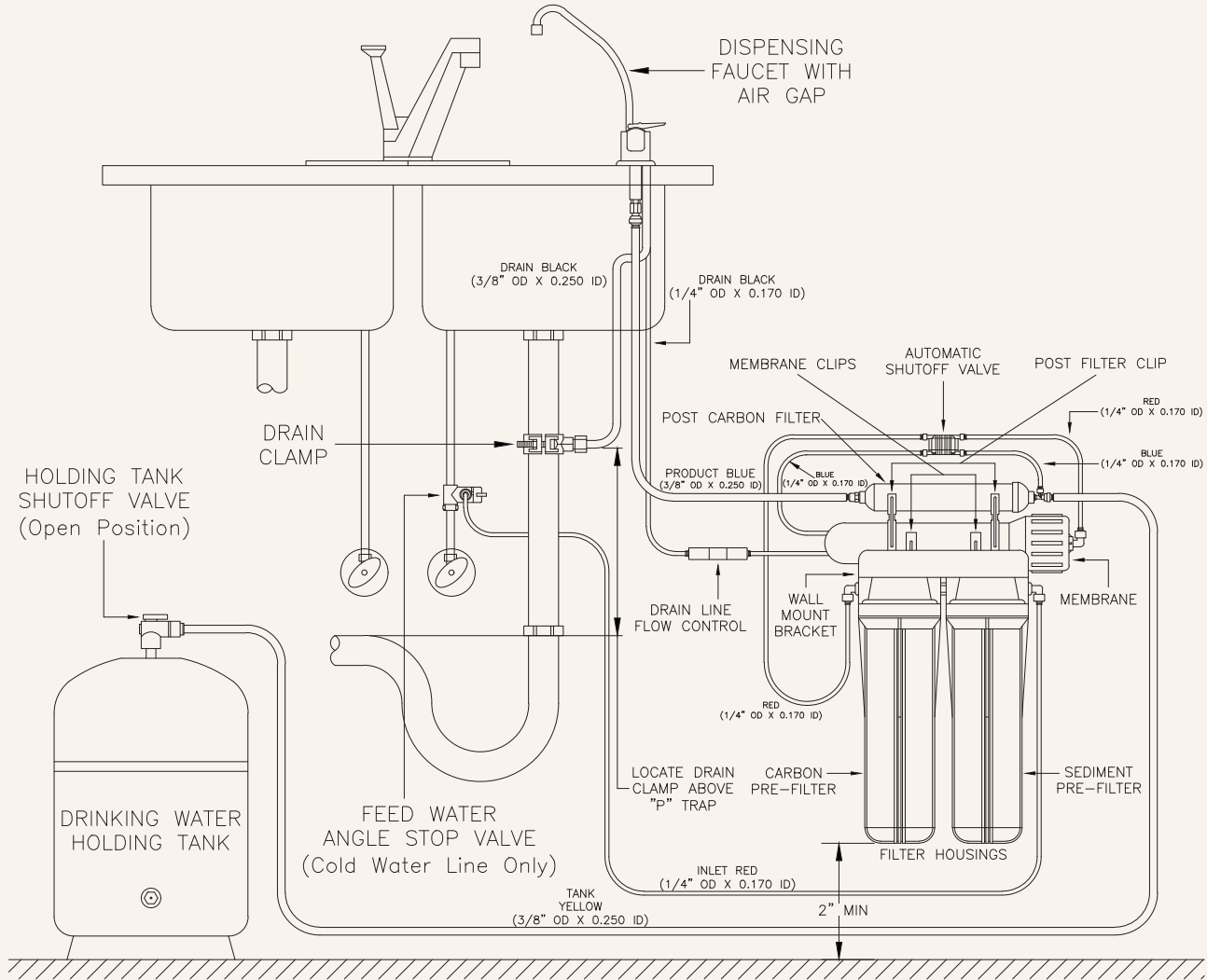




# LANCASTER

## WATER TREATMENT

### TFC - REVERSE OSMOSIS



### REJECTION RATES REVERSE OSMOSIS

Model Number		7-TFC-50									
SUBSTANCE	RATES	SUBSTANCE	RATES	SUBSTANCE	RATES	SUBSTANCE	RATES	SUBSTANCE	RATES		
Aluminum	96 - 98%	Cadmium	95 - 97%	Chloride	90 - 95%	Fluoride	93 - 95%	Mercury	95 - 97%	Silver	95 - 97%
Arsenic (+5)	94 - 96%	Calcium	94 - 97%	Copper	96 - 98%	Lead	96 - 98%	Nitrate	92 - 95%	Sodium	94 - 98%
Bacteria	99 %	Chlorine	90 - 95%	Cyanide	90 - 95%	Magnesium	94 - 96%	Phosphate	97 - 98%	Zinc	96 - 98%

Rejection rates presented are nominal for typical RO units. Diagram represents a typical under sink installation.



# TFC - REVERSE OSMOSIS

TFC SPECIFICATIONS		REVERSE OSMOSIS
<b>Model Number</b>		<b>7-TFC-50</b>
<b>Water Supply Parameters</b>	<b>Water Pressure <sup>3</sup> (psi)</b>	40 to 100
	<b>Water Temperature <sup>3</sup> (°F)</b>	10 to 100
	<b>Max T.D.S. Level (ppm)</b>	2000
	<b>pH Operating Range:</b>	3-11
<b>Chemical Limits <sup>1</sup></b>	<b>Hardness (gpg)</b>	10
	<b>Iron (ppm)</b>	0.1
	<b>Manganese (ppm)</b>	0.05
	<b>Hydrogen Sulfide</b>	None
	<b>Chlorine (ppm)</b>	1 <sup>4</sup>
<b>Bacteria (Caution)</b>		Do not use with water that is microbiologically unsafe or of unknown quality without adequate disinfection before or after the system
<b>Components <sup>2</sup></b>	<b>Sediment Prefilter</b>	5 Micron Melt Blown Sediment Filter, Part No. 210-C5-MB
	<b>Carbon Prefilter</b>	5 Micron Activated Carbon Block Filter, Part No. 210-C5-CA
	<b>In-Line Carbon Post Filter</b>	In-Line Activated Carbon Filter, Part No. AIRCO
	<b>Reverse Osmosis Membrane</b>	50 GPD Thin Film Layer Membrane, Part No. TFM-50
<b>Maintenance Interval</b>	<b>Sediment Prefilter</b>	Every 6 to 12 months
	<b>Carbon Prefilter</b>	Every 6 to 12 months
	<b>In-Line Carbon Post Filter</b>	Every 6 to 12 months
	<b>Reverse Osmosis Membrane</b>	Every 2 to 3 years
	<b>Complete System Sanitization</b>	Once each year

<sup>1</sup>Water Supplies that exceed limits for Hardness, Iron, Manganese and Hydrogen Sulfide require pretreatment.

<sup>2</sup>Refer to owner's manual for proper operation, installation instructions, warranty information, service interval recommendations, parts and service availability.

<sup>3</sup>Product water quality and production of RO systems is dependent on pressure and temperature. Typically RO membranes are rated at standard conditions of 77 °F and 60 psi (4 bar) discharging to atmosphere. In general, the higher the pressure differential and temperature, increased quality and quantity of water is produced. These factors should be considered when sizing RO systems for a particular application.

<sup>4</sup>The Carbon pre-filter is designed to reduce Chlorine from the incoming water. Change filter every 6-12 months, more often if more than 1ppm of chlorine.