



## BetaQua Brackish Reverse Osmosis Machines

### **BW4-1 to BW4-24** **LP4-1 to LP4-24**

220 litres/hour to 6,940 litres/hour (per unit)

*Reliable Membrane Based systems from BetaQua*

### Applications

- Boiler feedwater
- Drinking water
- Polishing pretreatment (such as EDI/Mixed Bed)
- Industrial applications requiring low dissolved solids applications

### Configuration

- Single Pass
- Double Pass

### Instrumentation

- Pre Cartridge Filtration, Post Cartridge Filtration, Post High Pressure Pump, Concentrate Pressure gauge
- GLI Conductivity
- Post High Pressure Pump (High) Alarms
- Autoflush Solenoid Valve
- Aquamatic Pneumatic Valve

### Standard Features

- 5 micron cartridge filter
- High quality Reverse Osmosis Membranes
- Low Pressure Reverse Osmosis Membranes (LP Series only)
- Stainless Steel high pressure piping (on BW series)
- Automatic Inlet valve
- Automatic Flush system
- PLC Controller

### Premium Features

- Chemical dosing and pretreatment interlock input
- High pressure alarms
- pH controller system
- Permeate Purge
- Clean In Place (CIP) system plumbed into skid

Our BetaQua Reverse Osmosis Systems are used in mission critical applications such as pharmaceutical water treatment as well as in community installations such as public airports and apartments. Excellent in removing dissolved solids, Reverse Osmosis systems are also used to reduce blowdown cycles in boilers and other closed loop systems.

### Options

- Stainless Steel Frame
- Stainless Steel Piping for Permeate and Concentrate
- Stainless Steel Pre filtration cartridge and element housing
- Remote Monitoring using inbuilt modem
- 4-20mA outputs for external monitoring system
- Web-based monitoring system

### Operating Parameters

- Recovery: 50%-80%
- Temperature: 10-35 deg C
- Minimum inlet pressure: 2 bar
- Rejection Rate: 95%-98%

### Materials of Construction

- Membrane Housing: FRP (Fiber Reinforced Plastics)
- Frame: Epoxy coated carbon steel
- Permeate and Feed Piping: PVC Sch 80
- High Pressure Piping: Stainless Steel 304

MODEL NUMBER	PERMEATE FLOWRATE (m3/hr)	FEED FLOWRATE (m3/hr)	CONCENTRATE FLOWRATE (m3/hr)	POWER REQUIREMENT (HP)	MEMBRANE QUANTITY	MOTOR POWER SUPPLY	CONTROL POWER SUPPLY
RO-LP4-1	0.29	0.44	0.15	2	1	220 V 1Ø, 50 Hz	24 V, 1Ø, 50 Hz
RO-LP4-2	0.58	0.88	0.30	2	2	220 V 1Ø, 50 Hz	24 V, 1Ø, 50 Hz
RO-LP4-3	0.87	1.31	0.45	2	3	220 V 1Ø, 50 Hz	24 V, 1Ø, 50 Hz
RO-LP4-4	1.16	1.75	0.60	2	4	220 V 1Ø, 50 Hz	24 V, 1Ø, 50 Hz
RO-LP4-5	1.45	2.19	0.74	3	5	380 V 3Ø, 50 Hz	24 V, 1Ø, 50 Hz
RO-LP4-6	1.73	2.63	0.89	3	6	380 V 3Ø, 50 Hz	24 V, 1Ø, 50 Hz
RO-LP4-9	2.60	3.94	1.34	7.5	9	380 V 3Ø, 50 Hz	24 V, 1Ø, 50 Hz
RO-LP4-12	3.47	5.25	1.79	7.5	12	380 V 3Ø, 50 Hz	24 V, 1Ø, 50 Hz
RO-LP4-15	4.34	6.57	2.23	7.5	15	380 V 3Ø, 50 Hz	24 V, 1Ø, 50 Hz
RO-LP4-21	6.07	9.20	3.13	10	21	380 V 3Ø, 50 Hz	24 V, 1Ø, 50 Hz
RO-LP4-24	6.94	10.51	3.57	10	24	380 V 3Ø, 50 Hz	24 V, 1Ø, 50 Hz
RO-BW4-1	0.22	0.33	0.11	1.5	1	220 V 1Ø, 50 Hz	24 V, 1Ø, 50 Hz
RO-BW4-2	0.44	0.67	0.23	1.5	2	220 V 1Ø, 50 Hz	24 V, 1Ø, 50 Hz
RO-BW4-3	0.66	1.00	0.34	3	3	380 V 3Ø, 50 Hz	24 V, 1Ø, 50 Hz
RO-BW4-4	0.88	1.34	0.46	3	4	380 V 3Ø, 50 Hz	24 V, 1Ø, 50 Hz
RO-BW4-5	1.11	1.67	0.57	5	5	380 V 3Ø, 50 Hz	24 V, 1Ø, 50 Hz
RO-BW4-6	1.33	2.01	0.68	5	6	380 V 3Ø, 50 Hz	24 V, 1Ø, 50 Hz
RO-BW4-9	1.99	3.01	1.02	7.5	9	380 V 3Ø, 50 Hz	24 V, 1Ø, 50 Hz
RO-BW4-12	2.65	4.02	1.37	7.5	12	380 V 3Ø, 50 Hz	24 V, 1Ø, 50 Hz
RO-BW4-15	3.32	5.02	1.71	10	15	380 V 3Ø, 50 Hz	24 V, 1Ø, 50 Hz
RO-BW4-21	4.64	7.03	2.39	15	21	380 V 3Ø, 50 Hz	24 V, 1Ø, 50 Hz
RO-BW4-24	5.30	8.04	2.73	15	24	380 V 3Ø, 50 Hz	24 V, 1Ø, 50 Hz

For Further Information Please Call Beta Pramesti:

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