

**C-Series**

The C-Series climate controller is a compact and fully automatic unit to control the **humidity** level in a display case.

The unit can be placed close to the display case or distant to the case and connected by tubes. Setpoint humidity is set on the front panel and the actual humidity is displayed.

Optionally the unit can also be configured to maintain an **oxygen free atmosphere**.



**Advantages**

- Fully automatic
- Maintenance free
- Reliable and safe
- Compact and silent
- High capacity

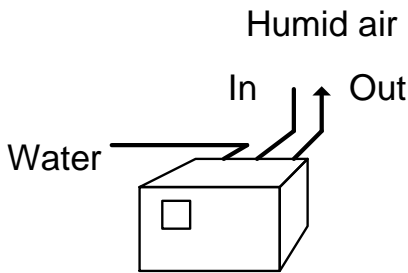
**Humidity control**

- Museums
- Climate chambers
- Environmental simulation

**Technology**

- Precise micro steam injection.
- Microprocessor controller, digital display.
- CE-compliance

**Principle**



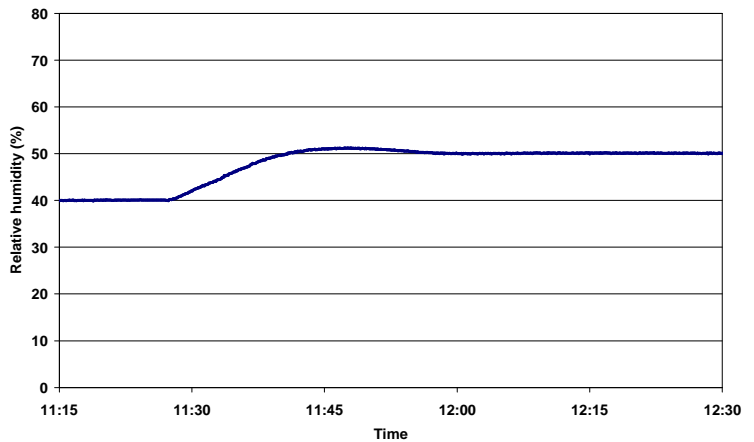
**Capacity**

Model	C-50
Capacity (volume of case)	50 m <sup>3</sup>
Humidity	10...75 % RH
Temperature	ambient
Pressure	ambient

**Interface**

The rear panel includes fittings for inlet/outlet air to be connected to the display case. The rear panel further includes fittings for water.

**Accurate control and stable humidity**



Graph: C-2 unit connected to 0,5 m<sup>3</sup> display case. Setpoint changed from 40 to 50 % RH.

Technical data

	C-50
<b>Flow</b>	
Capacity	50 m <sup>3</sup> volume of display case
<b>Humidity</b>	
Capacity <sup>1</sup>	10...75 % RH
Accuracy	±1.7 % RH
Factory calibration uncertainty (+20 °C)	±1.5 % RH
<b>Pressure</b>	
Pressure range	ambient
<b>Liquid supply</b>	
Water quality	Distilled water
Suction capacity of inlet water	1 m
Max pressure of inlet water	ambient
<b>Nitrogen supply</b>	Only for option: Oxygen concentration control
<b>General</b>	
Power	1000 W
Ambient temperature in use	+5... +35 °C
Ambient temperature storage	-40... +60 °C
Certification	CE certified
<b>Mechanical</b>	
Standard bench top enclosure (WxHxD)	364x191,6x331mm
Weight	9 kg
<b>Interface</b>	
Voltage	230 V / 50-60 Hz AC
Remote control digital (optional)	RS 485
Remote control analogue (optional)	0...10 V, 0...5 V, 0...20 mA or 4...20 mA
Liquid inlet	6 mm Swagelok compression fittings
Dry gas inlet (optional)	6 mm Swagelok compression fittings, 2-5 bar(g)
Circulation gas inlet/outlet	40 mm OD fittings

<sup>1</sup>Min level of humidity=Inlet gas humidity

Product configuration code

C - 50 - I II III - v5

I Function

0 = Basic (Humidification)
1 = Drying
2 = Humidification and drying.

II Oxygen control

0 = No
1 = Oxygen level control

III Remote communication

0 = no
1 = analog output
2 = analog in/output
3 = RS-485

Contact

Anders Ocklind  
+46 8 673 19 14  
anders.ocklind@cellkraft.se

Joakim Nordlund  
+46 8 673 19 15  
joakim.nordlund@cellkraft.se

Cellkraft AB  
Björnnäsv. 21  
SE-114 19 Stockholm  
Sweden

www.cellkraft.se

Distributor museal applications:



Milox AB  
Carl Westmans väg 17  
133 35 Saltsjöbaden  
www.milox.se  
Phone: + 46 8 747 84 15