

P.O. Box 176, Savona, BC, Canada V0K 2J0 Phone: (250) 373-2424 Fax: (250) 373-2323

Website: savonaequipment.com Email: sales@savonaequipment.com

Located just 20 minutes west of Kamloops, BC

Modular Water Treatment Plant

[Inventory ID #1154169]



Modular Water Treatment Plant

Make: BCA (Corix)Model:ST-1100-3

• Throughput: 1.2 Million Gallons Per Day

Triple Train

For Mining Process Water, Agriculture or Water Treatment Use

• Condition: New Surplus, Never Put Into Operation

Flow Rates:

Nominal: 367 GPM Per Train (23.1 L/s)

∘ Total Flow (3 Trains) = 1,100 GPM Total (69.3 L/s)

Hydraulic Loading

Clarifier: 1.61 GPM/Ft²
Filter: 3.95 GPM/Ft²

Detention Time:

Flocculator: 14 MinutesClarifier: 31 MinutesFilter: 8 MinutesTotal: 53 Minutes

Plant Description: The BCA Model ST-1100-3 Water Treatment Plant is designed to treat raw water for the removal of color, turbidity and other impurities and to provide a high-quality effluent for potable and domestic use. The plant combines the time proven principles of mixing, coagulation, flocculation, tube settler assisted clarification and high-rate filtration. The treatment process is a completely automatic, gravity flow operation. It consists of three process trains each rated to treat 367 gallons per minute and comprising the following components:



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- Raw Water Flow Control.
- Chemical Coagulation and Rapid Mixing for:
 - Liquid Alum as Primary Coagulant
 - Soda Ash for pH Adjustment
 - · Polymer Coagulant Aid.
- Mechanical Flocculation (14 minutes Detention with Tapered Flocculation)
- Clarification Within a Tube Settler 31 Minutes Detention, 1.61GPM/Ft² Average Rise Rate at Maximum Flow.
- Filtration Through Dual Media Filter With Maximum Loading of 3.95 GPM/Ft² Post Treatment Soda Ash and Sodium Hypochlorite Injection
- Components
 - Control Valves
 - Bray 31/108 Butterfly Valve c/w Bray 70 Modulating Electric Actuator (Inlet, Rinse and Effluent)
 - Bray 31/108 Butterfly Valve c/w Bray 70 On/Off Electric Actuator (Desludge, Air Scour)
 - Bray 31/108 Lug Style Butterfly Valve c/w Lever Operator (Inlet Isolation, Outlet Isolation)
 - Cla-Val #43G-OID Rate of Flow and Solenoid Shut off Valve (Filter Backwash)
 - Hayward Rapid Mixer
 - Wika #S- 10 Loss of Head Transmitter and Indicator Assembly (Filter)
 - Baldor SCR Flocculator Drive Motor
 - DC Motor Speed Control
 - Hub City Worm Gear Reducer
 - MRI Tube Settling Modules
 - Non-Clog Orthos Nozzles
 - · Goulds Effluent Pump
 - Goulds Backwash Pump
 - Apco Double Door Check Valve (Air Scour)
 - ABB Mag-Flowmeter
 - Hach 1720E Turbidimeter
 - Miltronics "The Probe"
 - Chemical Feed System:
 - LMI Metering Pump (Coagulant, Soda Ash, Polymer & Hypochlorite)
 - J&L Poly Tanks (Coagulant, Soda Ash, Polymer & Hypochlorite)
 - Wingert Mixer, 1750 RPM, 1/4 HP (Soda Ash)
 - Wingert Mixer, 350 RPM, 1/3 HP (Polymer)
- Packaged Plant Control Panel
 - Plant Shall Be Supplied With A NEMA 12 Control Panel c/w Allen Bradley SLC 5/03 PLC
 - Control Panel Shall Allow Automatic Operation of All Packaged Plant Systems;



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Control Valves, Chemical Pumps, Rapid Mixer, Flocculators, Backwash Operation; Etc.

• All Equipment Shall Have Individual HOA Selector Switches and Indicator Lights

• Location: Southern USA

View More Water Treatment Plants