

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

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2.1 General Data

Customer:

Machine Description:

Rosenmund Order No.:

Machine No.:

Year of Manufacture:

Weight of Equipment Empty:

Filtration Area:

BASF Corporation

10M² Side Discharge Filter-Dryer

97-RF-414

RSD 10-951-97

1997

40,000 pounds

10M²

Dimensional Drawing:

Drive General Assembly Drawing:

Side Discharge Valve Assembly Drawing:

Hydraulic Diagram:

97-RF-414

301.00882

301.00884

97-RF-414- H1 through H5

2.2 Pressure Vessel Data

Vessel Diameter:

145-11/16"

Maximum Working Volume:

3,382 gallons

Maximum Cake Volume:

1,689 gallons

Allowable Operating Pressure max/min psig:

60/FV

Jackets

<u>Agitator</u>

Allowable Operating Temperature max/min °F: -20/+370

Vessel

150/FV -20/+370 145/0 -20/+370

Design, manufacture and testing

according to:

ASME Section VIII

National Board No.:

27524

2.3 Drive and Agitator Data

Drive:

F-3

Nominal stroke of agitator:

600 mm

Shaft diameter:

220 mm

Agitator type:

3-arm, heated, S-blade

Maximum agitator torque:

50,000 Nm 2.5 - 7.5 RPM

Agitator speed:

40 HP

Electric motor drive:

40 HP

Electric motor hydraulic pack:

2.4 Material of Construction

All parts in contact with product or

liquid:

T304L Stainless steel (DN1.4306), low

moly

Jackets:

T304L Stainless steel (DN1.4306)

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 - T304L stainless steel (low moly), 40 micron multi-layer Poremet Supporting screen - T304L stainless steel

(low moly)

Mechanical seal:

Product side seal - Kalrez

Atmospheric - Viton

Seat rings - ceramic to carbon

Side discharge valve:

Vessel seat rings - T304L 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.