



## About Mee Industries Inc.

For over 45 years Mee Industries has led the world with innovative water fog technology. MeeFog systems are used to humidify and cool many industrial, commercial and agricultural processes and to create interesting and dynamic special effects. Today there are over ten thousand MeeFog systems in use around the world. The MeeFog team looks forward to helping you with your fogging project.

## The Mee Advantage: Experience, Innovation, Performance

In 1969, Thomas Mee Jr. a former Cornell University research scientist, founded Mee Industries. The company originally manufactured high-tech electro-optical, meteorological instrumentation, but by the early 1980's, high-pressure water fogging had become the main focus of the company. Today, Mee Industries provides innovative, highly effective, economical fog solutions for many industrial applications including gas turbine inlet-air fogging, commercial and industrial building humidification and cooling, data center humidification, outdoor air conditioning, greenhouse climate control, wine barrel storage humidification, as well as dynamic special effects for the entertainment industry and theme parks.

## Industry Leaders – Focused on Fog Technology

Mee specializes in providing custom-engineered, turn-key high-pressure fog solutions. We are committed to researching, developing, marketing and supporting the most innovative and reliable fog systems available anywhere in the world.

[www.meefog.com](http://www.meefog.com)

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## MEE WATER GT-SERIES

# Reverse Osmosis Systems

Combination 2-Pass RO-EDI Units 5-100 GPM

## When Clean Matters

Water filtered through Reverse Osmosis (RO) is recommended for all MeeFog systems. Removing minerals and dissolved solids from supply water will achieve the highest purity of water and reduce routine maintenance.

## CLEAN & SIMPLE

## Benefits of Using MeeFog™ Water Treatment

Mee Industries provides the ultimate in project execution. From design to supply, installation and after sales service there is a single supplier—a single point of contact.

- Ultra-pure water with reduced chemical usage and reduced maintenance hazards
- All controls integrated for set-and-forget ease of use
- Optimized design ensures right sizing of tanks and treated water supply
- Factory tested in actual configuration to ensure full functionality and optimum performance
- Integrated RO/EDI skid designs
- PLC communicates with fog system to ensure adequate water supply at all times
- Advance alert on potential water shortages
- No chemical regeneration required



# System Specifications

## Standard Features

- Dual Pass RO System
- Integral skid mounted EDI polishing unit
- Allen Bradley Compact Logix PLC Controls
- 12" Touch Screen HMI Display with 4–20 mA transmitters
- UL Electrical Panel
- Variable Frequency Controlled High Pressure Pump / Motor
- Skid Mounted Chemical Dosing Units
- Clean In Place Units
- Tank Level Input for Auto/ Start Stop
- Automatic High TDS By-pass to Reject Line
- Manual Motor Starters

## EDI Modules

- Manufacturer: Ionpure, GE E-Cell
- Models: LXM, VNX
- Up to 16 Mega-Ohm Product Resistivity
- 90% Recovery

## Material of Construction

- High Pressure Piping: 316 SS: Sch 10
- Low Pressure Piping: PVC Sch 80 (Opt.316 SS)
- Structural Skid: Coated Carbon Steel
- RO Housing: FRP 450 PSI (31 Bar) rated
- EDI Module: FRP 100 PSI (6.9 Bar) rated
- Enclosures: NEMA 4
- Chemical Tanks: High Density PE

## Additional Features/Accessories

- Pre-Treatment Media Filtration Systems
- Pre/Post Treatment Chemical Dosing Units
- Raw Water Booster Pump Units
- Demin Water Transfer Pumps & Storage Tanks
- Virtual Network Control Remote Monitoring System

## Performance Parameters

- < 0.5 us/cm Permeate Water Quality
- < 3000 us/cm Typical Feed Water TDS
- 15°C Design Temperature
- Operating Temperature of 4–35°C
- 350 PSI (24.1 Bar) Operating Pressure

## RO Membrane Elements

- Manufacturer: Hydranautics, Dow or Toray
- Type: TFC Spiral Wound
- Typical Design Flux: 14 gfd
- Membrane Rejection 99.5 – 99.6%



## GT Series RO-EDI Combo Specification

Permeate Capacity	Power Consumption	Dry Weight	Operating Weight	Dimensions (L x W x H)	Utility Connections (Flanged)
5 GPM 1.13 m3/h	13.6 KW*	2067 lbs (937 kg)	2913 lbs (1321 kg)	139" x 57" x 76" (3530 x 1447 x 1930 mm)	Inlet: 1" Permeate: 3/4" Concentrate: 3/4"
10 GPM 2.27 m3/h	13.6 KW*	3,680 lbs (1669 kg)	4,417 lbs (2003 kg)	159" x 57" x 76" (4038 x 1447 x 1930 mm)	Inlet: 1 1/4" Permeate: 1" Concentrate: 1"
15 GPM 3.4 m3/h	19.6 KW*	4,145 lbs (1880 kg)	5,238 lbs (2375 kg)	159" x 72" x 83" (4038 x1828 x 2108 mm)	Inlet: 1 1/2" Permeate: 1" Concentrate: 1 1/2"
20 GPM 4.5 m3/h	24.8 KW*	5298 lbs (2403 kg)	6345 lbs (2878 kg)	180" x 83" x 83" (4572 x 2108 x 2108 mm)	Inlet: 1 1/2" Permeate: 1 1/4" Concentrate: 1 1/2"
40 GPM 9 m3/h	52 KW*	6732 lbs (3053 kg)	9806 lbs (4447 kg)	223" x 83" x 83" (5664 x 2108 x 2108 mm)	Inlet: 2" Permeate: 1 1/2" Concentrate 1 1/2"
60 GPM 13.6 m3/h	59 KW*	7921 lbs (3592 kg)	10574 lbs (4796 kg)	263" x 83" x 83" (6680 x 2108 x 2108 mm)	Inlet: 3" Permeate: 2" Concentrate 2"
75 GPM 17 m3/h	75 KW*	9272 lbs (4205 kg)	12409 lbs (5628 kg)	285" x 83" x 83" (7239 x 2108 x 2108 mm)	Inlet: 4" Permeate: 3" Concentrate 2"
100 GPM 22.7 m3/h	98 KW*	10877 lbs (4933 kg)	15210 lbs (6899 kg)	285" x 83" x 83" (7239 x 2108 x 2108 mm)	Inlet: 4" Permeate: 3" Concentrate 2"

The above power consumption values are based on 440/60/3 ph power and include EDI module power requirements. Capacities are for combination RO/EDI skid units. Larger capacities ranging from 100 - 1000 gpm require multiple skids.