

## Veolia Actiflo High Rate Ballasted Clarifier Package [Inventory ID #1432336]



### Veolia Actiflo High Rate Ballasted Clarifier Package

- Make: Veolia Water Technologies
- Model: Actiflo Clarifier ACP2-55 (Mark III)
- Type: High-Rate Ballasted Flocculation System
- Year: 2023
- Condition: Unused, New Surplus - Sealed in Original Packaging
- Includes:
  - Actiflo Clarifier ACP2-55
  - HydraPol Polymer Preparation System
  - Polymer Dosing Skid
  - Coagulant Dosing Skid
  - Caustic Soda Dosing Skid
  - Water Heater
  
- Actiflo Clarifier General Information:
  - Technology: ACTIFLO
  - Type: TURBO
  - Model: ACP2-55
  - Nominal Characteristics:
    - Nominal Flowrate per Unit: 6,000 m<sup>3</sup>/d (@ 40 m/h)
    - Nominal Settling Velocity per Unit: 40m/h
    - Max. Capacity per Unit (Hydraulic): 12,000 m<sup>3</sup>/d (@ 80 m/h)
    - Retention Time at Nominal Flowrate:
      - Extended Coagulation: 2.06 min
      - Coagulation: 2.06 min
      - Flocculation: 6.20 min

- Technical Specifications:
  - Extended Coagulation:
    - Basin Dimensions:
      - Length: 1899mm
      - Width: 1521mm
      - Water Depth: 2973mm
    - Mixer:
      - Manufacturer: VWTC
      - Model: EVGX3-2.0
      - Impeller: 1
      - Weight: 143kg
      - Rotation/Direction of Thrust: Counterclockwise/Up
      - Material and Grade: AISI 304/304L
    - Motor:
      - Power: 2HP
      - Type: TEFC Premium Efficiency
      - Manufacturer: Nord
  - Coagulation:
    - Basin Dimensions:
      - Length: 1899mm
      - Width: 1521mm
      - Water Depth: 2973mm
    - Mixer:
      - Manufacturer: VWTC
      - Model: EVGX3-2.0
      - Impeller: 1
      - Weight: 179kg
      - Rotation/Direction of Thrust: Clockwise/Down
      - Material and Grade: AISI 304/304L
    - Motor:
      - Power: 2HP
      - Type: TEFC Premium Efficiency
      - Manufacturer: Nord
  - Flocculation:
    - Basin Dimensions:
      - Length: 2850mm
      - Width: 3048mm
      - Water Depth: 2973mm
    - Mixer:
      - Manufacturer: VWTC
      - Model: EVGX4-5.0
      - Impeller: 1
      - Weight: 227kg
      - Rotation/Direction of Thrust: Clockwise/Down

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- Material and Grade: AISI 304/304L
  - Motor:
    - Power: 5HP
    - Type: TEFC Premium Efficiency
    - Manufacturer: Nord
  - Settling:
    - Basin Dimensions:
      - Length: 3047mm
      - Width: 3048mm
      - Total Depth: 2973mm
    - Scraper:
      - Manufacturer - Drive: SEW Eurodrive
      - Model - Drive: RF87 R57 AR71/W DRN80MK4/C/DH/RI
      - Manufacturer - Reducer Drive - 3rd Stage: VWTC
      - Model - Reducer Drive - 3rd Stage: Gear Ratio 4.59:1
      - Running Torque: 2022 Nm
      - Rotation: 0.63 RPM
      - Drive Tube Diameter: 150mm (6in)
      - Material: AISI 304/304L
      - Torque Monitor: SEW Eurodrive FR-1
    - Motor:
      - Power: 0.75HP
      - Type: TEFC Fractional
      - Manufacturer: SEW Eurodrive
    - Settling Tubes:
      - Brand/Model: SECCO
      - Material: PP K8003
      - Thickness: 60 mils
      - Height: 610mm (24in)
      - Angle: 60°
      - Hydraulic Diameter: 85mm (3.35 po)
    - Troughs:
      - Material: AISI 304/304L
      - Quantity: 2
  - Microsand Recirculation:
    - Pump:
      - Manufacturer: McLanahan
      - Model: M3H-CRD 2/2
      - Seal Type: Dry Gland
      - Flow: 35.0m³/h
      - Head: 20.20m
      - Quantity per Unit: 2
      - In-Duty / Duty Assist / Standby: 1 / 0 / 1
      - Max. Number of Pumps In-Service Simultaneously: 1
    - Motor:

- Power: 10HP
- Type: TEFC Premium Efficiency
- Manufacturer: WEG
- Hydrocyclones:
  - Manufacturer: Krebs
  - Model: U6-10-1758
  - Quantity per unit: 2
  - Hydrocyclones Support Material: AISI 304/304L
- Microsand Recirculation Piping:
  - Diameter: 100mm (4in)
  - Number of Lines per Unit: 2
  - Material: Galvanized Steel and Abrasion Resistant Hose  
Stainless Steel 304 under Settling Tank
- Effective Size of Microsand: 120-135 microns
- First Fill Required Mass: 430kg
- Connections:
  - Flanges: Flange 1/2" Thick, OD & Bolt Pattern as per ASME B16.5 #150
  - Inlet Diameter: 350mm (14in)
  - Hydrocyclone Sludge Outlet Diameter: 100mm (4in)
  - Polymer Dosing Inlet Diameter: 20mm (0.75in)
  - Lamella Air Cleaning Inlet Diameter: 80mm (3in)
  - Extended Coagulation Drain Diameter: 50mm (2in)
  - Flocculation Drain Diameter: 50mm (2in)
  - Partial Drain Diameter: 100mm (4in)
  - Outlet Diameter: 400mm (16in)
- Drainage:
  - Sludge Discharge Per Cyclone: 35m<sup>3</sup>/h
  - Max. Sludge Discharge per Cyclone: 28.0m<sup>3</sup>/h
  - Instant Max. Flow - Partial Drain: 43L/s
- Power Feed Requirements:
  - Power: 575 Volt, 3-Phase, 60Hz
  - Controls: 120 Volt, Single-Phase, 60Hz
  - Junction Box Type: NEMA 4X
- Dimensions & Weights:
  - Length: 9,478mm (373.2in)
  - Width: 3,638mm (143.3in)
  - Height: 4,811mm (189.4in)
  - Shipping Weight (Dry): 13,500 Kg (29,835 Lbs.)
  - Installed Weight (Full of Water): 85,750 Kg (189,508 Lbs.)



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- Location: Northwest Canada

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