GETTING RID OF SCALE!

Steam humidifier with patented
scale management
Condair **RS**

Humidification and evaporative cooling

condair

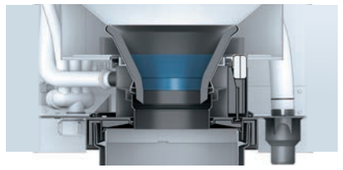
Electric steam humidifier with patented scale management

Scale control

The patented scale management system prevents permanent deposition of scale particles on the heater rods. Scale deposits are successively detached and removed from the steam cylinder into the scale collection tank. Scale management ensures short maintenance operations and a long operation time.

Cold water pool protects in- and outlet against deposition of scale

Near the in- and outlet connections, the twin walled cylinder design of the unit creates a cold water pool which always remains below the temperature of scale formation. Water in- and outlet are therefore protect- ed against scale deposition.



External scale collection tank

The location of the scale collection tank 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 quick and simple.

Flexible steam distribution

Condair RS for use in HVAC-Systems

Condair RS with blower pack for direct room humidification

Corrosion-resistant stainless steel cylinder

Touch Controller for precise control

The innovative control system fitted to RS steam humidifiers ensures intuitive unit operation, outstanding transparency of functions and precise steam supply.

Perfect integration into Building Management Systems

Can be connected to any BMS system (e.g. Modbus and BACnet).

Modbus®

BACnet

Condair **RS**

Condair RS steam humidifiers are optimized for use with demineralized water and drinking water. The design features employed ensure outstanding reliability in use, precise control, and simple operation. The units are the result of decades of experience and they define the state of the art in modern steam humidification.

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 thus continuously removed from the steam cylinder.

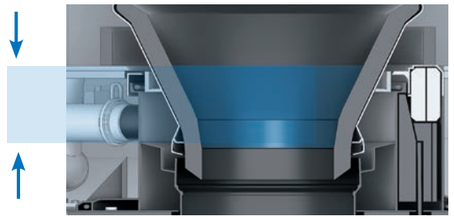
The pieces of scale are collected in an external scale collection tank and can easily be emptied from there. Maintenance work is therefore significantly reduced and operational reliability maximized. The patented scale management system ensures reduced maintenance times and long life of RS steam humidifiers.

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 and very quick.

Innovative drain pump
Scale incrustation is not only undesir- able in the air humidifier itself; it can also cause problems in the drain piping of a building, if scale remains are left in the rinsing 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 subside into the collection tank, where they accumulate. This prevents scale remains from being sucked in and transfered it to the drain piping.

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



Cold water pool protects in- and outlet against scale deposits

scale becomes attached

Patented scale management system dissolves incrustations

scale is removed from the unit into the collection tank

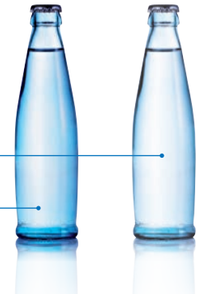
scale collection tank is emptied

Flexible choice of water

A resistance heating system works independently of the conductivity of the humidifying water. For this reason, Condair RS steam humidifiers are suitable for use both with demineralized water and drinking water.

When using demineralized water, maintenance is reduced to periodic function checks.

If steam humidifiers are to be operated with drinking water, then Condair RS steam humidifiers should always be your first choice, because the patented scale management system ensures a high degree of reliability even when the water contains limestone and the external limescale collection vessel allows for quick and simple maintenance.



Touch Controller for precise control

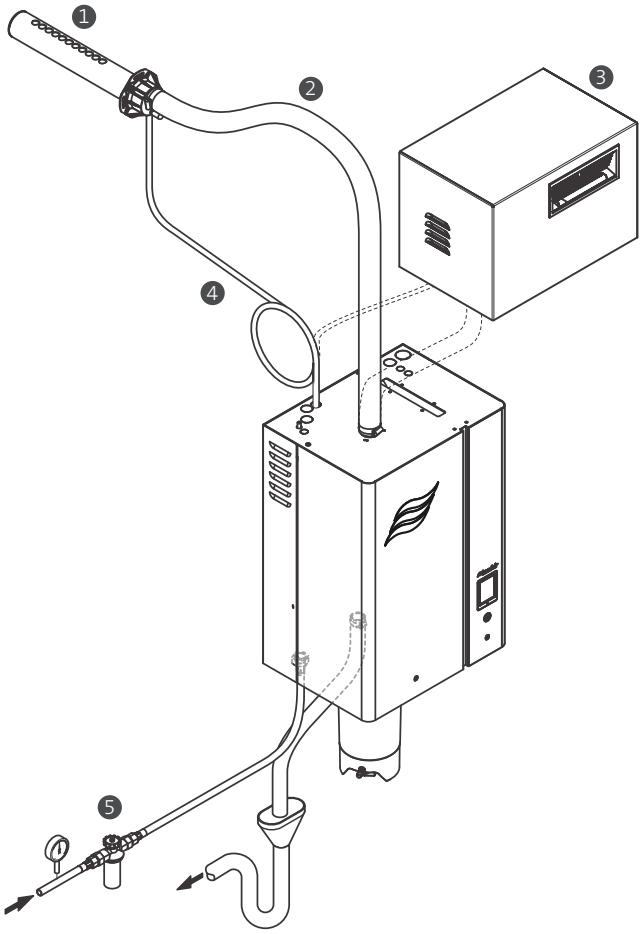
Optimum process transparency
The Condair Touch Controller allows verification of all unit and process data at a glance. Operating data can be called up in real time, and there is a comprehensive data history.

Precise control
The electronic control system allows the steam output to be varied continuously between 0 and 100%; this means accurate control and management of the steam supply rate.

Perfect BMS connectivity
The RS series steam humidifier includes an interface for connection to BMS systems (Modbus and BACnet) as standard. Remote control or remote monitoring is therefore possible without problems. For several humidifiers as part of a more complex installation, the networking system provides a clear overview about the system with rapid and early response in standard operation.

Standard model

- Stainless steel steam cylinder
- Patented scale management
- External scale collection tank
- Remote ON/OFF, operation and fault indication
- Touch screen operation
- Self-diagnostic system
- Real-time clock
- Modbus andBACnet-connectivity

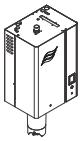


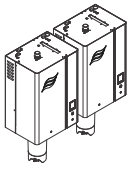
Accessories

- Steam distribution system for ducted installation [1]
- Steam distribution hose [2]
- Ventilation unit for direct room humidification [3]
- Condensate hose [4]
- Filter valve [5]

Options

- OptiSorp multiple steam distribution system
- Humidity sensor for duct/room installation
- Duct/room hygrostat
- Pressure compensation set (up to 10,000 Pa)
- Condair Soft water softener
- Condair AX reverse osmosis unit
- Condair online remote diagnostics
- LonWorks-connectivity





Technical data

Condair RS		5	8	10	16	20	24	30	40	50	60	80
Heating voltage		Maximum steam output in kg/h										
400 VAC/3 Ph/50–60 Hz	kg/h	5.1	8.1	9.9	16.1	19.8	24.2	29.8	40.0	49.6	59.0	80.0
230 VAC/1 Ph/50–60 Hz	kg/h	5.0	8.0	9.8	-	-	-	-	-	-	-	-
Control voltage		230 VAC/1 Ph/50–60 Hz										
Dimensions (WxHxD)	mm	420 x 987 x 370			530 x 1,097 x 406					2x 530 x 1,097 x 406		
Operating weight	kg	40	40	40	66	66	66	66	66	132	132	132
Conformity		CE, VDE, SVE										

Condair GmbH
Parkring 3, D-85748 Garching-Hochbrück
Tel. +49 (0) 89 20 70 08 0, Fax +49 (0) 89 20 70 08 140, www.condair.com