

[BHS Sonthofen BF 100-065 Vacuum-Belt Filter](#)

[Inventory ID #1377088]



BHS Sonthofen BF 100-065 Vacuum-Belt Filter

- Belt Filter:
 - Model: BF 100-065
 - Year: 2011
 - Condition: Used, Reported in Good Condition
 - Material: Stainless Steel, Polypropylene Wetted Parts
 - Filter Surface: 6.5m²
 - Filter Width: 1,000mm
 - Filter Length: 6,500mm
 - Belt Forward Stroke: 500mm
 - Filtrate Zones: 13 Zones at 500mm
 - Weight: 4,400kg
- Service Data:
 - Feed Medium: Pre-Thickened SiC Slurry in PEG
 - Final Product: SiC
 - Working Temperature: Approx. 60°C
 - Cake Thickness: Approx. 15-30mm
 - Cake Washing: 4 Times; 1x Fresh Water, 2x Overflow Weir (Counter Current), 1x Steaming Hood
 - Belt Cleaning: Fresh Water at > 3 bar
- Process Criteria:
 - Mode of Operation: Continuous
 - Operating Pressure: Vacuum
 - Operating Temperature: Up To 90°C
 - Solids Content (Suspension): Up To 50% (Weight)
 - Cake Thickness: Up To 50mm
 - Particle Size: 1-100µm
 - Filtration Capacity: Suspension up to 10 m³/m² h

- Filtration Capacity: Dry Solid up to 1,000 kg/m² h
- 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: Approx. 1900m³/h at 400 mbar abs
 - Belt Cleaning Liquid: Min 3 bar
 - Steam: Saturated Steam at 120°C
 - Estimated Consumption: 200 kg/h
- Design of the Filter:
 - Feeding Part: 1.5m Long Active Length
 - Central Part: 3.5m Long Active Length
 - Discharge Part: 1.5m Long Active Length
 - Materials:
 - Vacuum Trays: Polypropylene
 - Frame: Steel, Painted
 - Bolted Connections: Stainless Steel
 - Seals: WS 3820 / PTFE / EPDM
- Vacuum Pump:
 - 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: 5m³/h Fresh Water
 - Inlet Temperature: Max 10°C
 - Materials: Stainless Steel 1.4408
 - Sealing: Gland Packing
 - Shaft Power: Approx. 38kW
 - Motor Power: 55kW
 - Speed: Approx. 840 RPM
 - Power Supply: 400/690 Volt, 50Hz, 3-Phase
 - With 75HP Allen Bradley VFD
 - Motor Supplier: Seva-Tec
- Operation Liquid Separator:
 - Material: Stainless Steel 316
 - Dimensions: 600mm x 1800mm
- Filtrate Receiver:
 - Material: Polypropylene/GRP
 - Diameter: 700/1400mm
 - Cylindrical Height: 2000/2200mm
- Filtrate Pump:

- Design: Double Acting Membrane Air Pressure Pump
- Supplier: Almatec
- Type: E25-EEE-F3
- Capacity: Approx. 4.5m³/h
- Lifting Height: 20m Liquid Column

- Location: Western Canada

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