

BLUESHARK®

REVERSE OSMOSIS COMMERCIAL SYSTEM



BLUESHARK® RO SYSTEMS

Designed to provide high quality water for commercial applications. These systems are completely constructed with the highest quality components in the industry and most advance technology.

Our Reverse Osmosis Systems have been engineered for capacities ranging from 1 – 6.6 gpm (0.22 – 1.5 m³/hr).



“PASSION FOR EXCELLENCE”

MODEL	INLET PRESSURE	RECOVERY	CAPACITY GPD	MEMBRANE QUANTITY	MEMBRANE MODEL	ARRAY	FLUSH	PUMP MODEL	MOTOR HP	VOLTAGE	SYSTEM PIPING CONNECTIONS		
											FEED	PERMEATE	CONCENTRATE
AWS-2000*	40 - 60 PSI	50%	1400 - 1584	1	LG BW 400 ES	1:0	AUTOMATIC	7GBS05	1/2	110/220 V, 1F, 60 Hz	3/4" FNPT	1/2" FNPT	1/2" FNPT
AWS-4000*	40 - 60 PSI	50 - 70%	2880 - 3168	2	LG BW 400 ES	1:1	AUTOMATIC	7GBS07	3/4	110/220 V, 1F, 60 Hz	3/4" FNPT	1/2" FNPT	1/2" FNPT
AWS-6000*	40 - 60 PSI	50 - 75%	4320 - 4752	3	LG BW 400 ES	1:1:1	AUTOMATIC	7GBS07	3/4	110/220 V, 1F, 60 Hz	1" FNPT	3/4" FNPT	3/4" FNPT
AWS-8000*	40 - 60 PSI	50 - 75%	5760 - 6336	4	LG BW 400 ES	1:1:1:1	AUTOMATIC	7GBS10	1	110/220 V, 1F, 60 Hz	1" FNPT	3/4" FNPT	3/4" FNPT
AWS-10000*	40 - 60 PSI	50 - 75%	7200 - 7920	5	LG BW 400 ES	2:2:1	AUTOMATIC	18GBS20	2	110/220 V, 1F, 60 Hz	1" FNPT	3/4" FNPT	3/4" FNPT
AWS-12000*	40 - 60 PSI	50 - 75%	8640 - 9504	6	LG BW 400 ES	2:2:2	AUTOMATIC	18GBS20	2	110/220 V, 1F, 60 Hz	1" FNPT	3/4" FNPT	3/4" FNPT

* Equipment designed with pressure vessels in stainless steel or fiberglass, LG® membrane and Goulds® pump.

* High efficiency equipment and low energy consumption.

* Code SS: Pressure vessels in stainless steel and FRP: Pressure vessels in fiberglass

SPECIFICATIONS

- LG® membrane
- Goulds® high pressure pump
- Digital meter TDS
- Automatic inlet shut-off valve
- Filter housing
- Pressure vessels in stainless steel or fiberglass
- Membrane rinse (Flush)
- Concentrate valve
- Permeate flow meter (Qp)
- Concentrate flow meter (Qc)
- Recirculation flow meter
- Post-filter pressure gauge
- Feed pressure gauge (Pf)
- Concentrate pressure gauge (Pc)
- Robust construction
- Carbon Steel frame with marine environment coating

APPLICATIONS

- Car wash
- Laboratory
- Metal finishing
- Parts rinsing
- Chemical blending
- Restaurants and bars
- Greenhouses
- Small bottled water plants
- Ice production
- Drinking water
- D.I. pre-treatment
- Electronics plants
- Manufacturing facilities
- Pharmaceutical
- Hemodialysis equipment

OPTIONAL FEATURES

- Dosing pump for antiscalant (Walchem®)

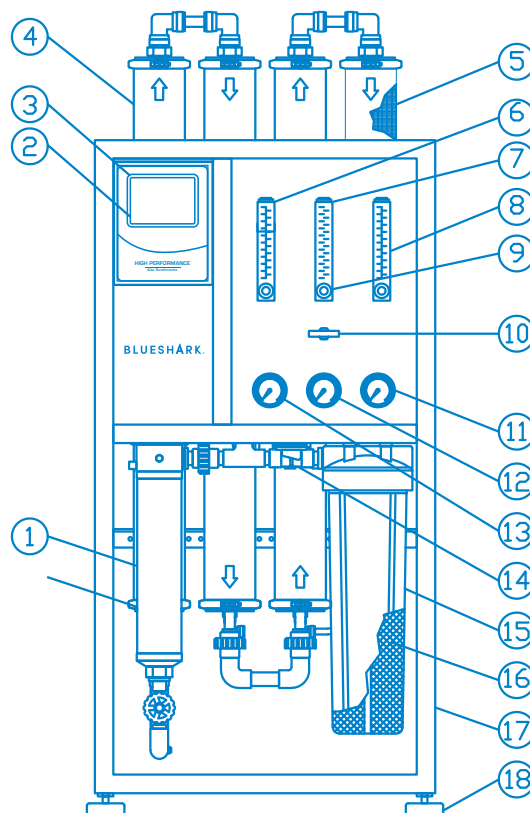
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CONTROL

- System ON/OFF
- Digital meter TDS (feed and permeate)
- Option Manual Flush
- Display: (4 line, 20 character) Clear, concise feedback on the RO's status
- Direction keys
- Alarm: Display backlight flashes along with audible beeper to indicate alarm condition

- Feed low pressure fault
- Pretreatment fault
- Feed conductivity fault
- Permeate conductivity fault
- Flush condition
- Full Tank



1. High pressure pump
2. Digital meter TDS
3. Control
4. Vessel
5. Membrane
6. Concentrate flow meter
7. Recirculation flow meter
8. Permeate flow meter
9. Recirculation valve
10. Concentrate valve
11. Post-filter pressure gauge
12. Concentrate pressure gauge (Pc)
13. Feed pressure gauge (Pf)
14. Automatic inlet shut-off valve
15. Filter housing
16. Cartridge
17. Frame
18. Adjustable frame leveler

OPERATING PARAMETERS

- Nominal Salt Rejection: 98 - 99 %
- Maximum Inlet Silt Density Index (SDI): < 5.0
- Turbidity: <1.0 NTU
- Operating Pressure: 80-220 psi
- Desing Temperature: 25°C (77°F)
- Inlet Water Quality: <1500 ppm TDS, Chlorine-Free/Softened
- pH: 2-11

BLUESHARK®

REVERSE OSMOSIS COMMERCIAL SYSTEM



BLUESHARK® RO SYSTEMS

Designed to provide high quality water for commercial applications. These systems are completely constructed with the highest quality components in the industry and most advance technology.

Our Reverse Osmosis Systems have been engineered for capacities ranging from 8 – 13 gpm (1.82 – 2.95 m³/hr).



“PASSION FOR EXCELLENCE”

MODEL	INLET PRESSURE	RECOVERY	CAPACITY (GPD)	MEMBRANE QUANTITY	MEMBRANE MODEL	ARRAY	FLUSH	PUMP	MOTOR	VOLTAGE	SYSTEM PIPING CONNECTIONS		
								MODEL	HP		FEED	PERMEATE	CONCENTRATE
AWS-16000*	40 - 60 PSI	50 - 75%	11520 -12672	8	LG BW 400 ES	2:2	Automatic	5SV13	5	220/440 V, 3 F, 60 Hz	1 1/2" FNPT	1" FNPT	1" FNPT
AWS-20000*	40 - 60 PSI	50 - 75%	14400-15840	10	LG BW 400 ES	2:2:1	Automatic	5SV13	5	220/440 V, 3 F, 60 Hz	1 1/2" FNPT	1" FNPT	1" FNPT
AWS-24000*	40 - 60 PSI	50 - 75%	17280-18720	12	LG BW 400 ES	2:2:2	Automatic	5SV13	5	220/440 V, 3 F, 60 Hz	1 1/2" FNPT	1" FNPT	1" FNPT

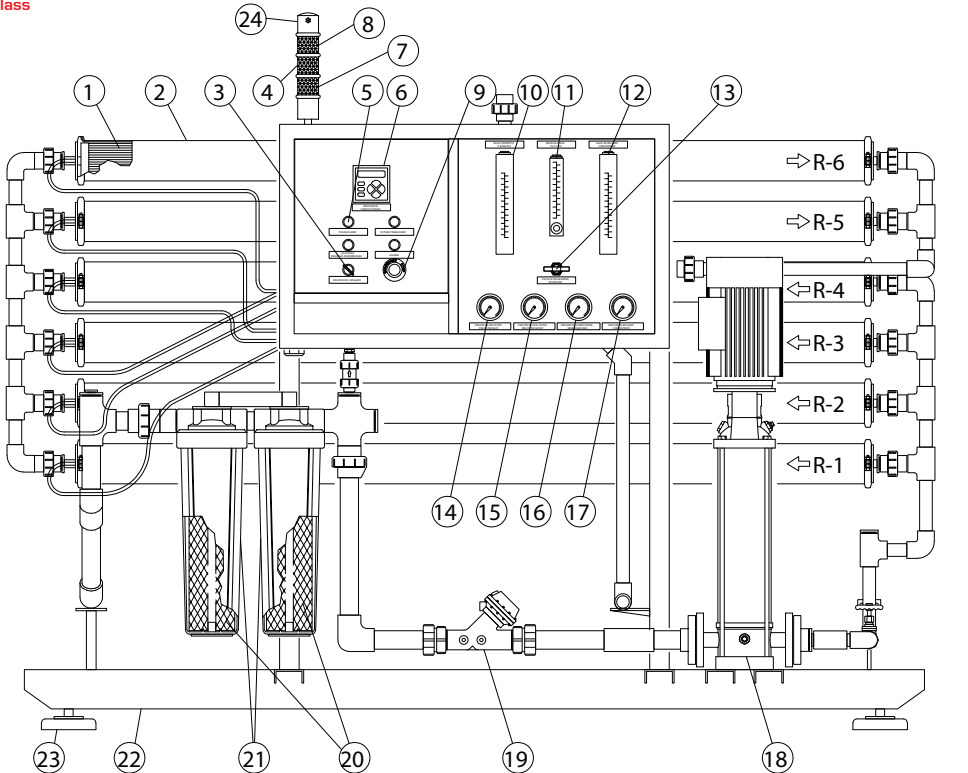
* Equipment designed with pressure vessels in stainless steel or fiberglass, LG® membrane and Goulds® pump.
 * High efficiency equipment and low energy consumption.
 * Code SS:Pressure vessels in stainless steel and FRP: Pressure vessels in fiberglass

SPECIFICATIONS

- LG® Membrane
- Goulds® high pressure pump
- Analog meter TDS
- Automatic inlet shut-off valve
- Filter housing
- Pressure vessels in stainless steel or fiberglass
- Membrane rinse (Flush)
- Concentrate valve
- Permeate flow meter (Qp)
- Concentrate flow meter (Qc)
- Recirculation flow meter
- Pre-filter pressure gauge
- Post-filter pressure gauge
- Feed pressure gauge (Pf)
- Concentrate pressure gauge (Pc)
- Robust construction
- Carbon Steel frame with marine environment coating

APPLICATIONS

- Car wash
- Laboratory
- Metal finishing
- Parts rinsing
- Chemical blending
- Restaurants and bars
- Greenhouses
- Small bottled water plants
- Ice production
- Drinking water
- D.I. pre-treatment
- Electronics plants
- Manufacturing facilities
- Pharmaceutical
- Hemodialysis equipment



1. Membrane
2. Vessel
3. Switch ON/OFF
4. Membrane rinse indicator light (Flush)
5. Equipment ON/OFF indicator light
6. Analog meter TDS
7. Equipment operating indicator light
8. Fault indicator light
9. Emergency stop
10. Permeate flow meter

11. Recirculation flow meter
12. Concentrate flow meter
13. Concentrate valve
14. Pre-filter pressure gauge
15. Post-filter pressure gauge
16. Feed pressure gauge (Pf)
17. Concentrate pressure gauge (Pc)
18. Pressure regulator valve
19. High pressure pump
20. Automatic inlet shut-off valve

21. Cartridge (2)
22. Filter housing (2)
23. Frame
24. Tower light

CONTROL

- Horner PLC
- Analog meter TDS
- Switch ON/OFF
- Equipment ON/OFF indicator light
- Membrane rinse indicator light (Flush)
- Emergency stop
- Tower light with audible alarm
 - Feed low pressure fault

OPERATING PARAMETERS

- Nominal Salt Rejection: 98 - 99 %
- Maximum Inlet Silt Density Index (SDI): < 5.0
- Turbidity: <1.0 NTU
- Operating Pressure: 80-220 psi
- Desing Temperature: 25°C (77°F)
- Inlet Water Quality: <1500 ppm TDS,
- Chlorine-Free/Softened
- pH: 2-11

OPTIONAL FEATURES

- Dosing pump for antiscalant (Walchem®)

BLUESHARK®

REVERSE OSMOSIS SYSTEM



BLUESHARK® RO SYSTEMS

Industrial Reverse Osmosis Systems are designed to provide high quality water for different applications. These systems are completely constructed with the highest quality components in the industry and most advance technology.

Our Reverse Osmosis Systems have been engineered for capacities ranging from 20 - 300 gpm (4.5 - 68 m³/hr).

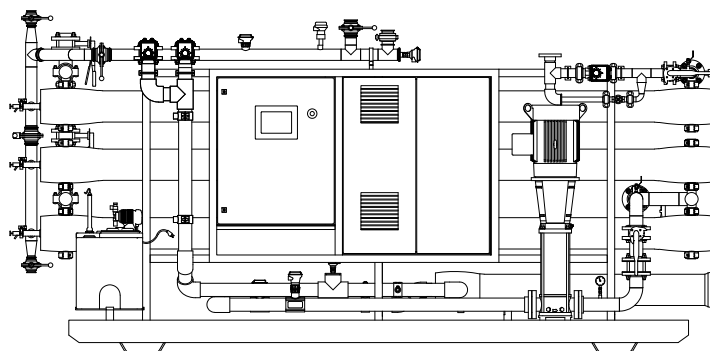


“PASSION FOR EXCELLENCE”

MODEL	CAPACITY GPM	MEMBRANE QUANTITY	ARRAY	PUMP HP	HOUSING QUANTITY	MOTOR HP	SYSTEM PIPING CONNECTIONS		
							FEED	PERMEATE	CONCENTRATE
AWS-2V3M	20 - 30	6	1:1	60-75%	1	10	2"	1 1/2"	1 1/2"
AWS-3V3M	35 - 45	9	1:1:1	60-75%	1	20	2"	1 1/2"	1 1/2"
AWS-3V4M	45 - 60	12	1:1:1	60-75%	1	20	2 1/2"	2"	1 1/2"
AWS-3V5M	60 - 75	15	2:1	60-75%	1	30	3"	2"	2"
AWS-4V4M	65 - 80	16	2:2	60-75%	1	30	3"	2"	2"
AWS-3V6M	75 - 90	18	2:1	60-75%	1	30	3"	2 1/2"	2"
AWS-4V5M	80 - 100	20	2:2	60-75%	2	30	3"	2 1/2"	2"
AWS-5V4M	80 - 100	20	3:2	60-75%	2	30	3"	2 1/2"	2"
AWS-4V6M	95 - 120	24	2:2	60-75%	2	30	4"	2 1/2"	2"
AWS-5V5M	100 - 125	25	3:2	60-75%	2	50	4"	2 1/2"	2 1/2"
AWS-5V6M	120 - 150	30	3:2	60-75%	3	50	4"	3"	2 1/2"
AWS-6V5M	120 - 150	30	3:2:1	60-75%	3	50	4"	3"	2 1/2"
AWS-6V6M	145 - 180	36	4:2	60-75%	3	60	4"	3"	3"
AWS-7V6M	170 - 210	42	4:3	60-75%	4	75	6"	4"	3"
AWS-8V6M	195 - 240	48	5:3	60-75%	4	75	6"	4"	4"
AWS-9V6M	220 - 270	54	5:4	60-75%	4	75	6"	4"	4"
AWS-10V6M	240 - 300	60	6:4	60-75%	5	50 (2)	6"	4"	4"

OPERATING PARAMETERS

- Nominal Salt Rejection: 98 - 99 %
- Maximum Inlet Silt Density Index (SDI): < 5.0
- Turbidity: <1.0 NTU
- Inlet pressure: 40 - 60 psi
- Operating pressure: 150 - 240 psi
- Desing temperature: 15 °C (59 °F)
- Operating temperature: 15 - 25 °C (59 - 77 °F)
- Inlet Water Quality: < 2000 ppm TDS, Chlorine-Free
- pH: 2-11



SPECIFICATIONS

- Pressure transmitters (Danfoss®)
- 316SS pressure gauges (Ashcroft®)
- Permeate and feed flow meters (Signet®)
- Permeate and feed conductivity sensor (Signet®)
- Permeate and feed pH sensor (Signet®)
- Dosing pump for antiscalant (Walchem®)
- Automatic inlet shut-off valve
- Automatic flush valve
- Allen Bradley® Micro 850 PLC System with Touch Screen Panel

MEMBRANE AND HOUSING

- Housing Material: FRP (300 psi)
- Housing Manufacturer: Codeline®
- Membrane model: BW 400 ES
- Membrane Manufacturer: LG®

CONSTRUCTION MATERIAL

- High pressure piping: Sch. 10 316 SS
- Low pressure piping: Sch. 80 PVC
- Frame: Steel with marine environment coating

PUMP AND MOTOR

- Pump: 316SS Vertical multi-stage
- Pump manufacturer: Goulds®
- Motor: TPE, 230/460 V, 3 F, 60 Hz.
- Variable Frequency Drives (VFD): Aquavar®

OPTIONAL FEATURES

- Control RGS8000 EWS
- Membrane Clean in Place (CIP) system
- Stainless Steel piping and/or skid (304, 316, sanitary)
- Biocide and/or pH adjustment dosing pump
- Automatic Flood valve
- Automatic CIP fill valve

CARTRIDGE FILTER

- Housing model: Aqualine™ 80AQ15
- Housing material: FRP
- Housing manufacturer: Pentair
- Cartridge filter: 1 micron nominal
- Cartridge manufacturer: Truwater
- Dimension: 6.75" x 60"

**AMERICAN
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The parameters and specifications depend largely on the quality and temperature of the water to be treated. As we continually strive to improve our products we reserve the right to change specifications and/or components in different models without incurring obligations to previously installed units.