

Reverse Osmosis System Packages

Models	AT-500 / AT-1000		
	STANDARD (S)	ADVANCED (A)	PREMIER (P)
Frame			
White Powder Coated Aluminum Frame	✓	✓	✓
Controls			
Manual On and Off Control Switch	✓		
Minitrol Computer Controller		✓	
Minitrol IF Computer Controller			✓
Pre-Treatment Lockout		✓	✓
Tank Level Input		✓	✓
LED Controller Display		✓	✓
Feed Solenoid Valve	✓	✓	✓
Concentrate Recycle Valve		✓	✓
Feed Low Pressure Switch 15-30 psi	✓	✓	✓
Instrumentation			
AXEON® Permeate Flow Meter	✓	✓	✓
AXEON® Concentrate Flow Meter	✓	✓	✓
Concentrate Recycle Flow Meter		✓	✓
AXEON® 316 Stainless Steel Concentrate Valve	✓	✓	✓
AXEON® 0-100 psi Pre-Filter In Pressure Gauge	✓	✓	✓
AXEON® 0-100 psi Pre-Filter Out Pressure Gauge	✓	✓	✓
AXEON® 0-300 psi Pump Pressure Gauge	✓	✓	✓
HM Digital™ PS-100 Permeate TDS Controller		✓	
HM Digital™ PS-202 Dual Permeate and Feed TDS Controller			✓
Features			
Feed Flush			✓
AXEON® 5 Micron Sediment Pre-Filter	✓	✓	✓
AXEON® 10 Micron Carbon Block Pre-Filter	✓	✓	✓
AXEON® by Pentek® Single O-Ring Filter Housings	✓	✓	✓
AXEON® HF1 Low Energy RO Membranes	✓		
AXEON® HF4 Extra Low Energy RO Membranes		✓	✓
AXEON® PVC Membrane Housings	✓	✓	✓
Fluid-O-Tech™ Brass Rotary Vane High Pressure Pump	✓	✓	
Fluid-O-Tech™ Stainless Steel Rotary Vane Pump			✓
ODP High Efficiency Carbonator Motor	✓	✓	✓

Note: All 50Hz systems come standard with AXEON HF4 Extra Low Energy RO Membranes.

Naming Matrix

- **A** = Frame Style
- **T** = Feed Water Type - Tap Water (T), Brackish Water (B), Sea Water (S)
- **XXXX** = Rated Production in Gallons Per Day Based on Standard Test Conditions
- **S, A, P** = System Package Identifiers

FLEXEON AT-Series	Standard (S)	Advanced (A)	Premier (P)
FLEXEON AT-500	AT-500S	AT-500A	AT-500P
FLEXEON AT-1000	AT-1000S	AT-1000A	AT-1000P

FLEXEON Systems Feature Descriptions

Feature	Description
White Powder Coated Aluminum Frame (S) (A) (P)	Corrosion resistant and light weight
Minitrol Computer Controller (S)	Provides a 20 amp output relay for the RO pump and inlet solenoid, and monitors switch inputs from a pressure switch. These inputs allow the RO unit to either run or shutdown as necessary for proper operation. Tank level and pre-treatment inputs control the RO system
Minitrol IF Computer Controller (A) (P)	Provides a 20 amp output relay for the RO pump and inlet solenoid, and monitors switch inputs from a pressure switch. These inputs allow the RO unit to either run or shutdown as necessary for proper operation. Tank level and pre-treatment inputs control the RO system along with an optional flush cycle
S150 Computer Controller (P)	Allows for pre-treat lockout functionality, tank level input, permeate TDS monitoring, low pressure monitoring, feed flush, electronic flush bypass and features a convenient led display, alarm functionality and other monitoring options
Pre-Treatment Lockout (S) (A) (P)	Sends a signal to the RO system when a pre-treatment lockout condition occurs
Tank Level Input (S) (A) (P)	Sends a signal to the RO system when a tank full or tank low condition occurs
LED Controller Display (S) (A)	Displays a digital readout for RO system monitoring
LCD Controller Display (P)	Displays a digital readout for RO system monitoring
Feed Solenoid Valve (S) (A) (P)	High flow, low friction loss design that has a pressure range of 10 to 125 psi, offers a manual override handle for valve actuation
Concentrate Recycle Valve (A) (P)	Needle valve controls the waste water being recycled back through the RO system
Feed Low Pressure Switch 15-30 psi (S) (A) (P)	Protects the RO pump from damage and cavitation when a low pressure condition occurs
AXEON® Permeate Flow Meter (S) (A) (P)	Monitors the product water flow rate
AXEON® Concentrate Flow Meter (S) (A) (P)	Monitors the waste water flow rate
Concentrate Recycle Flow Meter (A) (P)	Monitors the waste water flow rate being recycled back through the RO system
AXEON® 316 Stainless Steel Concentrate Valve (S) (A) (P)	Needle valve allows for control of the waste water
AXEON® 0-100 psi Pre-Filter In Pressure Gauge (S) (A) (P)	Monitors the feed water pressure entering the pre-filters
AXEON® 0-100 psi Pre-Filter Out Pressure Gauge (S) (A) (P)	Monitors the outlet water pressure exiting the pre-filters
AXEON® 0-300 psi Pump Pressure Gauge (S) (A) (P)	Monitors the pump discharge pressure
AXEON® 0-300 psi Final Concentrate Pressure Gauge (S) (A) (P)	Monitors the waste water discharge pressure
HM Digital™ PS-100 Permeate TDS Controller (S) (A)	Allows for product water monitoring with a digital display readout
Controller Permeate TDS Monitoring (P)	Allows for the monitoring of the reverse osmosis product water TDS
Controller Feed TDS Monitoring (P)	Allows for the monitoring of the feed water TDS
Feed Flush (A) (P)	Low flow feed water flush to reduce concentrated water on the RO membrane element
AXEON® 5 Micron Sediment Pre-Filter (S) (A) (P)	Reduces the amount of sediment from the feed water source
AXEON® 10 Micron Carbon Block Pre-Filter (S) (A) (P)	Reduces the amount of chlorine from the feed water source
AXEON® 1 Micron Sediment Pre-Filter (S) (A) (P)	Reduces the amount of sediment from the feed water source
AXEON® by Pentek® Single O-Ring Filter Housings (S) (A) (P)	Offer durability and improved sealing capabilities
AXEON® HF1 Low Energy RO Membranes (S)	Deliver high quality product water at moderately low pressure operation
AXEON® HF4 Extra Low Energy RO Membranes (A) (P)	Operate at less than half the operating pressure of standard high rejection membranes
AXEON® PVC Pressure Vessels (S) (A) (P)	Feature a convenient side port entry, an easy-to-remove snap ring and a removable end cap
Goulds® Multi-Stage Booster Pump (S) (A)	High pressure multi-stage booster pump provides steady, quiet, vibration-free operation and are designed for continuous operation
Goulds® Multi-Stage Stainless Steel Booster Pump (P)	High pressure multi-stage booster pump provides steady, quiet, vibration-free and are designed for continuous operation, also high resistance to corrosion and abrasion