

# RATIONAL

## Water Filter.



The RATIONAL Water Filtration Systems helps provide consistent high quality water to your RATIONAL iCombi, iVario, SelfCookingCenter® 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 any single iCombi or iVario or Combi-Duo Size XS or half-size.	Chlorine/ Chloramine > 0.2 ppm Particle > 15 microns	1900.1159US
<b>Double Cartridge*</b> For full size Combi-Duos or if used for more than 2 units. For each additional cooking systems add 1 head and cartridge.	Chlorine/ Chloramine > 0.2 ppm Particle > 15 microns	1900.1158US
<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 and 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 µm 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 (Cl<sub>2</sub>)/Chloramine (NH<sub>2</sub>Cl) over 0.2 ppm (0.012 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 (Cl<sup>-</sup>) 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 µS/cm (Micro Siemens) is being maintained.

### Water Softener

Valid for the iCombi Pro, iCombi Classic, and 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.

Valid for CombiMaster® Plus: Recommended for treating water if severe calcification occurs without high chloride contamination.

**Recommend System:** Weak acid decarbonization (H<sup>+</sup> ion exchange).

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

Treated Water must maintain a minimum 5 gr/gal hardness.

## Supply Requirements.

### Water Filter Connection

½" ID cold water line with a water shut off with ¾" connection. (GHT)

Water pressure to filtration system needs to maintain a minimum 25 psi. (Max 80 psi)

RATIONAL cooking systems require flow rate of 3 gallons per minute and dynamic water pressure of 14.5–87 psi. (Max 80 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.