



Precision Composite Curing Oven

OVEN-700-2000



Key Features

- Precision temperature control
- Accurate temperature control and an integral overheat system
- Programmable ramp and soak
- Standard operating mode
- Program-operating mode with 19 pre-programmed options
- Two independent vacuum ports
- Very high thermal efficiency
- Powerful 2kW heating power
- Rugged build for production use
- Touch screen controller

"Unrivalled value for money along with incredible features and performance"

Designed, manufactured, and quality-assured in-house by UAVOS Inc., OVEN-700-2000 is a fully featured programmable industrial curing oven.

The oven is particularly suited for composites, including curing or post-curing laminates, prepregs, thermoplastics, castings, and moulds.

The precision-manufactured, sturdy design is engineered for demanding everyday production. Precision control makes the oven equally suited to laboratory or R&D use.

The oven delivers the highest standards of PID temperature control accuracy, utilising high-quality calibrated thermocouple temperature measurement coupled with effective fan-assisted airflow to minimise stratification.

Temperature, ramp, and soak are all fully programmable so recommended cure and post-cure cycles for different materials can be saved and run automatically for ultimate precision and consistency.

Recommended For:

- Curing of prepreg composite parts
- Post-curing of high-temperature moulds and tooling
- Curing thermoplastics such as PP and PLA
- Curing silicones and casting resins
- Research and development/material testing



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Features & Options

OVEN-700-2000 has been designed from the ground up to offer all the functionality desirable in a fully featured composites curing oven. As such, it is available in additional sizes to ensure it provides a 'turn-key' system to match your needs.

Touch Screen controller

Developed by UAVOS Inc., controller software provides the pre-programmed mode with 19 user-modifiable programs, a standard mode, and a user-intuitive interface controller.

The touchscreen controller allows users to intuitively create and run even the most complex ramp and dwell programs. The onscreen graphing overlays a live temperature trace of the internal temperature and the auxiliary sensor temperature onto the complete program profile.

Vacuum Valves

OVEN-700-2000 includes two integral ports which can be supplied complete with optional gauge and valve assemblies for convenient connection of one or two separate vacuum lines into the oven.

Disclaimer

UAVOS Inc. is not responsible for the proper use and service of the product, or for the safeguarding of personnel or property, all of which are the user's duties.

Before using any of our products, users should familiarise themselves with the relevant technical and safety datasheets provided by UAVOS Inc.

Shipping Information

OVEN-700-2000 has been designed for worldwide shipping and can be delivered to almost any destination.

The ovens are always transported securely fastened to a shipping pallet and may require a forklift or taillift to unload.

SPECIFICATION

Product Data

Maximum Temperature.....**200°C**

Internal Working Volume.....**1000 Litres**

Colour.....**RAL 9003**

Maximum power consumption.....**4400 W**

Convection fan heating
element, power, 2pcs.....**2.0 KW**

Maximum Heating Rate.....**90-120 min**

Internal Dimensions.....**2000x715x700**
W x H x D (mm)

External Dimensions.....**2324x1010x967**
W x H x D (mm)

Installation Space
Requirement.....**2800x1900x1500**
W x H x D (mm)

Number of Vacuum Ports.....**2x**

Auxiliary Temperature
Sensor Type, 2pcs.....**thermocouple
Gefran TC5N**

Mains supply voltage.....**380 V**

Electrical Supply Frequency.....**50 to 60 Hz**

Gross Weight.....**280 kg**