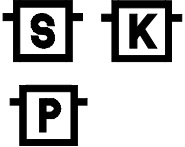


Hints for Installation Coalescence separators for indoor installation

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The following advises and hints refer to all components of corresponding separation plant, such as sludge trap, coalescence separators and sample facility.

Our advises and hints to the installation of a NEUTRA-separation plant are without obligation. The persons, responsible for the installation have to check them by the building contractors and to accommodate them to the local's conditions.

Separator plants have to be installed flooding-, and frost-free.
The upper edge of the cover of the separator plant have sufficiently be higher as the sewage inlet, which is installed at a lower level and probably as the highest possible level of rain water accumulation. In case, the building contractors cannot assure this, a warning system has to be installed.

Planning and building laws and regulations have to be observed. All works have to be executed workmanlike in accordance to generally accepted safety regulations of corresponding norms and as per further rules and regulations.

Inlet and Outlet

Separator plants have to be connected to the existing sewage or the combined sewerage system. The plant may only be fed with sewage, from which light liquids have to be separated. Rainwater from roofs and domestic sewage may not be led through the separator. Where a lifting device is necessary, it may only be installed downstream to a separator plant.

Installation place

By the transport to the installation place the existing width must be taken into account. The installation base must be horizontal and smooth. Be sure that inlet and outlet are not mixed while the installation. Before the separator a standard sludge trap installed.

Transport and Unloading

The delivery has to be checked by the building contractors. Possible reclamation has to be confirmed on the delivery note by the shipping agent and the receiver and have to be immediately announced. The unloading of separator plants and the accessory has to be executed with adequate lifting devices under respectation of the weights and loads.

Pipe Joints

The diameters of the pipe connection are suitable for plastic pipes. If necessary to connect to other pipes, it is possible to work with normal transition parts.

Nameplate

The nameplate is mounted on the separator top.

Commissioning

After the laying and filling works, it is absolutely necessary to clean the plant from debris and residuals. For the commissioning, the float has to be removed from the plant. Then fill the separator with water up to the outlet in to the canal. At last, remount the float into its guide cage in the separator (swimming position!). Close the cover of the float guidance.
Now the plant is operational!



Hints for Operation Coalescence separators for indoor installation

The following advises and hints refer to all components of corresponding separation plant, such as sludge trap, oil-fuel separators, coalescence separators and sample facility.

The advises and hints are without obligation. The responsible persons, instructed with the following works, have to check them and to accommodate them to the local's conditions. For the usage of separation plants DIN 1999, part 2 is applicable. Further regulations and injunctions can result from the operation licence of the planning and building permission etc. Those can specify, supplement or abolish the regulations of the norm.

Generally, only those sewages may be lead into separation plant, which do not contain material, which can affect the capability of separation, which work emulsifying or which damage the separator. When executing the works mentioned in the following, regulations of the decrees for the use of dangerous material, as well as the safety rules have to be observed. In case, one has to get into the plant, the fume-air-mixture has to be exhausted before. During the stay in the plant, take care for sufficient aeration.

Maintenance

As for all devices, for separators certain maintenance is necessary. Those are a regular inspection of the plant and the components of the plant, maintenance works, where necessary, and the disposal. These works can often be executed together with those of the user's check. Primarily, the following works occur:

- I Check of the filling level of sludge traps and oil reservoirs
- I Check and cleaning of the coalescence insert
- I Check and cleaning of the automatic closing device

The intervals for the execution of these works are dependent on the use of the plant. This means, choose short intervals at the beginning, and then fix the intervals in accordance to empirical values. But: take into consideration extraordinary events e.g. tilting of an oil barrel etc. The intervals can also be stipulated by legal regulations. Generally we recommend a maintenance contract with a specialist.

Maintenance, service sets for user's check, maintenance manual etc. can be obtained from Mall Donaueschingen.

Check and Maintenance Works

When the plant has been opened, the functional components of the separation plant can be checked through the opening of the manhole by the use of the service set for the user's check.

Float:

The automatic exclusion (float) is mounted at the outlet side in a guide cage. The perceptible black cover can be opened and the float can be taken out of this cage. Check the float for perceptible damages. Sedimentation has to be removed. When the float is brought back into the protective cage, the buoyancy can be checked, when the water surface is calm again. Close the black cover.

Coalescence Insert:

The coalescence material is mounted in the holding device out of stainless steel. This holding device can be seen from above. The coalescence material may easily be taken out of the guide mounted in the reservoir and inserted again.

When checking the insert visually, it becomes obvious, whether the insert has either to be cleaned or replaced. Rinsing with a water-hose is sufficient. The sewage of the rinsing has to be lead back into the separator through the intakes of the plant. The rinse sludge will chiefly be sediment in the sludge trap. The water surface before and behind the coalescence unit is indicators for the necessity to clean the coalescence inserts. The difference between those two surfaces should not be higher than the gauge of the coalescence insert.

Warning System:

The electrodes of the transducer and of the level monitor have to be cleaned and their function has to be checked in accordance to the manual of the warning system.

Hints for Disposal

Proper control, draining and cleaning of the separator and of the sludge trap, as well as the safe disposal of the sediments have to be executed in accordance to legal regulations. As per DIN 1999, part 2, separators have to be drained, when 4/5 of the capacity of the reservoir is filled; sludge traps, when they are filled up to their half in case their are no further regulations or injunctions. In any case, both components have to be drained at least twice a year (half-yearly).

In most cases a rigid regulation is not useful. Under respectation of different regulations, nowadays authorities agree to a disposal in accordance to demand.

To this subject, Mall-Neutra keeps further information at your disposal.

All reservoirs of the separator plant have to be drained completely. At first pump off the light liquids, swimming at the surface. Then suck off the sediments together with the remaining water. In separation plants, which are installed in parallel, the water can be lead through the neighbour plant. After the draining, the tanks and the built-in components have to be cleaned.

Draining and disposal of the sediments may only be executed by authorised disposing enterprises.

Commissioning

The automatic closing device has to be removed from the plant.

Then fill the separator with water up to the outlet in to the canal. At last, remount the float into its guide cage in the separator (swimming position!). Close the cover of the float guidance.

Now the plant is operational!

