

THW VA300
combi

THERMOWARE **TW**
PARTICLE FOAM MACHINERY

Pre-expander



For now and in the future

Pre-expander



Pre-expanders form the basis for the further processing of particle foam, such as EPS, polymers and biofoam. The process of thin-walled particle foaming requires an even grain size, which only the continuous pre-expander can offer. The set-up of the THW VA300 combi consists of a fluid bed dryer and a vertical cylindrical vessel operating at atmospheric pressure, with a limited temperature up to 100°C. The raw material, together with the steam, is continuously transported to the bottom of the vessel by a screw feed system. The expanded particles then leave the machine through an opening at the top. The screw feed rate, steam pressure and the height of the overflow opening make it possible to control the density of the particles.

Thermoware Pre-expander systems are supplied in a range of 40 - 160 - 300 kg per hour. This specific all-in-one version distinguishes itself from the other pre-expanders by its small footprint and fixed position.

Pre-expander THW VA300 combi

TECHNICAL DATA

- Footprint:
L x W x H mm: 3000 x 1360 x 2890 mm
Total weight: 580 kg

Pre-expander:

- Stainless steel barrel and stirrer
- 50 mm rock wool insulation, covered with aluminium plate
- Variable speed material feed screw
- Steam/air mixture heating device
- Controlled by means of an adjustable air flow
- Electrical control cabinet, prewired for hopper loader and fluid bed material dryer
- Electrical source: 220 / 380 VAC, 50 Hz - 3.4 kW / h
- Capacity: approx. 300 kg / h

Fluidbed dryer:

- Unit made of painted galvanized plate
- Covered with a stainless steel cover
- Material transport blower
- Heater unit

- Steam and electrical connections for coupling to pre-expander
- Drying capacity: 300 kg / h
- Electrical source: 220 / 380 VAC, 50 Hz - 1.1 kW / h

Double deck sieve:

- Upper sieve mesh 2 mm
- Lower sieve mesh 0.4 mm
- Air-vibrator drive

SPECIFICATIONS

- Steam connection ½" and 4 bar
- Steam consumption max. 40 kg / h
- Air connection ½" and 7 bar
- Air consumption max. 0.4 m³ / min
- Power consumption 4.2 kW/h
- Electrical connection 3-phase, 380 VAC, 50 Hz. + N + FG
- Machine code THW 1132 / 1425

Machines we manufacture for the European market comply with CE regulations.

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