



Operation Guidelines

Pressure ranges during operation:

Sediment Pre-Filter

Filter In: 20 psi < x < 80 psi

Filter Out: 20 psi < x < 80 psi

*Pressure difference of 10% requires sediment filter to be changed

System Pressure:

Keep the system pressure between 100 psi and 190 psi.

Concentrate Pressure:

10 psi lower than system pressure per membrane. **Always less than system pressure.**

Flow Rates:

Setting the flow rates is highly dependent on your water quality, feed water pressure, and regular maintenance and will be unique to your location. It is more of a balance, rather than setting it to a prescribed flow rate based on your model, but refer to the data below:

Permeate Flow: See system specs--- maintain system spec flow and pressure below 190 psi.

Concentrate Flow: See system specs--- maintain system pressure below 190 psi. **Minimum 1 GPM, Do NOT completely close the control valve, you cannot reduce the waste water to zero without damaging the system.**

Recirculation: Dependent on desired system recovery and GPD of system

Model	Design Conditions					Limits*		Line Sizes (Inches)			Pump model and HP			
	Permeate Flow		Conc. Flow to Drain (GPM)	Design Recycle Flow (GMP)	Design Recovery (%)	Max. Recovery (%)	Max. Recycle Flow* (GPM)	Inlet	Perm.	Conc.	Design Pump Flow (GPM)	Pump/Motor Model No.	Motor HP	Full Load Amps (FLA)@ indicated voltage
Hydro-14A-216	2,000	1.39	3.5	5.1	40	50	5.8	0.75	0.5	0.5	10	HPS10E-01MS3	1 HP	12.4 / 10.5
Hydro-24A-216	4,000	2.78	4.2	3.0	40	50	4.4	0.75	0.5	0.5	10	HPS10E-01MS3	1 HP	12.4 / 10.5
Hydro-34A-216	5,800	4.00	4.0	2.0	50	60	3.3	0.75	0.5	0.5	10	HPS10E-01MS3	1 HP	12.4 / 10.5
Hydro-44A-216	7,500	5.20	3.5	1.3	60	75	3.0	0.75	0.5	0.5	10	HPS10E-01MS3	1 HP	12.4 / 10.5
Hydro-54A-216	9,000	6.25	3.8	0.0	60	75	1.7	0.75	0.5	0.5	10	HPS10E-01MS3	1 HP	12.4 / 10.5
Hydro-64A-216	10,000	6.90	3.1	0.0	60	75	1.8	0.75	0.5	0.5	10	HPS10E-01MS3	1 HP	12.4 / 10.5
Hydro-74A-216	10,800	7.5	4.0	1.5	65	75	3.0	0.75	0.5	0.5	13	HPS20H3	3 HP	17 / 15.3
Hydro-84A-216	13,000	9.0	4.5	2.0	65	75	3.0	0.75	0.75	0.5	14.5	HPS20H3	3 HP	17 / 15.3
Hydro-94A-216	14,400	10	4.5	2.0	65	75	3.0	0.75	0.75	0.5	15.5	HPS20H3	3 HP	17 / 15.3
Hydro-104A-216	16,000	11	4.5	2.0	65	75	3.0	0.75	0.75	0.5	16.5	HPS20H3	3 HP	17 / 15.3
Hydro-114A-216	17,300	12	4.5	2.0	65	75	3.0	0.75	0.75	0.5	17.5	HPS20H3	3 HP	17 / 15.3
Hydro-124A-216	19,000	13	4.5	2.0	65	75	3.0	0.75	0.75	0.5	18.5	HPS20H3	3 HP	17 / 15.3