

MASTERpak

Overview:

- Completely pre-packaged “plug and play” system
- Product quality exceeds current USP standards up to 18MegaOhm
- Integrated controls
- Automatic sanitization, backwash, rinse, and recycle functions
- Completely skid mounted including pretreatment
- Customizable for specific customer requirements

Product Highlights:

• Superior Design

- Completely skid mounted
- All pretreatment, RO, and EDI components located on one skid
- Unit is completely piped, wired, and assembled at the factory
- Allows for fully functional wet FAT
- Reduces installation and startup time

• Customizable To Customer Specifications

- MECO can customize the MASTERpak units to meet any special valve, instrument, size or mechanical needs.

• Complete Validation Package

- MECO can provide all of your validation documentation as well as perform IO/OQ protocol execution.

• Backwashable Carbon Filter

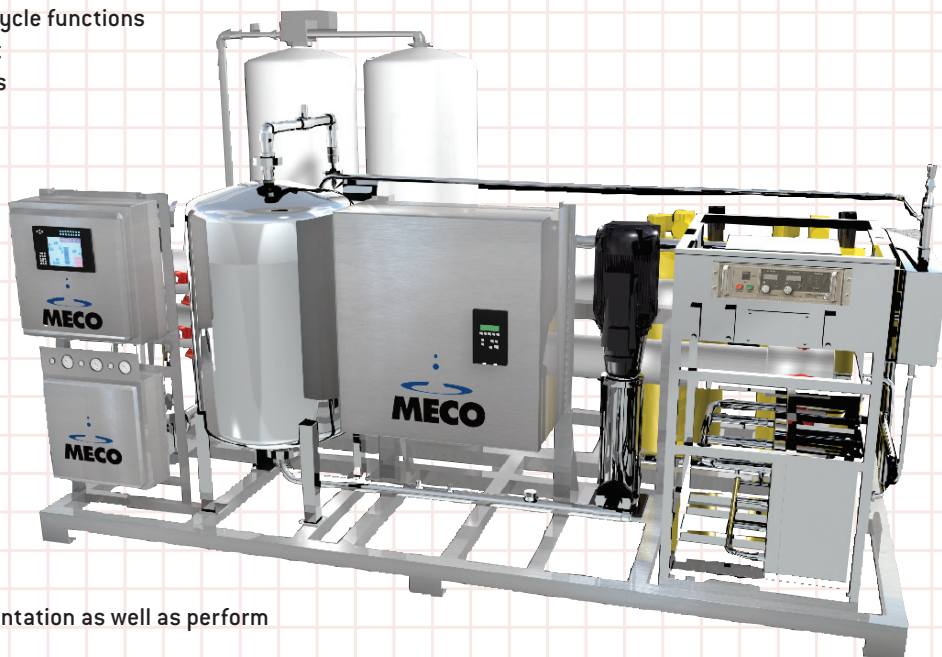
- Eliminates channeling associated with non-backwashable designs
- Backwashable design allows flushing of the bed after sanitization to remove dead microorganisms
- Reduces operational costs of Carbon exchange vessels

• Stainless Steel Feedwater Break Tank

- Eliminates the need for chemical sanitization skids
- Allows for water to be heated to sanitization temperature via electricity or steam
- Allows unit to continue to operate in a recirculation mode when no water is being drawn from the system

• Comprehensive Control System

- All functions of the unit are automatic and controlled from the Operator Interface Terminal (OIT).
- Feedwater PID loop allows fluctuations in feedwater conditions without upsetting the MASTERpak performance.
- Pump VFD allows for unit turndown, chemical cleaning, and hot water sanitization function all with the one pump.



TECHNICAL DATA

Standard Model	Product Flow Range (min/max)	Feedwater Flow Range (min/max)*	Reject Flow Range (min/max)	Electricity Draw**	Dimensions
MASTERpak2	1-3 gpm	1.3 - 4 gpm	0.3 - 1 gpm	6kW	84x150x84
MASTERpak4	3.5 - 6 gpm	5 - 8 gpm	1.2 - 2 gpm	8 kW	84x150x84
MASTERpak7	6 - 9 gpm	8 - 12 gpm	2 -3 gpm	8 kW	84x150x84
MASTERpak10	9 - 14.5 gpm	13 - 20 gpm	3 - 4.8 gpm	15kW	84x150x84
MASTERpak22	17 - 29 gpm	23 - 39 gpm	5.6 - 9.6 gpm	22 kW	84x150x84

* Feed flow may vary if Carbon Filter option is chosen

** Does not include sanitization cycle.

Design Details:

• Design Details

- Galvanized rigid steel conduit
- Stainless steel airlines
- Integrated control and instrument panel
- TEFC motors
- Single point power supply to unit
- Sanitary 316L SST permeate and EDI piping
- All sanitizable piping and break tank insulated and clad

