

# GRANULATE DRYER



## APPLICATION AND OPERATION:

The depicted vibration fluid bed dryer reduces the surface moisture on glass fibre reinforced plastic granulate (PP/PA). The product is passed with hot-air via a fluidization plate. This supports the conveying component of the vibration, fluidises the product and enables all over hot-air contact.

### Special features:

The plastic granulates to be processed are of very high quality and allow no soiling. The interior of the dryer is executed with plates of the surface quality 2B, according fillet welds were retreated to a roughness height  $Rz < 5\mu\text{m}$ . Specific attention was paid to the prevention of spots / corners collecting dirt. All angles  $< 90^\circ$  were executed with rounded corners. The fluidization plate is executed as a cartridge and divided into single segments, which are easy to handle. The cartridges are inside drawers which are held by hand locks on the outside of the machine. The product inlet area is reinforced and enlarges the endurance against wear and tear. All parts exposed to wear and tear are easily exchangeable. The impact area floor allows the product to spread quickly over the complete width of the dryer.

Throttle valves in the hot-air section guarantee an optimum distribution of the air. The hot-air-channel has an isolation. The co-vibrating air-exhauster has three hatches with viewing windows. A lamp in the interior of the dryer allows to watch the product during operation.

## TECHNICAL DATA:

Type:	DWF 1.300 x 3600
Length:	3.600 mm
Width:	1.300 mm
Drying area:	4,68 m <sup>2</sup>
Length:	3.600 mm
Drying product:	glass-fibre-reinforced polyimide and polypropylene-granulate
Grain size:	Æ 2-3 mm, cylindrical
Mass flow:	4.000 kg / h
Bulk density:	400 - 700 kg / h
Inlet moisture of product:	9,5 % relating to dry mass
Outlet moisture of product:	< 0,15 % relating to dry mass
Drying air:	hot-air
Inlet temperature:	120 °C
Outlet temperature:	< 40 °C

## YOUR BENEFIT:

- High efficiency
- Low energy consumption
- Compact design
- User friendly