

# RATIONAL Water Filter.



The RATIONAL Water Filtration Systems helps provide consistent high quality water to your RATIONAL SelfCooking Center® or CombiMaster® Plus. The patented carbon block technology reduces the effects of sediment, chloramines, and chlorine while providing the required flow rates.



Item	Necessary if	Article No.	
<b>Single Cartridge*</b> For all models and Combi-Duo model XS/XS, 61/61 and 61/101	Chlorine / Chloramine > 0.2 ppm Particle > 15 microns	1900.1154US	
<b>Double Cartridge*</b> For Combi-Duo model 62/62 and 62/102 or if used for more than 2 units. For each additional unit add 1 head and cartridge.	Chlorine / Chloramine > 0.2 ppm Particle > 15 microns	1900.1150US	
<b>Water Filtration Modular Head</b> For adding on additional Cartridge(s) to Double Cartridge System (Maximum 4 cartridges)	If more than 2 units will be connected in combination with Double Cartridge (1900.1150US)	1900.1152US	
<b>Water Filtration Cartridge</b> Replacement or add on	For replacement or if more than 2 units will be connected in combination with Double Cartridge (1900.1150US)	1900.1155US	
Certified Installation of RATIONAL Water Filter Systems is available when purchased with Certified Installation of RATIONAL unit.		9999.8448	

\*Includes Filter System Installation Kit. This ensures that the installer has all of the essential connection materials on hand at the time of the installation. It is a hassle-free one-stop shop.

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# Water Conditioning.

## RATIONAL Specifications.



## Water Conditioning Technologies.

### Particle Filter.

We recommend a particle filter with fineness of 5–15  $\mu\text{m}$  for filtering water containing sand, iron particles or suspended matter.

### Active Carbon Filter.

We recommend an active carbon filter, if the water contains high levels of chlorine ( $\text{Cl}_2$ ) / Chloramine ( $\text{NH}_2\text{Cl}$ ) over 0.2 ppm (0.2 mg/l). This information can be provided by water supply company.\*

### Reverse Osmosis

Due to corrosion risks, a reverse osmosis system must be used if and only if chloride ( $\text{Cl}^-$ ) concentrations are above 80 ppm (80 mg/l). This information can be provided by water supply company.

**Note:** Ensure that the minimum conductivity value of 50  $\mu\text{S}/\text{cm}$  (Micro Siemens) is being maintained.

### Water Softener

Valid for the SelfCookingCenter®: these models will remove scale all by themselves providing that the units are used and cleaned as prescribed. This means a water softener typically is not needed for scale. New line: Valid for CombiMaster® Plus: Recommended for treating water if severe calcification occurs without high chloride contamination.

**Recommend System:** Weak acid decarbonization ( $\text{H}^+$  ion exchange).

**Systems not recommended:** Sodium Ion Exchangers (salt based water softeners) and Phosphate feeder filters.

New Line: Treater Water Softening must maintain a minimum 5 gr/gal hardness.

## Supply Requirements.

### Water Filter Connection

1/2" ID cold water line with a water shut off with 3/4" connection. (GHT) new Line Water pressure to filtration system needs a to maintain a minimum 35 psi. (Max 80 psi) new Line RATIONAL units require flow rate of 3 gallons per minute and water pressure of 21–87 psi. (43 psi is recommended)

\*All public water systems using surface water and most ground water systems treat water with either chlorine/ chloramine or chlorine dioxide.

**Note:** EPA will allow levels as high as 4 ppm safe for drinking water, exceeding our maximum level of 2 ppm.