

Flame Proof Oven (Ambient +5°C to 200°C)

LABEC Flame Proof Ovens are manufactured in Australia with high quality stainless steel for easy maintenance and excellent durability. A purpose built oven, it conforms to Australian Standard AS1681-2002, suitable for applications where volatile matters such as bitumen, paint or varnishes are present.

The oven features a horizontal air flow system where the air passes only once through the chamber and out the top vent which provides continuous positive ventilation. A door activated timer purges the elements to remove volatile vapors and is fitted with an explosion/blowout port ratio 1:4.5 of chamber volume. The door seals on a silicon gasket to ensure no leaks and thus uniform temperatures throughout and features a safety microswitch which cuts power to the heaters when opened.



PID Control display system

Controller – A digital microprocessor based PID temperature controller controls the temperature within the range ambient +5°C to 200°C, temperature fluctuation at 105°C is ±1°C.

Standard features include:

- RCD/ELB (earth leakage breaker).
- Over Temperature Thermostat.
- Type K Thermocouple.
- Stainless Steel exterior.

Data logging

When optioned the controller can be connected via RS232/RS485 communication ports which can be connected directly to a data logger or computer to collect this information. Software is available for programming and monitoring.

Additional options

To suit your requirements the addition of options such as a safety toughened glass viewing window, programmable controllers, timers and cable access ports are also available.

SPECIFICATIONS

Flame Proof Oven

(Ambient +5°C to 200°C)

| Model | FP18 | FP24 | FP36 | FP50 |
|--------------------------|--|---------------|---------------|---------------|
| Capacity (Litres) | 66 | 160 | 300 | 507 |
| Int. Dim. (cm) H x W x D | 46 x 38 x 38 | 60 x 50 x 50 | 90 x 60 x 50 | 120 x 65 x 65 |
| Ext. Dim. (cm) H x W x D | 135 x 60 x 48 | 150 x 72 x 60 | 180 x 82 x 60 | 210 x 87 x 75 |
| Temp. Controller | Digital PID Controller | | | |
| Temp. Min | Ambient +5°C | | | |
| Temp. Max | 200°C | | | |
| Temp Setting Accuracy | +/-0.1°C | | | |
| Temp. Fluctuation | +/-1°C | | | |
| Temp. Sensor | Type K | | | |
| Heating System | Electric Element | | | |
| Interior Material | Stainless Steel | | | |
| Exterior Material | Stainless Steel | | | |
| Shelves | 2 | | 3 | |
| Options | Glass or acrylic viewing window, castors, cable entry port, additional shelves, timer, programmable temperature profiler | | | |
| Power Supply | Three Phase Power Required | | | |
| Power (W) | 3000 | 5400 | 5400 | 6000 |
| Weight (kg) | 84 | 92 | 95 | 99 |

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