

8.1 Technical data

Alfa Laval ref. 557968 rev. 0

Units according to ISO Standard.

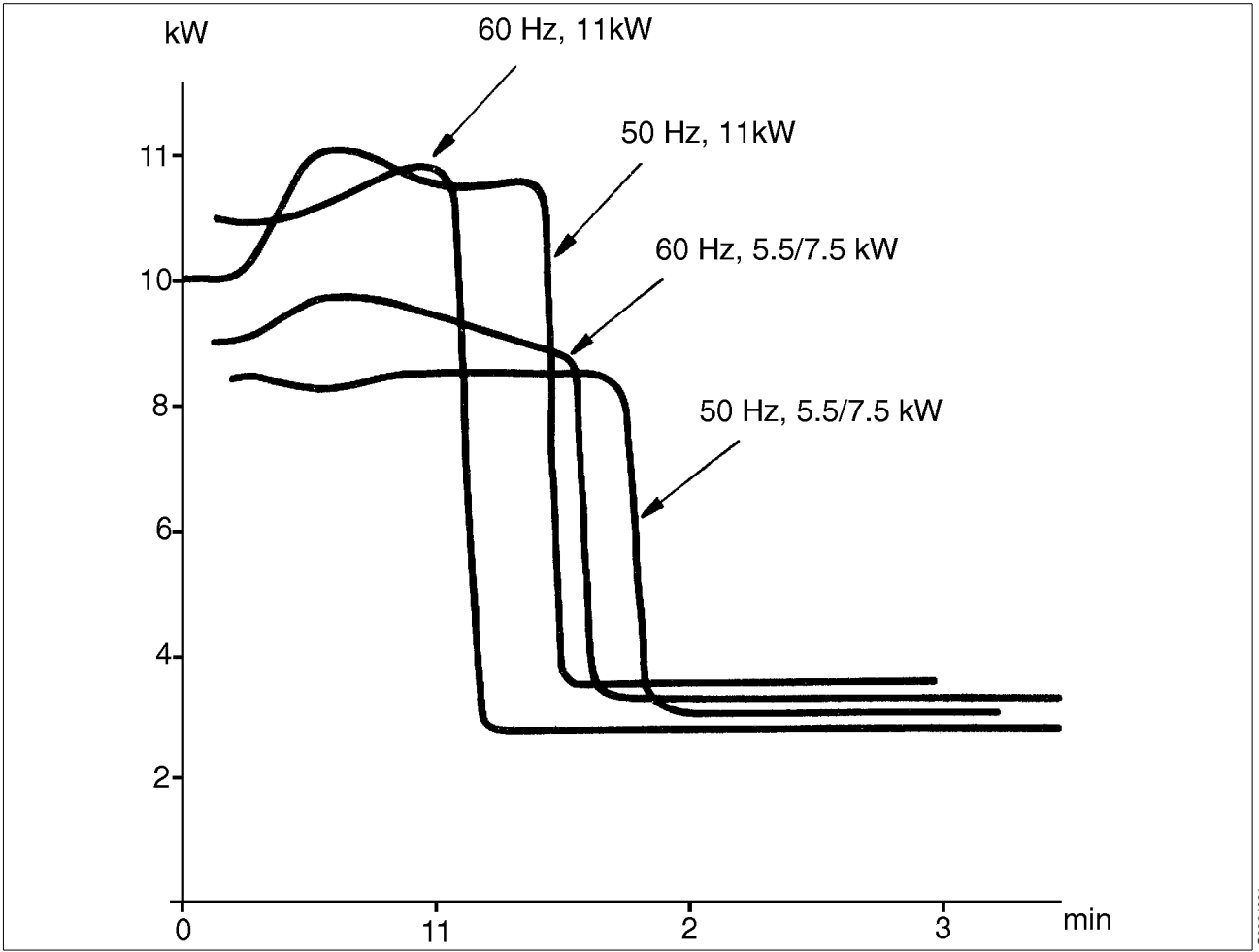
The manufacturer reserves the right to change specifications without notice.

Product number	881240-22-12
Separator type	MAB 206S-24
Purpose	Continuous purification of lubricating oils or low viscosity fuel oils from solid particles and water or continuous clarification of lubricating oils or low viscosity fuel oils from solid particles. The flash point of the oil to be separated must be minimum 60 °C.
Hydraulic capacity	Maximum 10,6 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 9,9 m³/hMarine Diesel Oil: Maximum oil flow Viscosity 13 cSt/40 °C 7,1 m³/h <i>Lubricating oils, by-pass treatment, optimum</i> <ul style="list-style-type: none">R & O type: Maximum oil flow Crosshead diesel 3,7 m³/hDetergent: Maximum oil flow Crosshead diesel 3,2 m³/h Trunk piston diesel 2,1 m³/hSteam turbine: Maximum oil flow At 55 °C 4,9 m³/h At 70 °C 7,8 m³/h
Max. density of sediment	1600 kg/m ³
Max. density of feed	991 kg/m ³ , (mechanical safety max. 1100 kg/m ³)

Feed temperature	Minimum 0°C Maximum +100 °C	
Ambient temperature	Minimum +5°C Maximum +55 °C	
Motor (without pump)	4-pole 5,5 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.	
Motor (with pump)	4-pole 12 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	3,3 kW
	Running (at max. capacity)	8 kW
	Max. power consumption	10/12 kW (at starting-up, 5,5/12 kW motor)
Speed	The prescribed speed of the bowl spindle which must not be exceeded, is stamped on the name plate of the machine.	
		50 Hz 60 Hz
	Gear ratio	73:13 70:15
	Motor shaft (rev/min)	1500 1800
	Revolution counter (rev/min)	118-125 142-150
	Bowl (rev/min)	8423 8400
Starting time	1,2 - 2 minutes	
Stopping time	Running down with brake applied	3-4 minutes
	Without brake	24 minutes (average)
Maximum running time without flow	Empty bowl	480 minutes
	Filled bowl	480 minutes
Inlet pump, built-on	Capacity	50 Hz 60 Hz
	538718-81	8,54 m ³ /h 10,25 m ³ /h
	538718-83	4,35 m ³ /h 5,22 m ³ /h
	Suction lift	Max. 4 m wg (manometric)
	Delivery head	Max. 15 m wg (manometric)
Sludge and water space volume	3,44 litres	
Required water quality	Fresh water	
Lubrication	See "8.7.1 Lubrication chart, general" on page 161.	

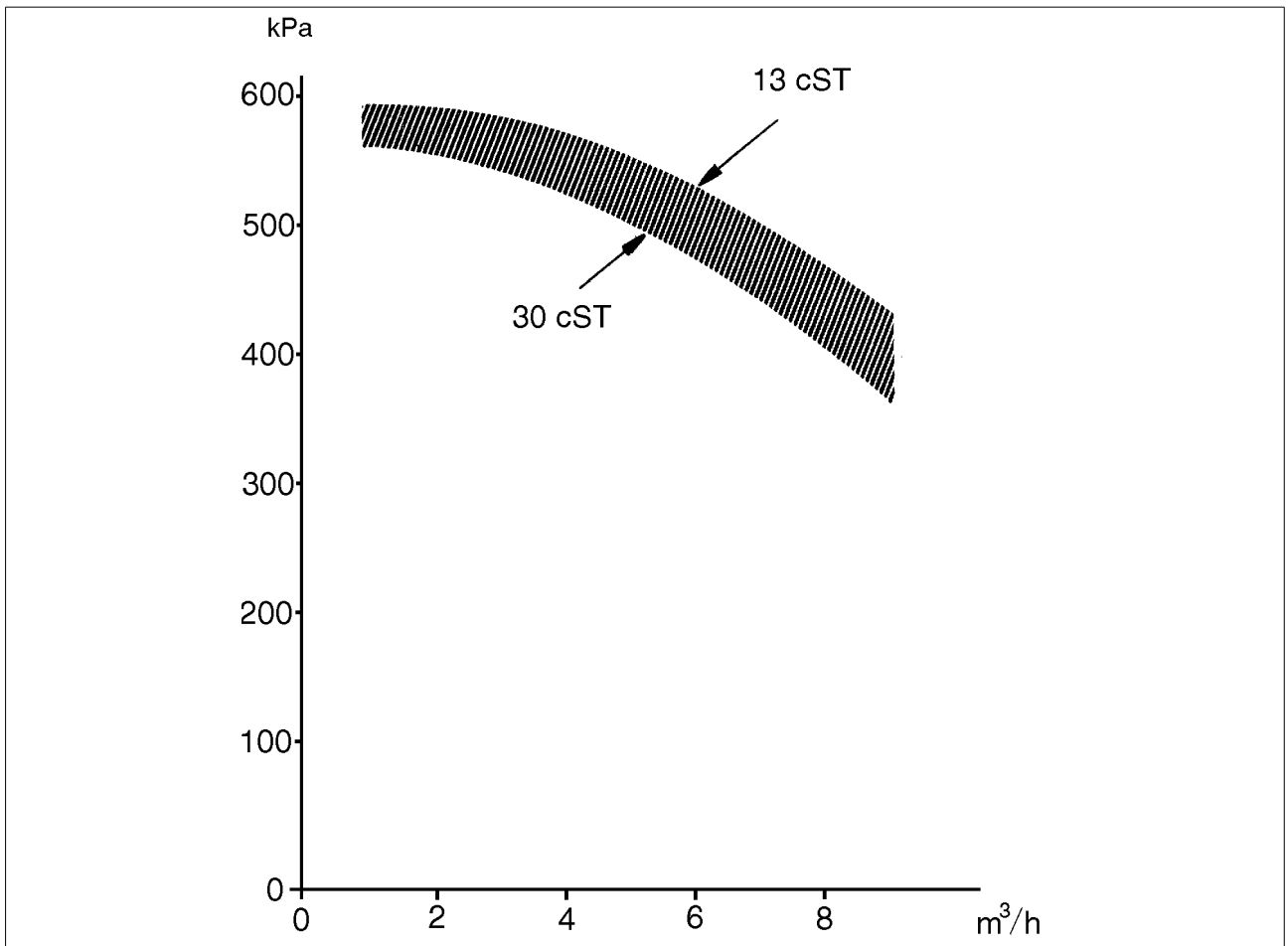
Lubricating oil volume	4 litres	
Weight	Separator without motor	Net weight approx. 334 kg.
	Motor 5,5 kW	Approx. 40 kg.
	Motor 12 kW	Approx. 72 kg.
	Complete bowl	Approx. 65 kg.
Shipping data	According to "Basic equipment"	
	Weight	520 kg (Net 400 kg)
	Volume	1,25 m ³
Sound power level	9 Bel(A) ISO 3744	
Sound pressure level	75 dB(A) ISO 3744	
Vibration level	Max. for separator in use	9 mm/sec (RMS)
Materials	Bowl spindle, lock ring	Steel
	Frame, lower and upper parts	Cast iron ("Centriblue" finish ¹)
	Collecting cover	Aluminium
	Bowl body and hood, disc stack, gravity disc	Stainless steel
	Sludge basket	Stainless steel
	Other bowl parts	Tinned steel, bronze, brass
	Other inlet and outlet parts	Tinned steel, bronze, brass and cast iron

¹)An epoxy enamel



Power consumption at startup, power input vs time.

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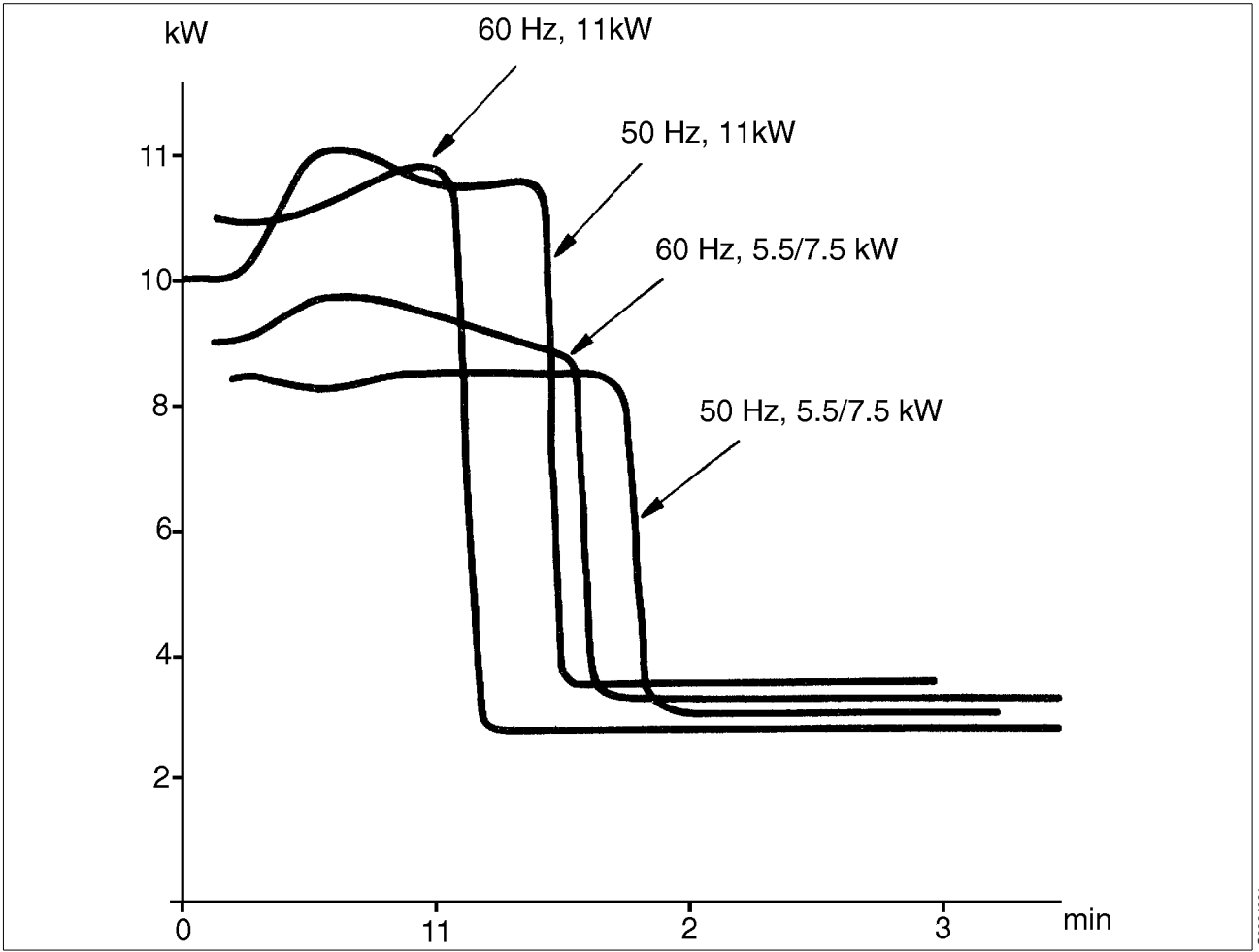
Paring disc pressure characteristics. Back pressure vs flow.

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Feed temperature	Minimum 0°C Maximum +100 °C	
Ambient temperature	Minimum +5°C Maximum +55 °C	
Motor (without pump)	4-pole 5,5 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.	
Motor (with pump)	4-pole 12 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	3,3 kW
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	538718-81	8,54 m ³ /h 10,25 m ³ /h
	538718-83	4,35 m ³ /h 5,22 m ³ /h
	Suction lift	Max. 4 m wg (manometric)
	Delivery head	Max. 15 m wg (manometric)
Sludge and water space volume	3,44 litres	
Required water quality	Fresh water	
Lubrication	See "8.7.1 Lubrication chart, general" on page 161.	

Lubricating oil volume	4 litres	
Weight	Separator without motor	Net weight approx. 334 kg.
	Motor 5,5 kW	Approx. 40 kg.
	Motor 12 kW	Approx. 72 kg.
	Complete bowl	Approx. 65 kg.
Shipping data	According to "Basic equipment"	
	Weight	520 kg (Net 400 kg)
	Volume	1,25 m ³
Sound power level	9 Bel(A) ISO 3744	
Sound pressure level	75 dB(A) ISO 3744	
Vibration level	Max. for separator in use	9 mm/sec (RMS)
Materials	Bowl spindle, lock ring	Steel
	Frame, lower and upper parts	Cast iron ("Centriblue" finish ¹)
	Collecting cover	Aluminium
	Bowl body and hood, disc stack, gravity disc	Stainless steel
	Sludge basket	Stainless steel
	Other bowl parts	Tinned steel, bronze, brass
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