

**CASCADIAN® ICS-CTTO Specifications and Operating Conditions:**

Item Number	Raw Water Parameter	Condition for Operation	Details	
<b>ICS-CTTO (Taste &amp; Odor)</b>	Bacteria	None Allowed	Dimensions	8.5" x 8.5" x 26.5"
	Chlorine	<3ppm	Connection	1.25"
	Colloidal Iron	NA	Max Capacity	250,000 gallons or 12 months
	Hardness	NA	Best Treatment Flow	8 gpm
	Hydrocarbons, oils, or lubricants	None Allowed	Max Flow	15 gpm
	Hydrogen Sulfide	Not for extreme levels	Max Pressure	100 psi
	Iron & Manganese (Clear Only)	NA	Max Pressure Differential	20 psi
	Iron & Manganese (Colored)	NA	Min Temperature	40° F
	Iron Bacteria	None Allowed	Max Temperature	90° F
	Organic Iron	None Allowed	No. of Filters	1
	pH	NA		
	Sediment	NA		
	Silica	<100 ppm		
	Tannin / Organics	None Allowed		
	Turbidity	< 1 NTU		

**General and Common Information for all ICS Systems:**

- If Raw Water Parameter Condition for Operation = “NA” the systems will not affect and is not affected by concentrations of that parameter typically found in drinking water
- If Raw Water Parameter - Condition for Operation = “None Allowed” Remove through adequate pre-treatment
- If Raw Water Parameter - Condition for Operation = “Not for extreme levels” The cartridge useful life may be shortened and require more frequent replacement.
- Water conditions outside of the above specified limits may lead to a shortened filter life.
- All stated flow rates are intermittent flows. Constant flows may affect results.
- Extreme levels of any parameter may shorten useful cartridge life
- Stated “Max Capacity” is just that, it is the maximum capacity of the filter. Your water chemistry may reduce Max Capacity and more frequent filter replacement may be required
- Iron and manganese treatment does not include iron in the following forms:
  - Colloidal (submicron sized iron particles)
  - Organically Bound (iron that is bound to an organic substance such as tannins)

Typically, the presence of colloidal and organic iron and manganese is determined after the usual treatments for iron and manganese are inadequate or fail. There are specialty treatments for iron and manganese in the colloidal and organic forms. Please contact us for assistance.

**WARNING:**

Do not use with water that is microbiologically unsafe or of unknown quality without adequate disinfection before or after unit.

