

TECHNICAL SPECIFICATION

M SERIES OF MANUAL VACUUM FORMING MACHINES

The **Manual series of** Vacuum Forming Machines are floor mounted freestanding units that are used for manufacturing of thermoformed components. This equipment can vacuum form a wide range of material like PVC, HIPS, PP, Polycarbonate, PET, ABS and of up to 4 mm thick can be formed.

The heating sequence, which is one of the most important factors in vacuum forming, is digitally **timed**.

Forming Capabilities:

		1711M	1714M
Forming Max	in	17 x 11	17 x 14
	mm	432 x 280	432 x 356
Depth Max	in	4	4
	mm	100	100

MACHINE CONSISTING OF:

The machine frame is of mild steel welded construction designed to provide a solid and rigid chassis. The mould table is housed in an airtight box with easy access from the top for tool changes.

Heating system comprises of horizontally moving heater box above the material. A digital timer is used for the crucial heating cycle.

Ceramic infrared heating elements of 300W are fitted as standard. These are zoned to provide balanced heat.

A heat reflector is fitted below the heater in the in the 'park' position.

Material clamping utilizes hinged moving clamp frame with self adjusting rear springs.

Drape (mould) table is lifted by a pneumatic cylinder. The table for the 1714M is raised by a foot pedal. It is stabilised and balanced by a pair of guide rods to assure smooth and easy movement.

Vacuum System comprises of electrically driven reciprocating vacuum pump fitted with a motor and is coupled to an integral vacuum reservoir in the machine base frame. A vacuum gauge is fitted as standard.

Sheet Sag can be controlled by using the bubble facility to release small amounts of air within the sealed mould chamber to cushion the sagging material. The drape forming tank is air-tight.

Product cooling is achieved by electrically driven high Velocity turbo fans - optional

Guarding/Safety

The heater box is fitted with mesh guard. The machine will be CE marked in accordance with current European legislation and a Certificate of Conformity will be provided as part of the standard documentation.

Proprietary components are sourced from companies of global repute. These include Moeller and Siemens for *control switchgear*; Becker for *vacuum pump*.

Optional feature:

Cooling Fans; Reducing Aperture

Brief Technical Specifications*

Model	1714M
Forming (max) in (mm)	17 x 14 (432 x 356)
Depth mm	100
Power Usage kW	3.8 (1P)
Air Usage liters/cycle	-
Floor Area cm	155 x 72
Height cm	130
Weight kg	153

*The above figures should be taken as typical example only; complete specifications will be supplied on request

*Standard power supplies are 415 V 50 Hz phase 4 wire (220V 50Hz for model 1714M)