

AQUA GUARD

TM

Protecting the World's most precious resource

OIL SPILL RESPONSE SOLUTIONS



Oil Recovery Skimmers

RBS TRITON™ oil skimming systems are versatile, ideal for use in a wide range of applications from calm, protected to offshore and industrial environments.

RBS TRITON™ oil skimming systems are able to recover extremely high oil recovery rates with up to 98% efficiency and are able to respond to most oil spill needs.

Depending on the oil type to be recovered, brush, disc and drum recovery modules can be easily interchanged without tools in less than 5 minutes. New RotoX technology available for floating solids.

Model	Capacity (m3/h)	Capacity (bbl/h)	# Recovery Modules	Calm Water	Protected Water	Open Water	Industrial Solutions	Static Hose Reel	Dynamic Hose Reel	Thrusters	Integrated Crane
RBS TRITON™ 35	38	237	1	√			√	√			
RBS TRITON™ 60	63	396	1	√	√		√	√			
RBS TRITON™ 150	151	950	1	√	√		√	√			
RBS TRITON™ 150 T (Trailer-mounted)	151	950	1	√	√		√	√	√		√
RBS TRITON™ 150 OS (Offshore)	151	950	1	√	√	√		√	√	√	
RBS TRITON™ 300 OS (Offshore)	302	1,900	2	√	√	√			√	√	
URO 300	302	1,900	2	√	√	√		√	√	√	√
URO 600	604	3,800	4	√	√	√			√	√	√

- Power:** Diesel/hydraulic, electric/hydraulic, pneumatic, ship’s hydraulic/electric power, XP Zone 1 compliant
- Testing:** Certified by DNV (Det Norske Veritas) & ABS (American Bureau Services) and witnessed to ASTM Standard F631-99 for oil recovery volume & efficiency and heavy oil recovery capability
- Patents:** RBS TRITON™ oil skimming technology (USA Patent 7,303,688 & Canada Patent 2,578,942)



RBS TRITON™ 35 oil skimmer



RBS TRITON™ 60 oil skimmer

Industrial Water Treatment

Aqua-Guard's industrial oil skimming systems are typically used in refinery and waste-water treatment facilities to remove oil/sludge from a "primary" or "secondary" oil recovery process.

RBS TRITON™ Industrial skimmers:

- Free-floating oil skimmer heads
- Electric/hydraulic and pneumatically powered solutions (explosion-proof/hazardous zone compliant)
- Aqua-Guard skimmers are self-adjusting to fluctuating basin levels thus reducing waste-water circulation and maximizing valuable oil recovery



RotoX - RBS TRITON™150 recovery of solid hydrocarbons

RBS TRITON™ oil skimming systems out-perform the efficiency of traditional half-pipe weir skimmers and are able to operate 24/7 with minimal maintenance



RBS TRITON™ 60 oil skimmers – Chevron Refinery



RBS TRITON™ 100 oil skimmer



RBS TRITON™ explosion-proof/hazardous zone compliant.

Aqua-Guard's skimmers have been permanently installed in refineries and settling ponds around the world for several decades.

Oil Recovery Skimmers – Harbour & Open Water

RBS TRITON™ 150

RBS TRITON™ 150 oil skimming systems are versatile, ideal for use in inshore, extremely stable for open water environments and are able to recover 150 m³/h.

RBS TRITON™ 150 skimmers

- Free-floating oil skimmer head with internal positive displacement lobe pump & power pack
- Pumps may be used independently for fluid transfer or lightering
- Optional: Road trailer with crane system and offshore protective cage, floating hose reel system, RotoX solids removal module



RBS TRITON™ 150 oil skimmer

- DNV certified recovery rates
 - Brush 151m³/h (950 US bbl/h)
 - Disc 45m³/h (283 US bbl/h)
 - Drum 40m³/h (252 US bbl/h)
- Efficient - oil to water recovery up to 98%
- Versatile - Brush/Disc/Drum recovery modules can be easily interchanged
- Simple design - easy to operate and maintain
- Flexible – convertible to an offloading transfer pump

RBS TRITON™ 150 T (Trailer-mounted) skimming system is extremely mobile and can be easily transported to any location that is accessible by vehicle.

The road certified trailer stores the RBS TRITON™ 150 oil skimmer head, diesel/hydraulic power pack / crane system, hose reel with hydraulic and oil transfer hose sets, and a storage box comprising of a 10m³ oil storage tank with accessories.



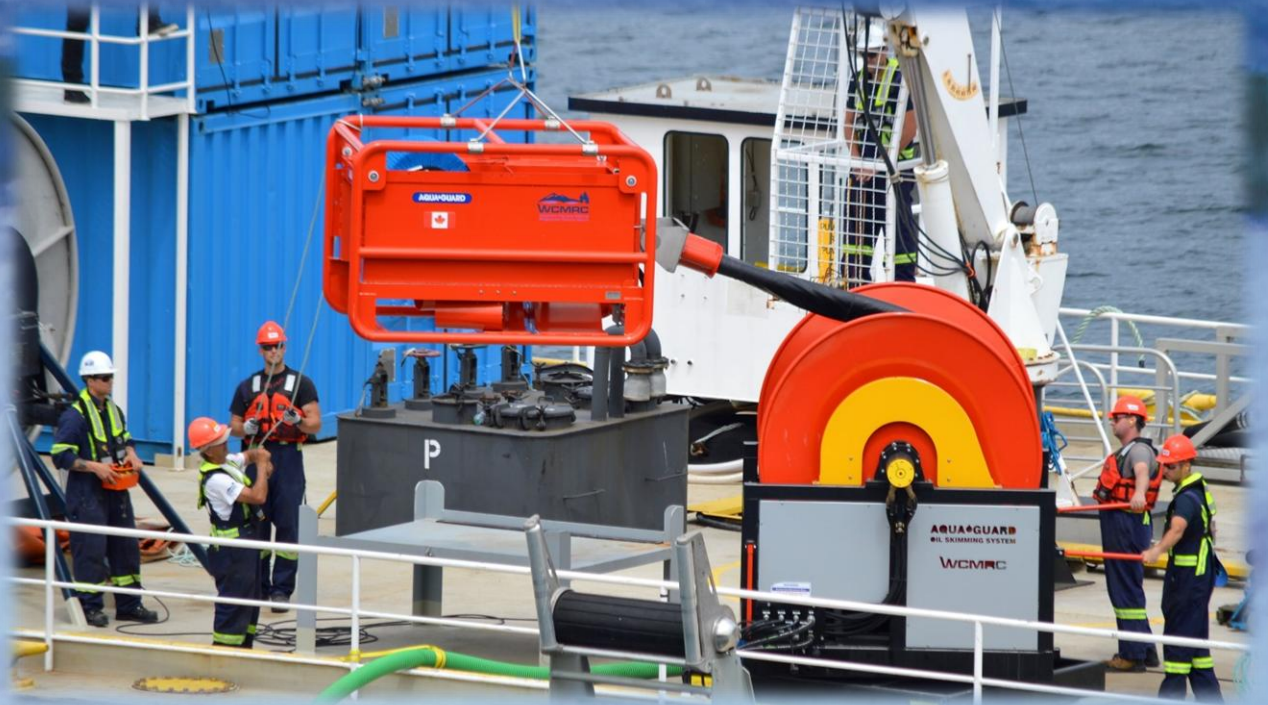
Open Water & Offshore

RBS TRITON™ 150 OS (Offshore)

RBS TRITON™ 150 OS oil skimming systems are versatile, ideal for use in both protected and open water environments and are able to recover 150 m³/h.

RBS TRITON™ 150 OS (Offshore) skimmers

- Free-floating oil skimmer head with internal positive displacement lobe pump & power pack
- Propulsion – Dual 8" thrusters enable the operator to maneuver and position the skimmer
- Controls – wireless/wired remote and manual backup
- Versatile - Brush/Disc/Drum recovery modules can be easily interchanged
- Lightweight and mobile. Once loaded and secured on a vessel or jetty, the system can be deployed by one operator
- Pumps may be used independently for fluid transfer or lightering
- The robust design with protective tubular cage ensures optimal protection of the skimmer head from foreign objects or encounters with the deployment vessel in high wind and sea conditions



Oil & Debris Containment Booms

Aqua-Guard offers a wide range of oil & debris containment barriers. Ranging from permanent port and harbour protection to emergency inshore and offshore response.

LiteFlex Oil Containment Boom	
Application:	Designed for use in protected harbours, lakes, rivers and streams with slow currents
Construction:	PVC coated polyester fabric, non-wicking
Floatation:	Closed cell polyethylene foam segments
Boom Colour:	Orange or yellow
Boat Deployable:	Can be deployed by small watercraft or by hand
Ballast:	Galvanized steel chain



AirFlex Oil Containment Boom	
Application:	Designed for use in protected harbours, unsheltered and offshore waters
Construction:	Heavy duty Rubber/Neoprene fabric
Floatation:	Air chambers inflated by external air blower
Float Colour:	Black with yellow/orange markings
Durability:	Highly durable compared to PU or PVC booms
Ballast:	Galvanized steel chain

HarbourFlex Oil & Debris Containment Boom	
Application:	Permanent installation barrier for petroleum pollution, foam, fish, silt, jellyfish, plant life, etc.
Construction:	UV and marine growth resistant, heavy duty fabric
Floatation:	Long lasting, polyethylene, foam filled floats
Float Colour:	Black and yellow standard – custom colours available
Boat Access:	Boat gates allow small craft access
Ballast:	Additional ballast not required for most applications



Boom Storage and Deployment Reels	
Application:	Aqua-Guard designs and manufactures high quality containment boom reel deployment and storage systems
Power:	All boom reels are powered by an Aqua-Guard hydraulic power pack to facilitate deployment and recovery of booms

Pumps & Power Systems

Aqua-Guard offers custom, specialized pumping and power systems. We work directly with the client's requirements to design a system to suit the exact site conditions.

FEATURES:

Aqua-Guard offers a range of pumping and power systems for all our oil spill response products.

We offer the best solutions for transferring fluid products using diaphragm, rotary lobe & centrifugal screw pumps.

Powered by diesel/hydraulic, electric/hydraulic or pneumatic systems and designed for the toughest environments.

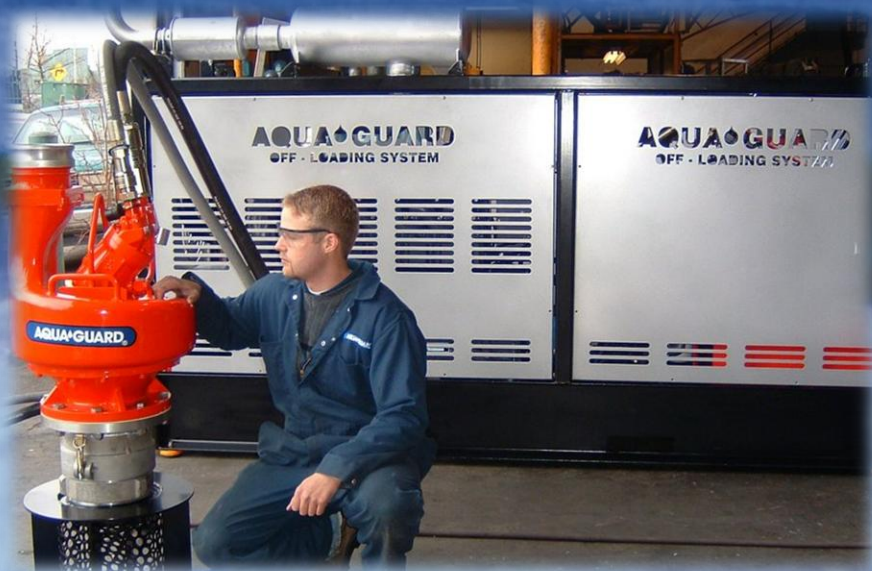
BENEFITS:

Pumps

- Lobe pumps able to move complete viscosity range (low to high)
- Centrifugal screw able to move low to medium viscosities
- Diaphragm pumps able to move low to high viscosities with solids

Power

- All pumps can be driven by either:
 - Diesel/hydraulic
 - Electric/hydraulic (XP - explosion proof available)
 - Pneumatic power



Pump and Power Systems	
Application:	Used to move hydrocarbon products from skimming systems, tanks or as a lightering system
Construction:	Marine grade aluminum / stainless steel

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- OIL SPILL RECOVERY SOLUTIONS -**

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