

City Municipality free Chlorine Prefiltration

System Details

This system is designed for use with municipality supplied water whose city uses free Chlorine as their chemical disinfectant.



System shown for reference;
Actual system may vary.

Operation & Maintenance Items

Suggested O&M Items	Hawthorne Part Number
Replacement RO Membrane Element	HGC741671
Sediment Filter	HGC741672
AntiScalant - 5 Gal.	HGC741678
Cleaning Cartridge - Acid Scale Removal	HGC741680
Cleaning Cartridge - Alkaline Organics Removal	HGC741681
Haldheld Digital Water Quality Test Meter	MC2006



Package includes Dual-Level Float Switch to automate RO operation; installation & wiring required

DESIGN CONDITIONS							
Hawthorne Model Number	HGC738244	HGC738242	HGC738246	HGC738248	HGC738250	HGC738252	HGC738254
Rated GPD*	5,500	7,000	10,000	14,400	14,400	19,000	19,000
Design Conditions Recovery	50%	60%	60%	65%	65%	65%	65%
Permeate - GPM	4.0	5.2	6.9	10	10	13	13
Minimum Concentrate - GPM	4.0	3.5	3.1	4.5	4.5	4.5	4.5
Maximum Recovery	60%	75%	75%	75%	75%	75%	75%
No. Membranes	3	4	6	9	9	12	12
RO Pump H.P.	1.5	1.5	1.5	3	3	3	3

*Special Note: Reverse osmosis systems are rated at their capacity in optimal conditions. These industry standard conditions for residential ROs consist of a feed water temperature of 77 F degrees, a constant pressure of 40-60PSI, and a TDS of 500 PPM or below. Incoming water temperatures lower than 77deg F will often have decreased Production output.

PLUMBING SPECIFICATIONS							
Min. Inlet Flow Required (GPM)	15	15	15	25	25	25	25
Skid Inlet Connection (in)	1 FNPT	1 FNPT	1 FNPT	1.5 FNPT	1.5 FNPT	1.5 FNPT	1.5 FNPT
Permeate Connection (in)	1/2 FNPT	1/2 FNPT	1/2 FNPT	3/4 FNPT	3/4 FNPT	3/4 FNPT	3/4 FNPT
Concentrate Connection (in)	1 FNPT	1 FNPT	1 FNPT	1.5 FNPT	1.5 FNPT	1.5 FNPT	1.5 FNPT

Special Note: Schedule 80 PVC

SKID DIMENSIONS - Footprint							
Width (in)	96	96	96	96	96	96	96
Depth (in)	40	40	40	40	40	40	40
Height (in)	80	80	80	80	80	80	80
Quan of Skids	1	1	1	1	1	1	1

Special Note: Allow for a 96" height clearance, a 24" clearance behind and to the left and right, and a 36" clearance in front

ELECTRICAL SPECIFICATIONS							
Volts*	208-230	208-230	208-230	208-230	208-230	208-230	208-230
Amps**	6.6	6.6	6.6	12.7	7.02	12.7	7.02
Hz	60	60	60	60	60	60	60
Phase	1Ph	1Ph	1Ph	1Ph	3Ph	1Ph	3Ph

*Special Note: Supply voltage must not fall outside of specified range.

**Special Note: Actual operating amperage may vary based on supply Voltage & operating conditions. Value shown for reference only.

PREFILTRATION							
GAC [Carbon] x Quan Included	1	2	2	2	2	2	2
Antiscalant Injection	Included	Included	Included	Included	Included	Included	Included

City Municipality Chloramines Prefiltration

System Details

This system is designed for use with municipality supplied water whose city uses Chloramines as their chemical disinfectant.



System shown for reference;
Actual system may vary.

Operation & Maintenance Items

Suggested O&M Items	Hawthorne Part Number
Replacement RO Membrane Element	HGC741671
Sediment Filter	HGC741672
AntiScalant - 5 Gal.	HGC741678
Cleaning Cartridge - Acid Scale Removal	HGC741680
Cleaning Cartridge - Alkaline Organics Removal	HGC741681
Haldheld Digital Water Quality Test Meter	MC2006



Package includes Dual-Level Float Switch to automate RO operation; installation & wiring required

DESIGN CONDITIONS							
Hawthorne Model Number	HGC738256	HGC738258	HGC738260	HGC738262	HGC738264	HGC738266	HGC738268
Rated GPD*	5,500	7,000	10,000	14,400	14,400	19,000	19,000
Design Conditions Recovery	50%	60%	60%	65%	65%	65%	65%
Permeate - GPM	4.0	5.2	6.9	10	10	13	13
Minimum Concentrate - GPM	4.0	3.5	3.1	4.5	4.5	4.5	4.5
Maximum Recovery	60%	75%	75%	75%	75%	75%	75%
No. Membranes	3	4	6	9	9	12	12
RO Pump H.P.	1.5	1.5	1.5	3	3	3	3

*Special Note: Reverse osmosis systems are rated at their capacity in optimal conditions. These industry standard conditions for residential ROs consist of a feed water temperature of 77 F degrees, a constant pressure of 40-60PSI, and a TDS of 500 PPM or below. Incoming water temperatures lower than 77deg F will often have decreased Production output.

PLUMBING SPECIFICATIONS							
Min. Inlet Flow Required (GPM)	15	15	15	25	25	25	25
Skid Inlet Connection (in)	1 FNPT	1 FNPT	1 FNPT	1.5 FNPT	1.5 FNPT	1.5 FNPT	1.5 FNPT
Permeate Connection (in)	1/2 FNPT	1/2 FNPT	1/2 FNPT	3/4 FNPT	3/4 FNPT	3/4 FNPT	3/4 FNPT
Concentrate Connection (in)	1 FNPT	1 FNPT	1 FNPT	1.5 FNPT	1.5 FNPT	1.5 FNPT	1.5 FNPT

Special Note: Schedule 80 PVC

SKID DIMENSIONS - Footprint							
Width (in)	96	96	96	96	96	96	96
Depth (in)	40	40	40	40	40	40	40
Height (in)	80	80	80	80	80	80	80
Quan of Skids	1	2	2	2	2	2	2

Special Note: Allow for a 96" height clearance, a 24" clearance behind and to the left and right, and a 36" clearance in front. Systems utilizing 2 skids or more will require on-site connections to be made between the skids to form one operational system.

ELECTRICAL SPECIFICATIONS							
Volts*	208-230	208-230	208-230	208-230	208-230	208-230	208-230
Amps**	6.6	6.6	6.6	12.7	7.02	12.7	7.02
Hz	60	60	60	60	60	60	60
Phase	1Ph	1Ph	1Ph	1Ph	3Ph	1Ph	3Ph

*Special Note: Supply voltage must not fall outside of specified range.

**Special Note: Actual operating amperage may vary based on supply Voltage & operating conditions. Value shown for reference only.

PREFILTRATION							
GAC [Carbon] x Quan Included	2	4	4	4	4	4	4
Antiscalant Injection	Included	Included	Included	Included	Included	Included	Included

Private Well Treatment for Turbidity, Fe/Mn Prefiltration

System Details

This system is designed for use with Well water containing elevated levels of Turbidity, Fe/Mn – Higher Prefiltration.



Skid #1



Skid #2

System shown for reference; Actual system may vary.

Operation & Maintenance Items

Suggested O&M Items	Hawthorne Part Number
Replacement RO Membrane Element	HGC741671
Sediment Filter	HGC741672
AntiScalant - 5 Gal.	HGC741678
Cleaning Cartridge - Acid Scale Removal	HGC741680
Cleaning Cartridge - Alkaline Organics Removal	HGC741681
Handheld Digital Water Quality Test Meter	MC2006

Note: Chlorine and Acid, required for proper system operation, should be sourced locally.

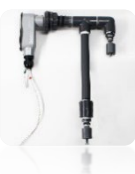
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DESIGN CONDITIONS		
Hawthorne Model Number	HGC738270	HGC738272
Rated GPD*	10,000	19,000
Design Conditions Recovery	60%	65%
Permeate - GPM	6.9	13/13.2
Minimum Concentrate - GPM	3.1	4.5
Maximum Recovery	75%	75%
No. Membranes	6	12
RO Pump H.P.	1.5	3

*Special Note: Reverse osmosis systems are rated at their capacity in optimal conditions. These industry standard conditions consist of a feed water temperature of 77 F degrees, a constant pressure of 40-60PSI, and a TDS of 500 PPM or below. Incoming water temperatures lower than 77deg F will often have decreased Production output.

PLUMBING SPECIFICATIONS		
Min. Inlet Flow Required (GPM)	15	25
Skid Inlet Connection (in)	1.5 FNPT	1.5 FNPT
Permeate Connection (in)	1/2 FNPT	3/4 FNPT
Concentrate Connection (in)	1 FNPT	1.5 FNPT

Special Note: Schedule 80 PVC



Package includes Dual-Level Float Switch to automate RO operation; installation & wiring required

SKID DIMENSIONS - Footprint		
Hawthorne Model Number (cont.)	HGC738270	HGC738272
Width (in)	96	96
Depth (in)	40	40
Height (in)	80	80
Quan of Skids	2	2

Special Note: Allow for a 96" height clearance, a 24" clearance behind and to the left and right, and a 36" clearance in front. Systems utilizing 2 skids or more will require on-site connections to be made between the skids to form one operational system.

ELECTRICAL SPECIFICATIONS		
Volts*	208-230	208-230
Amps**	13.2	25.4
Hz	60	60
Phase	1Ph	1Ph

*Special Note: Supply voltage must not fall outside of specified range.

**Special Note: Actual operating amperage may vary based on supply Voltage & operating conditions. Value shown for reference only.

PREFILTRATION		
Greensand Iron x Quan	2	2
GAC [Carbon] x Quan	2	2
Contact Tank	1 x 120gal	1 x 120gal
Antiscalant Injection	Included	Included
Chlorine Injection	Included	Included
Feed Pump	Included	Included

Installer Notes:

This system comes preassembled on two Plug & Play Skids. Once on-site, the two skids will need to be plumbed together to form one complete operating system.

Private Well

Low Turbidity; No Fe/Mn; No Bacterial Issues



System Details

This system is designed for use with Well water containing low Turbidity & no Fe/Mn



System shown for reference; Actual system may vary.

Operation & Maintenance Items

Suggested O&M Items	Hawthorne Part Number
Replacement RO Membrane Element	HGC741671
Sediment Filter	HGC741672
AntiScalant - 5 Gal.	HGC741678
Cleaning Cartridge - Acid Scale Removal	HGC741680
Cleaning Cartridge - Alkaline Organics Removal	HGC741681
Haldheld Digital Water Quality Test Meter	MC2006

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DESIGN CONDITIONS		
Hawthorne Model Number	HGC738274	HGC738276
Rated GPD*	10,000	19,000
Design Conditions Recovery	60%	65%
Permeate - GPM	6.9	13/13.2
Minimum Concentrate - GPM	3.1	4.5
Maximum Recovery	75%	75%
No. Membranes	6	12
RO Pump H.P.	1.5	3
*Special Note: Reverse osmosis systems are rated at their capacity in optimal conditions. These industry standard conditions consist of a feed water temperature of 77 F degrees, a constant pressure of 40-60PSI, and a TDS of 500 PPM or below. Incoming water temperatures lower than 77deg F will often have decreased Production output.		
PLUMBING SPECIFICATIONS		
Min. Inlet Flow Required (GPM)	20	35
Skid Inlet Connection (in)	1 FNPT	1.5 FNPT
Permeate Connection (in)	1/2 FNPT	3/4 FNPT
Concentrate Connection (in)	1 FNPT	1.5 FNPT
Special Note: Schedule 80 PVC		



Package includes Dual-Level Float Switch to automate RO operation; installation & wiring required

SKID DIMENSIONS - Footprint		
Hawthorne Model Number (cont.)	HGC738274	HGC738276
Width (in)	72	96
Depth (in)	36	40
Height (in)	80	80
Quan of Skids	1	1
Special Note: Allow for a 96" height clearance, a 24" clearance behind and to the left and right, and a 36" clearance in front.		
ELECTRICAL SPECIFICATIONS		
Volts*	208-230	208-230
Amps**	6.6	12.7
Hz	60	60
Phase	1Ph	1Ph
*Special Note: Supply voltage must not fall outside of specified range. **Special Note: Actual operating amperage may vary based on supply Voltage & operating conditions. Value shown for reference only.		
PREFILTRATION		
MMS [Sediment] x Quan Included	2	2
Antiscalant Injection	Included	Included

Installer Notes:

If this system is being fed by an atmospheric Well water holding tank, a feed booster pump will be required; not included in this design.