



BIOPURE® Belt Type Oil Skimmer

Smart • Compact • Heavy-Duty • Continuous Automated Hydrocarbon Recovery

SYSTEM OVERVIEW & TECHNOLOGY

BIOPURE® Belt Type Oil Skimmers are high-performance automatic hydrocarbon recovery systems engineered to continuously strip floating oil, fats, grease, and fuels from wastewater separators, CNC coolant tanks, and effluent sumps. Utilizing an endless oleophilic belt, it effectively extracts free-floating hydrocarbons with minimal water carryover (<0.5%), protecting downstream biological units and reducing chemical processing loads.

✓ 100% Automatic 24×7 oleophilic adhesion recovery with double-sided spring-tensioned wiper scrapers.

5 - 600

LPH RECOVERY RATE

99.5%

PURE OIL YIELD

SS304 / SS316

CORROSION PROOF MOC

BIOPURE® BELT TYPE OIL SKIMMER ASSEMBLY

Efficient Oil Removal. Cleaner Water. Better Tomorrow.

Engineered for STP Plants



HIGH
EFFICIENCY



RUGGED &
DURABLE



LOW
MAINTENANCE



ENVIRONMENT
FRIENDLY



Designed for
STP Applications



Reliable
Performance



Better Efficiency
Lower Operating Cost

Continuous Oleophilic Belt Separation System

★ KEY FEATURES & ADVANTAGES



Low Power

0.18–0.75 kW gear motor efficiency.



Compact

Easy retrofit on existing sumps



Automation

PLC & SCADA integration ready



Heavy Duty

Dual Viton/Teflon wiper blades



Environmental & Operational Protection

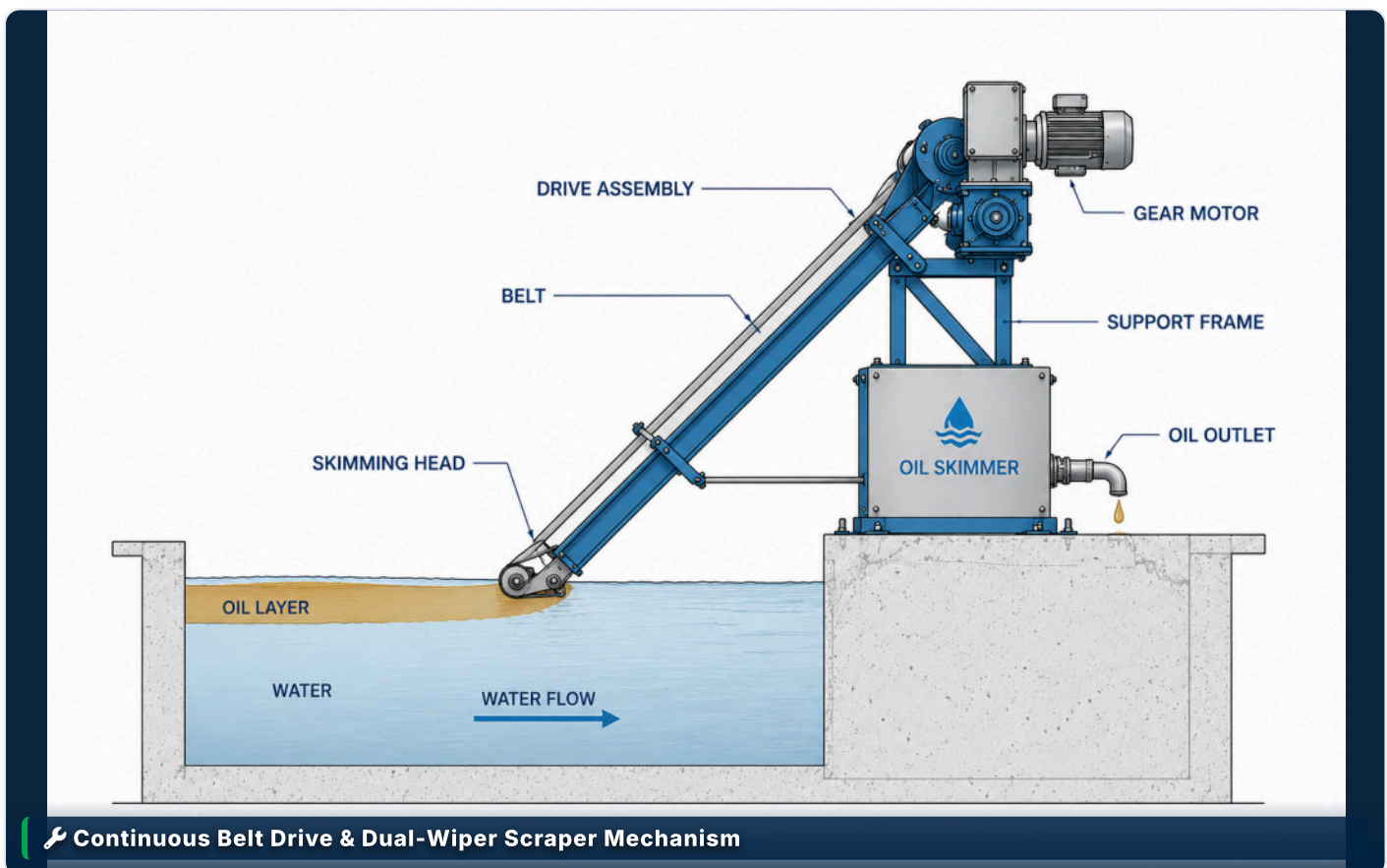
Prevents biological reactor foaming, reduces chemical usage, and recovers reusable oils seamlessly

PRODUCT RANGE SPECIFICATIONS

MODEL NAME	STANDARD BELT WIDTH (MM)	MAX OIL RECOVERY CAPACITY (LPH)
BW-BOS-50	50 mm	5 – 15 Liters/Hour
BW-BOS-100	100 mm	15 – 45 Liters/Hour
BW-BOS-150	150 mm	45 – 90 Liters/Hour
BW-BOS-200	200 mm	90 – 180 Liters/Hour
BW-BOS-300	300 mm	180 – 350 Liters/Hour
BW-BOS-500	500 mm (Heavy Duty)	350 – 600 Liters/Hour

PARAMETER / COMPONENT	INDUSTRIAL STANDARD SPECIFICATION
Material of Construction (MOC)	Stainless Steel (SS304 / SS316) Frame & Canopy Box
Belt Material	Specialty Oil-Resistant Polymer / Stainless Steel Mesh
Scraper Wiper Assembly	Spring-Tensioned Double-Sided Viton / Teflon Wipers
Drive Motor & Gearbox	0.18 – 0.75 kW High-Torque Helical Gear Motor (IP55/IP65)
Maximum Sump Depth	Up to 10 Meters (Customizable belt length)

SYSTEM SCHEMATIC & MECHANICAL LAYOUT



TARGET APPLICATION SECTORS

 ETP / STP Plants Effluent Pre-treatment	 CNC & Machining Tramp Oil Removal	 Oil & Petrochem API Separator Basins	 Automobile & Steel Wash-down & Lube Sumps
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