

## Industrial RO Systems

### MTRO Series

The MTRO Series RO's are complete, pre-engineered proven designs with pretreatment units that produce consistent high quality water in flow rates up to 360000 GPD. The systems feature simple user-friendly controls, rugged construction, easy access for maintenance and installation.

The systems can be supplied with several options that will help reduce energy, reduce the amount of water required for operation and even provide for water recycling. Some of these options are:

- Low energy membranes (150 psi/225psi)
- High water recovery operation (depending on feed quality)
- Output controlled operation with variable speed drive
- Reject water recovery and reuse systems



### Standard Features

- Multi-media Filter. FRP Tanks on MTRO24000 to MTRO48000, carbon Steel filters on other models.
- Activated carbon Filter. FRP Tanks on MTRO24000 to MTRO48000, carbon Steel filters on other models.
- Softener on MTRO24000 to MTRO48000, chemical dosing on other models
- Mechanical valves on MTRO24000 to MTRO48000, butterfly valves on other models
- 5.0 um multi-cartridge pre-filter
- Automatic inlet shut-off valve
- Multi-stage centrifugal pump
- Two flow meters
- Programmable auto-flush feature
- PLC system control
- Clean-In-Place ports



### Materials of Construction

- Frame: Stainless steel 304 or Powder coated steel
- Membrane Elements: TF Polyamide
- Membrane Housing: FRP
- Low Pressure Pipe: UPVC
- High Pressure Pipe: Stainless Steel
- Pump: Stainless Steel

### Operating Parameters

- Operating Pressure: < 300 psig
- Maximum Recovery: 60% - 75%
- Nominal Rejection: 95-99%
- Operating Temperature: 2-35 °C
- Minimum Inlet Pressure: 30 psig
- Design Temperature: 25 °C

### Additional Options

- Optional VFD systems
- Feed Water ORP
- Feed Water pH
- Clean in Place (CIP) Unit



Product Code	Capacity (Minimum)	Membrane Quantity	Motor (HP)	Inlet (Inch)	Permeate (Inch)	Multi-media Filter / AC Filter	Softener
MTRO-24000	24000GPD (4000L/HR)	8040X4	5.5	1 1/2"	1 1/2"	FT2850/TK3072	ST2850/TK3072
MTRO-36000	36000GPD (6000L/HR)	8040X6	7.5	2"	1 1/2"	FT3150/TK3672	ST3150/TK3672
MTRO-48000	48000GPD (8000L/HR)	8040X9	15	2"	1 1/2"	FT3150/TK4272	ST3150/TK4272
MTRO-60000	60000GPD (10000L/HR)	8040X12	15	2"	1 1/2"	BFV 2 1/2" /D140*SH150	Chemical Dosing
MTRO-72000	72000GPD (12000L/HR)	8040X16	15	2 1/2"	2"	BFV 2 1/2" /D150*SH150	Chemical Dosing
MTRO-90000	90000GPD (15000L/HR)	8040X20	15	2 1/2"	2"	BFV 2 1/2" /D160*SH150	Chemical Dosing
MTRO-120K	120000GPD (20000L/HR)	8040X24	20	3"	2 1/2"	BFV 3" /D200*SH150	Chemical Dosing
MTRO-150K	150000GPD (25000L/HR)	8040X30	25	3"	2 1/2"	BFV 3" /D220*SH150	Chemical Dosing
MTRO-180K	180000GPD (30000L/HR)	8040X36	30	4"	3"	BFV 3" /D230*SH150	Chemical Dosing
MTRO-210K	210000GPD (35000L/HR)	8040X42	40	4"	3"	BFV 4" /D250*SH180	Chemical Dosing
MTRO-240K	240000GPD (40000L/HR)	8040X48	40	4"	4"	BFV 4" /D260*SH180	Chemical Dosing
MTRO-270K	270000GPD (45000L/HR)	8040X54	40	6"	4"	BFV 6" /D280*SH180	Chemical Dosing
MTRO-300K	300000GPD (50000L/HR)	8040X60	50	6"	4"	BFV 6" /D300*SH180	Chemical Dosing
MTRO-360K	360000GPD (60000L/HR)	8040X72	60	6"	6"	BFV 6" /D330*SH180	Chemical Dosing

Note: Other custom designs are available upon request  
Valves listed above don't refer particularly to any models or manufactures

