



Key Features

- Precision temperature control
- Ambient to 204°C / 400°F
- Programmable ramp and soak
- Two independent vacuum ports
- Very high thermal efficiency
- Powerful 2kw heating power
- Fan assisted forced convection
- Rugged build for production use

“Unrivalled value for money along with incredible features and performance put OV301 in a league of its own”

Designed, manufactured and quality assured in-house by Easy Composites Ltd in the UK, OV301 is a fully featured programmable industrial curing oven for convenient bench-top installation.

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

The precision manufactured, sturdy design is engineered for demanding everyday production use whilst the convenient bench-top size and precision control makes the oven equally suited to laboratory or R&D use.

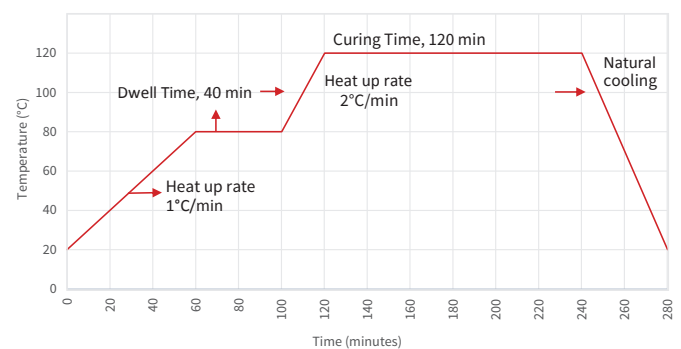
OV301 has been meticulously designed to offer unrivalled thermal efficiency meaning that complete prepreg curing cycles can be completed for only a few pence*.

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

*2hr cure cycle, 20°C ambient, 1.5kwh @£0.15/kwh, total cost £0.20

Precision Temperature Control with Ramp and Soak/Dwell Functionality



Example prepreg curing cycle.

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.

OV301 includes full 'ramp and soak' temperature control which can control heating rates (degrees per minute), and hold for a specific length of time at set temperatures. Although useful in a range of curing processes, 'ramp and soak' control like this is a feature usually reserved for advanced laboratory ovens and autoclaves.

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 the ultimate in precision and consistency.



Options

OV301 has been designed from the ground-up to offer all the functionality desirable in a fully-featured composites curing oven and as such is available with a choice of options to ensure it provides a 'turn-key' system to match your needs.

USB Programming Module



OV301's fully featured PID controller is programmable with up to 8 discrete programs, each with up to 8 individual steps. Programs can be configured on the controller itself but for maximum ease-of-use, an optional USB Programming Module can be connected to the oven's communication socket for convenient programming, monitoring or data-logging.

Requires Windows® PC or laptop computer, not included.

Vacuum Valve/Gauge Assemblies



OV301 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.

Photo shows two optional vacuum valves fitted.

Additional Shelf



The OV301 Precision Composites Curing Oven is supplied with one internal shelf as standard. Adding an additional shelf can provide more flexibility when loading, particularly when loading smaller items.

Spare Parts

A full set of spare parts is available for the oven from stock, including replacement door seal, fan, heating element and the complete control and power assembly. Please contact sales for pricing.



Specification

Mains Power	230v/50hz	
Max. Oven Temperature	204°C (400°F)	
Max. Power Consumption	2.2kw	
Maximum Current	9.1 Amps	
Internal Capacity	Width	1070mm
	Depth	500mm max (475mm min)
	Height	500mm
External Dimensions	Width	1255mm
	Depth	688mm
	Height	655mm
Total Weight	80.0kgs	
Maximum Ambient Temp.	35°C (95°F)	
Maximum Shelf Load	20kgs (per shelf)	
Set Temperature Accuracy	1°C	
Program Modes	8 Programs of 8 Segments	
Communication	Optional USB Module	
Material/Appearance	Grey Powdercoat / Galvanised Steel	
Transport Information	1200mm x 800mm Pallet (790mm High)	
Safety Features	Thermal Cut Out + Thermal Fuse	
Safety Standards	CE Marked, BS EN 61010-2-010	

Europe-wide Delivery

OV301 is available for same day dispatch for delivery throughout the UK and Europe. The oven is shipped on a standard pallet by road transport with preferential delivery prices throughout mainland Europe.



Designed, manufactured and distributed by
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