



THE STEAM GENERATOR FOR TOUGHER CHALLENGES

Ideal for any quality of water and with advanced scale management
Condair **Omega Pro**



Humidification, Dehumidification
and Evaporative Cooling

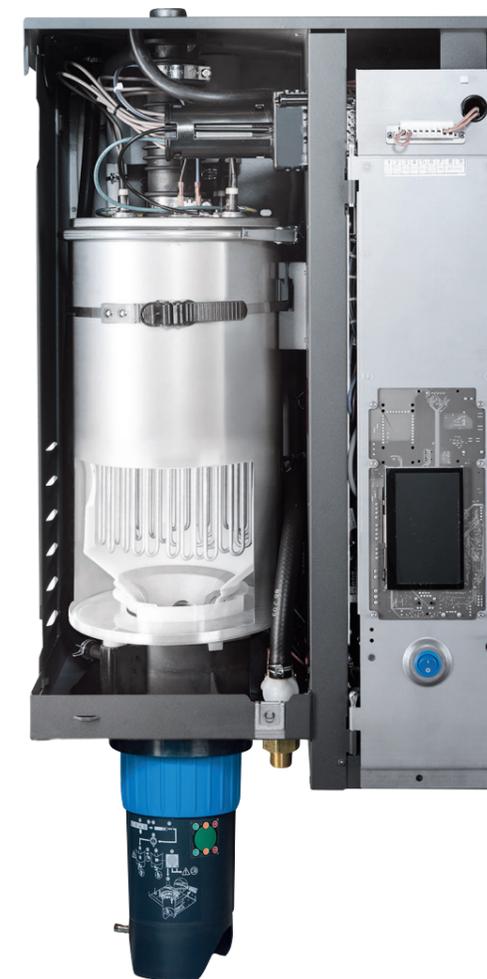
 **condair**



Condair Omega Pro steam generators can operate on mains drinking water, or demineralized water, for close control and reduced servicing. This state-of-the-art humidifier is designed to be easy-to-use and maintain, whilst offering outstanding reliability and accurate humidity control.

Condair **Omega Pro**

Resistive steam humidifier with advanced scale management



High capacity and unwavering dependability

Large commercial and steam bath installations require steam generators with sufficient capacity and dependable reliability. Condair designed the Omega Pro, with resistive heating technology, specifically for such applications.

Using demineralized water you can install the **Omega Pro VE** (without scale management).

Integrates seamlessly

Condair Omega Pro offers building management system (BMS) connections for Modbus RTU or Modbus TCP as well as BACnet IP or BACnet MS/TP. Current and historic performance data can be called-up in real-time or accessed and analysed remotely via optional IoT (Internet of Things) connectivity.

Modbus®

BACnet

Advanced scale management

A technical innovation that solves the scale problem

An advanced steam cylinder design allows scale to be removed from the humidifier by in-house maintenance personnel.

Scale detaches from the heating elements and falls into the scale collection tank. This tank can be easily drained and emptied, without needing to open the main unit housing.

Routinely removing scale from the humidifier improves performance and extends the periods between major service visits, reducing operating costs.

Scale is not only undesirable in the humidifier itself but can cause building drainage issues. By removing scale, rather than sending it to drain, pipe blockages are avoided.

Cold water pool

By locating the water inlet and drain outlet between the walls of the outer cylinder and an inner plastic liner, the temperature by these orifices is kept at a level that inhibits the formation of scale. This prevents inlet and drain blockages, providing robust trouble-free operation.

By locating the drain pump above the scale collection tank, rather than at the base of the unit, it further reduces the quantity of scale sent to drain.

Cold water pool protects water inlet and drain outlet against scale blockages



Scale forms on heating elements



Scale detaches during heating cycles



Scale falls into the scale collection tank



Collection tank is drained and emptied



Condair Spa Control Delta

The innovative spa control for simultaneous control of steam bath, caldarium, rasul, fin sauna, bio sauna. Perfect in combination with the Condair Omega Pro. It is possible to control various accessories such as light, fragrance, fan, freely configurable relay. With the same display, a steam bath and fin sauna can be managed either simultaneously or independently of each other. Operation is via a modern touch display which is available in multiple versions. With a customizable display, a company logo can be uploaded to appear on the screen.

The display is available in flush-mounted or wall-mounted versions, with only 19-mm wall outstanding. You have the choice from three standard frames: brushed stainless steel, white or black glass. There are two different display layouts which match the selected cover. The cleverly designed magnetic frame construction also allows steam bath builders to personalize the fitting with a material of the customer's liking.

External Touch Display

Optionally a remote touch display can be connected to the Omega Pro steam generator.



external display in three versions



Intuitive touch controller

Touch Screen Display:

The state-of-the-art user interface offers simple control of the steam unit and advanced diagnostic reporting.

NOTE: There is no integral steam bath control system.

Precise control

The electronic control system allows the steam output to be varied continuously between 0 and 100%. This results in a very accurate steam supply rate and precise humidity control.

Optimum process transparency

With the Condair touch controller, unit operation is intuitive and easy. Operating parameters can be viewed and adjusted using the mostly icon-based interface. Trouble-shooting suggestions help the user overcome common issues.

Historic performance is simple to access and can be viewed on the controller or analyzed online via an optional IoT (Internet of Things) connection.

Integrates seamlessly

Condair Omega Pro supports a variety of common building management system (BMS) network protocols. As standard, the Omega Pro can connect to Modbus RTU or Modbus TCP as well as BACnet IP or BACnet MS/TP. It incorporates BTL (BACnet Testing Laboratories) certified BACnet technology, considered a worldwide test standard in BACnet communication.

Standard model

- Patented scale management
- External scale collection tank
- Cold water pool
- Touch screen operation
- Multilingual, user-friendly menu
- Program, service and information level
- Precise control
- Real-time clock and timer programming
- Div. control signals (0-10 V and more)
- Stainless steel steam cylinder
- Drainage pump
- Modbus and BACnet-connectivity
- Terminals
- Installation material

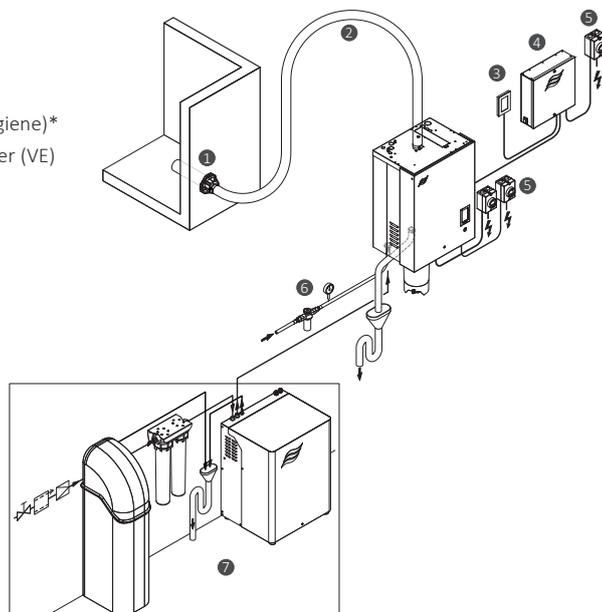
Accessories

- Steam nozzle [1]
- Steam distribution hose [2]
- External Spa Display [3]
- Spa Control Delta [4]

Options

- RFI Remote and failure indication relay
- Valve for automatically total drainage (Hygiene)*
- Without scale collection tank for RO water (VE)
- Condair online remote diagnostic
- Drainage water cooling/ Hygiene flush
- CVI integrated control voltage 230V
- TR Transformer 400V to 230V
- Overpressure security valve
- BMS interface LonWorks
- Insulation steam cylinder
- Mounting frame

- Power disconnecter [5]
- Filter valve [6]
- Clean water system Condair RO-A (Option) [7]



Technical data



| Condair RS | | 5 | 8 | 10 | 16 | 20 | 24 | 30 | 40 | 50 | 60 | 80 |
|-------------------|------|----------------------|------|------|-------------------|------|------|------|------|---------------------|-------|-------|
| Housing sizes | | Small | | | Medium | | | | | Large | | |
| Heating voltage | | Maximum steam output | | | | | | | | | | |
| 400V 3Ph 50-60Hz | kg/h | 5.0 | 8.0 | 10.0 | 16.0 | 20.0 | 24.0 | 30.0 | 40.0 | 50.0 | 59.6 | 80.0 |
| 230V 1Ph 50-60Hz | kg/h | 5.0 | 8.0 | 9.8 | - | - | - | - | - | - | - | - |
| Control voltage | | 230V 1Ph 50-60Hz | | | | | | | | | | |
| Dimensions WxHxD | mm | 453 x 987 x 370 | | | 563 x 1,097 x 406 | | | | | 1,033 x 1,097 x 406 | | |
| Operating weight | kg | 40.2 | 40.2 | 40.2 | 65.8 | 65.8 | 65.8 | 65.8 | 65.8 | 132.0 | 132.0 | 132.0 |
| Conformity | | CE, VDE, SVE | | | | | | | | | | |



| Condair RS | | 50 | 60 | 80 | 100 | 120 | 140 | 160 |
|------------------------------|------|----------------------|---------|---------|----------------------|---------|----------------------|---------|
| Housing sizes (Master-Slave) | | 2x Medium | | | 3x Medium | | 4x Medium | |
| Heating voltage | | Maximum steam output | | | | | | |
| 400V 3Ph 50-60Hz | kg/h | 20.0 + 30.0 | 2x 30.0 | 2x 40.0 | 2x 30.0 + 40.0 | 3x 40.0 | 2x 30.0 + 2x 40.0 | 4x 40.0 |
| 230V 1Ph 50-60Hz | kg/h | - | - | - | - | - | - | - |
| Control voltage | | 230V 1Ph 50-60Hz | | | | | | |
| Dimensions WxHxD | mm | 2x 563 x 1,097 x 406 | | | 3x 563 x 1,097 x 406 | | 4x 563 x 1,097 x 406 | |
| Operating weight | kg | 131.6 | 131.6 | 131.6 | 197.4 | 197.4 | 263.2 | 263.2 |
| Conformity | | CE, VDE, SVE | | | | | | |

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