

CAREL



heaterSteam

The avant-garde solution

The sophisticated range of **heaterSteam** immersed heater humidifiers, which can operate on drinkable demineralised or mains water, is the ideal solution when:

- the level of humidity needs to be controlled with considerable precision (high-tech systems, clean rooms);
- periodical maintenance needs to be reduced to the minimum (using demineralised water);
- the quality of the water is problematical or not constant (for example, aboard ships).

Advantages:

- Models for steam production from 2 to 60 kg/h, all very compact;
- built-in controller (with optional active probe), or alternatively ON/OFF control;
- electric heaters embedded in corrosion-proof alloy casting with a large surface area, featuring integrated temperature sensors to prevent overheating;
- heaters have a non-stick lining that prevents the adhesion of lime scale (optional);
- patented "Anti Foaming System";
- water preheating system (modulating version);
- possibility to connect a second limit probe and a dehumidification device;
- electrical load always balanced on the 3 phases;
- thermally insulated for energy savings, and descaler bag (optional);
- RS485 serial output;
- optional infrared remote control.

humidification for life



Technical characteristics

Model		UR002*	UR004*	UR006*	UR010*	UR020*	UR027*	UR040*	UR060*
Steam production	kg/h	2	4	6	10	20	27	40	60
Power input	kW	1.5	3	4.5	7.5	15	22.5	30	45
Power supply (other voltage on demand)		230 V/1	230 V/1	230 V/1 400 V/3	400 V/3	400 V/3	400 V/3	400 V/3	400 V/3
Steam production	Pa	0 to 1500	0 to 1500	0 to 1500	0 to 1500	0 to 3600	0 to 3600	0 to 2350	0 to 2350
Steam fitting	mm	Ø 30	Ø 30	Ø 30	Ø 30	Ø 40	Ø 40	Ø 40	Ø 2x40
Supply water fitting		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
Water instant flow-rate	l/min	0.6	0.6	1.2	1.2	4	4	4	10
Total hardness (*)	°fH	5 to 40	5 to 40	5 to 40	5 to 40	5 to 40	5 to 40	5 to 40	5 to 40
Conductivity limits (*)	µS/cm	0 to 1500	0 to 1500	0 to 1500	0 to 1500	0 to 1500	0 to 1500	0 to 1500	0 to 1500
Drain water fitting	mm	Ø 40	Ø 40	Ø 40	Ø 40	Ø 40	Ø 40	Ø 40	Ø 40
Instant flow-rate	l/min	5	5	5	5	22.5	22.5	22.5	22.5
Dimensions (LxWxH)	mm	365x275x620	365x275x620	365x275x710	365x275x710	690x438x887	690x438x887	690x438x887	876x438x887
Weight (empty)	kg	21	21	26	26	63	63	67	87

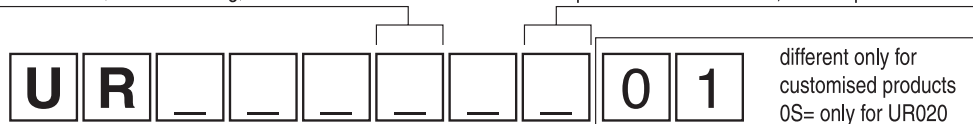
Controls	C	H	T
Continuous modulation (with Solid State Relay)	-	10 to 100%	10 to 100%
Integrated regulation (probe excluded)	-	• (rH)	• (temp)
External ON/OFF signal	•	•	•
External proportional signal	-	•	•
Supports limit probe	-	•	•
Dehumidifier piloting	-	•	•
Remote ON/OFF	•	•	•
Alarm relay	•	•	•
Signal type (probe or external controller)	-	0 to 10 V; 0 to 1 V; 2 to 10 V	0 to 20 mA; 4 to 20 mA
Alphanumeric display	-	•	•
RS485 interface	-	•	•

Versions	basic	full option
Electric heaters embedded in aluminium alloy	•	•
Heaters with non-stick lining	-	•
Heat insulation	-	•
Pre-heating function	•	•
Lime scale collection bag	-	up to 10 kg/h

(*) **heaterSteam** can be supplied with completely demineralised water (0 °fH). Instead, in case it is supplied with softened water, CAREL recommend to respect the total hardness minimum value specified in the table above and the instructions given in the manual.

type of control: C= ON/OFF; H= modulating; T= for steam baths

options: 0= basic version; 1= full optional version



rated instant steam production:

002= 2 kg/h 010= 10 kg/h 040= 40 kg/h
 004= 4 kg/h 020= 20 kg/h 060= 60 kg/h
 006= 6 kg/h 027= 27 kg/h

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

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

Code +302238571 - rel. 1.2 - 01.10.05

© CAREL S.p.A. 2005 all rights reserved