



# WHRO-700

## Whole-House All-in-One Reverse Osmosis System

STANDARD AND "MAX" SYSTEMS



### ***SAFE, CLEAN WATER FOR YOUR ENTIRE BUILDING***

- Compact and Simple
- Easy to Maintain
- Eco-Friendly



*Home, Restaurant and Light  
Commercial for Municipal and  
Well Water Applications*

*An Employee-Owned Company*





# WATER: OUR MOST PRECIOUS RESOURCE

We use it for drinking, cooking, bathing, washing, and much more. Sometimes, our water can be problematic. Both city water and well water can contain minerals, microorganisms, heavy metals, radioactive substances, and industrial pollutants. This can be harmful to our health and detrimental to our plumbing systems (causing scaling of fixtures/valves, water heater failure, etc.). Occasionally, basic water softeners and filters are not enough to solve these problems. In these difficult situations, whole-house reverse osmosis (RO) is the best option. Whole-House RO removes nearly ALL of the contaminants from the water and provides bottled water quality to an entire home or business.

**EFFICIENT BY DESIGN** The WHRO-700 contains patented filter membranes, which use the basic pressure provided by a city or well supply and, in most instances, do not require a water softener for pre-treatment. The membranes last 2-3 years and remove approximately 90% of dissolved solids, at a ratio of only 1 – 1.3 gallons of waste for every gallon of production. An ozone generator keeps the water clean until it is ready for delivery to fixtures, via an efficient delivery pump. Equipment is mounted on a compact aluminum skid for easy accessibility and servicing. The 10% of dissolved solids remaining in the water are sufficient to protect piping and fixtures from the corrosion sometimes caused by pure water.



## WHRO-700 Standard and "MAX" Systems Specifications

TDS Rejection (avg)	90%
Clean Water Production (avg)	700 gallons per day
System Storage	200 gallons
System Recovery (typ)	33% to 50%
On-Board Pre-Filter Life (typ)	6 months
9"x40" Carbon Filter Life (typ)	18 months (chloramine), 54 months (chlorine) <sup>1</sup>
System Footprint (tank)	30"D x 73"H
System Footprint (skid)	24"L x 23"W x 36"H
RO Membrane Life (typ)	2-3 years
Maximum Hardness (inlet)	25 GPG (427.5 mg/L)
TDS Range (inlet)	150 mg/L to 1,500 mg/L
Maximum Iron (inlet)	0.3 mg/L
Maximum Manganese (inlet)	0.1 mg/L
Maximum Inlet Pressure	90 PSI
Minimum Inlet Pressure	45 PSI

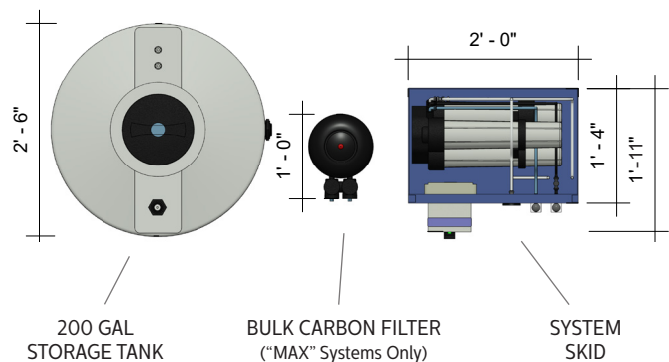
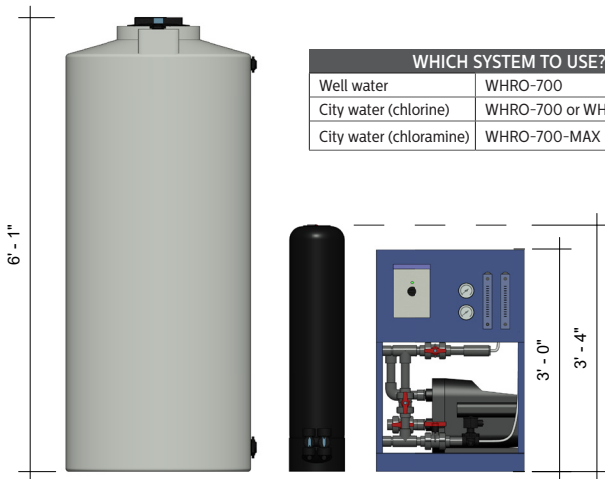
<sup>1</sup> "MAX" Systems only

## ALL-IN-ONE SYSTEM FEATURES:

- Line pressure RO module (2 membranes)
- Flow meters, pressure gauge, and system recovery (permeate) valve
- Tank float and shutoff valve
- Ozone generator for tank sanitization
- Efficient, variable speed/constant pressure delivery pump<sup>2</sup>
- 200 gallon storage tank with FDA and NSF-61 certification
- No additional softening or filtration needed for most installations
- Bulk carbon filter with 18 month chloramine or 54 month chlorine removal<sup>3</sup>

<sup>2</sup> Pump output pressure is programmable and contains integral pump tank (no additional bladder tank required).  
<sup>3</sup> "MAX" Systems only

WHICH SYSTEM TO USE?	
Well water	WHRO-700
City water (chlorine)	WHRO-700 or WHRO-700-MAX
City water (chloramine)	WHRO-700-MAX



TYPICAL % CONTAMINANT REMOVAL			
Sediment	100.0%	Herbicides/Pesticides	100.0%
Cysts: Giardia/Cryptosporidium	100.0%	Total Dissolved Solids (TDS)	89.7%
Hardness (as CaCO <sub>3</sub> )	98.0%	Nitrate/Nitrite	78.4%
Sodium	92.0%	Barium	98.3%
Chloride	94.0%	Chromium III & VI	98.8%
Lead	97.0%	Fluoride	93.7%
Hydrogen Sulfide (H <sub>2</sub> S)	75.0%	Mercury	85.0%
Arsenic V	94.6%	Radium 226/228	80.0%
Silica	99.0%	Uranium	80.0%

PUMP PERFORMANCE			
Flow Rate (GPM)	15	10	5
Pressure (PSI)	30	48	60



Water Control Corporation  
 7150 143rd Ave NW • Ramsey, MN 55303  
 Phone: 763-427-9638 watercontrolinc.com  
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**CONCERNED ABOUT PFAS/FOREVER CHEMICALS? WCC HAS OPTIONS!**