



Diphusair Resistance

Resistive steam humidifier



Small - compact - economic



- Compact and space-saving
- Hygienic and safe
- Extremely easy to maintain
- Reusable cylinder
- Flexible use with different water qualities
- Energy efficient
- Attractive price-performance ratio

The Diphusair Resistance offers compact unit measurements together with optimum component accessibility - saving space and time during installation and service. With a corrosion-resistant stainless-steel housing the Diphusair Resistance can be operated with completely deionised water, softened water or tap water.

This permits flexible planning and installation - at a particularly attractive price-performance ratio.

Reusable plastic cylinder

- Easy to maintain thanks to simple cylinder clips and low weight
- Energy-efficient thanks to low heat radiation



Mineral-free steam - permanent and safe

The Diphusair Resistance heats the water in the energy-efficient plastic cylinder based on an immersion heater principle. Hence with fully deionised water steam production is continuous without any blowdown. Safety plus: all heater units are equipped with mechanical overheat protection on the heater and a float switch with level control - thus guaranteeing process safety.



- Immersion heater based heating principle
- Safe due to overheat protection at the heater with drying out protection
- Practically maintenance-free when operated with fully deionised water plus continuous steam production for high control accuracy

With innovative SuperFlush cylinder rinse system

clear increase in cylinder service cycle.





Precise control

Thanks to its highly developed microprocessor controls, the Fisair Diphusair Resistance offers quick control responses and high control accuracy up to +/- 1%.

The intelligent controller self adjusts to match the particular application and water quality. The Diphusair Resistance can be controlled proportionally in the range 5 - 100% of the respective nominal power, which makes it particularly efficient even at very low power requirements.

The controllers process all established control signals. Master-slave operation and remote control options are available.

Diphusair Resistance **Basic**:

- Proportional or one-step control
- Automatic system test
- 5 LEDs for indicating operating states
- 2 potential free signals
- Standby heating for quick steam production
- RS485 serial interface

Diphusair Resistance **Comfort** units offer in addition:

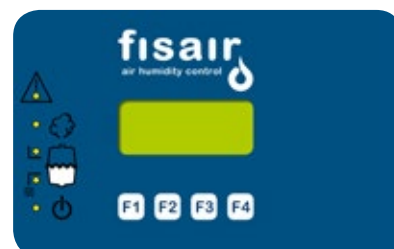
- Integrated PI control
- Comprehensive parameter settings for optimum operation
- 4 line illuminated display
- 4 function keys for easy operation and programming

Diphusair Resistance **Comfort Plus** also includes:

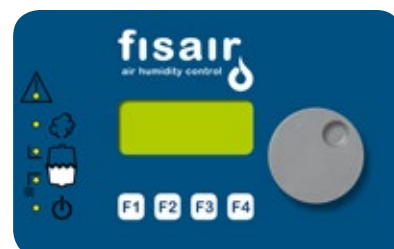
- Rotary pushbutton encoder for particularly simple operation and programming
- Timer function



Basic



Comfort



Comfort Plus



Diphusair Resistance technical data										
Model		HC03	HC06	HC06	HC09	HC06P	HC09P	HC12	HC18	HC27
Steam output	[kg/h]	3	6	6	9	6	9	12	18	27
Electrical connection**		230V/1/N			400V/3/N 50-60Hz					
Electrical power	[kW]	2,25	4,5	4,5	6,8	4,5	6,8	9,0	13,5	20,3
Current consumption	[A]	9,8	19,6	11,3	16,9	11,3	16,9	19,5	29,3	29,3
Fuse	[A]	1x10	1x20	3x16	3x20	3x16	3x20	3x25	3x35	3x35
Controller		Basic, Comfort and Comfort Plus								
Number of steam cylinders		1								
Number of heaters		1	1	1	1	1	1	2	2	3
Steam hose connection		1x25 mm**						1x40 mm		
Cond. hose connection		1x12 mm								
Empty weight	[kg]	16	16	16	16	22	22	23	23	24
Operating weight	[kg]	20	20	20	20	36	36	37	37	38
Height	[mm]	562				704				
Width	[mm]	427				490				
Depth	[mm]	260				309				
Water supply		Fully demineralised water / cleaned condensate: 1–10 bar, 13mm hose partially softened water / tap water of varying qualities 1–10 bar, for 3/4" outer thread								

* Other voltages upon request.

** Non-uniform phase loading.

*** Incl. reducing piece.

We reserve the right to make technical changes.