

# Product Information

## Unicameral - Desiccant Dryer GTT 50 EST

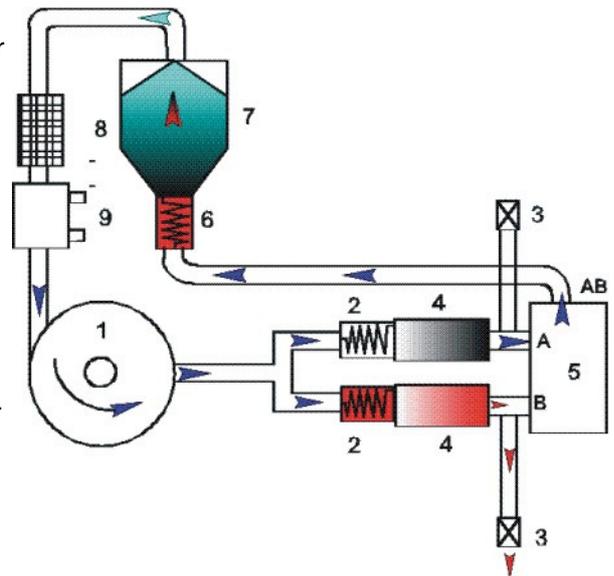
### Application Area

The GTT 50 EST is a compact Unicameral-Desiccant Dryer. He is suited to the fully automatic dry of all plastics if these do not emit volatile components\* other than water during the drying process. The dryer works in a temperature area of from 60 to 160 °C, + - 2 °C. Residual moisture of < 0.01 % can be achieved. He consists of the dry air producer, a heatable material container and an automatic control SPS which is located at the side arrange switch cupboard. The functional pattern (see sketch below) shows the drying process of the desiccant dryer. Besides, part airflows are escorted in parallel by two dry means chambers. A chamber is in the dry circulation and dehumidifies the air coming from the dry container. The second one is regenerated at the temperature of 280 °C. A time control which is built-in in the SPS provides for the automatic expiry of the regenerating, cooling and dry phases in the dryer.

\* 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:

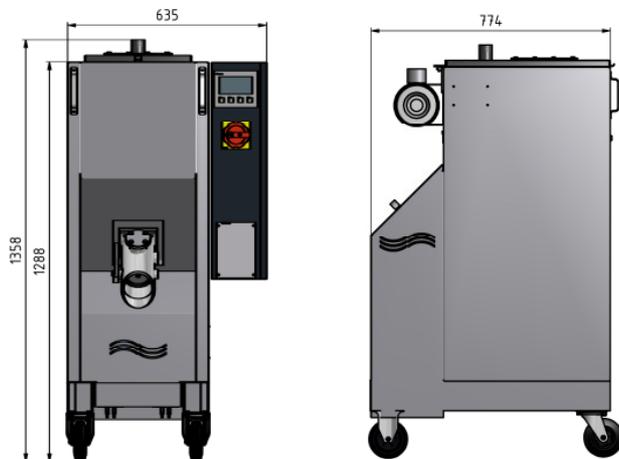
- Siemens Touchpanel 4,3" mit SPS S7-1200 CPU
- Mobile compact device with 50 litres of touching material containers and completely isolated inside containers
- Automatic control in the switch cupboard at the side fastened in the device
- Automatic blower caster on switching off the dryer
- Time switch
- Temperable granulate material container regulated by the integrated SPS
- Loos sieve container from stainless steel 1.4301
- Easily accessible, replaceable air filter
- Hand withdrawal equipment and suction conveyor connection admission in the outlet racketeer
- Bicameral dry air aggregate to the continous dry of the granulate material
- Air-to-air heat exchanger for the retur cooling- no water connection urgently



## Technical Data

### Mechanical Data

Dimensions (H/W/D) mm	1360x635x774
Cover filling height mm	1288
Weight in kg	171
Capacity in liter	50
Dry-bulb temperature in °C	60 - 160
Residual moisture in%	< 0,01
Drying capacity in kg / h	9 - 30



### Electrical Data

Connection load V / Hz	3 x 400 / 50
Power consumption in kW	5,75
Current consumption in A	10
Regeneration heater in kW	2
Granules heating in kW	2
Fan power in kW	0,22
Fan flow rate in m <sup>3</sup> / h	48



### Unicameral - Desiccant Dryer GTT 50 EST

The dryer is light grey with structural colour RAL 7004 and the switch cupboard and the lid of the conveyor is varnished in 7016 (darkly grey). If requested, against surcharge, other tones and and operation voltages can be chosen.

### Accessories

#### Dew point regeneration

The dew point sensor is built into the dryer. The dew point is shown in the SPS touch panel. The regeneration happens depending on the dew point. Due to the dew point dependent regeneration, it only takes a regeneration of the molecular sieve when the dew point rises above a certain value. Because of the extended cycling time of the regeneration a significant saving of energy is occurred.

#### 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 desiccant 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.