

PRODUCT DATA SHEET

Oil Skimmers Mechanical (OSM)

water | wastewater | sewage

OVERVIEW

Oil skimmers are a simple and reliable way to remove oil, grease and other hydrocarbons from water. Most hydrocarbons have a lower specific gravity than water, so when the liquid is not agitated, oil separates and floats to the surface. In addition, oil bonds more readily to itself and to other materials than it does to water. This difference in surface tension allows oil to adhere to a moving skimmer, which then carries the oil away from the liquid surface.

MAK Water offers a range of Abanaki belt and tube skimmers suitable for a wide range of applications. Belt skimmers use an endless belt of corrosion resistant steel or synthetic material, which is lowered into the tank or vessel to be skimmed. The belt passes through a set of wipers that remove oil from both sides of the belt. A tube skimmer uses a long floating tube that snakes out over the surface of the liquid, and as the tube is drawn back through the drive unit, the oil is removed by a wiper mechanism. Tube skimmers typically require a large surface area for proper operation and can skim oil from very shallow tanks.

Oil skimmers are available as standalone equipment or can be integrated with a decanter system for removal of water that is skimmed with the oil.



APPLICATIONS

- Wastewater sumps & pump stations
- Manufacturing plants
- Food processing plants
- Gas processing facilities
- Heavy equipment service & workshops
- Industrial wastewater treatment facilities
- Truck, train and other mobile equipment washing facilities

STANDARD SPECIFICATIONS

M4= Model 4

M8=Model 8

MM=Mighty Mini

OV = Oil Viper

Parameter	Units	OSM-M4	OSM-M8	OSM-MM	OSM-OV
		Belt Skimmers			Tube Skimmer
Treatment Capacity	L/h	76	152	4 and 8	378
Liquid temperature range	degC	0-100			
Liquid pH range capacity	pH	2-13			
Belt width	mm	100	200	25 and 50	-
Belt length		Project specific, up to 30m		153, 305, 458, 610 mm	-
Belt material		CR steel, Engineered Poly, Fuzzy			-
Tube diameter, OD	mm	-	-	-	19
Tube length	m	-	-	-	up to 30
Tube material		-	-	-	Polyester
Wiper material		CRV		Poly	Ceramic (fixed) and Nitrile
Materials of construction, housing		Powder coated steel, 316SS		316SS	Powder coated steel, 316SS
Material of construction, tail pulley		Powder coated steel, 316SS		Polyethylene	-
Motor IP55 (3ph, 400V, 50Hz)	kW	0.18	0.18	-	0.18
Motor IP55 (1ph, 230V, 50Hz)	W	-	-	3.45	-
Weight (for drive assembly and housing with motor, without belt or tail pulley or tube)	kg	32	37	5	34

Notes: CR = corrosion resistant / CRV = corrosion resistant viton

STANDARD INCLUSIONS + OPTIONS

Equipment		OSM-M4	OSM-M8	OSM-MM	OSM-OV
Materials of construction, housing	Powder coated steel	✓	✓	-	✓
	316SS	o	o	✓	o
Materials of construction, tail pulley	Powder coated steel	✓	✓	-	-
	316SS	o	o	-	-
	Polyethylene	-	-	✓	-
Belt / Tube	CR steel	✓	✓	✓	-
	Engineered Poly	o	o	o	-
	Fuzzy	o	o	o	-
	Polyester	-	-	-	✓
Wiper	CRV	✓	✓	-	-
	Poly	-	-	✓	-
	Ceramic (fixed) and Nitrile	-	-	-	✓
Motor IP55 (3ph, 400V, 50Hz)	Standard	✓	✓	-	✓
	Ex-d rated (flameproof or explosion-proof)	o	o	-	o
Motor IP55 (1ph, 230V, 50Hz)	Standard	-	-	✓	-
Motor weather hood	304SS	o	o	-	o
Skimmer belt / tube shroud	304SS	o	o	-	o
Skimmer stand	Galvanised steel	o	o	o	o
	304SS	o	o	o	o
Decanter (for removal of water that is skimmed with the oil) 304SS	A - Standard	o	o	o	o
	B - with integrated waste oil tank	o	o	o	o
	C - with integrated waste oil tank and transfer pump	o	o	o	o

Instrumentation & Controls	OSM-M4	OSM-M8	OSM-MM	OSM-OV
Control panel standard, built to AS3000 w/ FRP enclosure suitable for outdoor installation, 400V 3ph 50Hz power supply, including Auto/Off/Manual selector; External Main Switch; Timer, battery back-up	✓	✓	-	✓
Custom Control Panel - to customer specifications	o	o	o	o

✓ = Standard supply o = Optional supply



MODEL SELECTION

- M4

Capacity up to 76 L/h
- M8

Capacity up to 152 L/h
- MM

Capacity up to 8 L/h
- OV

Capacity up to 378 L/h
- X

Materials of construction, powder coated steel (standard for M4, M8, OV)
- 6

Materials of construction, 316SS (standard for MM)
- X

Materials of construction, tail pulley, powder coated (standard)
- 6

Materials of construction, tail pulley, 316SS
- P

Materials of construction, tail pulley, Polyethylene, model MM only
- X

Belt material, CR steel (standard for M4, M8, MM)
- E

Belt material, Engineered Polymer
- F

Belt material, Fuzzy
- P

Belt material, Polyester (standard for OV only)
- X

Wiper material, CRV, standard for M4, M8
- P

Wiper material, Polymer, standard for MM
- N

Wiper material, Ceramic (fixed) and Nitrile, standard for OV
- C

Control panel, included (standard)
- X

Control panel, without
- X

Specification, standard
- C

Specification, custom

OSM - -- - - - - -



NEED A QUOTE?
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OSM-PDS-001 | JUL-2026