



# COMBITHERM

HEATING • FORMING • LAMINATED BENDING



# COMBITHERM – THE MULTIPURPOSE HEATING AND FORMING UNIT FOR ALL THERMOFORMING MATERIALS



COMBITHERM is a compact built, space-saving, combined thermo heating and forming unit. The combination of a thermo heating oven with a vacuum press enables you to heat up various thermoforming materials fast to their optimal forming temperature and then form them with vacuum in one machine.

COMBITHERM is ideal for heating and forming solid surface materials such as: CORIAN, VARICOR, GETACORE, STARON, WILSONART, PLEXICOR, MARLAN, etc.

COMBITHERM is ideal for heating and forming all other thermoforming materials such as: ABS, PC (Makrolon), PMMA (Plexiglas), PET-G (Vivak), PS, PP, PVC, etc.

COMBITHERM is of course a vacuum press for: veneering, coating, laminating and pressing

COMBITHERM is easy to use. The innovative circulating hot air system heats thermoforming materials in various thicknesses and

qualities evenly. This generates a very gentle and unproblematic heating up procedure. There are no problems with discolouring of sensitive materials or sticking of materials onto the working surface. The vacuum press operates with the sophisticated technology designed by Columbus!

## **THERMOFORMING FOR NEW PROFITABLE MARKETS!**

COMBITHERM is a space-saving two in one machine for heating and forming of materials economically.

This creates possibilities to work with new materials to design new forms and shapes; to realise your own ideas and to satisfy the demands of your customers.

A cost effective way to enter a lucrative market without a lot of additional expenses.



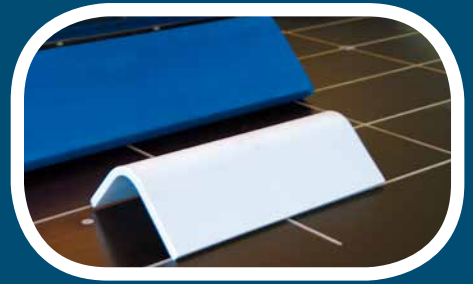
## COMBITHERM VERTICAL

- the efficient and precise vacuum-press with a vertical movement of 600 mm
- no misplacement of the layers and the former
- precise alignment of the workpieces
- membrane change within 10 min

# IT'S THAT EASY ...

## HEATING AND FORMING OF THERMOFORMING MATERIALS:

- place the thermoforming material on the pulled out working surface
- after the set heating time has finished remove the hot thermoforming material
- place it on the prepared mould in the vacuum press
- pressing time according to the forming parameters of the thermoforming material
- remove the ready formed work piece after finishing the pressing process



## LAMINATING AND VENEERING OF SHAPED PARTS:

- set the desired temperature for the heating hood, open the membrane frame and place the work piece onto the machine table
- switch the vacuum pump on - the pressing process starts
- frame after end of pressing time and remove the ready work piece



## FORMING OF PLASTICS:

- place the heated plastic from the heating unit onto the former
- with the force of the vacuum the plastic is shaped into the desired design
- remove the ready work piece from the vacuum press



# ... ADVANTAGES AT A GLANCE

## TECHNOLOGY FOR PROFESSIONALS:

### HEATING OVEN:

- variable temperature setting +230 °C
- electronic temperature control
- exact temperature distribution to the entire heating surface through Columbus CHS unique hot air heating system
- overheating protection
- heating chamber can be used for tempering of work pieces
- energy saving through low power input and tight closing lid

### VACUUM PRESS:

- optimal pressing with a pressure of 9 t/m<sup>2</sup> also on large scale work pieces
- evenly applied pressure on all sides of the work piece
- simple and reliable opening/closing mechanism
- long-life reliable pump (rotary vane pump)
- fast pressure build up

### USER FRIENDLY OPERATION:

- pull-out working surface
- ergonomically adjusted working height
- adjustment of material thickness not necessary
- easy placing and removing of the work pieces
- fast work flow of heating and forming
- clear and self explanatory controls

### ROBUST, DURABLE CONSTRUCTION:

- sturdy and rigid steel construction
- industrial convection heating technology
- non-corrosive working surface
- smooth pull-out operation of the working surface
- maintenance-friendly

The technical data contained herein is subject to modifications.



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