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Located just 20 minutes west of Kamloops, BC

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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