

WATER FILTRATION FOR COFFEE BREWING

Water May Contain:	“Reverse Osmosis / Carbon Combination”	“Carbon Block or Activated Carbon”
Bad/Foul Taste	Removes	Improves
Odour	Removes	Improves
Turbidity	Removes	Reduces
Organic Compounds*	Removes	Removes
Chlorine & THMs	Removes	Removes
Bacteria	Removes	May Control Growth**
Viruses	Removes	Will Not Remove
Cysts	Removes	Removes Some
Parasites	Removes	Removes Some
Arsenic	Removes	Will Not Remove
Heavy Metals***	Removes	Removes Some
Dissolved Solids****	Removes	Will Not Remove
Fluoride	Removes	Will Not Remove

*Organic Compounds – include Pesticides, Herbicides, and Insecticides.

**Silver-Impregnated Carbon – can control bacterial growth.

***Heavy Metals – include Iron, Lead, Cadmium, and Aluminium.

****Dissolved Solids – include Sodium, Calcium, Magnesium, and inorganic minerals

Reverse osmosis (RO) is the process of removing dissolved inorganic solids (such as magnesium and calcium ions) from water by forcing it through a semipermeable membrane under pressure so that the water passes through but most of the contaminants are left behind.

Pros

- Can reduce scale and corrosion
- Removes 95% - 99% of total dissolved solids (TDS), as well as Chlorine, Fluoride and other impurities.
- Greatly improves the odour, taste and appearance of your water and coffee
- The running costs are lower or similar too regular cartridges, once the initial investment is made
- A RO system can be fine-tuned to very specific needs
- RO is a high end, long term, cost effective solution aimed at the best quality coffee, once the initial cost has been absorbed, the running costs are below or same as the standard cartridge systems.
- RO water will make your coffee taste cleaner, more refined, sweeter

Cons

- The filtration process takes time.
- Prone to clogging, if the membrane is not flushed regularly
- It does require blending to produce a good cup of coffee
- The system can take some space
- Install might need to be performed in two legs (24h needed for first membrane flush)
- If You Don't change the pre-filters religiously, You Will Ruin The Reverse Osmosis Membrane