MICROCOOL

# MCS Series
# Reverse Osmosis Systems

- Free Stand or Wall Mount Design
- Advance Membrane Technology
- Precision Manufacturing Tolerances
- Made in the USA


Made In USA

## Features

- Powder Coated Aluminum Frame
- Stainless Steel Permeate Flow Meter
- Stainless Steel Concentrate Flow Meter with Integrated Needle Valve
- Stainless Steel Concentrate Recirculate Flow Meter with Integrated Needle Valve
- Dual 0-100psi Pre-Filter Pressure Gauges
- 0-300psi Pump Pressure Gauge
- 100-Series Membranes
- FRP Membrane Housings
- 304 Stainless Steel, IP65 Rated Solenoid Valve
- Dual TDS Meter
- Computer Controller with 5 LED Status Indicators
- 4.5" X 10" / 4.5" X 20" Filter Housings (Made in the USA)

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| MODEL | MCS-250 | MCS-500 | MCS-1000 | MCS-2000 |
|---|---|---|---|---|
| **110V 60Hz** | MCS25010 | MCS50010 | MCS100010 | MCS200010 |
| **220V 60Hz** | MCS25011 | MCS50011 | MCS100011 | MCS200011 |
| FLOW SPECIFICATIONS | | | | |
| **Production Capacity (gpm)** | .17 | .34 | .69 | 1.38 |
| **Recovery Range** | 35% | 50% | 35% | 50% |
| **Max Feed T.D.S.** | 2000 | 2000 | 2000 | 2000 |
| MEMBRANES AND VESSELS | | | | |
| **Membrane / Vessel Qty.** | 1 | 2 | 1 | 2 |
| **Membrane Size** | 2521 | 2521 | 4021 | 4021 |
| **Nominal Rejection** | 98.5% | 98.5% | 98.5% | 98.5% |
| **Vessel Material** | FRP | FRP | FRP | FRP |
| **Array** | 1 | 1:1 | 1 | 1:1 |
| PRE-FILTERS | | | | |
| **Size** | 4.5" X 10" | 4.5" X 10" | 4.5" X 20" | 4.5" X 20" |
| **Type** | Sediment | Sediment | Sediment | Sediment |
| **Micron** | 5 | 5 | 5 | 5 |
| **Material** | Polypropylene | Polypropylene | Polypropylene | Polypropylene |
| **Type** | Catalytic Carbon | Catalytic Carbon | Catalytic Carbon | Catalytic Carbon |
| **Micron** | 10 | 10 | 10 | 10 |
| PUMP AND MOTOR | | | | |
| **Pump Type** | Vane | Vane | Vane | Vane |
| **Pump Material** | Low Lead Brass | Low Lead Brass | Low Lead Brass | Low Lead Brass |
| **Motor HP (60Hz)** | 1/3 | 1/3 | 3/4 | 3/4 |
| **Motor Type** | Carbonator | Carbonator | Carbonator | Carbonator |
| ELECTRICAL | | | | |
| **Frequency (Hz)** | 50/60 | 50/60 | 50/60 | 50/60 |
| **Amp Draw (110/220)** | 7/4 | 7/4 | 11/7 | 11/7 |
| CONNECTIONS | | | | |
| **Feed** | ¾" FNPT | ¾" FNPT | ¾" FNPT | ¾" FNPT |
| **Permeate / Concentrate** | 3/8" QC | 3/8" QC | 1/2" QC | 1/2" QC |
| WEIGHTS & DIMENSIONS | | | | |
| **L" X W" X H"** | 15 ¾ X 25 X 31 | 15 ¾ X 25 X 31 | 21 ¾ X 25 X 31 | 21 ¾ X 25 X 31 |
| **Weights (lbs.)** | 80 | 90 | 110 | 120 |

Systems production and recovery based on 500TDS, 77°F softened feed water.
Computer projections should be run to optimize the ssystems recovery and membrane life.