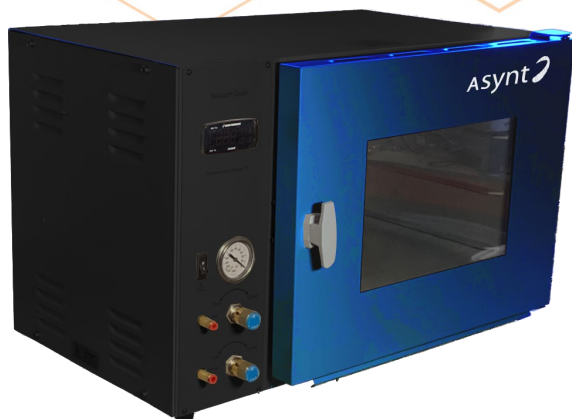
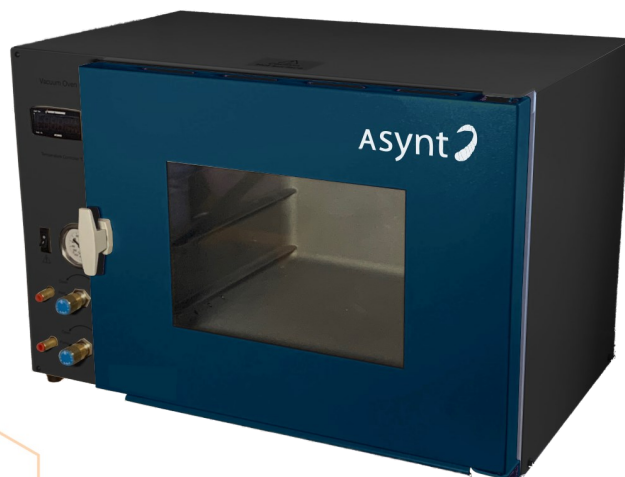


## The Asynt 31 Litre Vacuum Oven

### *With digital PID electronic controller*

By using reduced pressure, the Asynt Vacuum Oven enables heat sensitive materials to be dried at low temperatures. Alternatively, more stable samples may be dried more rapidly at higher temperatures, without fan circulation.

This oven is also particularly useful for controlled atmosphere heating (e.g. curing of resins under nitrogen or reduced oxygen conditions). Since the inner chamber is sealed it may also be suitable for solvent removal work, subject to adequate exhaust and ventilation conditions being provided for the oven and for the room respectively.



**Low outer case temperature**

**Tough exterior**

**Secure twist action latch**

**12.5 mm toughened glass**

**4 mm shatter resistant door shield**

**Temperatures up to 200 °C**

### Key Details:

- Compact size, with 31 Litre load capacity.
- Popular "Gallenkamp" design now upgraded.
- Digital PID controller for easy & faster temperature setting with over-temperature alarm indication.
- Independent over-temperature safety protection.
- Highly versatile for atmospheric/reduced atmosphere operation.
- Suitable for solvent removal.
- Tough steel construction with strong door closure.
- Toughened glass window with polycarbonate safety screen.
- Front mounted push-on connectors

This oven is not designed for use at positive pressures. The vacuum level achievable is a function not of the oven, but of the pump used with it.

## The Asynt 31 Litre Vacuum Oven

### Construction

The outer casing is tough, stoved epoxy-polyester painted steel, designed to look good even under the most demanding work conditions. The vacuum chamber is a robust light alloy casting supplied with two shelves and three shelf positions. The large viewing window allows inspection of the test materials with ease.

The chamber is heated by large area heater panels strapped to its outer surface. Door closure is achieved via a strong and positive twist action latch. Glass fibre insulation maintains low outer case temperatures. The chamber is closed by a 12.5 mm thick toughened glass plate sealing onto a silicone rubber gasket. This glass plate is mounted onto the door by 4 spring-loaded pins to ensure an excellent, even seal to the chamber.

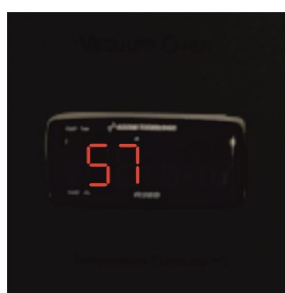
As an extra precaution a 4mm thick shatter resistant polycarbonate safety shield covers the door window.

### Temperature Control

An electronic digital PID controller allows for easy and fast temperature setting with integral over-temperature alarm indication. Temperatures up to 200°C are possible via the PID controller. An independent over-temperature safety circuit protects sensitive samples from over-heating.

### Vacuum Controls

Reliable, needle type inlet and exhaust valves are fitted. These are situated near the bottom front corner of the oven for convenient connection to a vacuum pump, vapour trap or exhaust. The serrated nozzles accept flexible vacuum tubing of 10-12 mm bore. A vacuum gauge is fitted, showing vacuum pulled - from 0 to 1000 mbar.



Capacity (Litres)	31	Temperature control	Digital PID
Temperature range at ambient temperatures less than 25°C	30 to 200 °C	Power rating, max W	1000
Shelf (W x D) mm	366 x 290	Internal dimensions (H x W x D) mm	260 x 375 x 310
Number of shelves	2	Overall dimensions (D x W x D) mm	420 x 630 x 425
Number of shelf positions	3	Weight, Kg	43
Interval between positions (mm)	75	Tubing connections	10-12 mm bore