

# Water Treatment Selection

Protect your combi or Converge® multi-cook combi oven investment and extend equipment lifetime with Alto-Shaam's water treatment options. Whether investing in a reverse osmosis or water filtration system, Alto-Shaam has a solution to meet your needs.

To find which water treatment solution is best for you, first evaluate your water quality.

- It is the sole responsibility of the owner/operator/purchaser of equipment to verify that the incoming water supply is comprehensively tested and complies with the published water quality standards from Alto-Shaam shown below. Non-compliance with these minimum standards will potentially damage equipment and/or components and void the original equipment manufacturer's warranty.
- **Please note: A water test kit is available to purchase from Alto-Shaam, KT-48103. Water is self-collected and sent to an independent laboratory.**

## Alto-Shaam Water Quality Standards

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

Once water quality has been determined and compared to Alto-Shaam's water quality standards, choose applicable water treatment—a reverse osmosis or water filtration system.

## What's the difference?

Contaminant	Reverse Osmosis	Water Filtration
Sediment	✓	✓
Free Chlorine	✓	✓
Chloramines	✓	✓
Hardness	✓	✗
Chlorides	✓	✗
pH	✓	✗
Silica	✓	✗
Total Dissolved Solids	✓	✗

### Items to consider:

- Chlorides cause corrosion. It is recommended that any water quality over 30ppm (mg/L) purchase a reverse osmosis system.
- Total Dissolved Solids (TDS) cause scale, which is not removed by water filtration.



# Reverse Osmosis

Reverse osmosis systems are the preferred solution for treatment of water that contains sediments, chlorides, minerals, and other total dissolved solids [TDS]. They also remove chlorine and chloramines—corrosive disinfectants often added by public water treatment plants to minimize water-related diseases.

## Why reverse osmosis?

- 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

SPECIFICATIONS		
RO Model	Tank Dimensions [H x W]	Wall Mounted System [H x W x D]
5 Gallon	20-1/4" x 12-1/4"	20" x 18-3/10" x 6"
10 Gallon	23-1/4" x 15-5/8"	20" x 18-3/10" x 6"
16 Gallon	30-3/8" x 15-5/8"	20" x 18-3/10" x 6"

## Model Selection

Alto-Shaam's product offering includes three [3] different sized reverse osmosis systems for use on combination or Converge multi-cook combi ovens. Please reference the guidelines below for model [reverse osmosis system and tank reservoir] selection.

COMBINATION OVENS		
Oven Model [CTX/PRODIGI]	RO Model	Part #
4-10	5 Gallon	5031203
6-10	5 Gallon	5031203
10-10	5 Gallon	5031203
7-20	5 Gallon	5031203
10-20	10 Gallon	5031204
20-10	10 Gallon	5031204
20-20	10 Gallon	5031204
4-10 over 4-10	10 Gallon	5031207
6-10 over 6-10	10 Gallon	5031207
6-10 over 7-20	10 Gallon	5031207
6-10 over 10-10	16 Gallon	5031208
7-20 over 7-20	16 Gallon	5031208

CONVERGE MULTI-COOK COMBI OVENS		
Oven Model [CMC]	RO Model	Part #
H2H	5 Gallon	5031203
H3H	5 Gallon	5031203
H2H over H2H	10 Gallon	5031207
H3H over H2H	10 Gallon	5031207

*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 50°F, 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.*

### Details

Each reverse osmosis system contains two water treatment filters, one reverse osmosis membrane and one mineral addition cartridge. Please reference the manual for additional required parts. All installation materials used outside of Alto-Shaam specifications will void equipment warranty. Install kits are available for all models for seamless installation.

# Water Filtration

Water filtration systems ensure Alto-Shaam equipment is supplied with higher quality water. Extend equipment lifetime and reduce oven downtime associated with sediments, chlorine, and chloramines typically found in water.

## Why water filtration?

- Elimination of labor and costs associated with frequent oven maintenance
- Protection of equipment

## Model Selection

Oven Model [CTX/CMC/PRODIGI]	Filter Model	Part #
4-10	QTII+CR	5037355
H2H	QTII+CR	5037355
H3H	QTII+CR	5037355
Stacked Converge Ovens	QTII+CR + FT-48710	5037376
6-10	QTII+CR	5037355
10-10	QTII+CR	5037355
7-20	QTII+CR	5037355
10-20	QTII+CR	5037355
20-10	QTII+CR	5037355
20-20	QTII+CR	5037355
Stacked Prodigy Ovens	QTII+CR + FT-48710	5037376

## Details

The QTII+CR is a dual-cartridge water treatment system with two Qwik-Twist cartridges, one with activated carbon and the other catalytic carbon. Please reference the manual for additional required parts as hardware for mounting to a wall and connection hoses are **not included**. All installation materials used outside of Alto-Shaam specifications will void equipment warranty. Install kits are available for all models for seamless installation.

**Please note:** Life expectancy of filters varies based on water quality. Filter replacement is recommended every 6 months, sooner with any of the following conditions: [1] when pressure gauge needle enters the red zone on the outlet gauge, [2] when rated gallons are at capacity, [3] when water flowing to Alto-Shaam equipment fails to meet minimum flow requirements on specification sheet.

## Replacement Parts and Kit

Model	Quantity	Description	Part #
CTO-Q10	1	Pre/post filter	300-05828
CTOS-QCR	1	Chloramine filter	300-05832
FT-48710	1	3/4" MNPT fitting, snap-in	FT-48710
HO-36870	1	Hose, 3/4" NPT, 6'	HO-36870
KT-48103	1	Water test kit	KT-48103



## Model Specifications

### Overall Dimensions

23.3" L x 14.3" W x 4.8" D  
[59.2 cm x 36.3 cm x 12.2 cm]

### Connections

Inlet Connection: 3/4" MNPT  
Outlet Connection: 3/4" MNPT

### Operating Pressure

30 - 90 psi [2.1 - 6.2 bar]

### Water Temperature

35° - 100°F [2 - 38°C]

### Operating Weight

18 lbs [3.62 kgs]

### Shipping Weight

9 lbs [5.4 kgs]

### Electrical Connection

None required