

MAXI ONE

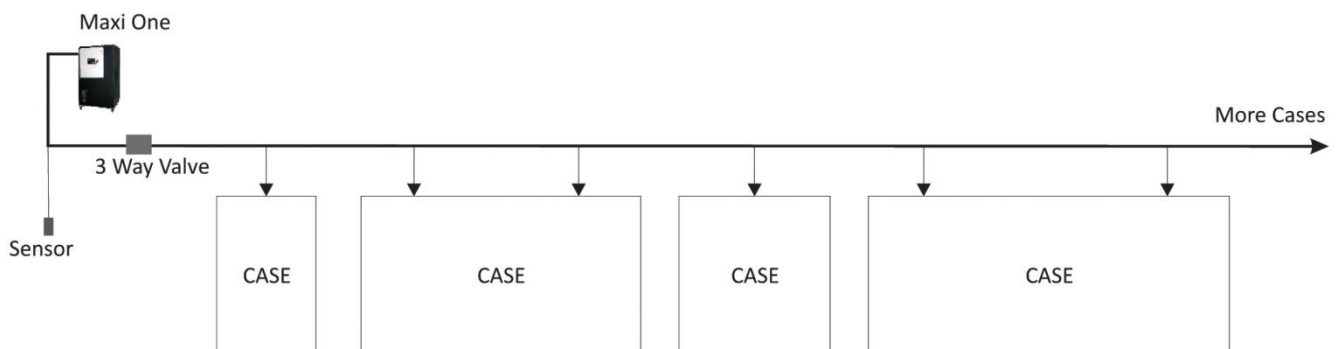


Maxi One constant volume humidity generator is a fully automatic positive pressure air supply device, designed to provide conservation-quality humidity control for museum displays or storage enclosures.

A single unit in a remote location (such as a machine room) can reliably maintain an extremely stable humidity and pollution abatement for an entire gallery of showcases.

These units can be used to supply air to multiple display cases, very large volume showcases, multiple storage enclosures or small archive rooms where:

- Energy cost savings of up to 50% are to be realized.
- Accurate humidity control in new or renovated galleries may be expensive or impractical.
- Existing air conditioning systems or building envelopes cannot maintain adequate humidity control.
- Existing display cases with moderate to high leakage rates must be used, or cost savings must be found on new display or storage cases.
- Pollutants or dust from internal or external sources must be purged from cases.



These units provide a continuous low-pressure flow of filtered air to display or storage cases, gently displacing case air and pollutants. 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.

Typically, a single unit can supply a constant flow output air at an RH level from below 35% to above 60% at ambient temperatures of 70 degrees F / 21 degrees C. Lower ambient temperatures will allow the unit to maintain lower delivery RH levels Output variation

at constant temperature is typically less than +/- 1%. Depending on unit and application, outputs can be from less than 15 to over 30 cfm / 500 to 1000 lpm, with a maximum treatment capacity of from 5,000 to 14,000 cubic feet / 150 to 500

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The MAXI ONE unit can be located up to 400 feet / 150 meters from the gallery. The unit may be placed in a machine room, janitorial closet, or any space with adequate room for the unit, ventilation, water supply, floor drain, and power connections.

The foot print of the unit is 3 ft wide X 2 feet deep (90 cm X 60 cm), and space should be allowed to access the unit for control and maintenance. Unit should be floor mounted, and comes on casters for easy movement.

The unit comes complete with a high quality temperature and humidity sensor. One sensor for each MAXI ONE unit must be located in the gallery. Sensors may be wall mounted, or placed in a “representative” showcase. Microclimate data is returned to the control panel on the unit by cable or wireless system.

Technical Specifications:

- **Unit Size:** 36" wide x 24" deep x <50" height (including 4" diameter swivel casters)
- **Nominal Weight:** <300 lb (reservoir empty), <500 lb (reservoir full)
- **Power Supply:** 110V/220V/1/60, 3 wires plus ground, 30 Amp
- **Nominal Power Consumption:** 12 Amps @ 220V when generating 50% RH @ 21C
- **Maximum Operating Amperage:** 23 Amps @ 220V/1/60
- **Operating Temperatures** 10 – 30 degrees C; Gallery temperatures have no effect on unit mechanical operation, but will affect achievable humidity levels
- **Filter Media: Optional Intake filter:** Combination of (Carbon / PP / Fine Particulate filters); Exit filter: HEPA grade, or As Requested
- **Water Supply:** 1/4" hose connection for domestic line, or optional reservoir
- **Drainage:** Floor drain in vicinity of unit, or optional containment tray
- **Output:** The MAXI ONE may be optimized to provide a constant flow of RH tempered air at tolerances as low as +/-2% within an operating range of 15 to 30 degrees centigrade at a flow of up to 60 SCFM / 2000 lpm and pressures of 3 to six inches wc at the output pipe. This air flow may be adequate to supply up to 7000 cubic feet / 200 cubic meters of display cases at four air changes per day. Ultimate device capacity will depend on the combined leakage of cases, layout of supply runs, and desired performance parameters.
- **Standard Accessories Included:** Off-site alarm connections; gallery mounted sensor box; electro mechanical dump valve; operating manual and trouble-shooting guide