

## DRYING INSTALLATION

<b>Suplier</b>	NIRO		
<b>Model</b>	SWIRL FLUIDIZER		
<b>Type</b>	SWF-6.3		
<b>Fabrication year</b>	1999		
<b>Working hours</b>	7500 h.		
<b>Dried Product</b>	Boron Nitrides cakes	Boron Nitride is a chemically inert material with high chemical stability, good electrical isolation properties, refractory and good lubricant properties	

### Equipment description

<b>Drier capacity</b>	10-75 Kg/h depending on chosen parameters		
<b>Material of construction</b>	AISI 304 y AISI 316 y AISI 316L parts in contact with the product		
<b>Separation system</b>	Teflón bag filters		
<b>Heating system</b>	Gas heater (max. Temp. 550°C)		
<b>Feeding system</b>	Spiral conveyer with automatic speed control from a 125 liters feeder container		
<b>Ventilation system</b>	Fan in a sound insulation box. Power: 5.5 KW		
	Air flow at 200°C		630 kg/h

**Technical data** (data shown for solid drying considering 56% humidity at 350°C at the entrance and 40°C at the exit).

	ASSAY CONDITIONS	EXTREME CONDITIONS
<b>feeding flow</b>	90 kg/h	120 kg/h
<b>Evaporation rate</b>	50 kg/h	66 kg/h
<b>Product capacity</b>	40 kg/h	53 kg/h
<b>Air flow</b>	559 kg/h	559 kg/h
<b>Inlet air temperatura (max.)</b>	350 °C	450 °C
<b>Outlet air temperature</b>	140 °C	140 °C
<b>Heat consumption</b>	52 kWh/h	68 kWh/h
<b>Compressed air consumption (Bag filters)</b>	11 Nm <sup>3</sup> /h	11 Nm <sup>3</sup> /h



At present. Bag filter and control screen



At present. Feed tank and drying chamber



Installation after mounted