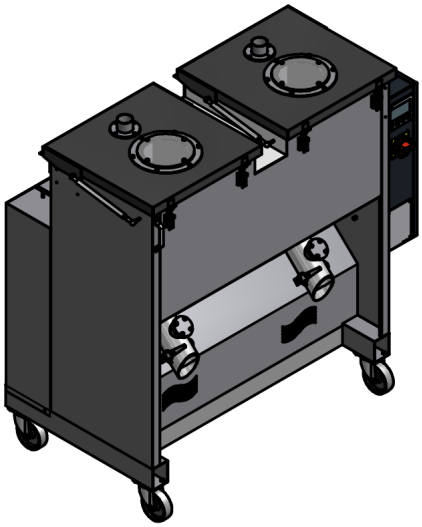
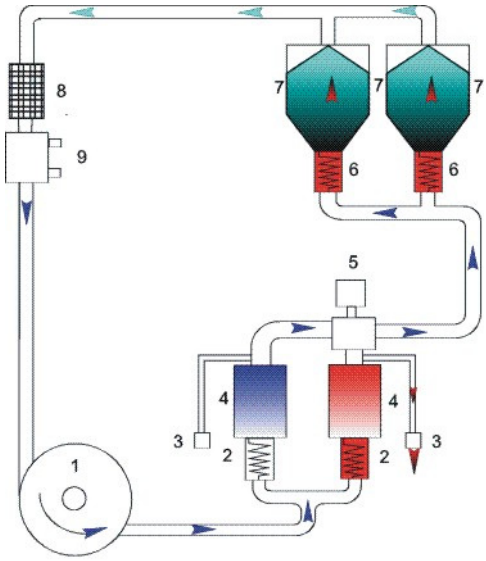
Two – Chamber – Desiccant – Dryer TTM 2 / 100 EST

Application Area

The two - chamber dry - air dryer is suitable for the fully automatic drying of all plastics when they do not release any volatile constituents, apart from water, during the drying process *. The dryer operates in a temperature range of 60 °C to 160 °C, + - 2 °C. A residual moisture content of <0.02% is achieved. The TTM 2/100 EST is a compact dry air dryer. It consists of the dry-air generator, 2 separately heatable material containers in a housing and a control cabinet with SPS control. The functional scheme (see diagram below) shows the drying process of the dry air dryer. Part of the air from the air circuit is needed to regenerate the desiccant chambers. The built-in time control ensures the automatic running of the regeneration, cooling and drying phases of the TTM 2/100 ES.* Please consult the material manufacturer for the properties of the dry product.



1. Fan
2. Regeneration heating
3. Waste valve
4. Molecular sieve
5. Engine valve
6. Granulate heating
7. Material container
8. Filter
9. Back air cooler



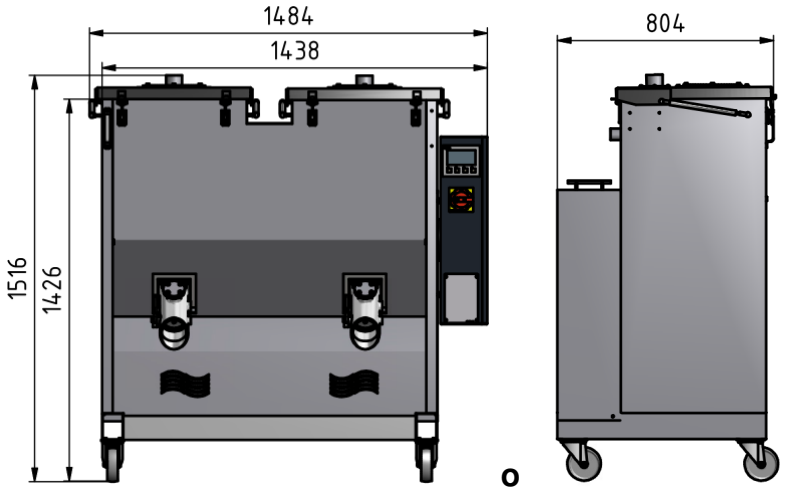
Standard Features:

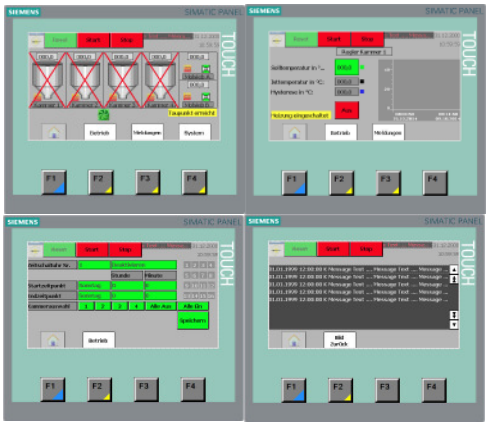
- Siemens Touch Panel 4.3 "with SPS S7-1200 CPU
- Wheeled compact unit with 200 liter material containers and fully insulated liners
- Automatic control in the side of the unit attached cabinet
- Automatic fan runs after turning off the dryer.
- Time switch
- Temperature-granulate container controlled by the integrated PLC.
- Removable sieve container made of stainless steel 1.4301
- Easily accessible and replaceable air filter
- Unloading device and Saugfördereranschlußaufnahme the outlet slide
- Bicameral dry air unit for continuous drying of the granulate
- Air-air heat exchanger for the Rücklufkühlung.- no water connection necessary
- Multi lingual

Product Information

Technical Data

Mechanical Data		Electrical Data	
Dimensions (H/W/D) mm	1600x1485x804	Connected load V / Hz	3 x 400 / 50
Cover filling height mm	1470	Power consumption in kW	11,4
Weight in kg	360	Current consumption in A	29,5
Capacity in liter	2 x 100	Regeneration heater in kW	3.5
Drying temperature in °C	60 - 160	Granular material heater in kW	3.5
Residual moisture in %	< 0.02	Fan power in kW	0.9
Dying capacity in kg / h	22 - 65 *(11 - 36)	Fan flow rate in m³ / h	168





The TTM 2/100 EST is a 2x100 liter dryer, which is equipped with 2x100 liters screen containers.
An exchange of the 100 liters sieve container against a 50 liters sieve container is afterwards possible.

The dryer is light gray with RAL 7004 structural color and the control cabinet and device cover RAL 7016 is painted dark gray.

On request, additional colours and operating voltages can be selected.

Dew point regeneration with display

Tp sensor and display are built into the dryer. The dew point is digitally displayed in a display instrument 48x96. The regeneration takes place dewpoint. By taupukt dependent regeneration takes only a regeneration of the molecular sieve, if the dew point over a certain value increases. Thus the cycle time of the regeneration is prolonged and this has a significant energy saving result.

Overdrying protection

The over-drying protection protects the material to be dried granules against over-drying and minimizes the energy consumption of the dryer.
The return air of disiccant dryer is monitored in terms of temperature. Achieved the return air temperature a preset limit, the granule heating is switched off. The dry air continues to circulate so that the granules can absorb any moisture. After falling below the fixed limit temperature, the heating is switched on again.