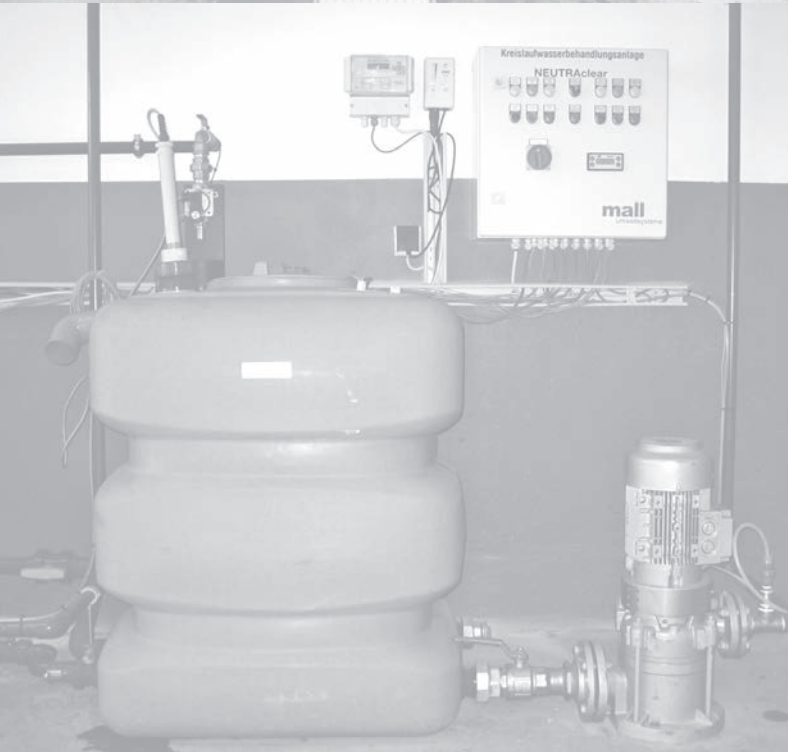
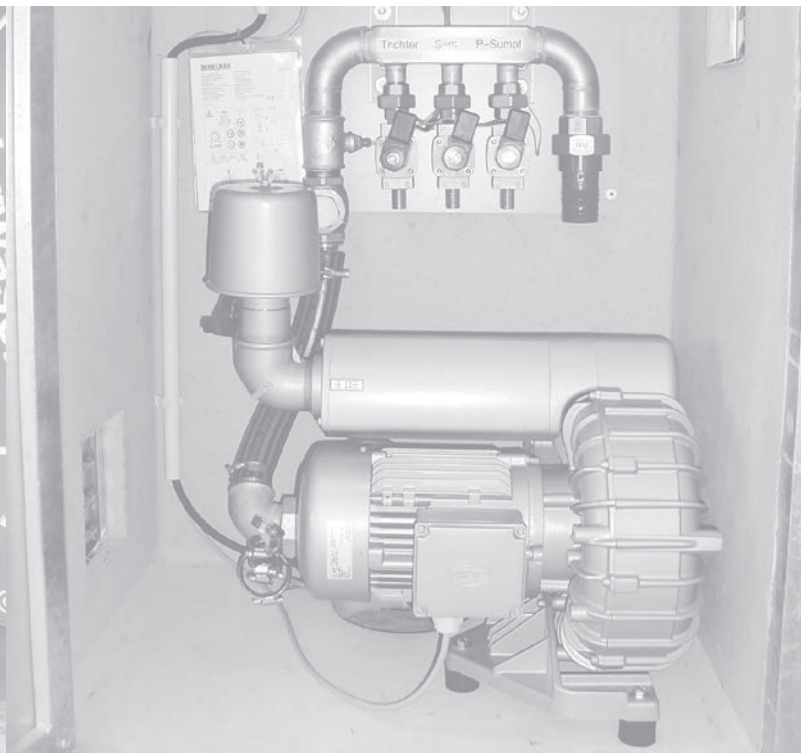


Treatment of washing water as per annex 49 of the German Waste Water Ordinance Treatment of circulation water



NeutraTwin 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.

Order number CL D 400	Volume l	Inner \varnothing d mm	Total depth H mm	Inlet depth T_{min} mm	Height h mm	Nominal width DN	Sludge storage volume l	Heaviest single part kg	Total weight kg
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S V Model with cover plate

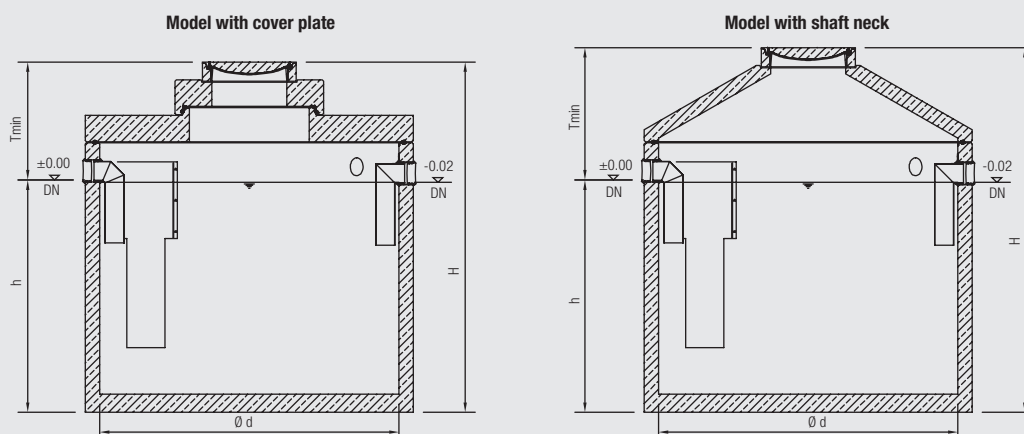
Twin 6600	6600	2000	3275	985	2290	150	6600	6.410	8.860
Twin 8700	8700	2500	2925	985	1940	150	8700	7.430	10.930
Twin 10000	10000	2500	3275	985	2290	150	10000	8.300	11.800
Twin 14300	14300	3000	3195	1005	2190	150	14300	11.950	17.600
Twin 22800	22800	4000	3040	1100	1940	200	22800	7.950	28.630

S V Model with shaft neck

Twin 6600 K	6600	2000	3395	1105	2290	150	6600	6.410	7.970
Twin 8700 K	8700	2500	3045	1105	1940	150	8700	7.430	9.400
Twin 10000 K	10000	2500	3395	1105	2290	150	10000	8.300	10.270

- 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.



Treatment basin NeutraClear

Z-83.4-6

Mechanical-biological treatment

Treatment of washing water for portal car wash facilities, car wash plants and commercial vehicle wash facilities.
Compatible with all vehicle-washing systems 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.
- 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.

Order number Cl. D 400	Inner ø d mm	max. Waster water inflow l/min	Electr. connected load 400 V/50Hz	max. Waster water load kg BSB5/d	Heaviest single part kg	Total weight kg
Clear 1500	1500	100	0,75 kW	3,23	5.820	8.830
Clear 2000	2000	180	1,1 kW	8,15	8.670	14.490
Clear 2500	2500	280	2,0 kW	12,66	11.250	20.100
Clear 3000	3000	530	2 x 2,00 kW	18,24	17.680	30.930
Clear 4000	4000	760	2 x 3,00 kW	29,59	9.580	44.120

- 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 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 outlet depth of the upstream pre-treatment basin but can also be adjusted in individual cases.
- Transport costs and other heights or inlet depths on request.

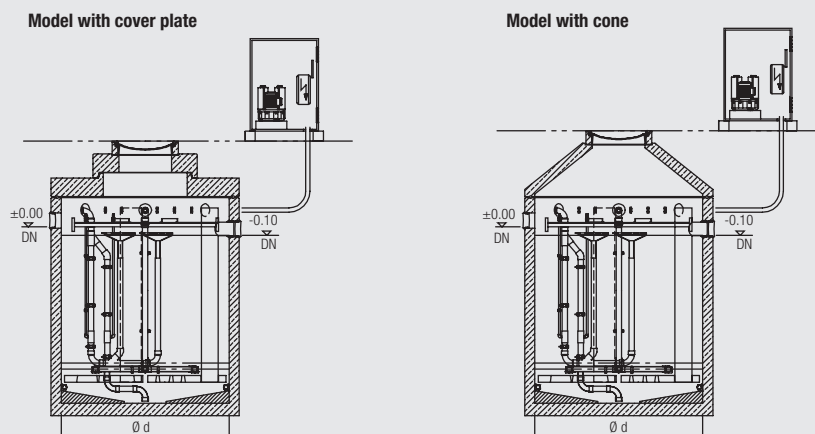
Dimensional criteria

1. Waster water volume

- Number of wash
- Pre-washes
- Additional waster water volume
- Pump capacity

2. Waste water contamination

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



NeutraTub post-treatment tank

The post-treatment tank forms a process unit in conjunction with the treatment tank. The excess sludge is separated via settling out of the treated circulation water in the post-treatment tank. The lamella cores fitted to the partition wall of the post-treatment tank increase the effective sedimentation area to improve the settling effect. The inclination of the lamellae ensures that the excess sludge slides into the sludge collection chamber.

Designation Type	Contents l	Inner Ø d mm	Total depth H mm	Inlet depth T _{min} mm	Height h mm	Nominal size DN	Heaviest single part kg	Total weight kg
Tub 3000-150	15000	3000	3505	1200	2305	150	14.970	21.950
Tub 3000-200	15000	3000	3505	1200	2305	200	14.960	21.940

- Quality-controlled prefabricated structure, made of jointless C35/45 (B45) reinforced concrete, strengthened for break resistance, with type-tested statics
- The dimension T is determined according to the upstream treatment tank'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
- Dimensions apply to class D 400 cover. With cl. B125 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 V 4034-1 are available

NeutraSam storage basin for service water

Removal tank for treated wash water

- With air-lift pump for tank aeration.

Order number Cl. D 400	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
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E Model with cover plate

Sam-B 2500	2500	1500 ¹⁾	2275	765	1550	150	4.020	5.590
Sam-B 5000	5000	2000	2720	1015	1740	150	7.540	8.345
Sam-B 10000	10000	2500	3325	1085	2240	200	8.080	11.650

E Model with shaft neck

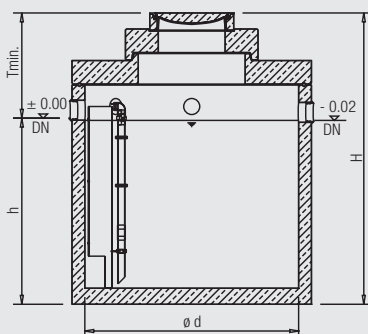
Sam-B 2500 K	2500	1500	2655	1145	1550	150	4.020	5.400
Sam-B 5000 K	5000	2000	2845	1145	1740	150	5.790	7.500
Sam-B 10000 K	10000	2500	3455	1215	2240	200	8.080	10.069

¹⁾ Model without transition plate.

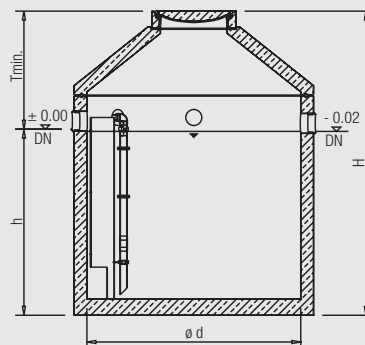
- Dimensions apply to cl. D 400 cover. With cl. B 125 cover, the inlet depth (T_{min}) and total depth (H) are reduced by 35 mm and the total weight by 80 kg.
- In order to increase the inlet depth (T_{min}), attachments as per DIN 4034, part 1 are available.
- The dimension T is determined according to the outlet depth of the upstream treatment basin 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

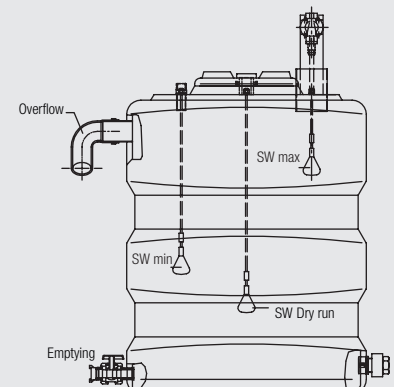
Model with cover plate



Model with shaft neck



Above-ground service water basin



Mall NeutraClear C1400 circulation water treatment system as a compact system Z-83.4-6

Use

For washing customer vehicles in automobile sales yards (20 – 25 vehicles/day). The water is mechanically and biologically cleaned without additional chemicals and then returned back to the wash process.

Characteristic values

- Wastewater throughput up to 80 l/min
- Pre-treatment tank volume: 5.20 m³
- Service water tank volume: 1.50 m³

Designation	Max. wastewater quantity l/min	Max. wastewater contamination kg BSB5/d	Inner Ø mm	Content of pre-treatment tank l	Content of service water tank l	Nominal size DN	Electrical connection load 400V/50 Hz kW	Heaviest single part kg	Total weight kg
C1400	80	3,17	2500	5200	1500	150	0,75	11.200	16.420

- 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.
- Filter body installed via reinforced concrete support grid
- Mammoth pump and sludge extraction funnel for removal of floating material and excess biomass n With shaft superstructure as per DIN V 4034-1, including pre-lubricated axial face seals n With shaft cover as per DIN EN 124 and DIN 1229
- Side-channel compressor with factory-installed air diffuser and controller optionally in weather-proof equipment box with lockable steel door for outdoor installation or in a frame for indoor installation
- The system is pre-assembled in the factory. Final installation and commissioning is performed by Mall as part of the installation service

Mall NeutraClear C1400 circulation water treatment system for free-standing installation

Z-83.4-6

Designation	Heaviest Wastewater volume l/min	Heaviest Wastewater contamination kg BSB5/d	Contents Pre-treatment tank l	Contents Operating water tank l	Nominal width DN	Elect. Connection capacity 400V/50 Hz kW	Heaviest single part kg	Largest Outer diameter mm	Largest Total height mm
C1500-F	100	3,23	7300	2600	150	0,75	500	2455	2200
C2000-F	180	8,15	9600	3500	150	1,1	850	2455	2740
C2500-F	280	12,66	9600	3500	150	2,0	1250	2455	2740
C3000-F	530	18,24	14600	9000	150	3,0	1800	3170	2850

- With German national technical approval
- For installation in frost-protected rooms
- Model in PP
- Connection fittings DN 150 for plastic pipes (e.g. HDPE, PP)
- Structure and function correspond to tried-and-tested circulation water treatment system for underground installation
- Side-channel compressor with factory-installed air diffuser and controller installed in frame for free-standing installation
- The system is pre-assembled in the factory. Final installation and commissioning is performed by Mall as part of the installation service

Webcode **M3010**

Compact system C1400

Vertical section

View from above

