

# Product Information

## Three – Chamber – Desiccant – Dryer TTM 3 / 100 EST

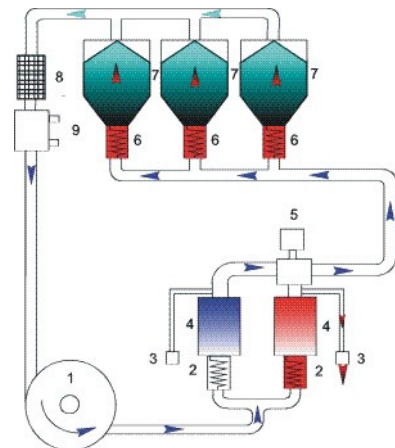
### Application Area

The two-chamber desiccant dryer TTM 3/100 EST 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 3/100 EST is a compact desiccant dryer. It consists of a dry air generator with 3 separately heatable material containers in two coupled bodies, 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 3/100 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 heating
3. Waste valve
4. Molar Screen
5. Engine valve
6. Granulate heating
7. Material container
8. Filter
9. Back air cooler



### Standard Features:

- Siemens Touchpanel 4,3" mit SPS S7-1200 CPU
- Mobile compact installation, of capacity 3 times 100 liters, and fully insulated inner containers
- Automatic control which is in the switch box on the side
- After-run fan
- Time switch, each chamber can be started by ist own
- Individually heatable granular material containers, regulated with the integrated SPS
- Galvanized, removable sieve container (if required suppliable in stainless steel)
- Easily accessible and replaceable air filter
- Manual removal device and mounting for suction conveyer connection
- Two-chamber dry air unit for continuous drying of granular material
- Integrated air cooled return air cooler - no water

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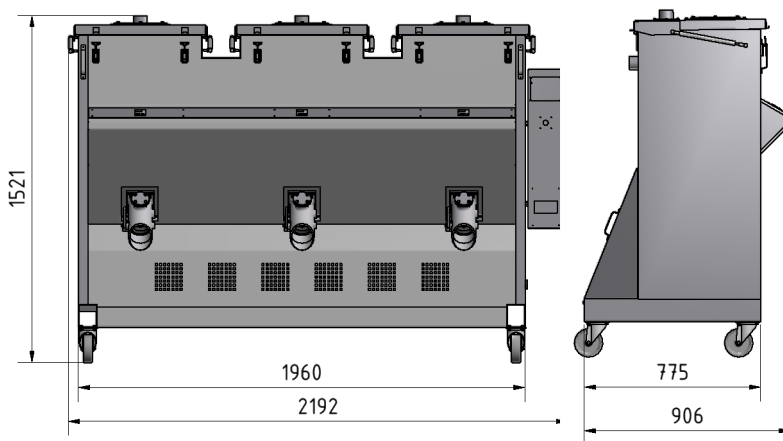
## Technical Data

### Mechanical Data

|                                    |                   |
|------------------------------------|-------------------|
| Dimension (H/W/D) in mm            | 1700 x 2200 x 906 |
| Cover fill height mm               | 1470              |
| Weight in kg                       | 485               |
| Capacity in liter                  | 3 x 100           |
| Drying temperature in °C           | 60 - 160          |
| Residual moisture in %             | < 0,02            |
| Drying capacity kg / h per chamber | 11-33             |

### Electrical Data

|                                     |              |
|-------------------------------------|--------------|
| Connection load V / Hz              | 3 x 400 / 50 |
| Power consumption in kW             | 15,5         |
| Current consumption in A            | 28           |
| Regeneration heater in kW           | 3,50         |
| Granular material heater in kW      | 3 x 3,50     |
| Fan power in kW                     | 1,5          |
| Fan flow rate in m <sup>3</sup> / h | 210          |



### Three chamber desiccant dryer TTM 3 / 100 EST

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

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

### Accessories

#### Single suction tube ES 2

Made of galvanized steel for sucking material from the dryer to the processing machine.

#### Vacuum conveyer VSF 101

Single component conveyer

with 230 V fan

#### Vacuum conveyer GKS 50

Single component conveyer

with 230 V fan

#### Double Bolt Opening DAS 2

to connect two conveyers to the chamber