

Global provider of custom skid-mounted water purification equipment

LOW PWR COMPSUTION

We use the most efficient energy recover y unit with average power consumption of 10-14 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.

CONTAINERIZED:

System is build inside the standard ISO 20 feet acoustic and thermal isolated container proving a robust and reliable housing for the delicate equipment inside and expediting the deployment and commissioning of the system substantially.

SW50000GPD-TURBO-C FACT SHEET





DESCRIPTION:

Single pass, single stage, three pressure vessels total. Each pressure vessel contains 4 thin-film composite elements in series for a total of 12. System produces 190 m3/day (50000 GPD or 34.7 gpm) of product water at 45% recovery.

OPERATING PARAMETERS:

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

- 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 duplex centrifugal pump as well as a containerized media filter and cartridge filter system.
- Optional configurations available based on market needs.

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 Turbo Charger
- VFD for RO Pump & RO Feed Pump
- Digital flowmeteres
- PLC
- Pressure switches: High and low
- Isolation butterfly valves
- Integral permeate flush and CIP system

CONTROL AND POWER:

- PLC with Ethernet card and spare cards
- 6-inch HMI
- Remote start/stop & alarm capabilities
- Zero recovery flush on shutdown
- Power: 400/460V, 3 phase, 50/60Hz



Global provider of custom skid-mounted water purification equipment

Service Features and Benefits

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 Panels	NEMA 12
•	Control Enclosure	. NEMA 12
•	High pressure piping	.316L SS
•	Low pressure piping	PVC Sch 80
•	Low Pressure Tubing	Polyethylene
•	High Pressure Tubing	.Parflex
•	Pressure vessel rack	.Marine- anodize- Aluminum
•	PVC Sample Valves on each vess	sel, feed, permeate and rejec
•	Multimedia Filters	FRP

OPTIONALS

- 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
- NaOCI pretreatment chemical feed
- SBS chemical feed
- Installation and commissioning
- Supervision/services are available

INSTRUMENTS:

- Conductivity...... Permeate, Final product.
- Flow meters digital..... Feed and Permeate.
- Pressure switch.....RO Feed and discharge pump
- Pressure gauges.....Liquid filled for high and low pressures

ALARMS:

- Low pump suction pressure
- High pump pressure discharge
- · Permeate water quality
- · Low permeate flow
- High permeate flow
- Low reject flow
- Low/high voltage
- Phase protection
- Pump motor overload
- High membrane feed pressure
- Chemical tank protection level
- Flush storage tank level protection

PHYSICAL DATA & DIMENSIONS:

- Dry Weight: 18500 lbs (8392Kg)
- Dimensions Container 240" x 96" x 96".
- Piping Connections:

Feed 2-1/2" Permeate 1-1/2" Reject 2"

 Power consumption: 10–814 Kwh/1000 Gallons.

Desalination

Ph. 954-857-1895

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 desinfection
- H2S removal

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