

Humidity for a better life



CONDAIR RC

Resistive steam humidifier
Designed for hygienic humidification solutions



Humidification and Evaporative Cooling

 **condair**

High-capacity resistive steam humidifier

Compact and efficient performance

Economic, high capacity steam humidification

The Condair RC steam humidifiers are available as single units with different housing sizes, the output of a single unit is up to 70kg/hr, allowing continuous adjustment from 0 to 100%. It is the ideal solution for applications that need high capacity steam humidification with the efficient performance of resistive heater technology.

Easy to install and service

The Condair RC can provide steam humidification to a duct or air handling unit. It is compact in size and easy to install. It has a cleanable rather than replaceable boiling chamber, which is easy to service. The steam distribution pipe is constructed of high quality 304 stainless steel.

There is a wide variety of lengths ranging to suit any duct size and give the best possible steam dispersion. In the case of a short humidification distance, Condair can provide a 'OptiSorp' multiple steam distribution system, please contact your local Condair representative for further information.

Supply water requirements

The Condair RC can operate with mains water or reverse osmosis (RO) water. When operating on RO water, scale build-up is virtually eliminated, significantly reducing the unit's required maintenance.

Precise regulation of steam performance

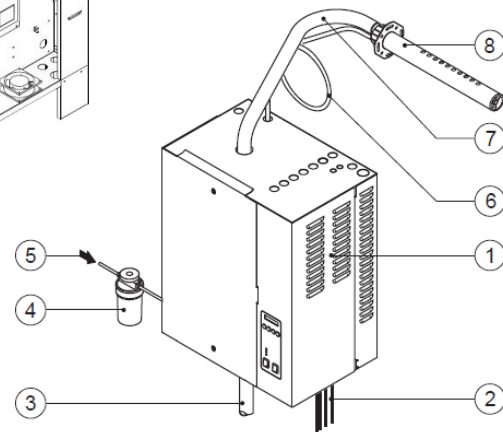
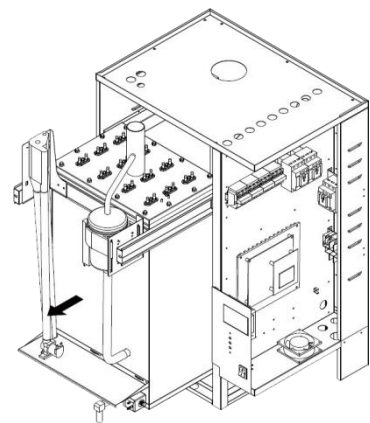
The steam output is directly controlled by the heat given from the heating elements. The Condair RC can provide $\pm 5\%$ RH humidity control with mains water and $\pm 2\%$ RH with RO water.

Water level regulation

The water level in the steam cylinder is monitored by an external electronic water level unit connected to it. The water level is continuously monitored with the level unit.

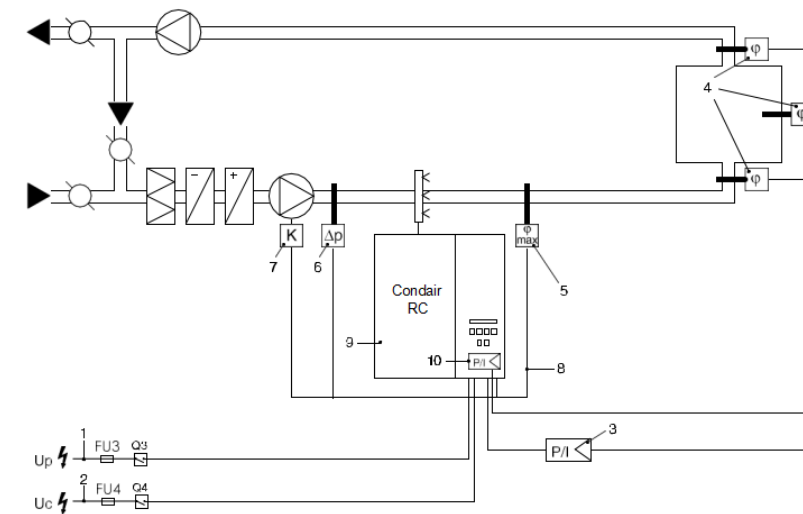
Intelligent design for quick maintenance

- 1、 The steam tank can be pulled out along the guide rail
- 2、 Scale collector plate can be removed, emptied of scale and reattached
- 3、 Operating information can be seen on a LCD screen



System overview

- 1、 Condair RC Steam Humidifier
- 2、 Power In
- 3、 Drain
- 4、 5 micron filter ("Z261") (Optional)
- 5、 water In
- 6、 Condensate line ("KS10")
- 7、 Steam hose("DS80")
- 8、 Steam distribution pipes (DV81)



Humidity control system

- 1、 heating power supply U_p
- 2、 control power supply U_c
- 3、 external continuous controller
- 4、 humidity sensor (Supply air/room/return air)
- 5、 safety humidistat
- 6、 airflow monitor
- 7、 ventilation interlock
- 8、 External safety control circuit
- 9、 humidifier
- 10、 Internal continuous controller

Technical data Condair RC

Power supply	Heating voltage 380V/3~ /50 Hz, Control voltage 220V/1~ /50 Hz				
Model reference	RC 5	RC 10	RC 20	RC 30	RC 40
Max. Steam capacity [kg/h]	5	10	20	30	40
Operating weight empty	35 kg	35 kg	37kg	40 kg	42 kg
Operating weight filled	63 kg	63 kg	65kg	79 kg	81 kg
Dimensions [WxDxH]	470x410x820			570x410x820	
Steam outlet connection	Ø45 mm				
Protection class	IP21				
Control signals	0...10VDC, 0..20mA DC, 4..20mA DC, on/off				
Admissible duct pressure	Max. duct pressure 1500Pa, max. vacuum 1000Pa				
Admissible ambient temperature	1...40°C				
Admissible ambient humidity	Max. 75%RH				
Water supply	water supply connection	G3/4"			
	Admissible water supply pressure	0.1- 0.5MPa			
	Admissible water temperature	1- 40°C			
Water drain	water quality	Untreated drinking water, RO water			
	water drain connection	Open funnel with trap, internal diameter Ø40 mm			
	Drain temperature	>90°C			

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