

TAAB Embedding Oven

A chest type oven with an operating temperature range of +40°C to 100°C. The temperature required is easily selected by the control knob on the front panel. Designed to maximise oven chamber space, the oven is capable of taking up to 416 TAAB capsules for polymerisation when mounted in the carrier trays provided. BEEM capsules (not provided) can be stacked on the carrier tray, then 5.2mm or 8mm BEEM capsules or a variety of embedding moulds can also be used.

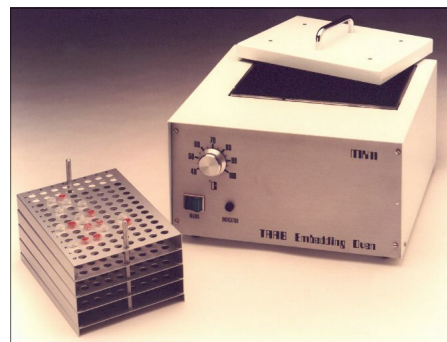
The high precision oven is designed around a high thermal mass cast aluminium chamber which, together with a lid fabricated from aluminium plate, provides a construction with uniform heat distribution from replaceable heating elements embedded in the oven wall. The temperature differential throughout the oven is consequently very small. The construction also allows for rapid re-attainment of air temperature in the oven if the lid is removed. The body of the oven and the lid are efficiently insulated.

A probe buried in the body of the oven senses the temperature. This probe feeds a sophisticated electronic control system that controls the 4 elements in a proportional manner so there is consequently no differential in the heating cycle. The electrical supply to the circuitry is via a stabilised DC power supply that makes the oven insensitive to mains voltage fluctuations. The oven is insensitive to changes in the ambient temperature.

E062	TAAB embedding oven – 240 volt	each
E063	TAAB embedding oven – 110 volt	each
E064	Conversion trays – 8mm to 6mm	set 4

The conversion trays accept only TAAB 6mm capsules.

E062/E	Oven element – 240 volt	each
E063/E	Oven element – 110 volt	each



SPECIFICATION

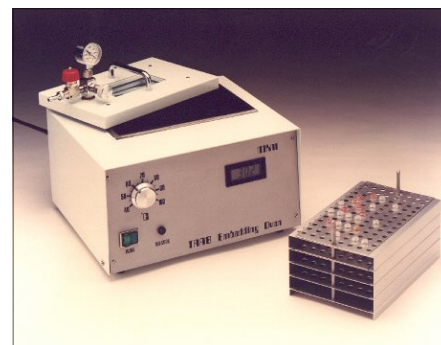
Internal dimension:	22.5 x 14.5 x 14cm
External dimension:	33.5 x 30.5 x 23cm
Temperature range:	40°C to 100°C
Temperature differential throughout oven:	0.5°C
Temperature differential at set temperature:	0°C
Accuracy:	0.5°C
Repeat accuracy:	0.25°C
Permissible variation in mains voltage:	15%
Rated voltage:	230v 50/60Hz 110v 50/60Hz
Power consumption:	100Va

The oven is built with a secondary safety thermostat which cuts the power supply should temperature exceed 105C.

TAAB Oven with Temperature Readout

This model has all the features of the standard oven but has in addition visual temperature readout display. A three digit LCD with 15mm high digits is panel mounted to the front of the oven for ease of viewing.

E100	Embedding oven with temp/readout – 240 volt	each
E101	Embedding oven with temp/readout – 110 volt	each



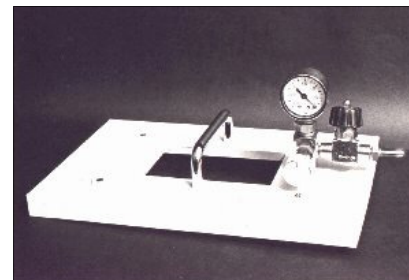
Oven shown with Optional vacuum lid

Oven Vacuum Lid

The TAAB oven vacuum lid comes as standard with valves, vacuum gauge and a large glass viewing window. For those wishing to reduce costs without affecting the performance of the unit, there is a version without a vacuum gauge. The vacuum lid converts the TAAB Embedding Oven into an environment suitable for polymerising resins in a vacuum or in an inert environment that is particularly suitable for resins, which need to polymerise in an oxygen free gas.

The design of the TAAB oven is such that with a vacuum facility it becomes an ideal vessel for WAX impregnation of specimens, speeding up impregnation with a higher reproducibility of results.

E087	Oven vacuum lid – with gauge	each
E104	Oven vacuum lid – without gauge	each
E087/G	Replacement silicone gasket	each



See page No.5.18 for details on the range of Mini-Vacuum pumps. Model **V079/KN** is recommended for use with the TAAB vacuum oven with the **V079/KT** where corrosion resistance is required.

5

Specimen Preparation



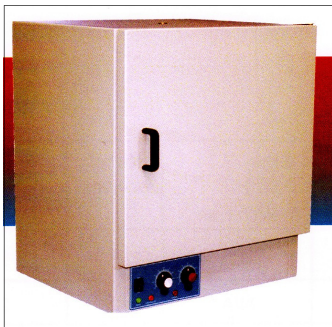
Incubators

Temperature range - Ambient +5°C to 70°C without fan
Ambient +8°C to 70°C with fan

This general purpose **economy range** are highly efficient, reliable and cost effective. **The exterior** is constructed from sheet steel finished in an "easy clean" powder coated paint. **The interior** chamber is made from mild steel coated with aluminium (a stainless steel interior is an option). Fitted with fixed shelf runners and removable chrome plate wire grid shelves. There is a solid steel door as standard (Integral viewing window optional as is a double door, steel outer, glass inner). **Heating** is by Incoloy sheathed elements positioned below the chamber floor (natural convection units) and around the fan on the back wall (mechanical convection units) The simple to use thermostat system. **The control system** comprises a direct reading thermostat and an overheat thermostat both with calibrated scales tamper-proof locks. Mains power and overheat indicators.

Specifications

Cat. No.	Volume litres	Internal Dims. H x W x D cm	Ext. Dims H x W x D cm		No. of shelves	No. of positions	Weight (Kg)
			No fan	With fan			
I064	6	15x23x19	39x32x33	N/A	1	1	7
I061	18	26x26x27	52x38x41	N/A	2	2	14
I071	30	24x36x35	50x48x49	50x48x62	2	2	20
I072	40	32x36x35	58x48x49	58x48x62	2	3	23
I073	50	33x49x33	59x61x60	59x61x59	2	3	26



Digital Ranges also available

Option Codes Stainless steel chamber /SS Fan /F Viewing window /VIS
Double door /DD Digital control system /DIG

Ask about our **dual range** combined Oven/Incubator

+5°C to 250°C

Ovens +40° to 250°C

The exterior is constructed from sheet steel finished in easy clean powder coated paint. **The interior** chamber is mild steel coated with aluminium (CLAD) with a stainless steel chamber available as an option. Fitted with fixed shelf runners and removable chrome plated wire grid shelves. The top vent is fitted with a clip to hold a glass immersion thermometer.

Heated by Incoloy sheathed elements, positioned below the chamber floor for natural convection units and fitted around the fan on the back or side wall of the chamber for mechanical convection units.

The control system comprises of a direct reading thermostat and overheat thermostat both with calibrated scales and tamper proof locks. They also include main switch with indicator and heat and overheat indicators.

Specifications

Cat. No.	Volume litres	Internal Dims. H x W x D cm	Ext. Dims H x W x D cm		No. of shelves	No. of positions	Weight (Kg)
			No fan	With fan			
O091	6	15x23x19	41x35x33	N/A	1	1	7
O084	18	26x26x27	52x38x41	N/A	2	2	14
O092	30	24x36x35	50x48x49	50x48x62	2	2	20
O135	40	32x36x35	58x48x49	58x48x62	2	3	23
O136	50	33x49x33	59x61x60	59x61x59	2	3	26

Option Codes Stainless steel chamber /SS
Fan /F
Digital control system /DIG

