

BRACKISH WATER REVERSE OSMOSIS SYSTEM

GAMA SERIES

The GAMA Series Reverse Osmosis (RO) systems are engineered for high-capacity brackish water treatment in industrial and large commercial installations. These systems provide efficient removal of dissolved salts and contaminants while maintaining stable performance and energy efficiency.

FEEDWATER SOURCE

Brackish water sources, including municipal supplies and groundwater, may contain elevated levels of dissolved solids, minerals, and other impurities. These contaminants can affect industrial processes, equipment reliability, and product quality if not properly treated.

OPERATING PRINCIPLE

Reverse osmosis technology is used to separate dissolved salts and impurities from feedwater by applying pressure across a semi-permeable membrane. Water molecules pass through the membrane to form purified permeate, while the remaining concentrated solution containing rejected contaminants exits the system as reject. Pretreatment equipment protects the membranes from fouling and scaling, while high-pressure pumps provide the operating pressure required for membrane separation. The GAMA Series is designed to deliver high productivity and reliable operation for large-scale water treatment applications.

STANDARD FEATURES

- Standard capacities up to 2,500 CMD.
- Compact and space-efficient design.
- User-friendly operation and easy maintenance.
- Low energy consumption design.
- High-quality FRP membrane vessels.
- Plug-and-play system configuration.
- CE certified.

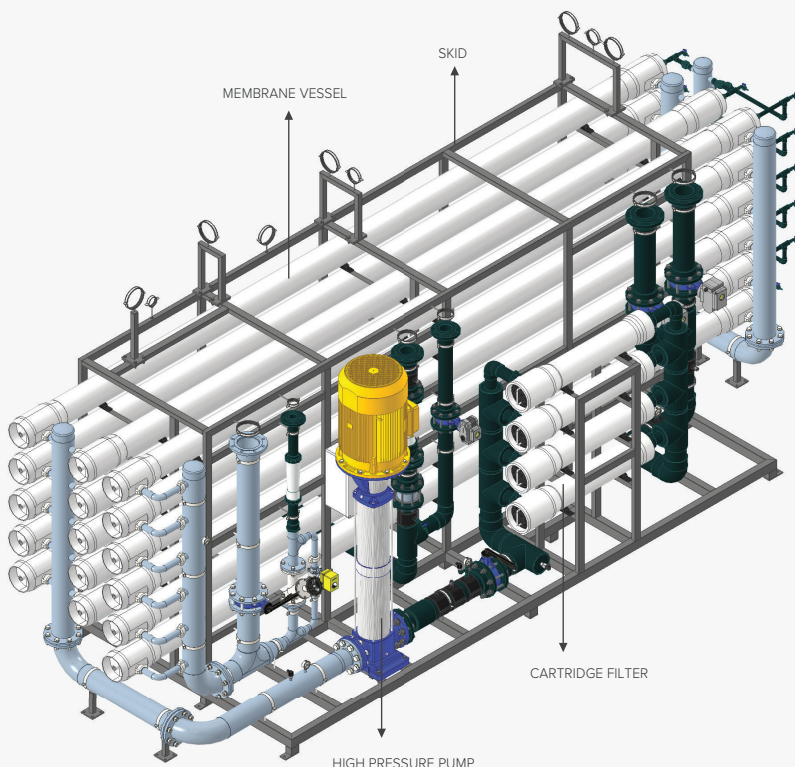
OPTIONAL FEATURES

- Stainless steel skid (SS304 / SS316).
- Automatic operation with PLC control.
- Touch screen HMI control panel.
- Remote monitoring capability.
- Automatic flushing system.
- Integrated CIP cleaning system.
- Custom capacity design.



RECOMMENDED LIMITS FOR FEEDWATER

Parameter	Design Range
Feedwater TDS :	0–10,000 ppm
Feedwater Pressure :	2–5 bar
Feedwater pH Range :	6.0–8.0
Silica (SiO ₂) :	25 ppm max
Iron (Fe) :	< 0.05 ppm
Feedwater Temperature :	10–30 °C
Total Hardness (as CaCO ₃) :	< 200 ppm
Hydrogen Sulfide :	Not present
Oil & Grease :	Not present
Turbidity :	< 1 NTU
SDI :	< 5
Microbiological Contamination :	Not present



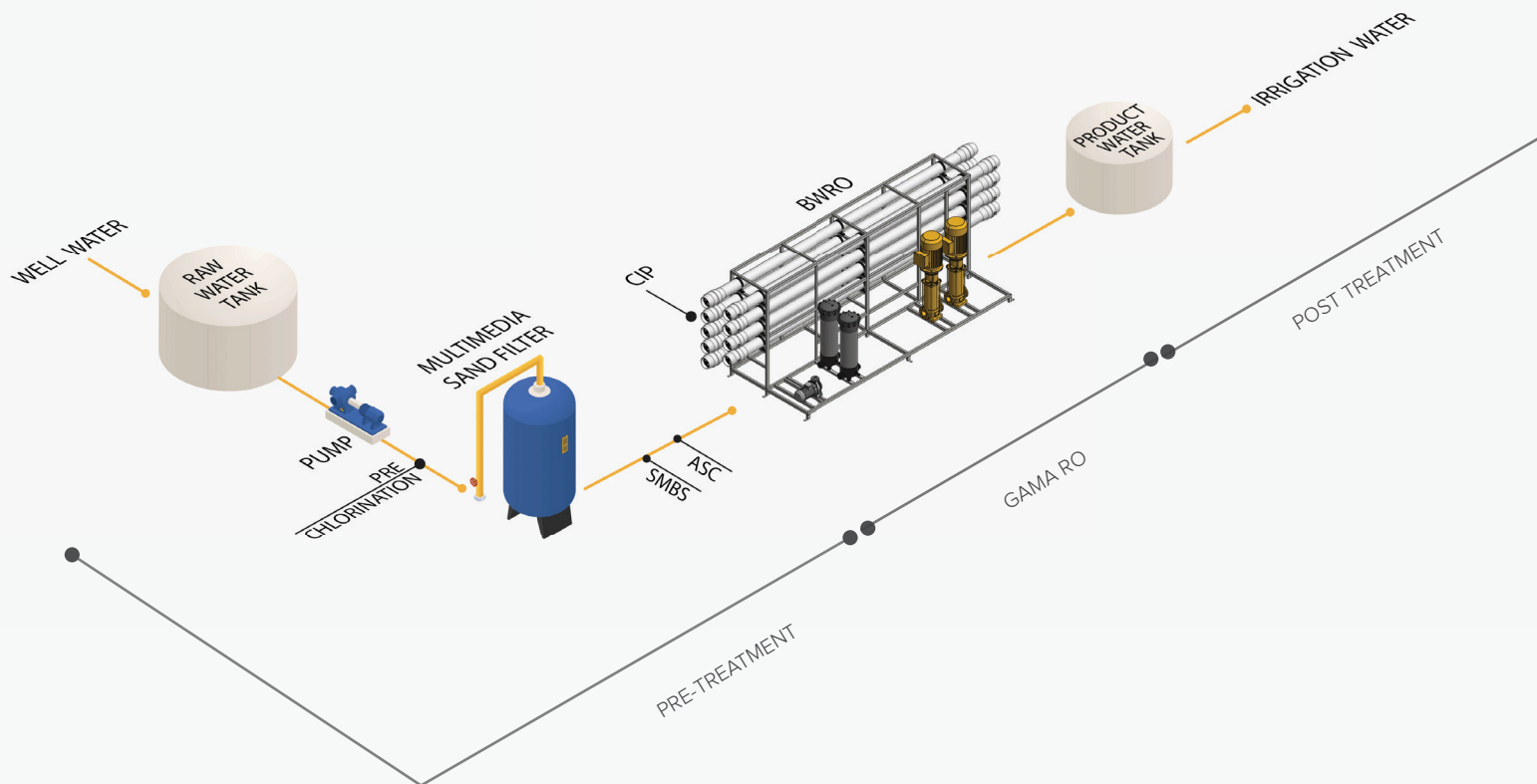
1 ADVANTAGES

- Up to 99% removal of dissolved salts and contaminants.
- Compact skid-mounted design for easy installation.
- Low energy consumption and reduced operating costs.
- Reliable and continuous operation.
- High-quality permeate suitable for potable and industrial use.
- Minimal maintenance requirements.

2 APPLICATIONS

- Potable drinking water production.
- Water bottling plants.
- Commercial and industrial facilities.
- Hotels and resorts.
- Food and beverage industries.
- Boiler feed water applications.
- Agriculture and irrigation.
- Municipal water treatment.
- General industrial process water.

PRIMARY TREATMENT – GAMA RO SYSTEM



REVERSE OSMOSIS GAMA SERIES

Technical specifications.

MODEL	CAPACITY (CMD)	MEMBRANE (QTY)	VESSEL (QTY)	RECOVERY (%)	HIGH PRESSURE PUMP POWER (Kw)	CARTRIDGE FILTER TYPE	CIP TANK VOLUME (L)	CIP PUMP POWER (kW)
GAMA180	1	1	1	50	3	PVC520	500	1,85
GAMA 280	2	2	1	50	4	PVC520	500	1,85
GAMA380	3	3	1	60	3-4	PVC520	500	1,85
GAMA480	4	4	2	60	4	PVC520	500	1,85
GAMA680	6	6	2	60	5,5	PVC520	1000	1,85
GAMA880	8	8	2	70	11	PVC530	1000	1,85
GAMA1080	10	10	2	70	11	PVC530	1000	1,85
GAMA1280	12	12	2	75	11	PVC540	1000	1,85
GAMA1580	15	15	3	75	15	PVC540	2000	3
GAMA1880	18	18	3	75	15	PVC930	2000	3
GAMA2480	24	24	4	75	22	PVC940	2000	4
GAMA3080	30	30	5	75	22	ACF1240	2000	4
GAMA3680	36	36	6	75	22	ACF1240	3000	5,5
GAMA4280	42	42	7	75	37	ACF1640	3000	5,5
GAMA4880	48	48	8	75	30	ACF1640	3000	7,5
GAMA5480	54	54	9	75	37	ACF2740	5000	7,5
GAMA6080	60	60	10	75	37	ACF2740	5000	9,2
GAMA6680	66	66	11	75	45	ACF2740	5000	9,2
GAMA7280	72	72	12	75	45	ACF2740	5000	11
GAMA7880	78	78	13	75	45	ACF2740	5000	11
GAMA8480	84	84	14	75	55	STYRE-3PCS	7500	11
GAMA9080	90	90	15	75	55	STYRE-3PCS	7500	15
GAMA9680	96	96	16	75	55	STYRE-3PCS	7500	15

TECHNICAL SPECIFICATIONS ARE BASED ON THE RECOMMENDED FEED WATER LIMITS; PLEASE CONSULT US IN CASE OF ANY VARIATIONS.

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