



**Westfalia Separator  
Mineraloil Systems**

# YACHT VERSION

## OTC 2 & OTC 3

**Mineral Oil Centrifuge**

**Solids-retaining  
Centrifugal Separator**

**Continuous treatment  
of fuel and lube oils**

**Now with maintenance  
friendly belt drive and  
less noise and weight**



### Approval Certificate

Germanischer Lloyd

This is to certify, that the undersigned company has been approved in accordance with the relevant requirements of the Germanischer Lloyd Classification Society.

Certificate No. **9000000-000**

Company **Westfalia Separator Westfalia Separator**  
Helmholtzstrasse 1  
D-48149 Bielefeld

Director **Westfalia Separator Westfalia Separator**

Approved for use in **OTC 2, OTC 3**

Technical Data **OTC 2, OTC 3**

Application **Mineral Oil Centrifuge**

Type **OTC 2, OTC 3**

Capacity **OTC 2: 1000 l/h, OTC 3: 1500 l/h**

Speed **OTC 2: 1500 rpm, OTC 3: 1800 rpm**

Power **OTC 2: 1.5 kW, OTC 3: 2.2 kW**

Weight **OTC 2: 15 kg, OTC 3: 20 kg**

Dimensions **OTC 2: 150 mm x 150 mm x 150 mm, OTC 3: 200 mm x 200 mm x 200 mm**

Material **OTC 2: 1.4301, OTC 3: 1.4301**

Notes **OTC 2: 1.4301, OTC 3: 1.4301**

OTC 2, OTC 3

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**GENERAL  
Marine  
SERVICES**

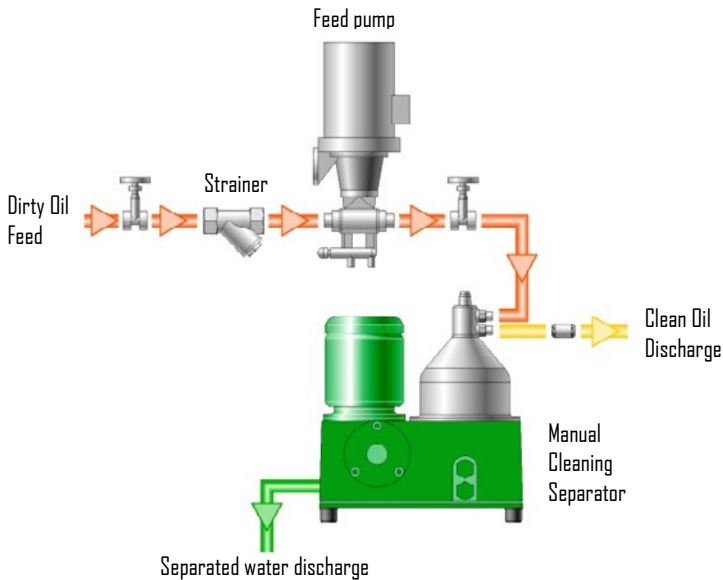
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## Schematic layout of OTC separator with feed pump for marine gas oil treatment



The OTC 2 & 3 series protects against expensive damage to engine components. The water content in the fuel and lubrication oil is reduced down to product specification values. The separated fuel and lubrication oil is practically free of sediment contamination down to 5 microns. The salt content in fuel oils is efficiently reduced. The separator of enclosed design is equipped with a level sight glass. The hood is removable. The machine is driven by a three-phase AC motor. Power is transferred to the bowl spindle via flat belt. All bearings are splash-lubricated from a central oil bath.

### Materials of construction:

Frame:	Silumin
Hood:	Silumin
Main bowl parts:	Stainless steel
Gaskets:	Buna N

The contaminated oil is pumped and separated as shown in the graphic beside. A liquid seal in the separator bowl prevents the oil from escaping through the water outlet. The contaminated product is pumped from the tank to the separator. The separator is equipped with a disk type bowl to clarify liquids or to separate liquid mixtures. The product flows through the product inlet into the rotating bowl and is clarified or separated in the disk stack. The separated heavy liquid phase runs freely outwards over the separating disk out of the bowl. The purified, light phase is discharged internally through the centripetal pump under pressure. The centrifuged solids collect in the solids holding space and must be removed manually.



Installation of an OTC2 on a Yacht

### Chief standard equipment:

- Three-phase AC motor
- Rubber cushions
- Motor protection switch
- Set of commissioning parts & tools
- Set of regulating rings
- Set of bowl inlay (sludge liner)
- Set of hoses for feed & discharge (1000mm long)
- Filling water hopper
- Flow detector & indicator
- Feed pump
- Control for separator & feed pump

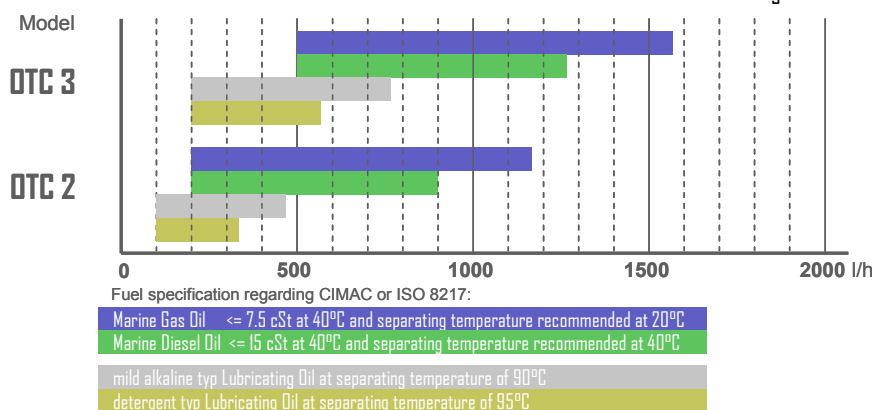
### Chief additional equipment:

- Heater system
- Set of spare parts
- Conversion set for clarifier

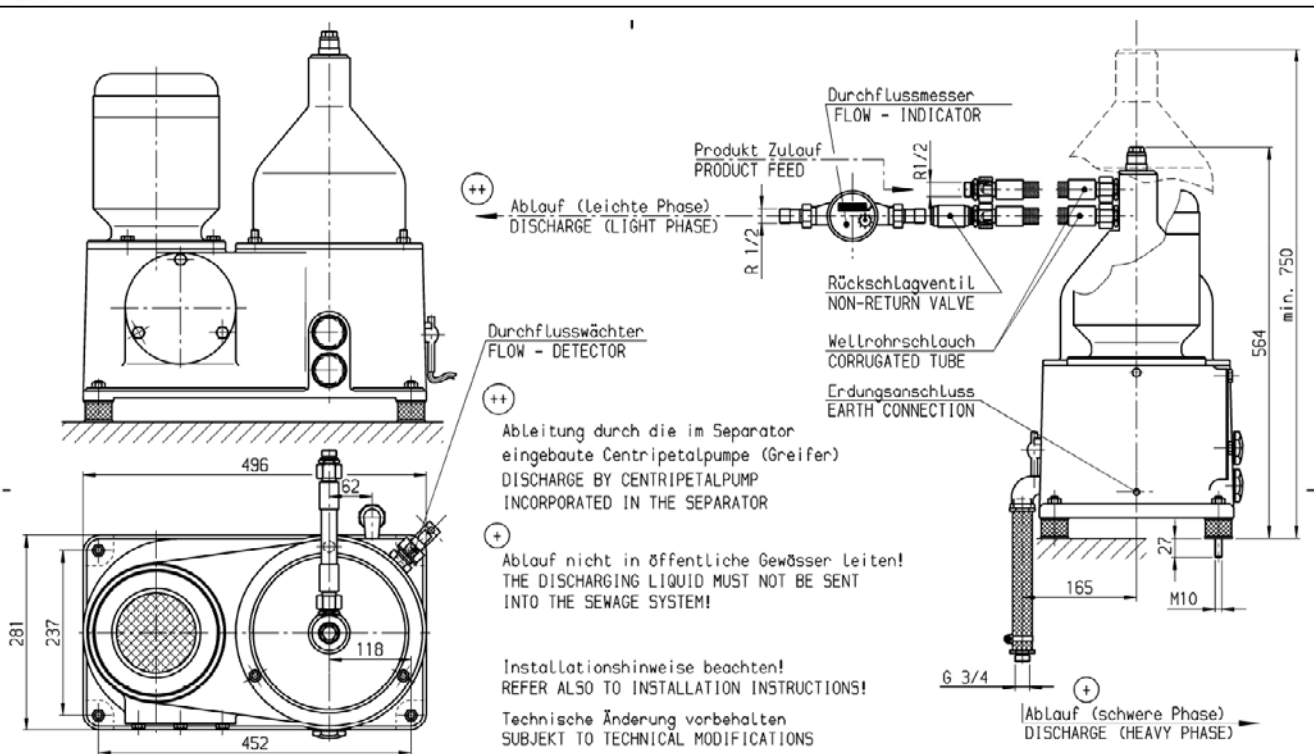
## Benefits of the OTC Yacht Version



- **Low and easy maintenance**
  - Complete technical documentation
  - Less bowl parts
  - Belt drive instead of gear drive
- **Low space requirement**
  - Compact design
  - Modular design
- **Light weight**
  - Silumin hood instead of steel
  - Silumin frame instead of grey cast-iron
  - Belt drive instead of gear drive
- **Low noise level**
  - Rubber cushions
  - Less vibrations
- **Cost saving**
  - No change of expensive filter elements
  - No disposal of used filter elements
  - Reduced wear and tear on engine components
  - Extended oil change intervals
- The OTC Yacht Version and all periphery equipment is delivered in **white painting and polished stainless steel hood** so that it all fits also visual in your engine room
- **Continuous operation** and light phase discharge under pressure and therefore no need for additional pump
- **Less wear, abrasion and erosion** because all product-contact parts are made of stainless steel
- **Easy conversion into clarifier**
  - Less parts
  - Easy conversion kit
- **Easy installation**
  - Plug & Play with Compact Unit design
  - Flexible line connections
  - Complete technical documentation
- **Easy maintenance, operation and manual cleaning**
  - Less parts and less required tools
  - Complete technical documentation
  - Spare part kits for one or two years
  - Service intervals up to 16,000h or 2 years
  - Belt drive instead of gear drive
  - Unmanned operation
- **Complete technical documentation as standard**
  - Installation and cleaning Manual
  - Maintenance and spare parts list
  - Instruction manual
  - Piping & Installation drawings
  - Dimension drawings
- **World wide service** with fully equipped repair and service center in Melbourne plus spare part stocks and service engineers throughout Australia and the world



**Throughput capacity**  
Capacity range with 100% separation performance for all indicated products and medium from economical efficiency up to maximum technical throughput.



## Technical data

	OTC2		OTC3			OTC2		OTC3	
Bowl					Centripetal pump				
Speed	10 000	rpm	10 000	rpm	Pressure head, HD of the light liquid phase	0.5	bar	1.0	bar
Volume	1.2	l	2.2	l	Connections				
Solids holding space	0.75	l	1.2	l	Feed		R 1/2 in		
Three-phase AC motor					Discharge heavy phase		R 3/4 in		
Power	1.1	kW	1.1	kW	Discharge light phase		R 1/2 in		
Normal absorbed power	0.6	kW	0.8	kW	Max. separating temperature		100 °C		
Speed at 50 Hz	3000	rpm					212 °F		
Speed at 60 Hz	3600	rpm			Rated capacity up to	1400	l/h	2200	l/h
Design	IM VI				Weight Separator complete (low-weight silumin version)	40	kg	45	kg
Enclosure	IP 55				Case dimensions (LxWxH)	640x640x710	mm		
Also available motor for					Shipping volume		0.3	m³	
operating Voltage	230	V AC	1 phase						
operating Voltage	110	V AC	1 phase						
operating Voltage	24	V DC							

