

COSMOS - A complex, orderly, harmonious system.

Cosmos

Commercial Reverse Osmosis Unit



A NEW GENERATION OF R.O. UNITS

CANADIAN DESIGNED & MANUFACTURED

ALL INSTRUMENTATION AT EYE HEIGHT

QUICK DELIVERY



STANDARD FEATURES:

- Canadian Designed and Manufactured
- Production Rates based on 15 C Feed Temperature
- ROSA Computer Projection with each unit
- Maximum Internal Flow Velocity of 10 Ft/Sec
- All Membranes Fitted from Top of Housing
- All Membranes meet Manufacturers Minimum/Maximum Flow Rates
- High Pressure Pump Meets Manufacturers Suction and Discharge Requirements
- Recirculation Loop to : "Inlet of Pre-Filter"
- All Instrumentation at Eye Height
- Powder Coated Steel Frame
- Stainless Steel Membrane Vessels
- Manual Flush, 5 minutes
- Manual Run Override, 5 minutes
- Inlet Feed Solenoid
- Corrosion Resistant
- Manual Over-Ride
- Low Pressure Pump Protection
- Control Panel Includes:
 - Controller: Start Up/Shutdown Flush, Pump Running, Low Pressure, Tank Full, Pre-Treat Lockout
 - Flow Meters: Product, Adjustable Reject, and Adjustable Concentrate
 - Gauges: "Pre-Filter Pressure" and "Post-Filter Pressure"
 - Gauges: "Membrane Feed Pressure" and "Trans-Membrane Pressure"

OPTIONS & ACCESSORIES:

- Stainless Steel High Pressure Pump
- Membrane Housings of PVC or FRP
- Controller with TDS Monitor, Audible Alarms, and 4 Line 20 Character Display
- Storage Tank: Bladder, 120 Gallon Minimum
- Storage Tank: Various Sizes
- Leak Protection Lockout
- Float Switches
- Re-Pressurization Pumps and Tanks
- Shipping Crate
- Pretreatment: Softeners, Carbon Filters, Anti-Scalant Feed, Etc.

FEED WATER REQUIREMENTS:

The LSI of the Concentrate/Reject must be a negative number [< Zero]

Hardness, Barium, Boron, Fluoride, & Strontium must be controlled!

No Chlorine, Iron, Manganese, H₂S, Bacteria.

Feed Water Flow must be > Combined Product and Reject Flows

Minimum Feed Pressure: 40 PSI

Maximum Feed Pressure: 80 PSI

Maximum Feed Temperature: 30°C

Note: All of the above requirements must be met, for warranty.

Note: Drain must be capable of accepting total flow of reject plus permeate.

SPECIFICATIONS:

	TDS < 300 Mg/L	TDS < 800 Mg/L	TDS < 800 Mg/L	TDS < 800 Mg/L	TDS < 800 Mg/L
MODEL #	RO-4040-1	RO-4040-1A	RO-4040-2A	RO-4040-3A	RO-4040-4A
GALS/DAY at 15C, 75% Rec. Inlet feed pressure of 60 psi.	2,000	2,200	4,000	5,800	7,600
MEMBRANES / ARRAY	4040 XLE [1]	4040 XLE [1]	4040 XLE [1-1]	4040 XLE [1-1-1]	4040 XLE [1-1-1-1]
MEMBRANE HOUSINGS	304 SS	304 SS	304 SS	304 SS	304 SS
PRE-FILTER	20" 10 MICRON	20" 10 MICRON	20" 10 MICRON	20" 10 MICRON	20" 10 MICRON
PUMP MULTI-STAGE	1/2 HP	3/4 HP	3/4 HP	3/4 HP	3/4 HP
ELECTRICAL: 60 Hz 1 PH	115V 8 AMPS	230V 8 AMPS	230V 8 AMPS	230V 8 AMPS	230V 8 AMPS
DIMENSIONS	26" w x 20" d x 66" h	26" w x 20" d x 66" h	26" w x 20" d x 66" h	26" w x 20" d x 66" h	26" w x 20" d x 66" h
WEIGHT	140 LBS	150 LBS	165 LBS	180 LBS	195 LBS
PRODUCT CONNECTION	1/2" OD	1/2" OD	5/8" OD	5/8" OD	5/8" OD
REJECT CONNECTION	1/2" OD	1/2" OD	5/8" OD	5/8" OD	5/8" OD
INLET CONNECTION	3/4" FPT	3/4" FPT	3/4" FPT	3/4" FPT	3/4" FPT

Ask about our "B" Series units, for TDS levels below 1,600 mg/L, and our "C" Series, for TDS levels below 3,200 mg/L

DEALER: