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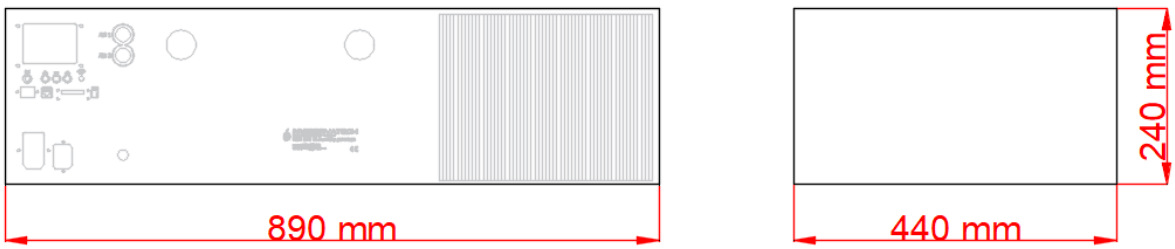
Preservatech Europe sp z o.o.
85-846 Bydgoszcz, Rowna 1, Poland
info@preservatech.eu tel:+48 52 522 5556

www.preservatech.com

MAXI ONE S

The Maxi One S constant volume humidity generator is an automatic, positive pressure humidity control device for museum displays. The Maxi One S offers a unique scalable output: a single unit in remote location can reliably maintain stable humidity levels in multiple small, or one or more very large showcases, up to 80 meters distant. The Maxi One S can provide up to 400 cubic meters of pollution free, clean, humidity-controlled air per day.

ACTUAL UNIT MAY DIFFER IN APPERANCE THEN IN THE PHOTO.



Keepsafe Systems Ltd
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Russia

Long Life for Art
www.llfa.de
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CEAM Group srl
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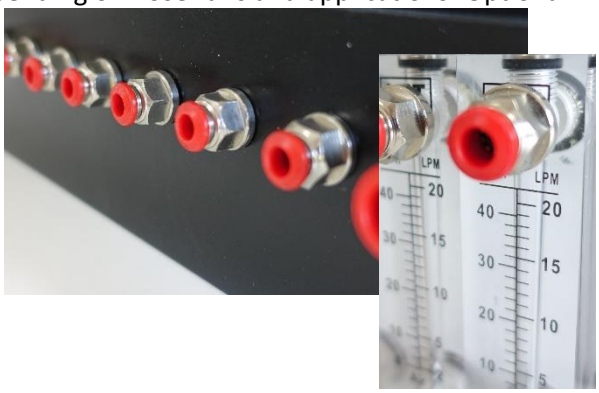
Operating principles

One or more air pumps are used to provide filtered air at the delivery pressure and flow required for the application. In the Maxi One S the air is passed through a cooled water bath to control humidity levels and distributed to the enclosures via flexible tubing.
The Maxi S uses small diameter hose to distribute conditioned air to showcases up to 80 meters away, allowing great freedom for new architectural design and easy retrofitting when renovating. Air is supplied as a positive pressure feed only, there is no return flow.
Displaced air from the case is exhausted through naturally occurring leakage, preventing ingress of dust or pollutants.

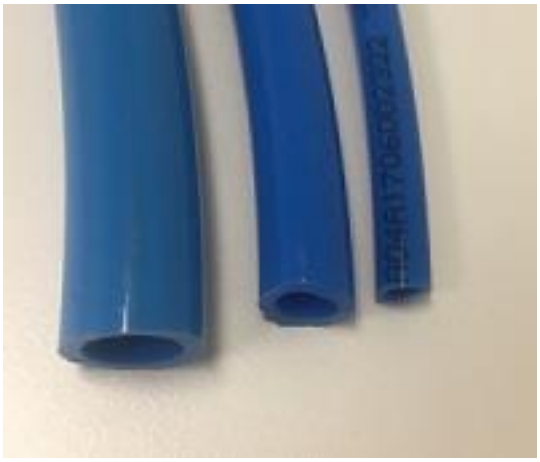
Various diameters of delivery hose can be used, depending on hose runs and applications. Optional rotameters provide exact control for each air output.



The system consists 3 modules: main module, water container and air pump(s). If system is connected to domestic water source it will function fully automatically, needing minimal maintenance.

Installation

The Maxi One S units can be located up to 80 meters from the enclosures, in a machine room, janitorial closet, or any space with adequate ventilation, water supply (optional), drain (optional), and domestic power connections. The unit may be floor mounted or located on the shelf. (Note: The unit will operate in an environmental range of 15 to
30 degrees centigrade and at higher humidity's, but optimum performance will be found at lower ambient temperatures.)



The unit comes complete with a high-quality temperature and humidity sensor which must be located in the gallery. Sensors may be wall mounted, or optionally placed in a "representative" showcase. Environmental data is returned to the control panel on the unit by cable.

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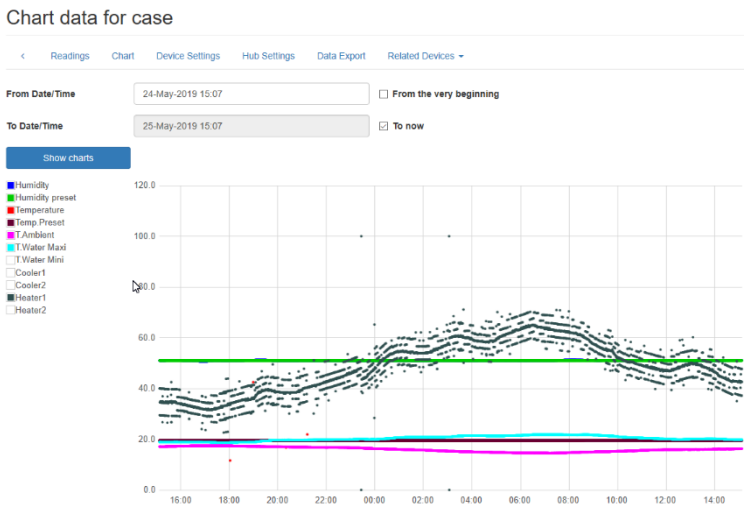
Remote Monitoring

Existing museum Wi-Fi networks may be used to connect the units to the internet, and rhmonitoring.com is accessible through any web connectable device. Monitoring can be done from any location. rhmonitoring.com can be used to report on current relative humidity and temperature conditions and historical data, as well as changing some operating parameters. Sensor history graphs may be generated, and notifications and alarms can be automatically sent by email as required.



Technical specification

Unit Size:

Main Unit: 890 mm x 440 mm x 240 mm(H)
Water reservoir: 400 mm x 500 mm x 240 mm (H)
Air pump: 280 mm x 220 mm x 220 mm (H)

Weight:

Main unit: 60 kg
Water reservoir: 10 kg (empty), 65 kg (full – with 30 litres of water)
Air Pump (single): 9 kg

Power supply: 110-230 VAC. Typical 15A fused receptacle.
Water supply: optional, ¼" hose connection for domestic line.
Drainage: Floor drain or containment tray.
Output: Multiple outputs with total air output 7-13 m3 / hour
Sensor: digital RH and T sensor +- 1.5%
Optional accessories:

Air distribution attachment with multiple outputs
Air distribution attachment with multiple outputs and rotameter for each output.
Reverse osmosis system (if connected to the water source)
Air filters