Model: AFCRO

Atlas Filtri Commercial Reverse Osmosis System

500, 1,000, and 1,500 GPD (1,893, 3,785 and 5,678 LPD)



This Atlas Filtri commercial water purification system features a superior design that effectively reduces TDS in water. Designed for versatility, this platform delivers high output with premium performance in filtration technology. The all-inclusive design effectively filters the water prior to the RO membrane, protecting against premature failure related to sediment, chemicals, and scale commonly found in water supplies.

AFCRO's SUPERIOR DESIGN PROVIDES:

- Maximum performance
- Unparalled reliability
- Easy Operation
- Minimal service
- Protection of your investment
- Provide clear, clean and safe drinking water

The AFCRO Reverse Osmosis (RO) system features an integrated TDS monitor and blending valve, allowing precise control of TDS levels delivered to points-of-use. Adjusting the blending valve to desired TDS levels can also increase water production, helping extend membrane life and improve overall system efficiency.

Designed for both wall mount and floor stand applications, the AFCRO system offers versatility and cost effective performance. The system is engineered for reliability and ease of use, making it simple to install, operate, and service while delivering performance superior to anything previously available in its class. Combining advanced features with a user-friendly design, the AFCRO System delivers dependable performance and is proudly manufactured in the USA.

AFCRO REVERSE OSMOSIS SYSTEM FEATURES

TDS PROCESSOR SYSTEM CONTROLLER

- TDS inlet display
- TDS product water display
- Alerts of changes to critical operating parameters

BLENDING VALVE CONTROLLER

- Adjustable blending valve
- Dial in exact product water TDS
- Adjust changes as needed

FEATURES AND BENEFITS

- Highly reliable and versatile
- Allows evaluation of membrane performance
- Extends the life of the RO membranes
- Alerts of changes to critical operating parameters
- Simplifies use of chemical pretreatment
- Easy storage tank and deliver pump add-ons
- Safety Certification: UL Listed (UL 778, File E225352)

AFCRO REVERSE OSMOSIS SYSEM

TECHNICAL SPECIFICATIONS

SYSTEM OPERATING PARAMETERS

PARAMETER	SPECIFICATION
Membrane Type	Thin-Film Composite
Maximum Operating Temperature	100° F (38° C)
Maximum Operating Pressure	125 psi (8.6 bar) System Limits
pH Range, Continuous Operation*	2 - 11
Maximum Feed Silt Density Index	5
Chlorine Tolerance	0 ppm

*Maximum temperature for continuous operations above pH 10 is 95° F (35° C)

IMPORTANT NOTES

- Feed water must meet the system operating parameters.
- Install in accordance with local plumbing codes.
- Flush system for a minimum of 5 minutes prior to use.
- Change pre-filter cartridge every 12 months, or sooner if a noticeable drop in pressure occurs.

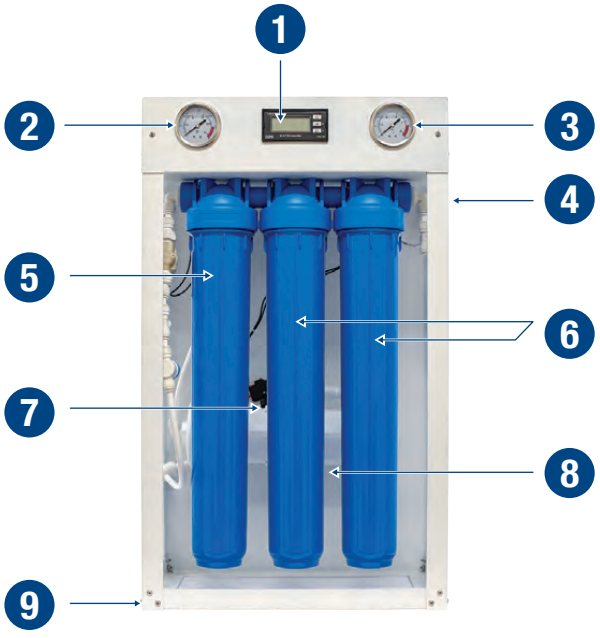
RO SYSTEM SPECIFICATIONS

MODEL	MEMBRANE PART NUMBER	NUMBER OF MEMRANES	APPLIED PRESSURE PSI (BAR)	PERMEATE FLOW RATE GPD (m^3/d)	BRINE REJECTION %
AFCRO-500	REMEM500	1	100 (6.89)	500 (1.89)	98%
AFCRO-1000	REMEM500	2	100 (6.89)	1000 (3.78)	98%
AFCRO-1500	REMEM500	3	100 (6.89)	1500 (5.67)	98%

REPLACEMENT PRE-FILTER CARTRIDGES

PART NUMBER	DESCRIPTION	NUMBER OF FILTERS	MICRON RATING	SIZE	LIFE
RA5777526	Sediment Melt Blown & ScaleArmor™	1	5	2.5” x 20”	12 months
RE2520V05	Carbon Block - VOC	2	0.5	2.5” x 20”	12 months

SYSTEM IDENTIFICATION DIAGRAM



REF.	COMPONENT
1	TDS Meter (Optional Readings)
2	Inlet Pressure Gauge
3	Permeate Pressure Gauge
4	Blending Valve
5	Sediment with ScaleArmor 5-micron Melt Blown Filter Cartridge*
6	Carbon Block 0.5-micron VOC Filter Cartridge (Two Units)*
7	Reverse Osmosis Membrane (One, Two or Three Units)
8	Booster Pump on Higher Flow Units
9	Wall or Floor Mount Bracket

*Upgraded cartridges (not included with original system)

ATLAS FILTRI®
improving water

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