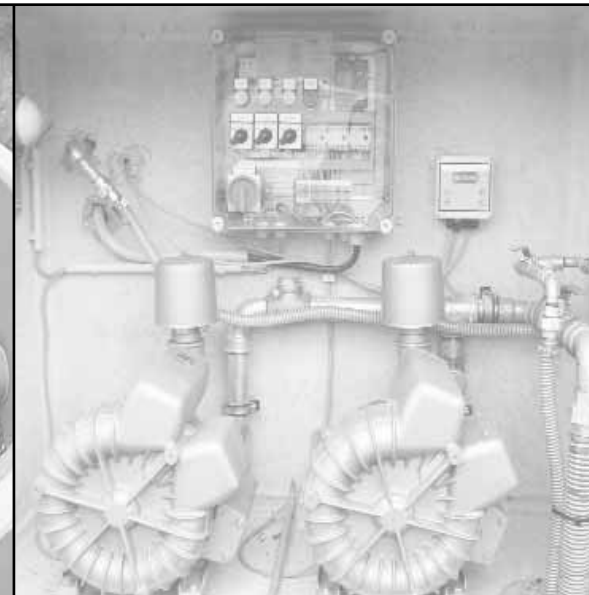


Treatment of washing water
as per annex 49 of the German Waste
Water Ordinance
Treatment of circulation water



NEUTRA twin pre-treatment tank Sludge trap and pre-separator with standard-compliant internal coating

In one unit, as part of a system for waste water and circulation water treatment, for the retention of sinking and floating materials for maximum relief and protection of downstream system technology; can also be used for provision of an additional oil storage volume upstream of a separator system as per EN 858 / DIN 1999-100.

Volume l	Inner Ø d mm	Total depth H mm	Inlet depth T _{min} mm	h mm	Nominal width DN	Sludge trap volume l	Oil storage volume l	Heaviest single part kg	Total weight kg	Article no. cl. D 400	Freight group
6600	2000	3265	975	2290	150	5000	1550	6,240	8,700	1.5546.101	5
8700	2500	2915	975	1940	150	5000	2430	10,040	10,750	1.5546.111	6
14700	3000	3195	1005	2190	150	10800	3510	11,490	17,155	1.5546.121	On request
22800	4000	3040	1100	1940	200	15500	7300	8,600	30,045	1.5546.440	On request

SIV Model with cover plate

6600	2000	3265	975	2290	150	5000	1550	6,240	8,700	1.5546.101	5
8700	2500	2915	975	1940	150	5000	2430	10,040	10,750	1.5546.111	6
14700	3000	3195	1005	2190	150	10800	3510	11,490	17,155	1.5546.121	On request
22800	4000	3040	1100	1940	200	15500	7300	8,600	30,045	1.5546.440	On request

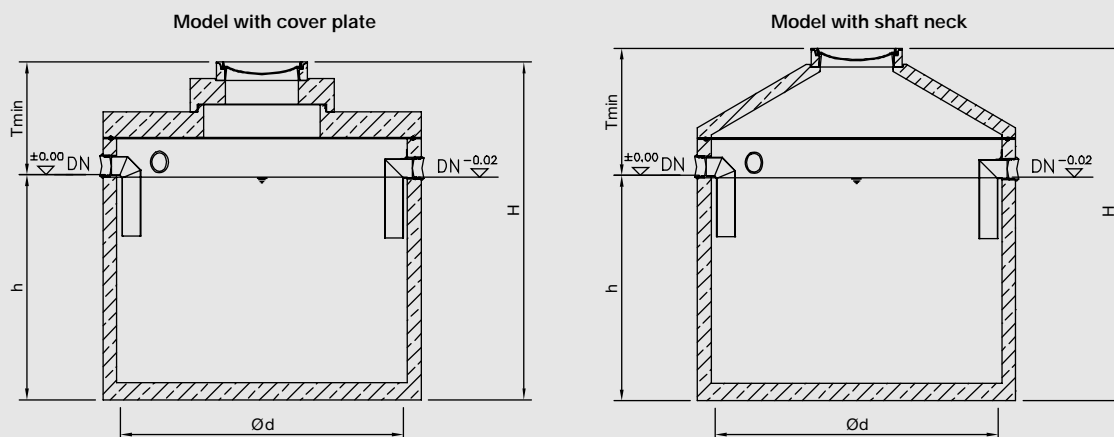
SIV Model with shaft neck

6600	2000	3395	1105	2290	150	5000	1550	6,240	7,810	1.5546.201	5
8700	2500	3045	1105	1940	150	5000	2430	7,240	9,220	1.5546.211	6

- Dimensions apply to cl. D 400 cover. With cl. B 125 cover, the inlet depth (T_{min}) and total depth (H) are reduced by 35 mm and the total weight by 80 kg.
- In order to increase the inlet depth (T_{min}), attachments as per DIN 4034, part 1 are available.
- Factory-installed, resilient sealing elements compatible with plastic pipes (e.g. HDPE, PP) for the articulated pipe connection.
- Additional pipe connections upon arrangement.
- Technical equipment for automatic sludge discharge on request.

For freight groups and transport prices on request.

Reduced price for cl. B 125 cover



NEUTRASam storage basin for service water for NEUTRAclear circulation water treatment system

Air-lift pump for tank aeration.

Volume l	Inner Ø d mm	Total depth H mm	Inlet depth T _{min} mm	h mm	Nominal width DN	Heaviest single part kg	Total weight kg	Article no. cl. D 400	Freight group
2500	1500 ¹⁾	2275	765	1550	150	4,020	5,590	1.5520.121	2
5000	2000	2715	1015	1740	150	7,540	8,345	1.5520.151	3
10000	2500	3685	1445	2240	200	8,100	11,650	1.5520.161	On request

Model with cover plate

Model with shaft neck

2500	1500	2655	1145	1550	150	4,020	5,400	1.5520.221	2
5000	2000	2845	1145	1740	150	5,790	7,500	1.5520.251	3
10000	2500	3455	1165	2290	200	8,080	10,069	1.5520.261	On request

¹⁾ Model without transition plate.

- Dimensions apply to cl. D 400 cover. With cl. B 125 cover, the inlet depth (T_{min}) and total depth (H) are reduced by 35 mm and the total weight by 80 kg.
- In order to increase the inlet depth (T_{min}), attachments as per DIN 4034, part 1 are available.
- The dimension T is determined according to the upstream separator's outlet depth, but can also be adjusted in individual cases.
- Factory-installed, resilient sealing elements compatible with plastic pipes (e.g. HDPE, PP) for the articulated pipe connection.
- Feed-throughs for pipes and electrical cables upon arrangement.
- Larger systems and customised versions on request.

For freight groups and transport prices on request.

Reduced price for cl. B 125 cover

Above-ground storage basin for service water

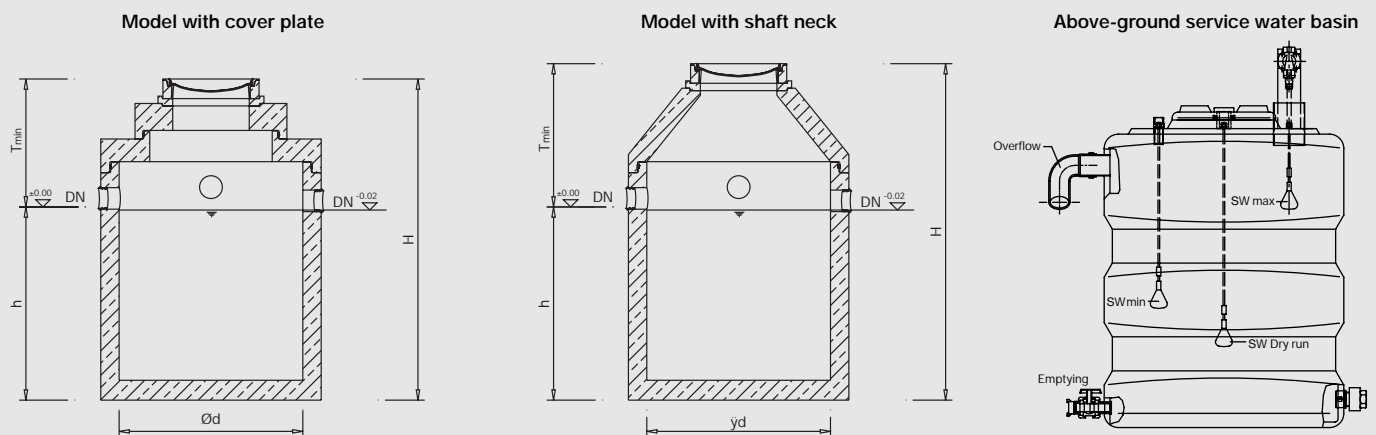
for NEUTRAclear circulation water treatment system for intermediate storage of treated circulation water in a second service water basin, so as to enable connection of several pumps for feeding a vehicle-washing system.

consisting of:

- Submersible motor-driven pump
- Collection tank
- Electronic controller
- Fresh water make-up

Options:

- Conductivity measurement
- Rainwater utilisation
- Booster stations
- Vertical rotary pumps



NEUTRAclear washing water treatment system as per annex 49 of the German Waste Water Ordinance

Z-83.4-6

Thorough mechanical / biological treatment of waste water for direct and indirect discharges, treatment of washing water for portal car wash facilities, car wash plants and commercial vehicle wash facilities.

Compatible with all wash facilities which use service water.

- With German national technical approval
- Quality-controlled prefabricated structure, made of jointless C35/45 (B45) reinforced concrete, strengthened for break resistance, with type-tested statics.
- Factory-installed, resilient sealing elements compatible with plastic pipes (e.g. HDPE, PP) for the articulated pipe connection.
- With two-layered filter body installed via reinforced concrete support grid.
- Mammoth pump and sludge extraction funnel for removal of floating material and waste biomass.
- With shaft superstructure as per DIN 4034 part 1, including pre-lubricated sliding ring seal.
- With shaft cover as per DIN EN 124 and DIN 1229.
- Side-channel compressor with factory-installed air diffuser and controller in weather-proof equipment box with lockable steel door.

Type	Inner ø d mm	Hydraulic capacity max. m ³ /h	Electr. connected load 400 V / 50 Hz	Permissible BOD ₅ load ²⁾ kg BOD ₅ / d	Heaviest single part kg	Total weight kg	Article no. cl. D 400	Freight group
C 1500	1500	Up to 6	0.75 kW	3.23	5,475	7,435	1.5820.003	3
C 2000	2000	Up to 11	1.1 kW	8.15	8,200	11,000	1.5820.015	3
C 2500	2500	Up to 17	2.0 kW	12.66	11,025	14,875	1.5820.021	5
C 3000	3000	Up to 32	2 x 2.00 kW	18.24	17,120	24,210	1.5820.031	-
C 4000 ¹⁾	4000	Up to 46	2 x 3.00 kW	29.59	9,400	33,505	1.5820.445	-

¹⁾ Cover with 4 maintenance openings.

²⁾ The specified calculated values for the daily BOD₅ polluting load are non-binding.

The actual BOD₅ polluting load depends on the local conditions:

1. Waste water volume

- Number of washes / d
- Pre-washes / d
- Additional waste water volume / d

2. Waste water contamination

- Wash process, wash programme
- Composition and combination of the wash chemistry
- Wash chemistry dose / vehicle
- Operating conditions

- The system is pre-assembled in the factory. Final installation and commissioning is performed by Mall as part of the installation service.
- Dimensions apply to class D 400 cover
- Larger systems on request
- With class B 125 cover, the total weight is reduced by 80 kg.
- Transport costs and other heights or inlet depths on request.

Options:

- Above-ground service water basin
- Conductivity measurement and control
- Rainwater utilisation
- Booster station

Reduced price for cl. B 125 cover

