

HYDROPRO, INC. TECHNICAL SPECS

B₂FS SERIES

BRACKISH WATER TO FRESHWATER SYSTEM

CAPACITIES:
5,000 TO 240,000 USGPD
(18.9 TO 908.4 M³D)



OPERATING FEATURES

Produces low TDS water utilizing low pressure spiral wound Reverse Osmosis Process.

4" or 8" diameter thin film composite membranes available with element rejections from 95% to 98.5%.

Instrument board containing all process instruments, gauges and recorder.

Control panel includes ON/OFF control power switch for instant start-up/shutdown of unit.

Pre- and post-flushes to minimize water hammer and remove supersaturated solutions.

Automatic shutdown on high storage level and automatic start-up on predetermined level or operator initiated actions.

Extensive test points and sample valves for ease of data collection and trouble shooting.

Grooved type cleaning connections for easy maintenance/cleaning with independent stage by stage cleaning operation.

Atmospheric break in product line during cleaning to eliminate cross-connection to process water.

Unattended operation possible, requires only daily data collection and scheduled preventative maintenance program.

RESISTANCE TO CORROSION

Fiberglass reinforced plastic (FRP) for structural skid members, membrane shells, control panel and membrane support.

All low pressure pipe, hose and fittings constructed of inert thermoplastics.

All high pressure pipe and fittings constructed of 316L SS.

GENERAL OPERATING SPECIFICATIONS

Inlet Water Salinity: up to 3500 mg/l Total Dissolved Solids (higher salinities, consult Hydropro, Inc.).

Inlet Water Pressure: 25-60 psig (2-4 kg/cm²).

Inlet Water Temperature: 35° F - 113° F (1° C - 45°C).

Inlet Silt Density Index: Less than 4.

Turbidity: Less than 1 NTU.

Pretreatment: 5 Micron Filtration, scaling and fouling protection as required for particular application.

Nominal Salt Passage: 2 to 5% (varies with temperature, pressure and feed water composition).

Transmembrane Pressure: 175-250 psig (12-17 kg/cm²).

Product (Permeate) pressure: up to 15 psig (1 kg/cm²).

Electric Characteristics: 230/460V, 3 Phase, 60 Hz standard (other voltages and 50 Hz available).

Environment: Ventilated, indoors, ambient temperature less than 122°F (50°C) and shielded from direct sunlight.

OPTIONAL ACCESSORY EQUIPMENT

- ◆ MEDIA FILTERS
- ◆ CHEMICAL FEED SYSTEMS
- ◆ pH INDICATOR AND pH RECORDER FOR INLET WATER pH
- ◆ AUTOMATIC INLET VALVE
- ◆ RAW WATER BOOSTER PUMP
- ◆ FRP FORCED DRAFT DEGASIFIER W/ CATCHMENT TANK.
- ◆ SS MICRON FILTER WITH 5 MICRON POLYPROPYLENE CARTRIDGES
- ◆ TRANSFER PUMP
- ◆ STORAGE TANK
- ◆ HYDROPNEUMATIC SYSTEMS WITH CONTROLS
- ◆ HIGH SERVICE PUMPS
- ◆ CLEANING SYSTEM
- ◆ TEST EQUIPMENT
- ◆ SPARE PARTS