



Military Grade Water Treatment Solutions

BluMetric Environmental Inc. (BluMetric™) is a diverse organization, providing solution-oriented consultation, design, products and construction services to clients with complex environmental issues. BluMetric delivers experienced professional services and solutions in the environmental field, including the geosciences and engineering, water and wastewater treatment, industrial hygiene, occupational health and safety, geomatics and data management, environmental contracting and environmental management.

BluMetric has more than 25 years of experience in water and wastewater treatment and is focused on designing plants and equipment that are compact, energy efficient, reliable and simple to operate. BluMetric specializes in the manufacture of mobile plants and equipment, which are built to be transported and operated under extremely demanding conditions. BluMetric customers include the Canadian Land Forces, Royal Canadian Navy, Seaspan Shipyards, global mining companies and all levels of Government.

BluMetric has consistently delivered reliable water purification solutions with exceptional engineering and field support services to Canada's Department of National Defence for more than a decade. A Canadian company, BluMetric is proud to support our troops in providing 24/7 immediate response services for operational and disaster relief missions. BluMetric continues to design and support innovative and robust treatment solutions, supported by a proven technical capability and expert support team.

MILITARY SERVICES & PRODUCT LINE

BluMetric provides expert service and support for a wide range of water treatment equipment, including systems designed by others. The BluMetric team of Worldwide Conflict Zone Certified Field Service Representatives (FSR) has been commended for providing extraordinary 24/7 immediate response service.

The following BluMetric water treatment solutions have been developed from decades of military, water and wastewater treatment experience:

- Shipboard Reverse Osmosis Desalinator
- Shipboard Chlorine Dosing Unit
- Shipboard Ultraviolet Units
- Shipboard Ballast Water Treatment Unit
- Reverse Osmosis Water Purification Unit
- Personal Water Purification System

For more information, please contact:

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REVERSE OSMOSIS WATER PURIFICATION UNITS (ROWPU)

BluMetric currently supplies the Canadian Department of National Defense (DND) with Reverse Osmosis Water Purification Units (ROWPU) that produce drinking water from nearly any water source. The ROWPUs are used during military operations and/or humanitarian and disaster relief missions. BluMetric also provides 24/7 on-call field service and support for the systems anywhere in the world.

Features:

- Reliable Water Purification (Fresh, Brackish, Salt, Turbid)
- Automatic and Manual Operation
- Fully Self-Contained (20' Container)
- Truck and Air Portable
- Military & Disaster Relief Operations
- NBC Removal (incl. VX Nerve Gas)
- Max Feed Turbidity = 350 NTU
- Max Dissolved Solids = 45,000 ppm
- Max Hardness = 200 mg/L
- Nominal Hourly Output @ (20°C / 1,000 ppm TDS):
 - First Pass = 5,250 LPH
 - Second Pass = 850 LPH
 - Double Pass = 2,750 LPH

SHIPBOARD REVERSE OSMOSIS DESALINATOR (SROD)

BluMetric currently has Shipboard Reverse Osmosis Desalinator (SROD) systems installed on Canada's Halifax Class Frigates and Joint Support Ships (in progress). BluMetric also provides engineering and field support, including immediate response service, for these and other DND SROD systems, including those onboard the Asterix and Kingston Class Coastal Defence Vessels (CDV).

Features:

- Reliable Water Purification (Fresh, Brackish, Salt, Turbid)
- Automatic and Manual Operation
- Remote Monitoring
- Fully Operational At Sea and In Port
- Max Feed Turbidity: 200 NTU (Tested to 350 NTU)
- Max Dissolved Solids: 45,000 ppm
- Max Hardness: 200 mg/L
- Two-Stage Purification System
 - < 150ppm for Drinking Water
 - < 2ppm for Turbine Wash

