

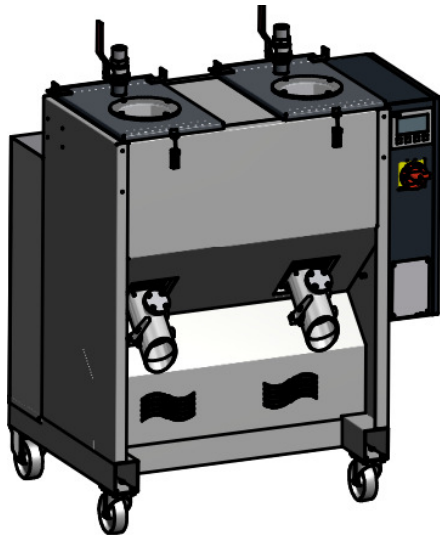
# Product Information

## Two – Chamber – Desiccant – Dryer TTM 2 / 50 EST

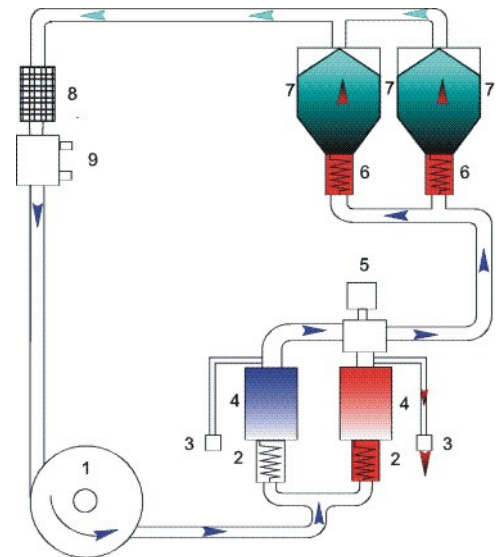
### Application Area

The two-chamber desiccant dryer is used for fully automatic drying of all plastics if these do not give off volatile components during the drying process. The dryer operates in a temperature range of 60 °C to 160 °C, +/- 2 °C. Residual moistures of < 0.02 % can be achieved. The TTM 2/50 EST is a compact desiccant dryer. It consists of a dry air generator with separately heatable material containers in a body, and the SPS control which is built in the switch box on the side. The functional diagram (see drawing below) shows the principle of the drying process of the desiccant dryer in a closed air recirculation system. Part of the air from the air recirculation system is required for regeneration of the desiccant chambers. Automatic operation of the regenerating, cooling and drying phases in the TTM 2/50 EST is achieved by the integrated time control unit.

\* Please ask the producer of the material for the characteristics of the drying material.



1. Fan
2. Regeneration heater
3. Waste air valve
4. Molecular sieve
5. Engine valve
6. Granulate material heating
7. Material container
8. Air circulation filter
9. Air circulation cooler



### Standard Features:

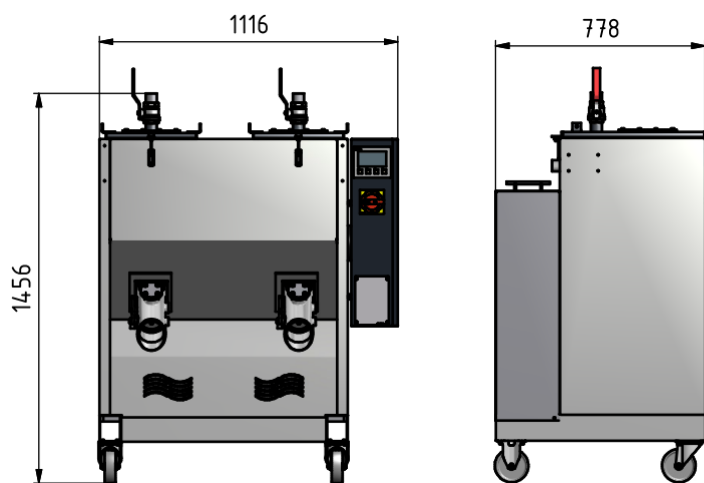
- Siemens Touchpanel 4,3" mit SPS S7-1200 CPU
- Mobile compact installation of two times a 50 liter capacity with insulated container
- Automatic control in the side of the unit attached cabinet
- Automatic fan runs after turning off the dryer.
- Time switch, each chamber can be started through the time switch by its own
- Temperature-granulate container controlled by the integrated SPS.
- 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 return cooling.- no water connection necessary

# Product Information

## Technical Data

### Mechanical Data

|                                     |               |
|-------------------------------------|---------------|
| Dimension (H/W/D) mm                | 1550x1116x906 |
| Cover filling height mm             | 1300          |
| Weight in kg                        | 250           |
| Capacity in liter                   | 2x50          |
| Dry-bulb temperature in °C          | 60 - 160      |
| Residual moisture in %              | < 0,02        |
| Drying capacity in kg/h per chamber | 5 – 16        |



### Electrical Daten

|                                     |              |
|-------------------------------------|--------------|
| Connection load V / Hz              | 3 x 400 / 50 |
| Power consumption in kW             | 8,4          |
| Current consumption in A            | 19,75        |
| Regeneration heater in kW           | 2x3,5        |
| Granular material heater in kW      | 2 x 2,0      |
| Fan power in kW                     | 0,38         |
| Fan flow rate in m <sup>3</sup> / h | 72           |



### TTM 2 / 50 EST

The dryer is equipped with RAL 7004 light gray textured paint and the equipment cabinet and cover with RAL 7016 dark gray finish.

Other color shades and operating voltage can be selected at an additional charge if required.

### Accessories

#### 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 taupunkt 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.