Manufactured by Hydro, Inc. Atlanta GA

Defining Water Purification Standards

The **XP150**, definitive by design, is the most cost effective, high quality, laboratory point-of-use purification system you will find. Constructed of polypropylene materials housed in a formed acrylic casing, this unit will produce 100 gallons per day, HPLC grade water. Product water meets Type I Laboratory requirements set by ASTM CAP/NCCLS as well as exceeds USP standards.

The XP150's compact design allows for shelf mount, wall mount or counter-top placement. It comes standard with a three (3) gallon conical polypro storage tank, but can be retrofitted to any larger tank to fit your needs. The system can be upgraded to produce 200 gallons per day, and may be plumbed for dispensing at various locations, depending on proximity. It works as stand-alone or may be fitted

(800) 579-6869

Service Centers: Atlanta, GA Tampa, FL Charlotte, NC

Coming Soon: Nashville, TN Mobile, AL

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www.hydroinc.net



The Southeast's Water Quality Specialist Built to YOUR Specifications



Conductivity and Resistivity Chart (NaCl and CaCO ₃ Solutions at 25° C)								
GRAINS/Gal	PPM	PPM	CONDUCTIVITY	RESISTIVITY				
as CaCO	as CaCO	NaCl	microhms/cm	megohms/cm				
99.3	1700	2000	3860	0.00026				
74.5	1275	1500	2930	0.00034				
49.6	850	1000	1990	0.0005				
24.8	425	500	1020	0.00099				
9.93	170	200	415	0.0024				
7.45	127.5	150	315	0.0032				
4.96	85	100	210	0.0048				
2.48	42.5	50	105	0.0095				
0.992	17	20	42.7	0.023				
0.742	12.7	15	32.1	0.031				
0.496	8.5	10	21.4	0.047				
0.248	4.25	5	10.8	0.093				
0.099	1.7	2	4.35	0.023				
0.074	1.27	1.5	3.28	0.3				
0.048	0.85	1	2.21	0.45				
0.025	0.42	0.5	1.13	0.88				
0.0099	0.17	0.2	0.49	2.05				
0.0076	0.13	0.15	0.38	2.65				
0.005	0.085	0.1	0.27	3.7				
0.0025	0.042	0.05	0.16	6.15				
0.00099	0.017	0.02	0.098	10.2				
0.0007	0.012	0.015	0.087	11.5				
0.00047	0.008	0.01	0.076	13.1				
0.00023	0.004	0.005	0.066	15.2				
0.00012	0.002	0.002	0.059	16.9				
0.00006	0.001	0.001	0.057	17.6				
none	none	none	0.055	18.3				

American Society for Testing and Materials (ASTM) Standard Specification for Reagent Grade Water								
	Type I	Type II	Type III	Type IV				
Electrical Conductivity Max (pS/cm @ 25° C)	0.056	1.0	0.25	5.0				
Electrical Resistivity Min. (MΩ-cm @ 25° C)	18	1.0	4.0	0.2				
pH @ 25° C	-	-	-	5.0 - 8.0				
TOC max. (μ g/L)	100	50	200	No limit				
Sodium max. (μg/L)	1	5	10	50				
Silica max. (μg/L0	3	3	500	No limit				
Chloride max. (μg/L)	1	5	10	50				
When bacterial levels need to be controlled, rea	gent grade t	ypes should	d be further	discussed a fol	lows:			
		Type A	Type B	Type C				
Total Bacterial Count Max. CFU/100ml	1	10	1000					
Endotoxin max. IU.ml	0.03	0.25	-					
National Committee for Clin	nical Lab	oratory S	Standards	s (NCCLS)				
		Type I	Type II	Type III				
Bacteria (CFU/ml)		< 10	< 1000	NA				
pH		NA	NA	5.0 - 8.0				
Resistivity (MΩ-cm @ 25° C)	> 10	> 1	> 0.1					
SiCO ₂ mg/L	< 0.05	< 0.1	< 1					
Total Solids mg/L	0.1	1	5					
Total Oxizable Organic Carbon mg/L	< 0.05	< 0.2	< 1					
Type I water must be free of p	articulate mat	ter larger tha	n 0.2um					

1/.1 ppm = 1 grain per gallon	
1 US gallon = 3.785 Liters	

- (Product TDS Feed TDS

X 100 = % Rejection

Product GPM Feed GPM

X 100 = % Recovery

Jencel XP150

Equipment (Standard): * unless noted Controller: Micro Process Digital Display

RO System: 126 liters per day production (8 hour)
RO Concentrate: Recycle valve for water conservation
Membrane: TFC (1 - 100 gpd 24 hr) Low energy

Ultra-filtration system (2)

Low pressure protection RO/Recirc systems

High tank level auto shut-off RO

Flow Meters (5) product/concentrate/recycle/UF product, UF recycle

Semi-Automatic sanitization

Ultraviolet lamp (1) with dual wave length, 185 NM

Polypro membrane housing (2)

Stainless pumps (2) - one RO/one recirc Pre-filtration 10" depth 10" GAC carbon

Water softener (optional adder - not included) * Needed only in certain parts of US

Re-circulating point of use dispensing gun POU - Carboy fill station * (Optional)

Auto flush system

Pressure reduction valve 24 hour continuous recirculation

Specifications:

Net weight: 63 lbs wet Enclosure: Molded Acrylic

Dimensions: L 22" X W 12" X H 18" (add 14" to H for tank)

Shelf Dimensions: L 24" X W 12"

Duty Cycles: Continuous with programmable options

Voltage: 110V, 60 Hz, 10 Amp Feed Water Flow: 2 gpm minimum

Feed Water Pressure: 20 psi minimum, 60 psi maximum

Feed Water Temp: 50 - 95° F Drain: 2 gpm minimum

Product Flow Rate: 2.1 lpm with optional .22 hollow fiber filtration POU

Quality: (Resistivity) 17.5 - 18.2 megohm

RO make-up: 378 liters/day

Bacteria: < 1 cfu/ml with monthly sanitization

TOC: < 500ppb Ultra-Filter: 10,000 wc

UV Dual Wave Length: 185 and 254 nm

RO Storage Construction: polypropylene/3 gallon capacity/12" X 12" Deionization cartridge (2): 25" X 14" 1800 grc disposable mixed bed