

# Oceana™ Seawater RO



Graver's Oceana™ Reverse Osmosis Systems are pre-engineered to economically produce potable water from seawater by removing dissolved minerals, particles, and organic impurities at the lowest possible energy consumption. Each reverse osmosis system is specifically customized to the needs of your application and are compact with full integration for the ease of installation, operation, and maintenance.

## Standard Design Features

- Duplex stainless steel centrifugal pump
- Duplex ss Energy Recovery Turbine
- 316 stainless steel plunger pump
- Duplex ss high pressure piping and fittings
- 316 ss epoxy coated cartridge prefilter
- Extra high rejection, TFC 8"x40" sw membranes
- Liquid filled, 316 ss pressure gauges
- High pressure piping: 316L SS sch.# 40
- Low pressure piping: PVC sch.#80
- Fiberglass 1000 psi pressure vessels
- Automatic permeate flush system
- Programmable Logic Controller (PLC)
- Nema-4X electric enclosure
- Permeate TDS monitor/controller
- Digital display flow meters (rate and total)
- High/Low pressure safety switches
- 460V/60HZ/3PH, TEFC motor
- Automatic inlet shut-off valve
- Emergency Stop
- Sample Valves
- Cleaning Ports

## Optional Design Features

- Upgrade prefilter to fiberglass
- Chemical dosing systems
- 50 HZ system
- Additional TDS monitor/controller
- pH monitors/controller
- ORP monitors/controller

## Typical Applications:

- **Potable Water**
- **Irrigation**
- **General Industry Needs**



# Oceana™ Seawater RO 5 - 360 gpm



## Specifications

| Model      | Productivity |         |                   | Recovery | No. of 8'x40' Membranes | Port Size (in) |       |        | Motor HP |       |
|------------|--------------|---------|-------------------|----------|-------------------------|----------------|-------|--------|----------|-------|
|            | GPM          | GPD     | M <sup>3</sup> /D |          |                         | Inlet          | Perm. | Reject | 60 Hz    | 50 Hz |
| Oceana-5   | 5            | 7,200   | 27                | 23%      | (2)                     | 1.5"           | 0.75" | 0.75"  | 15       | 15    |
| Oceana-10  | 10           | 14,400  | 55                | 35%      | (4)                     | 1.5"           | 1.0"  | 0.75"  | 25       | 25    |
| Oceana-15  | 15           | 21,600  | 82                | 40%      | (6)                     | 1.5"           | 1.0"  | 1.0"   | 30       | 30    |
| Oceana-30  | 30           | 43,200  | 164               | 40%      | (12)                    | 2.0"           | 1.5"  | 1.5"   | 50       | 50    |
| Oceana-45  | 45           | 64,800  | 245               | 40%      | (18)                    | 3.0"           | 2.0"  | 1.5"   | 75       | 75    |
| Oceana-60  | 60           | 86,400  | 327               | 40%      | (24)                    | 3.0"           | 2.0"  | 2.0"   | 100      | 100   |
| Oceana-75  | 75           | 108,000 | 409               | 40%      | (30)                    | 4.0"           | 3.0"  | 2.0"   | 125      | 125   |
| Oceana-90  | 90           | 129,600 | 491               | 40%      | (36)                    | 4.0"           | 3.0"  | 2.0"   | 125      | 125   |
| Oceana-105 | 105          | 151,200 | 572               | 40%      | (42)                    | 4.0"           | 3.0"  | 3.0"   | 150      | 150   |
| Oceana-120 | 120          | 172,800 | 654               | 40%      | (48)                    | 4.0"           | 3.0"  | 3.0"   | 175      | 213   |
| Oceana-135 | 135          | 194,400 | 736               | 40%      | (54)                    | 4.0"           | 3.0"  | 3.0"   | 210      | 213   |
| Oceana-150 | 150          | 216,000 | 818               | 40%      | (60)                    | 4.0"           | 3.0"  | 3.0"   | 210      | 213   |
| Oceana-165 | 165          | 237,600 | 899               | 40%      | (66)                    | 4.0"           | 4.0"  | 3.0"   | 250      | 250   |
| Oceana-180 | 180          | 259,200 | 981               | 40%      | (72)                    | 4.0"           | 4.0"  | 3.0"   | 250      | 250   |
| Oceana-195 | 195          | 280,800 | 1,063             | 40%      | (78)                    | 4.0"           | 4.0"  | 3.0"   | 300      | 300   |
| Oceana-210 | 210          | 302,400 | 1,145             | 40%      | (84)                    | 4.0"           | 4.0"  | 3.0"   | 300      | 350   |
| Oceana-225 | 225          | 324,000 | 1,226             | 40%      | (90)                    | 6.0"           | 4.0"  | 3.0"   | 300      | 350   |
| Oceana-240 | 240          | 345,600 | 1,308             | 40%      | (96)                    | 6.0"           | 4.0"  | 3.0"   | 350      | 400   |
| Oceana-255 | 255          | 367,200 | 1,390             | 40%      | (102)                   | 6.0"           | 4.0"  | 3.0"   | 350      | 400   |
| Oceana-270 | 270          | 388,800 | 1,472             | 40%      | (108)                   | 6.0"           | 4.0"  | 3.0"   | 400      | 400   |
| Oceana-285 | 285          | 410,400 | 1,553             | 40%      | (114)                   | 6.0"           | 6.0"  | 3.0"   | 400      | 400   |
| Oceana-300 | 300          | 432,000 | 1,635             | 40%      | (120)                   | 6.0"           | 6.0"  | 3.0"   | 400      | 450   |
| Oceana-315 | 315          | 453,600 | 1,717             | 40%      | (126)                   | 8.0"           | 8.0"  | 4.0"   | 400      | 450   |
| Oceana-330 | 330          | 475,200 | 1,799             | 40%      | (132)                   | 8.0"           | 8.0"  | 4.0"   | 400      | 500   |
| Oceana-345 | 345          | 496,800 | 1,880             | 40%      | (138)                   | 8.0"           | 8.0"  | 4.0"   | 500      | 600   |
| Oceana-360 | 360          | 518,400 | 1,962             | 40%      | (144)                   | 8.0"           | 8.0"  | 4.0"   | 500      | 600   |

Productivity is based on feed water of 38,000 ppm TDS at temperature of 77°F (25°C).

## Contact Us

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