



air humidification system
isothermal humidification



compactSteam XL
light commercial
electrode humidifier

The ELEGANT companion

Discreet design ideal for any environment

With a capacity of 20 lbs/hr, the compactSteam XL is the new CAREL solution specifically designed for the humidification of professional offices and small commercial applications.



In the rooms where we live and work, ensuring correct humidity is not a luxury rather than a factor of well-being, health and productivity.

The compactSteam XL contains all the best the CAREL experience has to offer in compact dimensions.

Considerable care has been paid in designing the compactSteam XL for easy installations not in utilities rooms but in everyday "non-service" environments.

Elegant and discreet design: the electrical and water connections can be completely hidden from view.

Safe: Drain water temperature never exceeds 140 °F.

Ease of operation: If no humidification is required for more than 3 consecutive days, the water is automatically drained for maximum hygiene.



If the humidifier is on standby and does not produce steam for more than 72 hours, the water in the cylinder is automatically emptied.



Elegant and discrete design

Aesthetically designed to create the ideal choice for installation in any environment.



Large graphic LCD

Provides straightforward understanding and easy navigation.



Functionality

Automatic draining while on standby for a hygienically safe environment and peace of mind.

The PERFECT companion

The “all in one” thermostat-humidistat



The new elegant and versatile clima thermostat-humidistat is the perfect companion with the compactSteamXL. The Clima's 0 to 10 V output can be connected for the modulating control of the CAREL compactSteam XL humidifier light commercial applications.

When designing this controller, special attention was focused on the appearance and simplicity of use, adopting a large icon-base display that allows the user to navigate the system parameters with ease.

Clima comes with an built in temperature or temperature/humidity sensor, multifunction digital input, up to two relays plus one 0 to 10 V proportional output for the 11 different control modes, including zone control for radiant underfloor installations. In addition, an outside temperature sensor can be connected for automatic compensation of the temperature and humidity set points. The Real Time clock manages a daily time band, and the optional RS485 serial interface completes the products, making it a technologically advanced solution.

The new clima, when used with the compactSteam XL

- controls the humidity with 0 to 10V proportional control: the maximum in comfort;
- can automatically compensate the humidity set point: no more fogged up windows;
- signals the alarms on the humidifier if the humidifier is installed in a service compartment;
- is fitted with a timer and powered directly by compactSteam: easy to install and no batteries required.

Clima technical specifications

power supply	24 Vac/dc, -15 to +10%, 50/60 Hz or directly from compactSteam
power input	3 W
digital inputs	1 multifunction: alarm from compactSteam, remote ON/OFF, cooling/heating selection, alternative set point (sleep)
analog inputs	1 x built in temperature or temperature/humidity; 1x remote NTC
analog outputs	1 x 0 to 10 VDC
digital outputs	1 x 230 V, 5 A relays
operating range	50 to 140 F
temperature and humidity set point	59 to 86 F, 30 to 70% r.H.
operating conditions	32 to 140 F, 10 to 90% r.H. non-condensing
storage conditions	-13 to 158, 10 to 90% r.H. non-condensing
index of protection	IP20

In addition, clima can also control heating, air-conditioning and dehumidification functions: up to 11 different operating modes, for all control requirements.

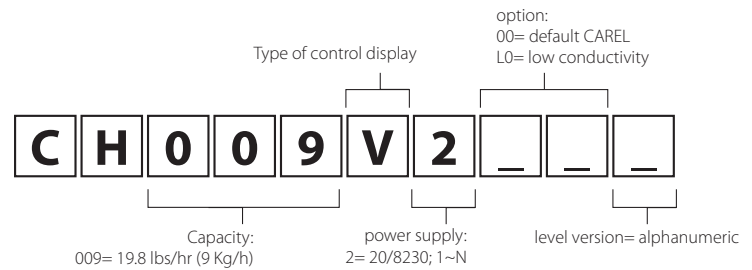


Model list

CH009V2000 Duct steam injections 58 gallons per day (20 lbs per hour) 220-240V Humidifier for standard conductivity water

CH009V2L00 Duct steam injections 58 gallons per day (20 lbs per hour) 220-240V Humidifier for low conductivity water

Unit code



compactSteamXL technical specifications

		notes
General Ratings		
instant steam production lb/h (kg/h)	20 lbs/hr (9 kg/h)	
power input at rated voltage (kW)	6.9 kW	
voltage, phase, frequency	230 VAC 1PH, 50-60 Hz	
steam connection Ø in (mm)	1.2 (30)	
outlet pressure limits (Pa,mmWC/PSI/inWC)	1350 Pa/137.7 mm WC/0.195 PSI/5.4 in WC	For duct only
dimensions in (mm)	31" x 18.5" x 11.4" (790x460x290 mm)	
Supply water		
connection	3/4" G	
water temp. °F (°C)	33.8 - 104 (1-40)	
pressure limits psi (bar)	14-116 psi (1-8 bar)	
instant flow-rate (l/min)	0.825 - 1.1 l/min(0.22-0.3 gpm)	
conductivity range	100-1250 µS/cm	Special cylinders for cond. <350 µS/cm
Drain water		
connection Ø in (mm)	1.25" O.D. (32 mm)	Adjustable from horizontal to vertical. May be from back or bottom of unit.
drain water temperature °F (°C)	<140 (<60)	
instant flow rate (l/min)	7 gpm (26.2 l/m)	drain tempering device
Environmental conditions		
ambient operating temp. °F (°C)	33.8 to 104 (1 to 40)	
ambient operating humidity (%rH)	10 to 60	
storage temperature °F (°C)	14 to 158 (-10 to 20)	
storage humidity (%rH)	5 to 95	
index of protection	IP20	
Electronic controller		
controller	CHM09DV200	
probe inputs (general features)	can be selected for the following signals: 0 to 10 Vdc input impedance: 10 k Ω ON/OFF (default): Vmax= 33 Vdc, Imax= 5mA, Rmax= 300 Ohm	
alarm relay outputs (general features)	250 V 8A (4 A max with inductive load)	
remote enable input (general features)	voltage-free contact; max. resistance 300 Ω; Vmax= 33 Vdc; Imax= 6 mA	
serial communication	RS485	

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