

Edition:

1. Oil Separators - 2 SU

MDPC

## General Information

### System Information - System Data

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Media	Fuel oil and lube oils for diesel engines and fuel oil for gas turbines	
Feed density, min. max.	820 kg/m <sup>3</sup> at 15°C 1010 kg/m <sup>3</sup> at 15°C in Alcap mode	
Viscosity, max.	55cSt at 100°C (700cSt at 50°C)	
Pressure:		
Oil inlet	Max. 2 bar	
Oil outlet	Min. 2,5 bar	
Sludge outlet from separator	Open outlet	
Sludge outlet from sludge pump	Max. 5 bar at 6 bar air pressure	
Separated water	Max. 4 bar	
Feed temperature, max.	100°C ± 2°C	
Ambient temperature	Min. +5°C, max. +55°C	
Discharge volume		
SU 811/816	1,6 litres/discharge	
SU 821/826	1,6 litres/discharge	
SU 831/836	2,4 litres/discharge	
SU 841/846	4,1 litres/discharge	
SU 851/856	7,2 litres/discharge	
SU 861/866	10,0 litres/discharge	
SU 871/876	15,4 litres/discharge	
SU 881/886	26,0 litres/discharge	
Operating water pressure	Min. 2 bar, max. 6 bar	
Operating water temp.	Min. +5°C, max. +55°C (unheated water)	
Operating water consumption (without make-up water)		
SU 811/816	2,9 litres/discharge	
SU 821/826	2,9 litres/discharge	
SU 831/836	3,7 litres/discharge	
SU 841/846	5,3 litres/discharge	
SU 850/855	8,4 litres/discharge	
SU 861/866	11,6 litres/discharge	
SU 871/876	17,2 litres/discharge	
SU 881/886	26,3 litres/discharge	
Sludge production/day (without any separated solids and water)	Discharge interval: 1 hr      Discharge interval: 2 hrs	
SU 811/816	95 litres	65 litres
SU 821/826	95 litres	65 litres
SU 831/836	114 litres	75 litres
SU 841/846	153 litres	97 litres
SU 851/856	228 litres	141 litres
SU 861/866	305 litres	181 litres
SU 871/876	440 litres	253 litres
SU 881/886	658 litres	379 litres
Operating water density	Max. 1000kg/m <sup>3</sup>	
Operating water flow		
SU 811/816	0,9 L/min (SV 10 displacement) 11,0 L/min (SV 15 opening)	

this is the min back pressure we keep on the machine

Max available discharge pressure available from our paring pump is 3.5 bar. Us no more that 2 bar pressure drop for piping pressure drop calculations in the clean oil outlet piping.

SU 821/826	2,8 L/min (SV 16 closing) 0,9 L/min (SV 10 displacement) 11,0 L/min (SV 15 opening)
SU 831/836/841/846	2,8 L/min (SV 16 closing) 1,6 L/min (displacement) 11,0 L/min (SV 15 opening)
SU 851/856/861/866	2,8 L/min (SV 16 closing) 5,5 L/min (SV 10 displacement) 11,0 L/min (SV 15 opening) 2,8 L/min (SV 16 closing)
SU 871/876	11,0 L/min (SV 10 displacement) 11,0 L/min (SV 15 opening) 2,8 L/min (SV 16 closing)
SU 881/886	15,0 L/min (SV 10 displacement) 11,0 L/min (SV 15 opening) 2,8 L/min (SV 16 closing)
Air quality	Instrument air
Air pressure	Min. 5 bar, max. 7 bar
Drip tray volume	
SU 811/816	Max. 35 litres
SU 821/826	Max. 35 litres
SU 831/836/841/846	Max. 35 litres
SU 851/856/861/866	Max. 60 litres
SU 871/876	Max. 110 litres
SU 881/886	Max. 110 litres
Drain connection size	2x1" (internally threaded)
Mains supply voltage	3x400V/440V/480V/575V/690V ± 10%
Power consumption, control voltage; EPC supply voltage	230V/110V/115V/100V ± 10%
Control voltage, operating	24 V AC
EPC supply, Frequency	50 or 60 Hz ± 5%
Power consumption, fuse at 400 V 50 Hz	
SU 811/816 standard	Max. 9,0 kW, 25A (including feed pump)
SU 821/826 standard	Max. 9,0 kW, 25A (including feed pump)
SU 831/836 standard	Max. 11,5 kW, 35A (including feed pump)
SU 841/846 standard	Max. 14,5 kW, 35A (including feed pump)
SU 851/856 standard	Max. 17,5 kW, 50A (including feed pump)
SU 861/866 standard	Max. 24,0 kW, 50A (including feed pump)
SU 871/876 standard	Max. 28,5 kW, 63A (including feed pump)
SU 871/876 standard	Max. 36,5 kW, 80A (including feed pump)
Ambient temperature, EPC	Max. 55 °C
Control cabinet max.distance from Separation unit	50 m
Storage time before use (with bowl removed)	Max. 6 months
Storage temp.	Min.+ 0°C, max. + 70°C
Storage humidity	Relative humidity (RH) 10%- 95% Non Condensing
Control cabinet Enclosure class	Min. IP 54
Service intervals (at operation) :	Depending on component, 4 maintenance kits are available with different intervals: Inspection kit, Overhaul kit, Repair kit at 4000, 12000, and 24000 hours. Additionally there are three more supply levels: as necessary, at delivery, and back up.
Unit	Overhaul every 3 years operation
Sludge pump	Overhaul every 18 months operation
CBM heater	CIP when needed
EHM heater	Cleaning: New heater- after max. three months

Separator	LO- Every 3 months if the elements are heavily soiled on latest inspection; every 6 months if they are only slightly soiled HFO/DO- Every 12 months Inspection every 4000 hours or 6 months operation Overhaul every 12000 hours or 18 months operation
Note! Cleaning in Place (CIP) is recommended to avoid manual internal cleaning of the bowl.	Prior to inspection and overhaul
The following intervals are recommended:	HFO 1- 2 months depending on oil quality LO (Cross-head engines) 1 month LO (Cross-head engines) 1 month LO (Trunk engines) 1- 2 months depending on oil quality and engine condition LO (Trunk engines) 1- 2 months depending on oil quality and engine condition

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