humiSteam

The rational choice

humiSteam, the immersed electrode humidifier, is the culmination of CAREL's thirty-year experience in the field of steam humidification.
Its reliability and flexibility, together with the completeness of the range and the excellent technical specifications, make ***humiSteam*** the logical choice for a vast series of applications: civil environments, offices, hospitals, industrial facilities, and steam baths.
humiSteam is suitable for both installation in the room, using the steam blower, and for installation in the air duct, using the new range of linear steam distributors.
humiSteam draws many advantages from the vast know-how of CAREL in the field of electronic controllers: precise control, reliable electronics, sophisticated and complete control software.

Advantages:

- patented AFS antifoam system, prevents the risk of droplets being delivered together with the steam;
- large cylinders, with galvanised electrodes and lime scale filter on the bottom, for long maintenance-free life. Openable cylinders and cylinders for water with low conductivity are also available;
- steam production with continuous modulation from 20% to the maximum flow-rate;
- built-in conductivity sensor and control software to optimise energy efficiency and operating life, with constant performance throughout the life of the cylinder;
- choice between two controllers: "P" (proportional or ON/OFF by external controller) and "H" (with built-in control by external humidity probe);
- model "H" manages a second "limit" probe to avoid condensation in the air duct.

humidification for life

humiSteam

Technical caracteristics

Models		UE001	UE003	UE005	UE008	UE009	UE010	UE015	UE025	UE035	UE045	UE065	UE090	UE130
Max. steam production	kg/h	1.5	3	5	8	9	10	15	25	35	45	65	90	130
Modulation field		20% to 100%	20% to 100%	20% to 100%	20% to 100%	20% to 100%	20% to 100%	20% to 100%	20% to 100%	20% to 100%	20% to 100%	20% to 100%	10% to 100%	10% to 100%
Power input	kW	1.12	2.25	3.75	6.0	6.75	7.50	11.25	18.75	26.25	33.75	48.75	67.5	97.5
Power supply		230 V/1	230 V/1	230 V/1		230 V/1								
(other voltages on demand)			400 V/3	400 V/3	400 V/3		400 V/3	400 V/3 (*);	400 V/3	400 V/3	400 V/3	400 V/3	400 V/3	400 V/3
Steam pressure	Pa	0 to 2000	0 to 2000	0 to 1600	0 to 1600	0 to 1700	0 to 1700	0 to 1700	0 to 2300	0 to 2300	0 to 2300	0 to 2300	0 to 2300	0 to 2300
Steam fitting	mm	Ø 22	Ø 22	Ø 30	Ø 30	Ø 30	Ø 30	Ø 30	Ø 40	Ø 40	Ø 40	Ø 2x40	Ø 2x40	Ø 4x40
Steam supply water		3/4" G male	3/4" G male	3/4" G male	3/4" G male	3/4" G male	3/4" G male	3/4" G male	3/4" G male	3/4" G male	3/4" G male	3/4" G male	2x3/4" G male	2x3/4" G male
Water instant flow-rate	l/min	0.6	0.6	0.6	0.6	1.2	1.2	1.2	4	4	4	7	2x7	2x7
Total hardness limits	°fH	15 to 40	15 to 40	15 to 40	15 to 40	15 to 40	15 to 40	15 to 40	15 to 40	15 to 40	15 to 40	15 to 40	15 to 40	15 to 40
Conductivity limits	µS/cm	125 to 1250	125 to 1250	125 to 1250	125 to 1250	125 to 1250	125 to 1250	125 to 1250	125 to 1250	125 to 1250	125 to 1250	125 to 1250	125 to 1250	125 to 1250
Drain water	mm	Ø 40	Ø 40	Ø 40	Ø 40	Ø 40	Ø 40	Ø 40	Ø 40	Ø 40	Ø 40	Ø 40	Ø 40	Ø 40
Drain instant flow-rate	l/min	5	5	5	5	5	5	5	22,5	22,5	22,5	22,5	45	45
Dimensions (LxWxH)	mm	365x275x620	365x275x620	365x275x620	365x275x710	365x275x710	365x275x710	365x275x710	555x360x890	555x360x890	555x360x890	650x455x495	1150x465x890	1150x465x890
Weight (empty)	kg	16	16	16	16	20	20	20	39	39	39	51	81	81

Controls	P	H	pHC (only models 90 and 130)
ON/OFF demand (e.g., humidistat)	•	•	•
Proportional demand	• (only 0 to 10 Vdc)	•	•
Built-in regulator (requirers external probe, not included)	–	•	•
Alphanumeric display	–	•	–
Alphanumeric and graphic display, selectionable language	–	–	•
Supports limit probe	–	•	•
Dehumidifier piloting	–	•	•
Remote ON/OFF	•	•	•
Alarm relay	•	•	•
Signal type (from probe or external controller)	0 to 10 V; 0 to 1 V; 2 to 10 V; 0 to 20 mA; 4 to 20 mA		0 to 10 V; 0 to 1 V; 2 to 10 V; 0 to 20 mA; 4 to 20 mA
RS485 interface	–	•	•

rated instant steam production:

001= 1.5 kg/h
003= 3 kg/h
005= 5 kg/h
008= 8 kg/h
009= 9 kg/h
010= 10 kg/h
015= 15 kg/h
025= 25 kg/h
035= 35 kg/h
045= 45 kg/h
065= 65 kg/h
090= 90 kg/h
130= 130 kg/h

Code example:

UE015HL000

humiSteam 15 kg/h, 400 V/3, type H control

U	E	_	_	_	_	_	0	0	0

different only for customised products

type of control: P= proport. - ON/OFF; H= modulating with control by probe (*)

power supply:
D= 230 Vac 1~
U= 208 Vac 1~
L= 400 Vac 3~
W= 208 Vac 3~
K= 230 Vac 3~
M= 460 Vac 3~
N= 575 Vac 3~

(*) for the models 90 and 130 kg/h only H option is available (pHC control)

CAREL reserves the right to modify or change its products without prior notice

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