



3.4 MAIN EQUIPMENT

Following are the technical specifications for the main equipment. For scope of supply see section 2.

028511-E001 LimeWhite

Manufacturer:	Andritz
Model:	WLF3709
Type:	Rotary, pressurized precoat disc
Disc diameter:	3700 mm
Number of discs:	9
Total Filtration area:	168.3m ²
Rotation:	0.5 - 3.0 r/min
Equipment size:	3700 mm dia. x 8076 mm length
Flooded Weight:	118 t
Design Conditions:	
Pressure:	2.0/-1 bar
Temperature:	110 °C
Specific Gravity:	1.2 kg/dm ³
Design code:	ASME
Drive:	Gear and v-belt
Filter comprises:	Pressure vessel with integrated lime mud slurry vat and mixing agitator, manholes and sight glasses Center shaft, antifriction center shaft bearing Mechanical seal Disc sectors Automatic advancing scraper Filtrate outlet valve with pneumatic blow-off device Air lift pumps Filter cloths Cake and cloth wash pipes Drive and motor base Seal water units for seals and filtrate valve
Materials of Construction:	
Pressure vessel:	EN1.4307 or similar stainless steel
Center shaft:	
Wetted parts:	EN1.4307 or similar stainless steel
Stub shaft:	EN1.4462 or similar stainless steel
Scraper blades:	Sintered hard metal
Valve:	EN1.4307 or similar stainless steel
Valve Wear Plate:	EN1.4162 or similar stainless steel
Valve seal:	Alloyed PTFE
Support saddle:	Stainless steel
Sectors:	EN1.4404 or similar stainless steel
Filter bags:	Polypropylene
Mixing agitator:	EN1.4162 or similar stainless steel
Motors:	
Main drive:	20 hp, 1000 rpm F.C.
Scraper drive:	0.13 kW, 1000 rpm F.C. (special motor)
Mixing agitator:	20 hp, 1500 rpm F.C.



F001 Filtration Compressor (Purchaser Supply)

Manufacturer: Sulzer or similar
Model: XL500
Capacity: 1135.0 l/s
Drive: V-belt
Compressor comprises: Pump, integral motor/pump base, drive, and guard
Materials of Construction:
 Housing/Rotor: Cast iron
 Base: Carbon steel
Motor: 350 hp, 1500 rpm

028521-T002 Filtration Compressor Separator

Manufacturer: Andritz
Model: 11-K
Size: 1100 mm dia. x 2300 mm
Volume: 1.68 m³
Design Conditions:
 Pressure: 2.0/-1 bar
 Temperature: 110 °C
 Specific Gravity: 1 kg/dm³
Design code: ASME
Separator comprises: Necessary connections for piping and sight glasses
Materials of Construction:
 Wetted parts: EN1.4307 or similar stainless steel
 Process Connections: EN1.4307 or similar stainless steel
 Flanges: Galvanized carbon steel

028521-F002 Booster Compressor (Purchaser Supply)

Manufacturer: Sulzer or similar
Model: XL80
Capacity: 200.0 l/s
Drive: V-belt
Compressor comprises: Pump, integral motor/pump base, drive, and guard
Materials of Construction:
Motor: 75 hp, 1500 rpm

028521-T003 Booster Compressor Separator

Manufacturer: Andritz
Model: 6-K
Size: 500 mm dia. x 1350 mm
Volume: 0.18 m³
Design Conditions:
 Pressure: 2.0/-1 bar
 Temperature: 110 °C
 Specific Gravity: 1 kg/dm³
Design code: ASME
Separator comprises: Necessary connections for piping and sight glasses
Materials of Construction:
 Wetted parts: EN1.4307 or similar stainless steel
 Process Connections: EN1.4307 or similar stainless steel



Flanges: Galvanized carbon steel

028521-T004 Dilution Water Tank (Purchaser Supply)

Manufacturer:
Model: DWT2525
Size: 2500 mm dia. x 2500 mm
Net Volume: 10.8 m³
Design Conditions:
 Pressure: 300/-50 mmH₂O
 Temperature: 110 °C
 Specific Gravity: 1 kg/dm³
Design code: EN14015
Manholes:
 Shell: One (1) 600 mm dia. with davit
 Roof: One (1) 600 x 600 mm, with grating for personnel protection
Connections: Necessary process and instrument connections
Attachments: None
Testing: Hydrostatic testing
Materials of Construction:
 Wetted parts: EN1.4307 or similar stainless steel
 Process Connections: EN1.4307 or similar stainless steel
 Flanges: Galvanized carbon steel
 Roof: EN1.4307 or similar stainless steel
Corrosion Allowance: None required

028521-T001 White Liquor Filtrate Vessel

Manufacturer: Andritz
Model: FV2230
Pressure vessel size: 2200 mm dia. x 3000 mm height (cylindrical section)
Flooded weight: 23.1 t
Design Conditions:
 Pressure: 2.0/-1 bar
 Temperature: 110 °C
 Specific Gravity: 1.16 kg/dm³
Design code: ASME
Materials of Construction:
 Pressure vessel: EN1.4307 or similar stainless steel
 Connections: EN1.4307 or similar stainless steel
 Supports: Carbon steel

028571-T002 Shrink Tank (Purchaser Supply)

Manufacturer:
Model: ST1220
Shape: Round
Size: 1200 mm width x 1200 mm length x 2000 mm height
Net Volume: 2.2 m³
Design Conditions:
 Pressure: 300/-50 mmH₂O
 Temperature: 110 °C



Specific Gravity:	1 kg/dm ³
Design code:	EN14015
Connections:	Necessary process and instrument connections
Internal Heating System:	Steam pipe
Attachments:	Shrinking frame
Testing:	Hydrostatic testing
Materials of Construction:	
Wetted parts:	EN1.4307 or similar stainless steel
Process Connections:	EN1.4307 or similar stainless steel
Flanges:	Galvanized carbon steel

028571-T001 Acid Tank (Purchaser Supply)

Manufacturer:	
Model:	AT2322
Size:	2385 mm dia. x 2250 mm
Net Volume:	9.1 m ³
Flooded weight:	12 t (estimated)
Design Conditions:	
Pressure:	300/-50 mmH ₂ O
Temperature:	110 °C
Specific Gravity:	1.04 kg/dm ³
Design code:	EN14015
Manholes:	
Shell:	One (1) 600 mm dia. with davit
Roof:	One (1) 600 x 600 mm, with grating for personnel protection
Connections:	Necessary process and instrument connections
Internals:	Baffles and steam pipe
Attachments:	Agitator support beams, flanged and bolted shaft seal, acid feed hopper with grate
Testing:	Hydrostatic testing
Materials of Construction:	
Wetted parts:	EN1.4404 or similar stainless steel
Process Connections:	EN1.4404 or similar stainless steel
Flanges:	Galvanized carbon steel
Roof:	EN1.4404 or similar stainless steel
Chequer plate:	EN1.4307 or similar stainless steel
Agitator Support Beams:	EN1.4404 or similar stainless steel
Corrosion Allowance:	None required

028571-A001 Acid Tank Agitator (Purchaser Supply)

Manufacturer:	Sulzer or similar
Type:	Vertical
Drive:	Gearbox, motor scoop, high speed coupling and coupling guard
Impeller:	
Type:	Two (2) bladed, adjustable pitch, axial flow
Shaft Connection:	Clamp joint with bolts
Shaft:	Flanged shaft, bolted to rigid half coupling
Materials of Construction:	
Shaft:	EN1.4307 or similar stainless steel
Impeller:	EN1.4307 or similar stainless steel