



PRESERVATECH

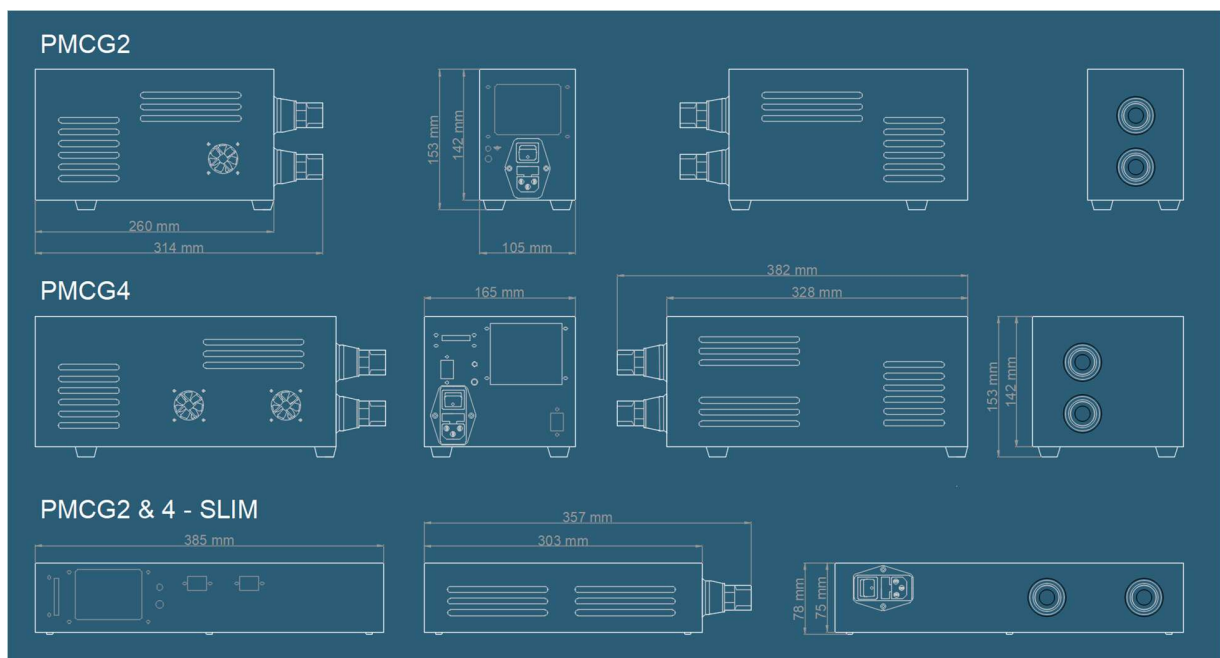
PRESERVE YOUR PRICELESS TREASURES

PMCG – humidity generator for museum display cases.



PMCG

The PMCG humidity generator is an innovative solution for precise humidity control in museum-quality display cases. Using advanced solid-state technology, PMCG units stand apart from conventional systems by eliminating the need for filling or emptying water reservoirs.



Once configured, the system maintains stable humidity levels within the display case over extended periods, without the need for condensate removal, water level monitoring, refilling, or other routine maintenance. This maintenance-free design provides a reliable, long-term humidity control solution tailored to the demanding preservation requirements of museum environments.



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PMCG units are available in two operating modes—DD (dehumidification only) and DH (combined dehumidification and humidification)—and in three sizes (see above). This flexibility allows users to tailor the PMCG system to specific display case requirements, providing a customized solution for both dehumidification and precise humidity control.

When installed in a well-sealed display case, the PMCG 2 is suitable for volumes of up to **2 m³** in DD mode and **1 m³** in DH mode. For larger cases, the PMCG 4 supports volumes of up to **4 m³** in DD mode and **2 m³** in DH mode, provided the case is properly sealed.

PMCG units perform most effectively as dehumidifiers. In DD mode, both PMCG 2 and PMCG 4 can maintain relative humidity levels within the range of **20–25%**, and in smaller cases, even well below **20%**, ensuring optimal conditions for sensitive collections.

MASTER/ SLAVE CONFIGURATION

For large or less tightly sealed display cases, multiple PMCG units can be linked in a master/slave configuration. The master unit connects to the remote monitoring system as standard, while up to five slave units can be added to increase capacity and maintain the required humidity conditions.

DATA LOGGING AND REMOTE MONITORING

Each unit features an onboard data logger utilizing a microSD card and can connect to the internet via existing museum Wi-Fi networks, enabling secure access to **rhmonitoring.com** from any web-enabled device. This allows monitoring to be performed remotely from any location.

Through **rhmonitoring.com**, operators can view real-time relative humidity and temperature readings, review historical data, analyze trend graphs, and adjust selected system parameters. Email notifications and alarms—such as “Out of Range” alerts—can be configured as required.

In addition, the unit is equipped with a Modbus interface, allowing seamless integration with Building Management Systems (BMS).



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Power Supply (PMCG2/4)	110-230 VAC, 50-60 Hz, 2.5A/4.5A	
Power Consumption	50/95W (if full power in use)	
Achievable RH level	25 (or less)-85% - depends on model*	
Permissible Ambient Conditions for Operation DD	<95% RH	
Permissible Ambient Conditions for Operation DH	25 – 95% RH	
Sensor Accuracy	±2%	
Noise Emission	20-30 dB - depends on blower used**	
Volume of Controlled Enclosure (2 4)	Up to 2m ³ (DD) 1m ³ (DH)	Up to 4m ³ (DD) 2m ³ (DH)
Dehumidifying Power DH Model(2 4)	20g/d	40g/d
Dehumidifying Power DD Model(2 4)	40g/d	80g/d
Connectivity:	WiFi with cloud monitoring system Modbus on cable for BMS systems	