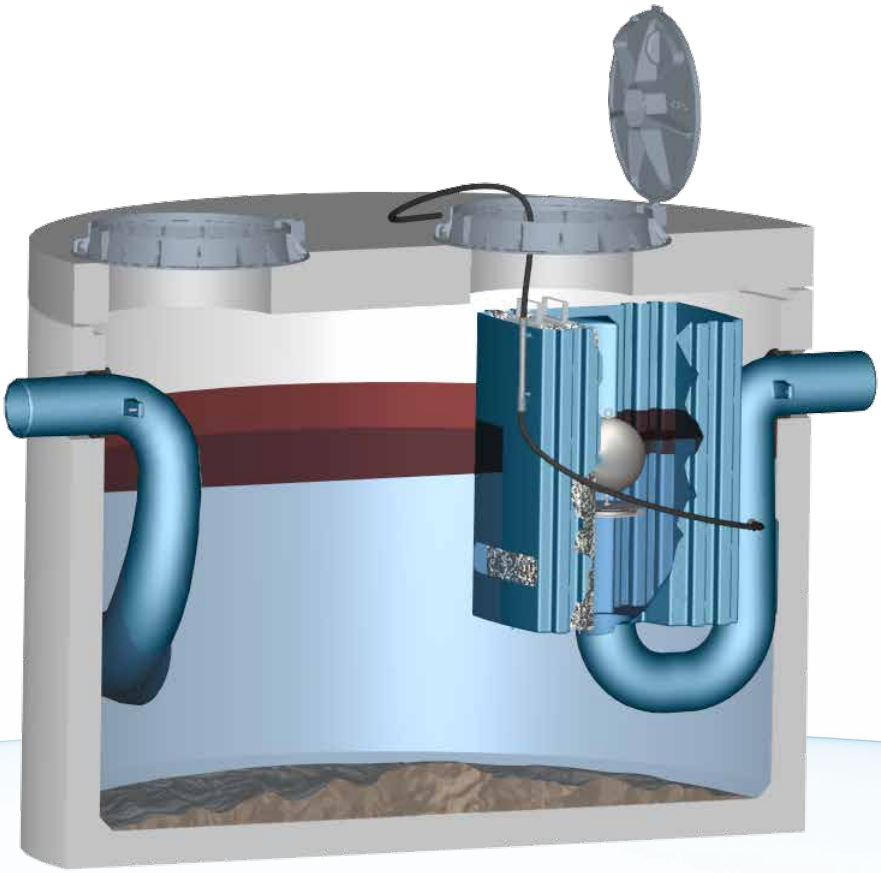
wallner & neubert

Water Technology for Living Environments



Separators for light liquids

Separator BLUE

purator™

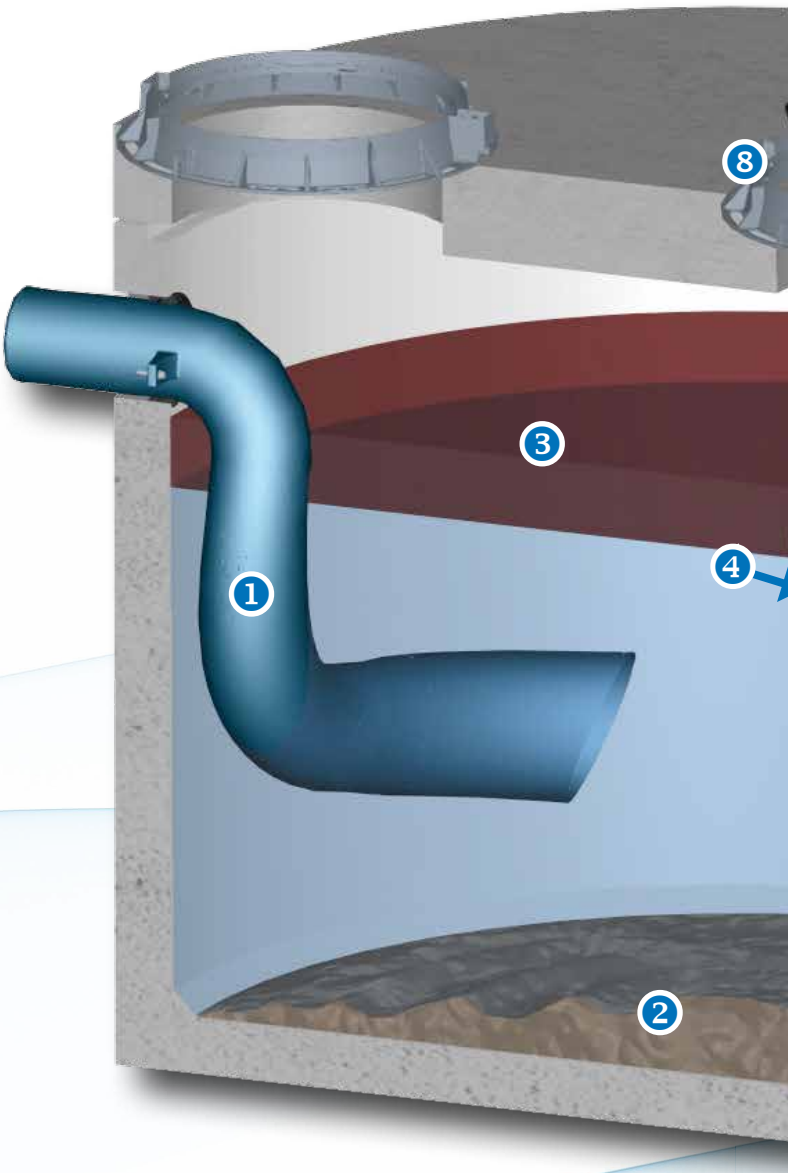
Sepurator BLUE separators for light liquids

The new, flow-optimized Sepurator BLUE separators for light liquids (oil separator) are constructed according to the guidelines of the European standard EN 858. The innovative concept is applied for a patent.

1 The **flow optimized inlet pipe** ensures a better performance of separation by:
- Reducing water swirls
- Reducing flowing speed
- Full utilization of available space

Flow-optimized inlet-pipe made of PE

The flow-optimized components of Sepurator BLUE are designed as monolithic parts made of polyethylene. This prevents characteristic long-term damages e.g. leaky welds, corrosion damage due to ageing etc.

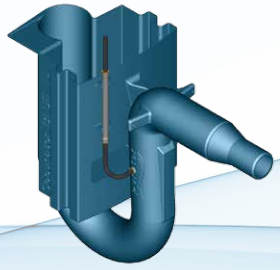


2 Settling sediments, which are heavier than water, are kept in the sludge trap. At the same time the separation of emulsified mineral-oils starts here. The construction of the sludge trap prevents temperature and flow-rate peaks.

3 Coarsely soluble mineral-oil particles are separated from the incoming waste water by the class-II separator (according to EN 858, table 1). Due to the difference of the specific weights of water and oil the lighter parts rise to the surface and form a steadily growing layer there.

4 The overflow to the class-I separator is situated on the front side of the coalescent unit.

5 The remaining solute mineral-oil parts of the waste water are separated in the class-I separator-unit (according to EN 858, table 1) by using coalescence effects: Oil drops stick to the mesh surface. With increasing volume of oil, larger drops detach from the mesh surface and move to the water surface.



Coalescence unit made of PE

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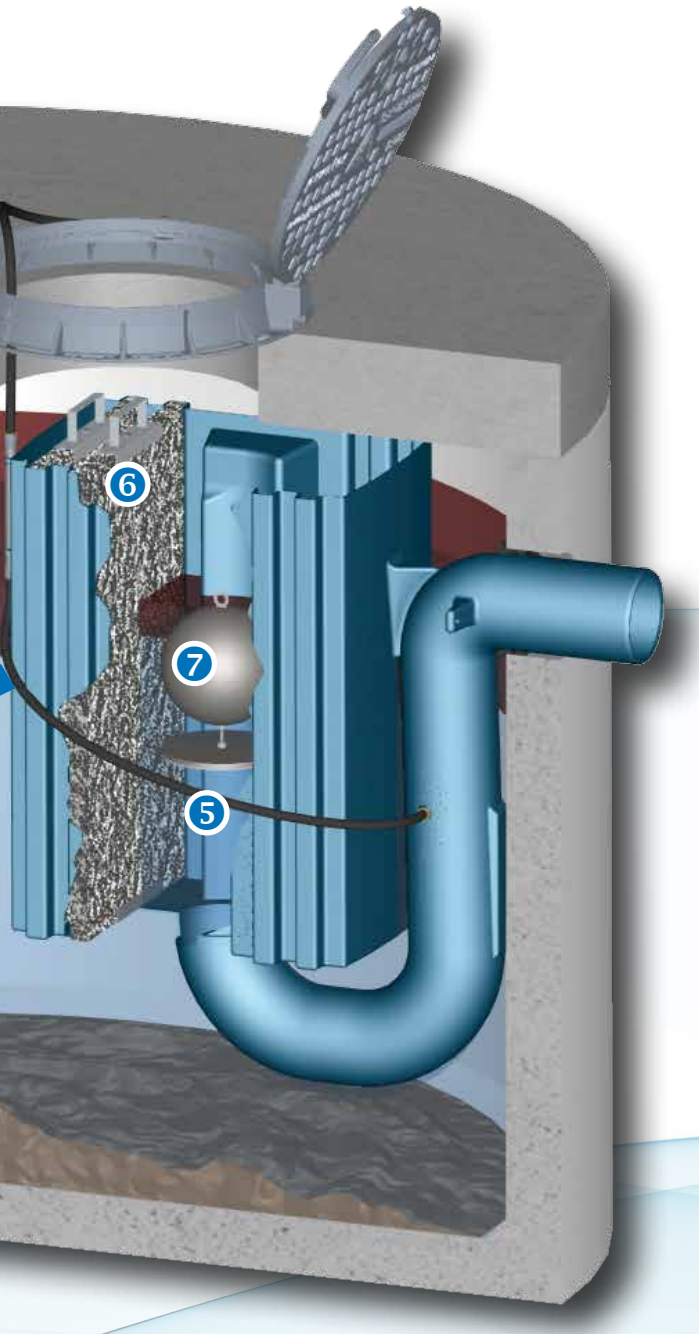
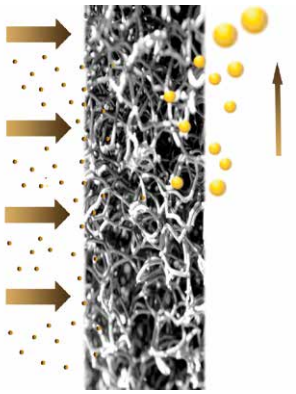


6 Innovative, synthetic mesh for ideal coalescence processing:

Oil drops stick to the mesh surface. With increasing volume of oil, larger drops detach from the mesh surface and move to the water surface. Micro-swirls created in the mesh increase the adhesion and reduce the flow velocity of the contaminated water.

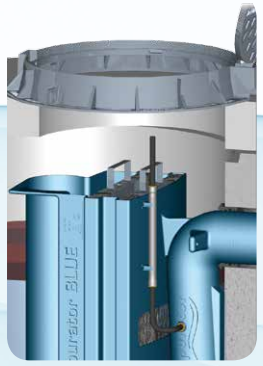


Coalescence effect, illustration

7 The oil layer has to be disposed from the separator after achieving a certain thickness. By reaching the maximum level of the oil-layer the outlet-closure shuts the outflow of the separator automatically. Outflow of separated oil is avoided by the automatically operating outlet-closure. The floating unit can easily be tared to 0,85 mg/l, 0,90 mg/l or 0,95 mg/l specific weight, even after installation of the system.

Stainless steel floating unit

8 Legally required sampling can be done by using a sampling-unit integrated in the Sepurator BLUE system (accessory) or by using a sampling shaft (built-in behind the separator). The hose connection is placed directly below the maintenance opening and remains always above water level. The sampling unit can be installed very easily (retrofitting kit available).



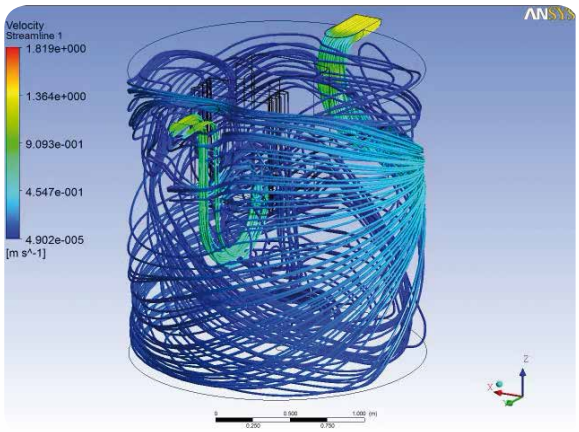
Sampling hose connection, small separator-size

Sepurator BLUE design

The design of the Sepurator BLUE series was determined by using flow-simulation models in order to optimize the separating performance.

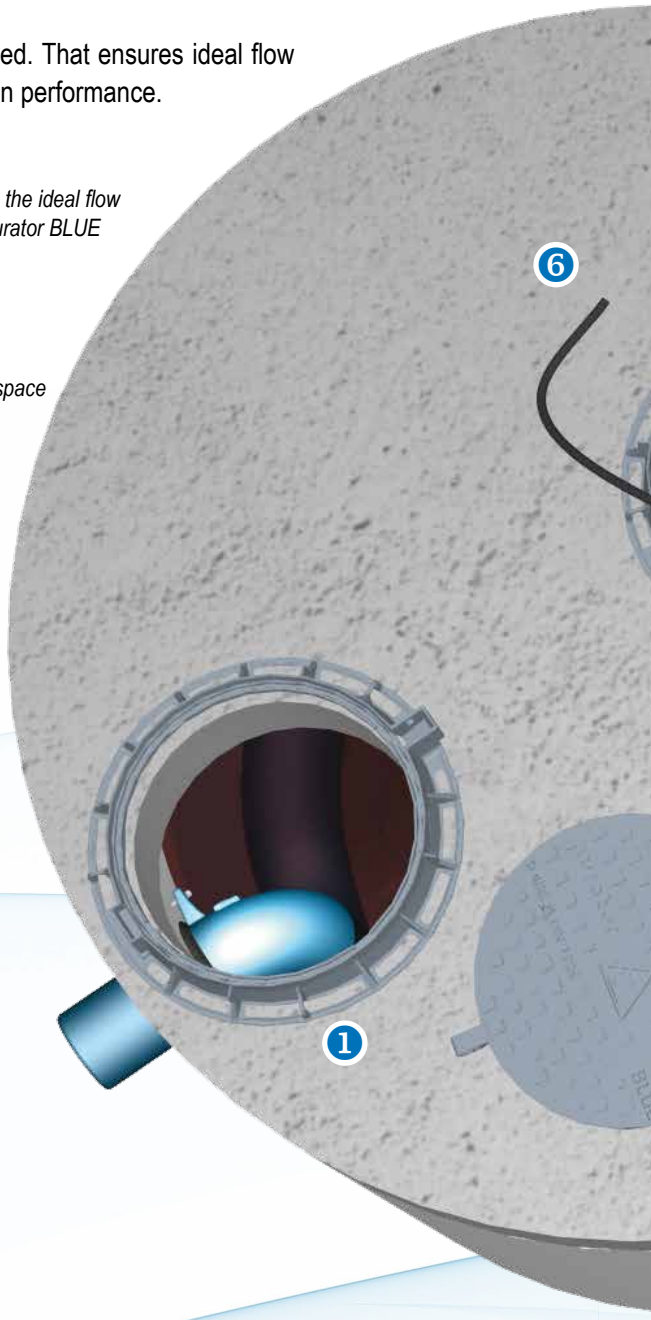
The design of the inlet pipe ensures the optimal flow of liquids regarding smoothness and longest possible separating-distance. The separation of sediments and oils from water is significantly improved. As a result the work load of the coalesence unit is reduced in order to improve operational reliability of the separator.

All other parts of the Sepurator BLUE system are as well hydraulically optimized. That ensures ideal flow conditions inside of the separator what leads to a maximization of the purification performance.



The simulation model shows the ideal flow conditions inside of the Sepurator BLUE system:

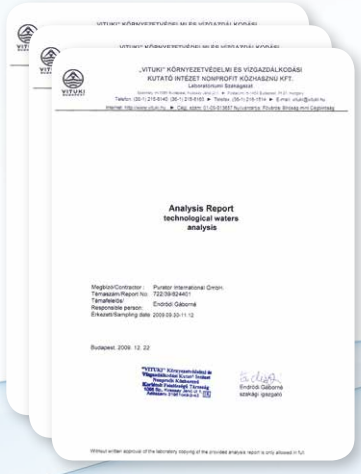
- *Low flow rate*
- *Minimal swirls*
- *Maximized separation time*
- *Full utilization of available space*



Conformity with standards and type tests

The Sepurator BLUE series offers a huge amount of types by combining different tanks and built-in parts to cover all sorts of technical and local requirements.

The CE logo confirms that all Sepurator Blue oil separators are in conformity with the EN858 standards (European standards).



CE

Each Sepurator BLUE Type has been tested – according to EN858 with all possible basin sizes. The results of Separator BLUE have significally beaten the required measures of the standard!

All testing was performed by independent certification body.

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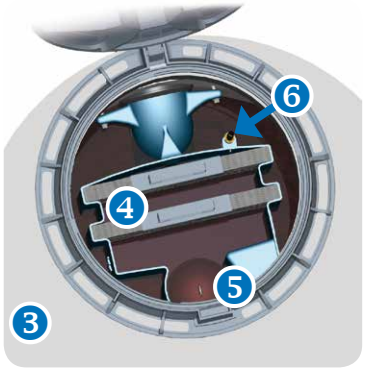
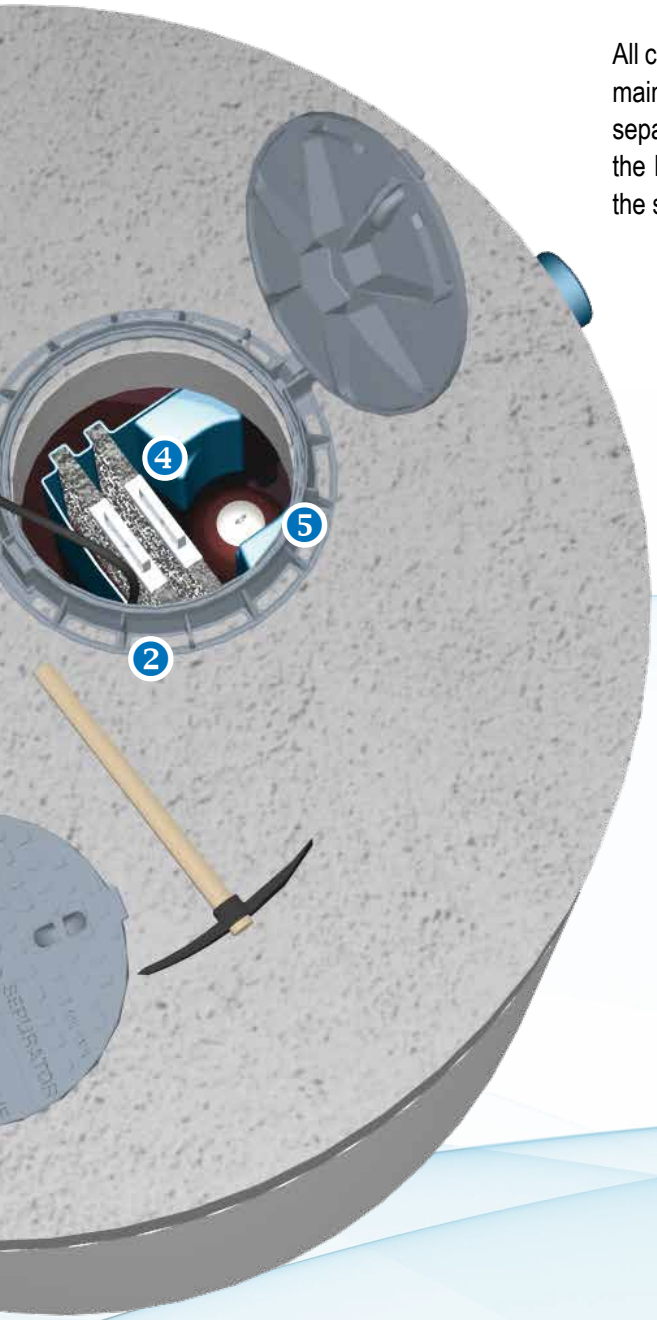
Easy maintenance

One of the key-features of the Sepurator BLUE system is easy handling and maintenance.

Easy access standard: effortlessly opening of the manhole covers with hinge, self-locking device, secure fixation for open cover and dampening insert for noise reduction.

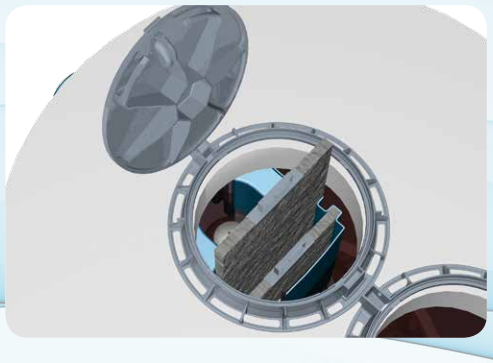
All components can be reached easily through maintenance openings. Waste disposal of the separator system by suction of the surface or the bottom mud is just as easy by accessing the system through the manhole covers.





1. Maintenance opening sludge trap/ class-II separator
2. Maintenance opening class-I separator
3. Maintenance opening of small tanks
4. Coalescence unit
5. Automatic-operating outlet-closure
6. Sampling hose connection

The **coalescence mats** can easily be pulled out vertically in order to maintain those units. The coalescence mats do not soak water what keeps the total weight of the parts low. No fixations are implied, so there is no need to operate manually in contaminated water.

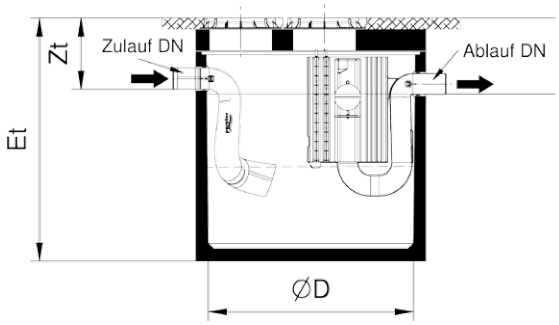


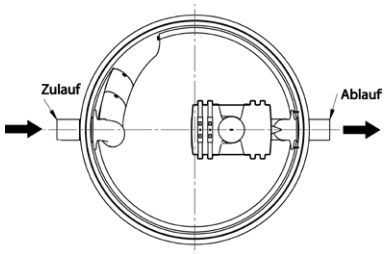
Sepurator BLUE oil separator

With flat cover

Product features:

- Configuration S-II-P according to EN858
- Tested according to ÖNORM B5101
- With integrated sludge trap (ST)
- With integrated sampling unit
- All built-in parts made of oil-resistant PE and stainless steel
- Maintenance covers class B125 or D400 made of ductile iron
- The coalescence unit and the outlet closure can be removed without pumping-out of the separator
- Automatically operating outlet-closure





In-/ outlet dimensions
NS 3-10: DN160
NS 15-20: DN200

Product details:

Art. No.	NS	ST m³	Inner Ø D mm	Inlet depth Zt mm	Insertion depth Et mm	Weight of largest part t
SB3C-10-06	3	0,65	1000	555	1770	1,5
SB3C-12-12	3	1,2	1200	645	2110	1,9
SB6C-10-06	6	0,7	1000	555	1770	1,5
SB6C-12-12	6	1,2	1200	645	2110	1,9
SB6C-15-20	6	2,0	1500	635	2350	3,1
SB6C-20-35	6	3,5	2000	635	2100	4,2
SB6C-20-50	6	5,0	2000	635	2850	4,7
SB10C-12-12	10	1,2	1200	635	2100	1,9
SB10C-15-20	10	2,0	1500	635	2350	3,1
SB10C-20-35	10	3,5	2000	635	2100	4,2
SB10C-20-50	10	5,0	2000	635	2850	4,7
SB15C-15-15	15	1,5	1500	705	2350	3,1
SB15C-20-30	15	3,0	2000	705	2350	4,7
SB15C-20-45	15	4,5	2000	705	2850	5,8
SB15C-25-70	15	7,0	2500	705	2850	6,8
SB20C-20-20	20	2,0	2000	705	2100	4,2
SB20C-20-45	20	4,5	2000	705	2850	5,8
SB20C-25-70	20	7,0	2500	705	2850	6,8

- Please ask for further nominal sizes or sludge trap sizes

Tender specifications:

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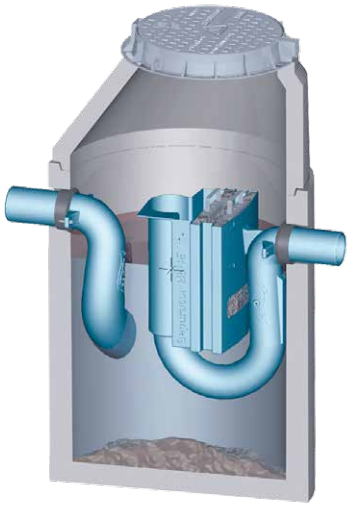
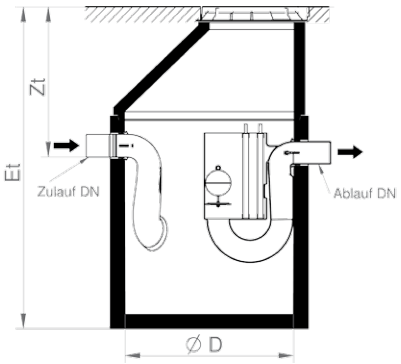
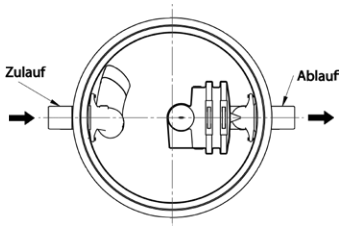
Sepurator BLUE oil separator

With cone top







In-/ outlet dimensions DN160

Product features:

- Configuration S-II-P according to EN858
- Tested according to ÖNORM B5101
- With integrated sludge trap (ST)
- With integrated sampling unit
- All built-in parts made of oil-resistant PE and stainless steel
- Maintenance covers class B125 or D400 made of ductile iron
- The coalescence unit and the outlet closure can be removed without pumping-out of the separator
- Automatically operating outlet-closure

Product details:

Art. No.	NS	ST m³	Inner Ø D mm	Inlet depth Zt mm	Insertion depth Et mm	Weight of largest part t
SB3C-10-06C	3	0,65	1000	1005	2220	1,5
SB3C-12-12C	3	1,2	1200	1005	2220	1,9
SB6C-10-06C	6	0,65	1000	1005	2220	1,5
SB6C-12-12C	6	1,2	1200	1005	2470	1,9
SB6C-15-20C	6	2,0	1500	1175	2890	3,1
SB10C-12-12C	10	1,2	1200	1005	2470	1,9
SB10C-15-20C	10	2,0	1500	1175	2890	3,1

- Please ask for further nominal sizes or sludge trap sizes

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