

# Reverse Osmosis System

Protect your Combitherm® oven investment and extend equipment lifetime with a reverse osmosis system from Alto-Shaam. Reverse osmosis systems are the preferred solution for treatment of water that contains sediments, chlorides, minerals and other total dissolved solids (TDS). Our water treatment systems also remove chlorine and chloramines—corrosive disinfectants often added by public water treatment plants to minimize water-related diseases.

## Benefits of Alto-Shaam reverse osmosis systems include:

- ✓ Elimination of labor and costs associated with frequent oven maintenance
- ✓ Reduction of corrosion on stainless steel
- ✓ Reduction of scale build up
- ✓ Protection of equipment
- ✓ Full water treatment



## Model Selection

Alto-Shaam's product offering includes three [3] different sized reverse osmosis systems for use on Combitherm ovens. Please reference the guidelines below for model (reverse osmosis system and tank reservoir) selection. Additional information and requirements related to models and sizing can be found on page 2.

BOILERLESS OVENS		
Oven Model [CTP/CTC/CTX]	Opti-Pure Model	Model #
4-10	OPS175CR/5	5031203
6-10	OPS175CR/5	5031203
10-10	OPS175CR/5	5031203
7-20	OPS175CR/5	5031203
10-20	OPS175CR/10	5031204
20-10	OPS175CR/10	5031204
20-20	OPS175CR/10	5031204
4-10 over 4-10	OPS175CR/10	5031207
6-10 over 6-10	OPS175CR/16	5031208
6-10 over 7-20	OPS175CR/10	5031207
6-10 over 10-10	OPS175CR/10	5031207
7-20 over 7-20	OPS175CR/10	5031207

BOILER OVENS		
Oven Model [CTP/CTC/CTX]	Opti-Pure Model	Model #
4-10	OPS175CR/5	5031203
6-10	OPS175CR/10	5031204
10-10	OPS175CR/5	5031203
7-20	OPS175CR/5	5031203
10-20	OPS175CR/16	5031205
20-10	OPS175CR/16	5031205
20-20	OPS175CR/16	5031205
6-10 over 6-10	OPS175CR/16	5031208
6-10 over 7-20	OPS175CR/16	5031208
6-10 over 10-10	OPS175CR/16	5031208
7-20 over 7-20	OPS175CR/10	5031207



## Additional Information and Requirements

- Each system contains two water treatment filters, one reverse osmosis membrane and one mineral addition cartridge. Please reference the manual for additional required parts. Install kits are available for all models for seamless installation.
- Reverse osmosis systems are only for use with Alto-Shaam equipment. Operation with other manufacturer's equipment or use for additional equipment beyond the recommendation for single or stacked ovens may limit ability to supply treated water and potentially void original equipment manufacturer's warranty. The use of a reservoir tank larger than recommendation will not impact warranty.
- Sizing recommendations are based on an average usage of water not exceeding 175 gallons per day and line water pressure at point of equipment at 50F, 60 psi. If daily water usage or supply pressure/water to the equipment deviates from these values or oven operates in heavy steam applications, additional reservoir sizing may be needed to ensure continuous treated water supply to the appliance.
- Installation of the Alto-Shaam reverse osmosis water treatment systems can be included as part of the factory-authorized combi installation program. Contact your dedicated Alto-Shaam representative or go to [alto-shaam.com](http://alto-shaam.com) for more information.

## Alto-Shaam Water Quality Standards

- It is the sole responsibility of the owner/operator/purchaser of this equipment to verify that the incoming water supply is comprehensively tested and complies with the published water quality standards shown below. Non-compliance with these minimum standards will potentially damage equipment and/or components and void the original equipment manufacturer's warranty.
- Upon request, Alto-Shaam can provide a water quality report conducted by an independent laboratory.

INLET WATER REQUIREMENTS		
Contaminant	Treated Water	Untreated Water
Free Chlorine	Less than 0.1 ppm (mg/L)	Less than 0.1 ppm (mg/L)
Hardness	30-70 ppm	30-70 ppm
Chloride	Less than 30 ppm (mg/L)	Less than 30 ppm (mg/L)
pH	7.0 to 8.5	7.0 to 8.5
Silica	Less than 12 ppm (mg/L)	Less than 12 ppm (mg/L)
Total Dissolved Solids (tds)	50-125 ppm	50-360 ppm