

Offshore Helicopter Refueling System

Solution For Modularization 



Dispenser Skid

Equipment

- Flow Meter
- Filter Monitor
- Hose Reel
- Delivery Hose
- Overwing Nozzle
- Ground Indicator
- Main Panel



Tank & Pump Skid

Equipment

- Storage Tank
- Pump / Motor
- Filter Separator
- Back Pressure Valve
- Local Panel
- Spill Pot
- Level Gauge

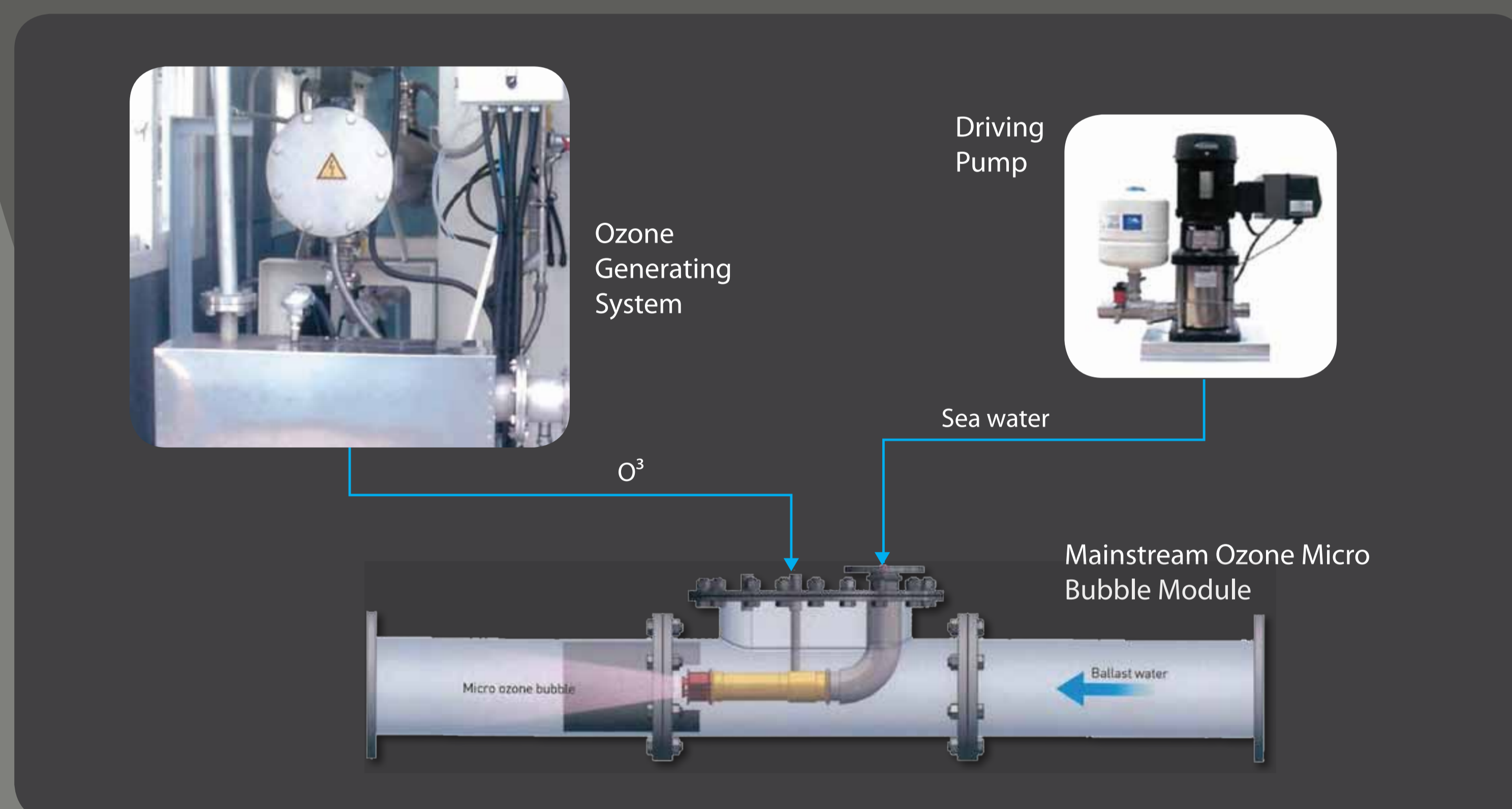


BlueZone™ BWMS

disinfects harmful aquatic organisms and pathogens in ballast water using micro sized ozone bubbles.

What is Ozone?

- Safe & Strongest oxidant, disinfection
- Proven technology in water treatment industries for 100 years



Great Advantage of Micro Ozone Bubble

Maximization of disinfection effect

- Long residence time in ballast tank
- Maximizing dissolution efficiency



Why Bluezone BWMS?

- **Simple**
 - Easy installation
 - Easy operation by full automation
- **Reliable**
 - Proven technology in water treatment industries for 100 years
 - Optimized solution by marine engineering expert
- **Low cost**
 - Min. Ozone injection rate
 - Low power consumption & no filter
 - Min. modification of existing vessel

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BlueZone™ BWMS

BWMS Type Comparison Table

Based on a VLCC, 3000m³/h x 2 sets of ballast pump capacity.

	Ozonation	Electrolysis	Filter + Electrolysis	Filter + UV
Operating Concept	Ballasting	Ballasting	Ballasting+Discharging	Ballasting+Discharging
Pressure loss	0 bar	0.5bar	1.0bar	1.2bar
Electricity Consumption	440kw	684kw	867kw	994kw
Foot print area	26m²	25m²	32m²	33.4m²
Weight (Include yard installation)	21ton	71ton	41ton	85ton
CAPEX	★★★★★	★★★	★★★★	★★★★
Installation	★★★★★	★★	★★★	★★★
Energy saving	★★★★	★★★★	★★★	★
OPEX	★★★★	★★★★	★★★	★★

★ Rate of advantage

MEG Regeneration Package

SHWE Platform-HHI

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