

2. Technical Data

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2.1 General Data

Customer (end user)	...
Machine description	<i>0.63m² Side discharge filter/dryer</i>
DDPS project number	<i>04-WO-597</i>
Serial number	<i>RFT0.63-367-85</i>
Year of manufacture	<i>1985</i>
Weight of equipment, empty	<i>7,000 pounds</i>
Nominal area	<i>0.63m²</i>
General arrangement drawing	<i>04-WO-597-GAD</i>
Hydraulic diagram	<i>597-01-H1 through H4</i>
Electrical diagram	<i>517-01-E01, K01 through K10</i>
Functional specification	<i>597-01-SK1</i>

2.2 Pressure Vessel Data

Vessel outside diameter	<i>41-3/8"</i>
Vessel inside diameter	<i>34-1/2"</i>
Total volume	<i>600 Liters (158 Gallons)</i>
Maximum fill volume	<i>490 Liters (129 Gallons)</i>
Nominal volume of cake	<i>180 Liters (48 Gallons)</i>
Side discharge opening	<i>10"</i>

<u>Vessel</u>	<u>Jackets</u>
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Allowable operating pressure	<i>FV/50 Psig 90 Psig</i>
Allowable operating temperature	<i>-20 /+302°F -20 /+302°F</i>
Design, manufacture and testing according to	<i>ASME, Section VIII</i>
National Board Numbers	<i><u>Vessel</u> 17678</i>

2.3 Drive and Agitator Data

Drive	<i>Special Chain Drive</i>
Nominal stroke of agitator	<i>300 mm</i>
Shaft diameter	<i>80mm</i>
Agitator type	<i>S - type, 2arms, non-heated</i>
Maximum agitator torque	<i>2,500 Nm</i>
Agitator speed	<i>0 – 30.0 RPM</i>
Electric motor hydraulic power pack	<i>10 HP</i>

2.4 Materials of Construction

All parts in contact with product or liquid	<i>316L Stainless Steel</i>
Heating area	<i>316L Stainless Steel</i>
Rotary joint	<i>NA</i>
Other non product-contact parts such as frame, drive parts, guards etc.	<i>Carbon Steel, painted</i>
Insulation jacket	<i>304L Stainless Steel</i>
Insulation material	<i>Mineral Wool</i>
Shaft Seal	<i>Double Gland Stuffing Box</i>
Stuffing box housing	<i>316L Stainless Steel</i>
Packing material	<i>Teflon</i>
O-Rings, Gasket	<i>Teflon encapsulated Viton</i>
Filter media	<i>Customer Supplied</i>
Backing screen	<i>Customer Supplied</i>
Side discharge port	<i>316L Stainless Steel</i>

2.5 Surface Treatment

Stainless steel parts

Internal finish

<Ra 0.4 micron (240 Grit) with pits

External finish

2B Mill / Sand blasted

Paints on carbon steel parts

Primer

Sherwin Williams Polane No. E65 A4

Finish

*Sherwin Williams Polane B No.
F63BXL7670-4373*

2.6 Agreed Use

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

WARNING !

- Filtration
- Re-slurrying
- Smoothing
- Washing (re-slurry, displacement washing)
- Drying
- Discharge



The filter/dryer 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.