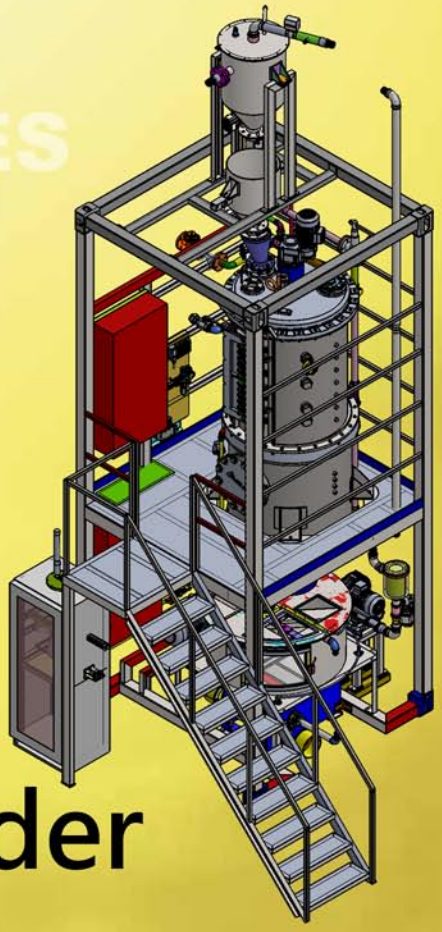
EPS TECHNOLOGIES



Vacuum Type Batch Pre-Expander

Working principle of the batch type, to expand a fixed mass of raw material in a fixed volume which enables to reach easily desired density

Dosing Unit, to weigth the rigth amount of EPS for the adjusted density. Filling to the vessel is done by gravity.

Expansion chamber made of AISI 304 stainless steel, cylindrical shape.

Agitator and accessories made of AISI 304 stainless steel, speed control via drive. With the adjustable speed in different steaming phases, enables to process different materials.

Vacuum chamber is located direct under the expansion vessel, accelerates the stabilization time.
Drying is done by this unit instead of a fluid bed dryer.

This type pre-expanders are used mainly by shape moulding plants.

The accuracy of the expander, starts just after 5 cycles of starting of expansion process.

Density is controlled by the PLC, adjusting the weight of raw material by each cycle automatically.

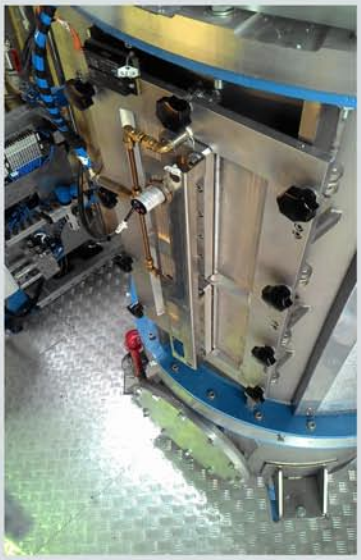
Density Control Unit is used for checking the density each cycle and regulate the weight.

Higher densities upto 100 g/lt is possible to expand with this pre-expander.

AKKAYA®
EPS-EPP TECHNOLOGIES

Raw Material Bunker Organisation (5 pcs)

For operating without any employee during operation.



ASM-BV 900 Main Body

Stainless Steel Expansion Chamber, expansion is controlled by 2 sensors.

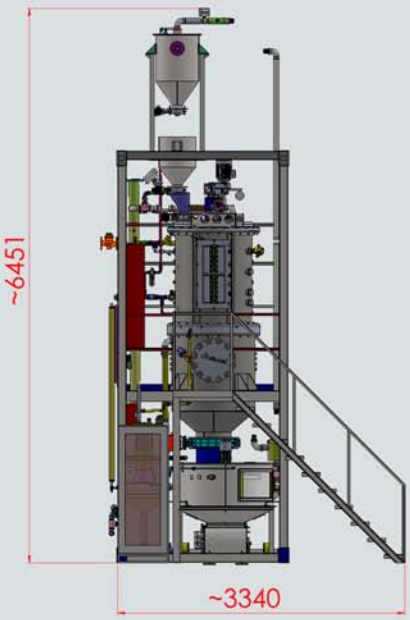
Machine Control Panel

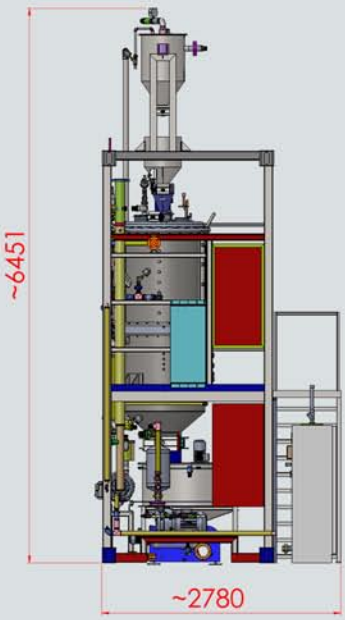
Machine is controlled by Bachmann PLC. Touch panel size 12" full color. With this display operator can change process parameters, and recipes can be added, changed and saved in the PLC. Also can be transferred to any place.

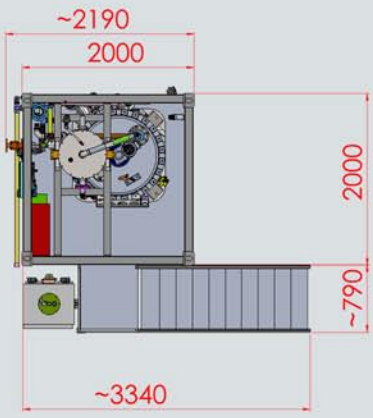
Technical Specifcations

Chamber Diameter:900 mm
Chamber Volume:0.6 m3
Vacuum vessel:0,6 m3
Vacuum pump: 7,5 kW
Raw material with suction blower: 5,5 kW
Raw material suction vessel stainless steel with ATEX sensor Raw material bunker Sensor ATEX type
1 pc.level sensor ATEX type

Production Capacity:
15 kg/m³ -(*)17/24 m³/ hour approx. 200-280 kg/hour
20 kg/m³ -(*)25/32 m³/ hour approx. 500-480 kg/hour
(*)Mentioned values are avarage capacities, which is reachable with proper quality and the rigth type of the raw materials.For low density production, it is necessary to use the suitable raw material only.







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