

8.1 Technical data

Alfa Laval ref. 556001 rev. 0

Units according to ISO Standard.

The manufacturer reserves the right to change specifications without notice.

Product number	881145-09-01
Separator type	MAB 103B-24
Purpose	Continuous purification of heavy fuel oil or lubricating oil from solid particles and water. or Continuous clarification of heavy fuel oil or lubricating oil from solid particles. The flash point of the oil to be separated must be minimum 60 °C.
Hydraulic capacity	Maximum 1,4 m ³ /h
Process capacity	Maximum oil flow at the maximum permissible oil density 991 kg/m ³ at 15 °C. The density is preferably measured at 50 °C according to ASTM method D 1298-80 and corrected to 15 °C according to ASTM tables D 1250-80. <i>Fuel oils, diesel engine</i> <ul style="list-style-type: none">Distillate: Maximum oil flow viscosity 1,5-5,5 cSt/40 °C 1,15 m³/hMarine Diesel Oil: Maximum oil flow viscosity 13 cSt/40 °C 0,9 m³/h <i>Lubricating oils, by-pass treatment, optimum</i> <ul style="list-style-type: none">R & O type: Maximum oil flow Crosshead diesel 0,4 - 0,5 m³/hDetergent: Maximum oil flow Crosshead diesel 0,3 - 0,4 m³/h Trunk piston diesel 0,2 - 0,3 m³/hSteam turbine: Maximum oil flow 0,8 m³/h
Max. density of sediment	5000 kg/m ³

Max. density of feed 991 kg/m³, (mechanical safety max. 1100 kg/m³)

Feed temperature Minimum 0 °C
Maximum +100 °C

Ambient temperature Minimum +5°C
Maximum +55 °C

Motor 4-pole 0,75 kW standard motor, 50 or 60 Hz, 3-phase.
Direct on-line start.
If Y/D-start is used maximum 5 seconds in Y position.

Power consumption

idling 0,4 kW
running (at max. capacity) 0,6 kW
max. power consumption 0,6 kW (at starting-up)

Speed The prescribed speed of the bowl spindle which must not be exceeded, is stamped on the name plate of the machine.

Gear ratio	40 : 7	43 : 9
<i>Maximum speed of rotation, rpm</i>	50 Hz	60 Hz
Motor shaft speed	1500	1800
Revolution counter speed	71 - 75	85 - 90
Bowl speed	8570	8600

Starting time 3 minutes

Stopping time Running down with brake applied min. 2 minutes
max. 2,5 minutes
without brake 6 minutes (average)

Maximum running time without flow empty bowl 480 minutes
filled bowl 480 minutes

Inlet pump, built-on	Capacity	50 Hz	60 Hz
	529209-82	1150 litres/h	1380 litres/h
	529209-83 (option)	580 litres/h	700 litres/h
	Suction lift Delivery head	Max. 4 m wg (manometric) Max. 15 m wg (manometric)	
Outlet pump, built-on	Capacity	50 Hz	60 Hz
	529209-82	1270 litres/h	1520 litres/h
	529209-83 (option)	640 litres/h	770 litres/h
	Delivery head	15 - 25 m wg (depending on flow and viscosity)	
Sludge and water space volume	0,56 litres		
Required water quality	Fresh water		
Lubrication	see "8.7.1 Lubrication chart, general" on page 131.		
Lubricating oil volume	0,8 litres		
Weight	Separator without motor	Net weight approx. 75 kg.	
	Motor	Approx. 13 kg.	
	Complete bowl	Approx. 13 kg.	
Shipping data	According to "Basic equipment"		
	Weight	100 kg (Net 85 kg)	
	Volume	0,30 m ³	
Sound power level	7,6 bel(A) ISO 3744, 1,2 m ³ /h		
Sound pressure level	64 dB(A) ISO 3744, 1,2 m ³ /h		
Vibration level	Max. for separator in use	9 mm/s (RMS)	
Materials	Bowl spindle, lock ring	steel	
	Frame, lower and upper parts	cast iron ("Centriblue" finish ¹)	
	Collecting cover	silumin (grey finish ¹)	
	Bowl body and hood, disc stack, gravity disc	stainless steel	
	Other bowl parts	brass	
	Other inlet and outlet parts	stainless steel, brass, cast iron	
		¹)An epoxy enamel	