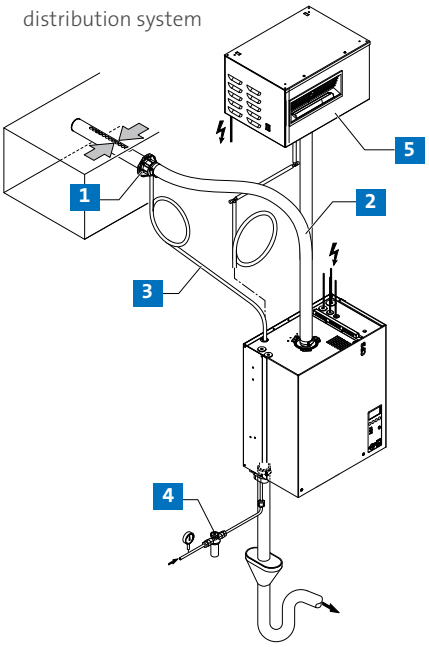
- Disposable steam cylinder
- Internal PI humidity controller
- Control panel with touch pad keyboard and 5-line LCD display
- Self-diagnostic system
- Hours run timer

Options

- All-weather protective housing
- Steam distribution system Condair OptiSorp
- Pressure equalization to 10,000 Pa
- e-LINKS (BACnet / LonWorks) for BMS connection
- Humidity sensors and humidistats

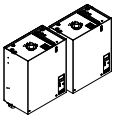
Accesssories

1. Steam distribution
2. Steam hose
3. Condensate hose
4. Water filter isolation valve
5. Direct room steam distribution system



Specifications





Condair CP3		5	8	15	20	30	45	52	60	70	80	90
Heating voltage		Maximum steam output in kg/h										
400 VAC / 3Ph / 50..60 Hz	kg/h	5	8	15	20	30	45	52	60	70	80	90
230 VAC / 3Ph / 50..60 Hz	kg/h	5	8									
Dimensions (WxHxD)	mm	1x 456x620x280			1x 559x667x350			2x 559x667x350				
Control voltage		230 VAC/ 1 Ph / 50..60 Hz										
Operating weight (per unit)	kg	1x 26			1x 65			2x 65				
Conformity		CE, GOST, VDE										

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