2. Technical Data (Based on scope of supply of original delivery)

Contents:

2.1 General Data

Customer:	**BASF Corporation**
Machine Description:	**10M² Side Discharge Filter-Dryer**
Rosenmund Order No.:	**97-RF-415**
Machine No.:	**RSD 10-952-97**
Year of Manufacture:	**1997**
Weight of Equipment Empty:	**40,000 pounds**
Filtration Area:	**10M²**
Dimensional Drawing:	**97-RF-415**
Drive General Assembly Drawing:	**301.00883A**
Side Discharge Valve Assembly Drawing:	**301.00888A**
Hydraulic Diagram:	**97-RF-415-H1 through H5**

2.2 Pressure Vessel Data

Vessel Shell Outer Diameter:	**145-11/16"**
Maximum Working Volume:	**3,382 gallons**
Maximum Cake Volume:	**1,689 gallons**

	Vessel	Jackets	Agitator
Allowable Operating Pressure max/min psig:	60/FV	150/FV	145/0
Allowable Operating Temperature max min °F:	-20/+370	-20/+370	-20/+370
Design, manufacture and testing according to:	ASME Section VIII		
National Board No.:	27477		

2.3 Drive and Agitator Data

Drive:	**F-3**
Nominal stroke of agitator:	**500 mm**
Shaft diameter:	**220 mm**
Agitator type:	**3-arm heated S-blade**
Maximum agitator torque:	**50,000 Nm**
Agitator speed:	**2.5 - 7.5 RPM**
Electric motor drive:	**40 HP**
Electric motor hydraulic pack:	**5 HP**

2.4 Material of Construction

All parts in contact with product or liquid:	**T316L Stainless steel (DN1.4404)**
Jackets:	**T304L Stainless steel**
Rotary joint:	**Brass**
Other non product-contact parts such as frame, drive parts, guards, etc.:	**Carbon Steel**
Insulation material:	**Customer Installed**
Seals:	
Filter media:	**Filter media - T316L stainless steel, 20 micron, multi-layer Poremet** **Supporting screen - T316L stainless steel**
Mechanical seal:	**Product side seal - Kalrez** **Atmospheric - Viton** **Seat rings - Ceramic to carbon**
Side discharge valve:	**Vessel seat rings - T316L stainless steel** **Valve seat rings - Hastelloy** **Housing - T316L stainless steel**

2.5 Surface Treatment

Internal finish:	**Mill**
External finish:	**Glass bead**

Paints on carbon steel parts

Primer:	**Sherwin Williams Polane, NoE65 A 4**
Finish:	**Sherwin Williams Polane B No. F63BXL2270-4373, color blue**

2.6 Agreed Application

This machine is intended and designed for the following process steps:

WARNING !

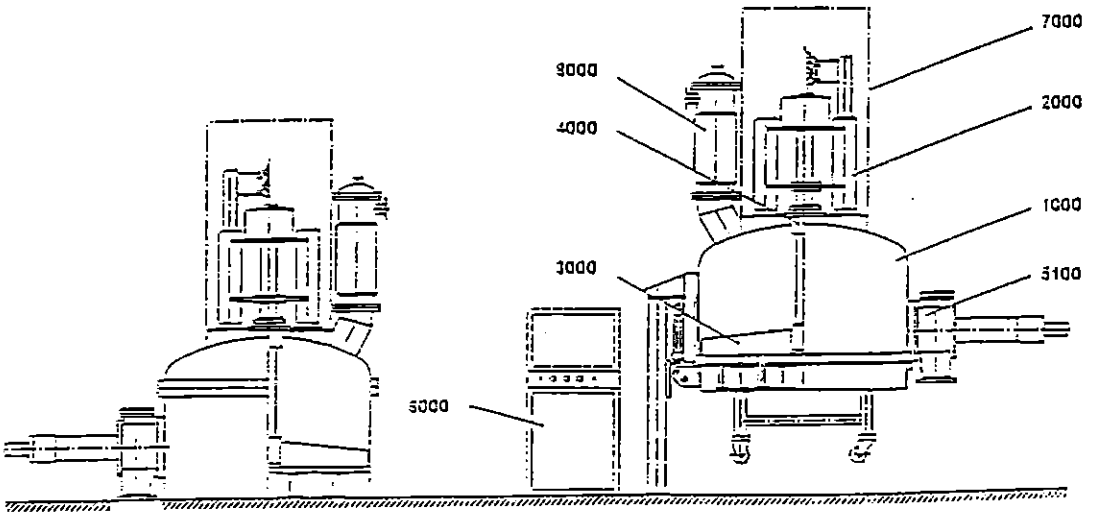
- Filtration
- Re-slurrying
- Smoothing
- Washing (re-slurry, displacement washing)
- Drying (only for filter-dryers)
- Discharge

The filter is designed exclusively for the above described process steps. Any further use which is not mentioned above is assumed as being not agreed. Damage resulting from such use is not the responsibility of the manufacturer, the risk is carried entirely by the user.

2.7 Summary of Modules

Machines without filter base lowering

Machines with filter base lowering



Module	Description
1000	vessel, filter base
2000	drive
3000	agitator
4000	shaft sealing
5100	discharge valve
6000	hydraulics and controls
7000	accessories
8000	peripheral equipment
9000	templates, tools, assembly material

2.8 Copyright

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ROSENMUND, INC. reserves the right to make any engineering changes to information and/or drawings contained in the handbook, deemed by ROSENMUND, INC. to be necessary for improvement of the machine.