

TECHNICAL SPECIFICATION

KOMARA MIDI 2 DUPLEX SKIMMER WITH ONBOARD PUMP

Part Number: KI/0490

Application

The Komara Midi 2 Duplex Skimmer with Onboard Pump is a comprehensive skimmer with a capable integral positive displacement pump. This compact skimmer can be configured as an efficient oleophilic disc skimmer, or as a brush skimmer. The discs provide very low free water pickup with oil viscosities as low as 5cSt. The brush extends the range of viscosities up beyond 15,000cSt. The longitudinal collection hopper receives recovered oil directly from both sides. The hopper is steep-sided with the mouth of the pump located at the bottom. The positive displacement pump is capable of pumping the full range of viscosities with high discharge pressures for rapid transfer of recovered oil. The discharge camlock size is optimized to facilitate connection of high-capacity hoses which are still compact and light. This allows easy manual handling, deployment and recovery. The skimmer is simple in construction and built from proven componentry and is easy to clean, maintain and repair. Deployment and recovery of the skimmer are simplified due to the integral pump. The hose count is also reduced thanks to the common hydraulic return. Proven hydraulic design ensures high torque is available with excellent low speed performance. The crimped bristles are manufactured in polypropylene to ensure good chemical resistance, low water absorption and good oleophilic performance. The skimmer can be quickly converted from discs to brushes or vice-versa in the field, without the need for special tools.

Dimensions

Length	88 cm
Width	88 cm
Height	46 cm
Weight	47 Kg

Construction

Body	Marine grade aluminium and FRP
Fittings	Stainless steel and marine grade aluminium
Buoyancy	MDPE floats
Scrapers	Flexible polymer
Discs	16 off rigid oleophilic polymer
Brush	Polypropylene (PP) crimped bristles, PP cylinder
Lifting	4 off lifting lugs and integral carry handles in cover
Discharge	2.5" male camlock (A/A)
Pump	Flexible impeller with direct hydraulic drive Marine grade AA cast body

Hydraulics

Motors	Discs/ Brushes	2 off via hydraulic flow splitter <i>(ensures high torque available for brush recovery of high viscosity oil)</i>
	Pump	High torque. Spline shaft drive.
Disc/Brush Speed Maximum Demand	Variable to 60 rpm maximum. Control on powerpack.	
	Disc/Brush	6 l/min at 50 bar
	Pump	20 l/min at 100 bar
Connections	QRC	
	Pump	Pressure 1/2" male QRC
	Disc/Brush	Pressure 3/8" male QRC
	Return	Common Return Via female QRC

Operating Parameters

Operating Draft	17 cm (minimum operating depth 9 cm)
Pump Pressure	Up to 2.5 bar
Pump Flow	Up to 15 m ³ per hour <i>(maximum flow and pressure not available simultaneously)</i>



Shipping Details

Length	148 cm
Width	101 cm
Height	71 cm
Weight	110 Kg

Unit is supplied built with discs in place, brushes supplied in stands.

Standard Equipment

Operation and Maintenance Manual including Spare Parts List (Printed and Digital)
 Lifting Sling

Optional Accessories

Overall PVC Weather Cover	
Spares and Service Kit – Skimmer	(SK/0166)
Spares and Service Kit – Onboard Pump	(SK/0167)
Pump Impeller Removal Tool	(0020TK)