



Drying Ovens Models DO1, DO2 & DO4

High-Capacity, High-Efficiency
Trolley Drying Ovens



Comprehensive Range of Electric Batch Drying Ovens

Essa offers three standard sizes of well proven electrically heated ovens that have been specifically engineered to withstand the corrosive environment inherently created by the combination of high temperature, moisture and the often chemically active atmosphere created by the drying process.

Each is supplied as standard with one or more wheeled trolleys incorporating a number of heavy duty wire mesh racks on which the samples to be dried are placed.

Features and Benefits

- ▶ **Reduced operational costs:** a trolley type oven saves energy and time.
- ▶ **Fast drying times, reduced fuel costs and less spillage of hot air into the work environment:** quick oven loading and unloading ensures minimal heat is lost from the oven.
- ▶ **Improved worker health and safety:** the wheeled trolley provides excellent sample mobility. There is no need to lift samples manually around the laboratory.
- ▶ **Improved quality:** stainless steel lining reduces corrosion, minimising sample contamination.
- ▶ **Increased productivity:** uniform and optimised drying is provided by a stainless steel recirculating fan and dampening valves.
- ▶
- ▶ **Personal safety:** robust door latch has an internal release so operator cannot be locked inside.
- ▶ **Improved quality:** digital temperature control provides precise and accurate control of drying temperature which can be critical for geochemistry applications.
- ▶ **Improved safety and longer element life:** automated over temperature control plus separate thermocouple and mechanical thermostat circuit.
- ▶ **Flexible installation applications:** gas-heated ovens also available for the DO2 and DO4 models.



Technical Data: Model DO1

Number of Cabinet Doors	1
Internal Volume	2.0 m ³
Number of Trolleys	1
Trolley Dimensions	0.87 m wide x 0.87 m deep x 1.34 m high
Shelves per Trolley	6
Total Shelf Area per Oven	4.54 m ²
3 Phase Energy Requirement	12 kW
Fan	Stainless steel, centrifugal/forward curved
Construction	Stainless steel interior, glass fibre insulation, corrosion resistant zinc anneal, painted exterior
Recommended Operating Temperature	105°C
Recommended Maximum Operating Temperature	120°C
Thermocouple	Type K
Elements	3 x 4 kW
Internal Dimensions	1.13 m wide x 1.13 m deep x 1.80 m high
External Dimension	1.37 m wide x 1.23 m deep x 1.98 m high

Standard oven is electrically heated



A robust and user-friendly oven with a single wheel-in/wheel-out trolley. The DO1 is the smallest oven in the Essa range of efficient high-capacity electric ovens tailored for application and specific sample loads.



Technical Data: Model DO2

Number of Cabinet Doors	1
Internal Volume	5.2 m ³
Number of Trolleys	2
Trolley Dimensions	0.60 m wide x 1.40 m deep x 1.62 m high
Shelves per Trolley	9
Total Shelf Area per Oven	15.12 m ²
3 Phase Energy Requirement	12 kW
Fan	Stainless steel, centrifugal/forward curved
Construction	Stainless steel interior, glass fibre insulation, corrosion resistant zinc anneal, painted exterior
Recommended Operating Temperature	105°C
Recommended Maximum Operating Temperature	120°C
Thermocouple	Type K
Elements	3 x 4 kW
Internal Dimensions	1.60 m wide x 1.70 m deep x 1.90 m high
External Dimension	1.83 m wide x 1.93 m deep x 2.24 m high

Standard oven is electrically heated. LP and natural gas models also available



A functional and reliable oven that holds two wheel-in/wheel-out trolleys. The DO2 is the mid-range oven in the Essa series of flexible high-capacity electric ovens tailored for application and sample loads.



Technical Data: Model DO4

Number of Cabinet Doors	2
Internal Volume	10.1 m ³
Number of Trolleys	4
Trolley Dimensions	0.60 m wide x 1.40 m deep x 1.62 m high
Shelves per Trolley	9
Total Shelf Area per Oven	30.24 m ²
3 Phase Energy Requirement	24 kW
Fan	Stainless steel, centrifugal/forward curved
Construction	Stainless steel interior, glass fibre insulation, corrosion resistant zinc aneal, painted exterior
Recommended Operating Temperature	105°C
Recommended Maximum Operating Temperature	120°C
Thermocouple	Type K
Elements	6 x 4 kW
Internal Dimensions	3.20 m wide x 1.70 m deep x 1.90 m high
External Dimension	3.36 m wide x 1.93 m deep x 2.24 m high

Standard oven is electrically heated. LP and natural gas models also available



A very high-capacity oven that holds four wheel-in/wheel-out trolleys. The DO4 is the largest oven in the Essa range of heavy-duty cost-efficient electric ovens tailored for application and sample loads.

essa

Essa Australia Limited
 PO Box 362
 Belmont WA 6984
 AUSTRALIA
 tel +61 8 9475 3000
 fax +61 8 9477 3544
 email mail@essa.com.au

www.essa.com.au

Distributor:

Sample Preparation

Sampling

Automation

Metallurgical

Laboratory

Particle Sizing

**Intelligent Solutions
 to Mineral Sampling,
 Preparation and
 Testing**

The information contained in this document is provided for promotional purposes. Essa does not warrant its accuracy or completeness. While Essa attempts to ensure that the information is accurate, Essa reserves the right to change features or specifications at any time.

Performance characteristics will vary depending on the application.

Please check with Essa at the time of ordering whether the equipment is suitable for your intended application.