

SW288GPD-PX-C

FACT SHEET

LOW PWR COMPSUTION

We use the most efficient energy recover y unit with average power consumption of 7.2-8.2 Kwh/1000 gallons.

NETWORK READY

We provide an Ethernet port in our PLC so you can connect and pull all the information you need.

LOW NOISE

We use low rpm motor for the RO pump. This reduces substantially the noise level making the system surrounds a much better place to work.



This specification defines the integrated design requirements for the SW-C line of containerized systems for the Industrial, Power and Municipal markets. All necessary equipment required for independent operation is provided given the necessary pretreatment precautions are taken.

Design basis includes containerized system with axial piston pump as well as a containerized media filter and cartridge filter system. Optional configurations available based on market needs.

DESCRIPTION:

Single pass, single stage, twelve pressure vessels total. Each pressure vessel contains 7 thin-film composite elements in series for a total of 84. System produces 1,000 m3/day (45 m3/hr, 200 gpm) of product water at 40% recovery.

OPERATING PARAMETERS:

- TDS..... 37,000-45,000 mg/l (as NaCl)
- SDI15.....< 3.0
- Temperature..... 25 to 35°C (77 to 95°F)
- Recovery 40 to 36%
- Nominal Rejection >98%

Note: Required 3bar (45psi) minimum customer supplied pressure to high pressure RO Feed Pump. Temperatures and high salinities will reduce system productivity.

COMPONENTS:

- Container designed for oversea transportation
- High Pressure Centrifugal RO Feed Pump w/ 400/460V 3 phase 50/60 Hz TEFC motor
- Energy Recovery Device and Booster Pump
- VFD for Booster Pump & RO Feed Pump
- Valves:
- Permeate diversion valves,
- Diaphragm valve for ERI reject out
- isolation butterfly valves

CONTROL AND POWER:

- AB Micro PLC 6-inch
- 6-inch Quickpanel HMI
- Remote start/stop & alarm capabilities
- Zero recovery flush on shutdown
- Power: 400/460V, 3 phase, 50/60Hz

TECHNICAL SUPPORT

Commissioning, Start-up, operators training, maintenance training, retrofits and modernization are available.

ZERO DOWNTIME

We supply all the basic two years critical spare parts with our units. Also we use very well know and proved components in all of our systems.

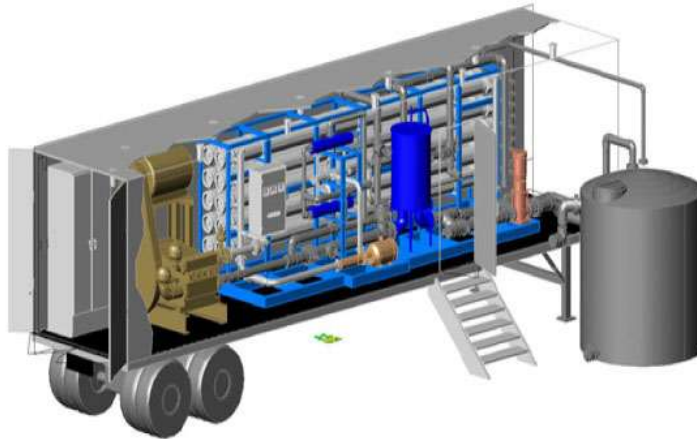
TURNKEY SOLUTIONS

We can provide the basic RO systems plus all pretreatment and Post treatment such us:

- Chemical injection systems
- Multimedia systems.
- Calcite contact tanks
- Ozono generators
- UV disinfection
- H2S removal

For more information on any of our products or services please visit us on the Web at:
www.advances.com

Service Features and Benefits



INSTRUMENTS:

- Conductivity..... Permeate, Final product.
- Flow meters..... Energy recovery feed, Permeate, Booster pump discharge.
- Pressure switch.....RO Feed and discharge pump
- Pressure gauges.....Liquid filled for high and low pressures
- Gauge Panel Four low and three high
- Pressure readings available via 5 way valves for pressure monitoring

MEMBRANE AND HOUSINGS

- Multi Ported FRP pressure vessel design, 1000psi rated
- Spiral wound thin film composite membranes 98% nominal salt rejection.

MATERIALS OF CONSTRUCTION

- Power Distribution PanelsNEMA 12
- Control Enclosure NEMA 4X
- High pressure piping2205 SS
- Low pressure pipingPVC Sch 80
- Low Pressure Tubing..... Polyethylene
- High Pressure Tubing.....Parflex
- PVC Sample Valves on each vessel, feed, permeate and reject

OPTIONALS

- Pretreatment Container with multimedia 480" L x 96" W x 96" H
- ASME Code stamped pressure vessels
- Post-treatment degasifier
- 400 V, 3 Ph, 50 Hz fuse, A/C, Lighting kit
- pH meter and H2SO4 chemical feed
- NaOCl pretreatment chemical feed
- SBS chemical feed
- Installation and commissioning
- Supervision/services are available

PHYSICAL DATA & DIMENSIONS:

- Dry Weight: 18500 lbs (8392Kg)
- Dimensions Container 480" x 96" x 96".
- Dimensions Unit 290" x 52" x 67"
- Piping Connections:
- Feed 6"
- Permeate 3"
- Reject 4"
- Power consumption: 7.2 – 8.2 Kwh/1000 Gallons.