

BHS Sonthofen BF 100-065 Belt Filter

[Inventory ID #1436354]



BHS Sonthofen BF 100-065 Belt Filter

- Make: BHS Sonthofen
- Model: BF 100-065
- Type: Belt Filter
- Year: 2011
- Condition: Used Condition
- Usage: 1,000 Tonnes of Material Processed - Approx. 500 Service Hours

- General Model Specifications:
 - Filter Type:
 - Number: 1 per Line
 - Filter Type: BF 100 – 065
 - Filter Area: 6.5 m²
 - Material: Polypropylene
 - Product: SiC in PEG
 - Service Data:
 - Feed Medium: Pre-Thickened SiC Slurry in PEG
 - Final Product: SiC
 - Working Temperature: Approx. 60°C
 - Cake Thickness: Approx. 15-30 mm
 - Cake Washing: (4) Times, (1x) Fresh Water, (2x) Overflow Weir (Counter Current) and (1x) Steaming Hood
 - Belt Cleaning: Fresh Water at > 3 bar
 - Process Design:

- Inlet Belt Filter:
 - Inlet: Approx. 2 m³/h with 250 g/L Solid
- Filter Cake (Outlet Belt Filter):
 - Final Moisture: < 20 % for Dewatering by Vacuum < 15 % for Dewatering by Vacuum and Followed Cake Pressing
- Belt Cleaning:
 - Water Consumption: Approx. 600 l/h, Depending on Cycle Time (at 3 bar Water Pressure), (Max. 3.9 m³/h)
- Vacuum Pump:
 - Suction Capacity: Approx. 1900 m³/h at 400 mbar abs
- Cake Washing:
 - Water Consumption: Approx. 500-600 L on Nozzle System
- Technical Data:
 - I. Filter:
 - Total Width with Filtrate Pipe and Valves: Approx. 2.6 m
 - Total Length: Approx. 8.7 m
 - Total Height: Approx. 2.2 m
 - Weight: Approx. 5.0 t
 - Effective Belt Width: 1.0 m
 - Effective Belt Length: 6.5 m
 - Belt Forward Stroke: 0.5 m
 - Filtrate Zones: 13 Zones at 0.5 m
 - Zone Arrangement Selected (Variable):
 - Zone 1-2: Filtration
 - Zone 3-4: 1st Wash (Overflow Weir)
 - Zone 5-6: 2nd Wash (Overflow Weir)
 - Zone 7-9: 3rd Wash (Nozzle System)
 - Zone 10-11: Steaming
 - Zone 12: Pressing & Blowing
 - Zone 13: Dewatering
 - II. Media:
 - Compressed Air for Filter Drive: Max. 30 Nm³/h at 6 bar abs Pressurized Air, Water Free
 - Cake Pressing Device:
 - Pressing: 40 Nm³/h at 5 bar abs
 - Blowing: 50 Nm³/h at 3 bar abs
 - Vacuum Requirements for Sucking Operation: Approx. 1900 m³/h at 400 mbar abs
 - Belt Cleaning Liquid: Min. 3 bar
 - Steam: Saturated Steam at 120°C
 - Estimated Consumption: 200 kg/h
- Supplementary Equipment:
 - Discharge Chute
 - Drip Tray

- Cake Pressing Device
- Steaming Hood
- Suction Hood
- Vacuum and Filtrate Station:
 - Vacuum Pump:
 - Number: 1
 - Design: Liquid Ring Vacuum Pump
 - Model: CNN 1002
 - Supplier: CUTES
 - Suction Capacity: 1900 m³/h
 - Suction Pressure: 400 mbar abs
 - Suction Temperature: 40° C
 - Operation Liquid Consumption: 5 m³/h Fresh Water
 - Inlet Temperature: Max. 10° C
 - Recommended Frequency Converter: (Customer Supplied - Not Included)
 - Model: SEV-iS-550L3
 - Operation Freq: approx. 42.8Hz
 - Operation Liquid Separator
 - Filtrate Receiver
 - Filtrate Pump:
 - Supplier: Almatec
 - Type: E25-EEE-F3
 - Capacity: Approx. 4.5 m³/ h
 - Lifting Height: 20m Liquid Column
 - Base Frame
 - Sound Damper

- Location: Western Canada

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