Coalescence separator NeutraPrim
The best of breed among separating plants

Coalescence separator NeutraPrim
Filterless, with integrated oil collection tank
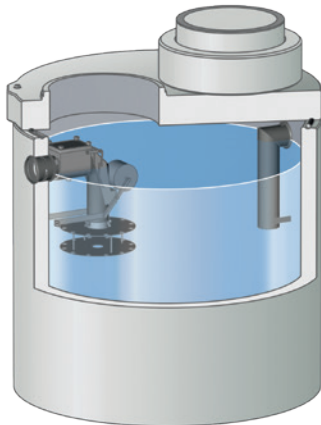
NeutraPrim

Z-54.3-496

S I NeutraPrim NS 3-30
Class I coalescence separator
With integrated sludge trap and self-closing mechanism on the inlet.

NeutraPrim combines a coalescence separator tested to EN 858 class I, an integrated sludge trap, and a self-closing mechanism on the inlet in a single separator system.

The new standard in separation technology
The NeutraPrim achieves its outstanding coalescence effect through the focused creation of turbulence at the system inlet. The potential turbulence ensures that the smallest oil droplets accumulate and grow into larger ones, which can then be separated easily. Decisive advantages over conventional coalescence devices are the free spherical passage of at least 150 mm and the maintenance-free and self-cleaning coalescence device.

Self-closing mechanism
The system has a self-closing mechanism that shuts off the feed to the system when the maximum oil layer thickness in the separation space has been reached. This oil layer can only form when the optional oil collection tank is already full. With this, additional oil storage capacity is available.

Optional: Oil collection tank
The separated light liquid layer floats to the top and is channeled into two oil collection tanks. This process takes place without external energy and removes light liquids from the surface. There is additional storage capacity on the surface of the separator, which is available at any time in the event of an accident.

The advantages at a glance

+ Oil sink in closed oil collection tank consisting of two separate tanks resulting in an oil-free surface

+ Tank capacity conforms to German ordinance governing installations for handling substances hazardous to water (VAwS)

+ Free spherical passage of at least 150 mm

+ Non-clogging, self-cleaning coalescence device

+ Sludge and light liquids already separated at the inlet

+ General inspection can be performed without removing the individual components

+ Good accessibility

+ Conforms to the principle guidelines contained in the EN 858 standard and the DIN 1999-100 and 1999-101 supplementary standards
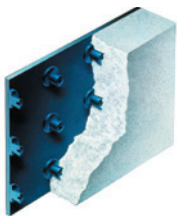
+ Maintenance-free coalescence device
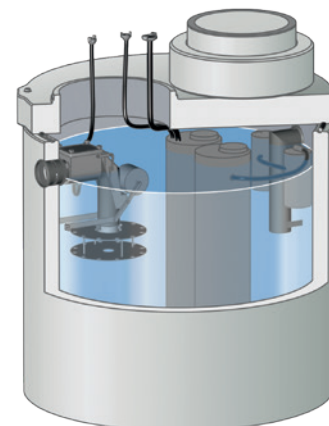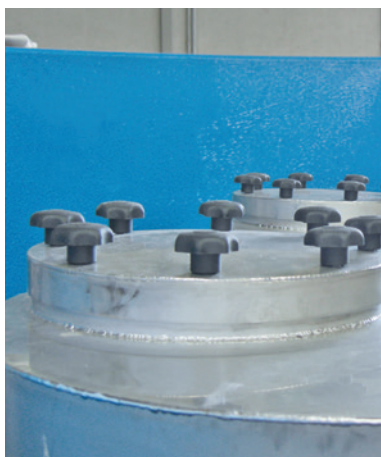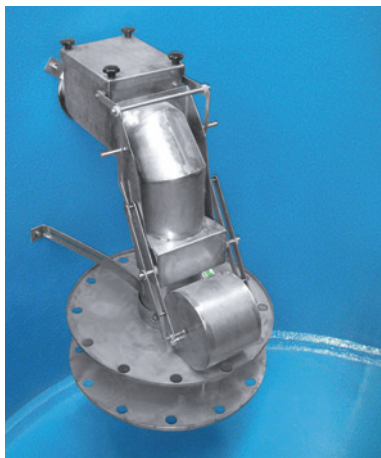
NeutraPrim with integrated oil collection tank

Areas of application

- Siphoning and transfer points, e.g. gas stations
- Fire department or rescue stations
- City sanitation departments
- Washing facilities for municipal vehicles
- Washing facilities at which cuttings can also collect
- Washing facilities for agricultural or construction vehicles
- Military installations

Optional: HDPE inner lining

For special anti-corrosion requirements made necessary by wastewater inside containers, Mall provides a model with an HDPE inner lining. This way, the reinforced concrete light liquid separating plants can be lined with PE concrete protection plates in the factory. The high level of mechanical stress is combined with improved resilience against wastewater with varying temperatures. One side of the artificial plates feature a certain number of conical anchor nubs which provide for a permanent bond with the concrete. Stress caused by various instances of heat expansion of concrete and plastic is suppressed by this force-locked connection. For 30 years, the combination of concrete and plastic has proven itself to be a highly acid-proof lining under the toughest conditions around the world. Hydraulically smooth, non-porous surfaces prevent encrustation and support the self-cleaning process, allowing the system to be low-maintenance and therefore highly economical in the long term.

Optional: Double-walled PE with leak monitoring

In cases with special requirements, the PE inner lining is double-walled and the space in between is additionally monitored for leak tightness with a leak detector.

Warning device NeutraStop System OASA

The monitoring of separating plants is comfortable and reliable. Two independent operating conditions within the separating plant are measured electronically and are reported before any malfunction occurs. The conductivity sensor responds when the oil layer has reached 80% of its maximum thickness The level monitor records the level of liquid in the separating plant.

Optional

- Handymat signaling device for forwarding alarms and faults as SMSs to mobile phones, faxes, email or normal telephone messages.
- Solar warning system

GET

Gütegemeinschaft Entwässerungstechnik e. V. (Quality Control Association for Drainage Technology), which awards quality certificates as a RAL quality control association.

Quality characteristics

- External monitoring of production processes
- Stability certificates
- Quality characteristics as defined by quality guidelines
- Ongoing updates of the technical condition of the products
- External monitoring of the type approval and of national approvals
- Internal and external production monitoring
- Tested type structure SLW 60
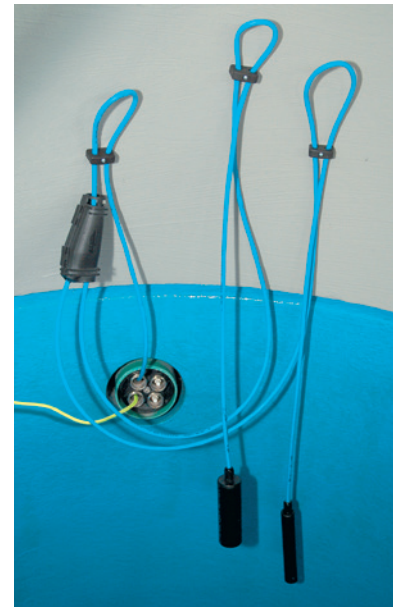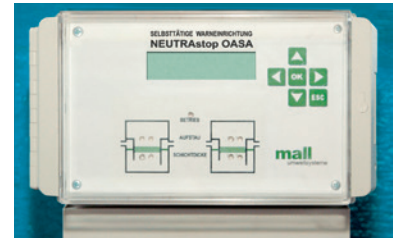
RAL quality certificate

RAL German Institute for Quality Assurance and Certification is an independent organization that approves the RAL quality certificates for products and services. The basis for this approval are the individually determined requirements for each quality certificate. Adherence to the quality requirements is continually verified by neutral test centers, institutes or certified experts. Mall separating plants are distinguished with the RAL quality certificate 693.

NeutraPrim
Washing facilities with high contamination

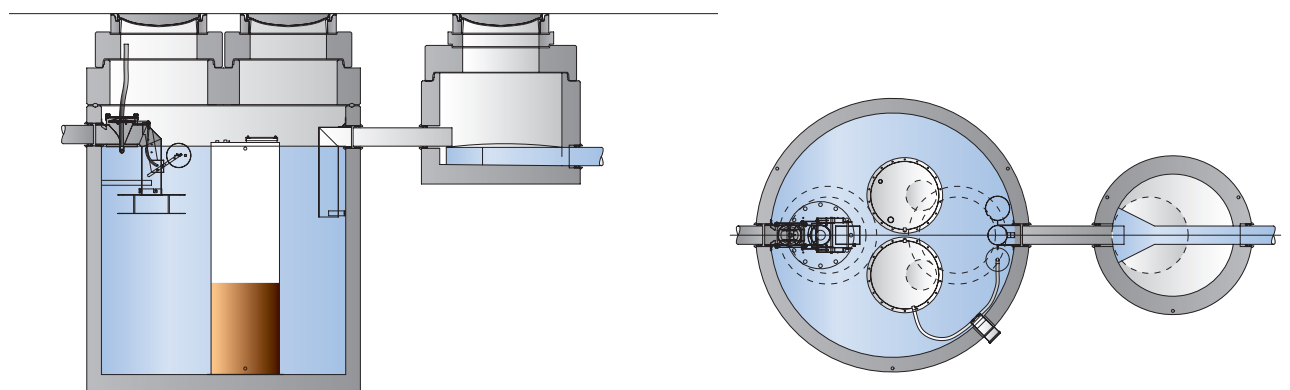## Installation example: Industrial companies
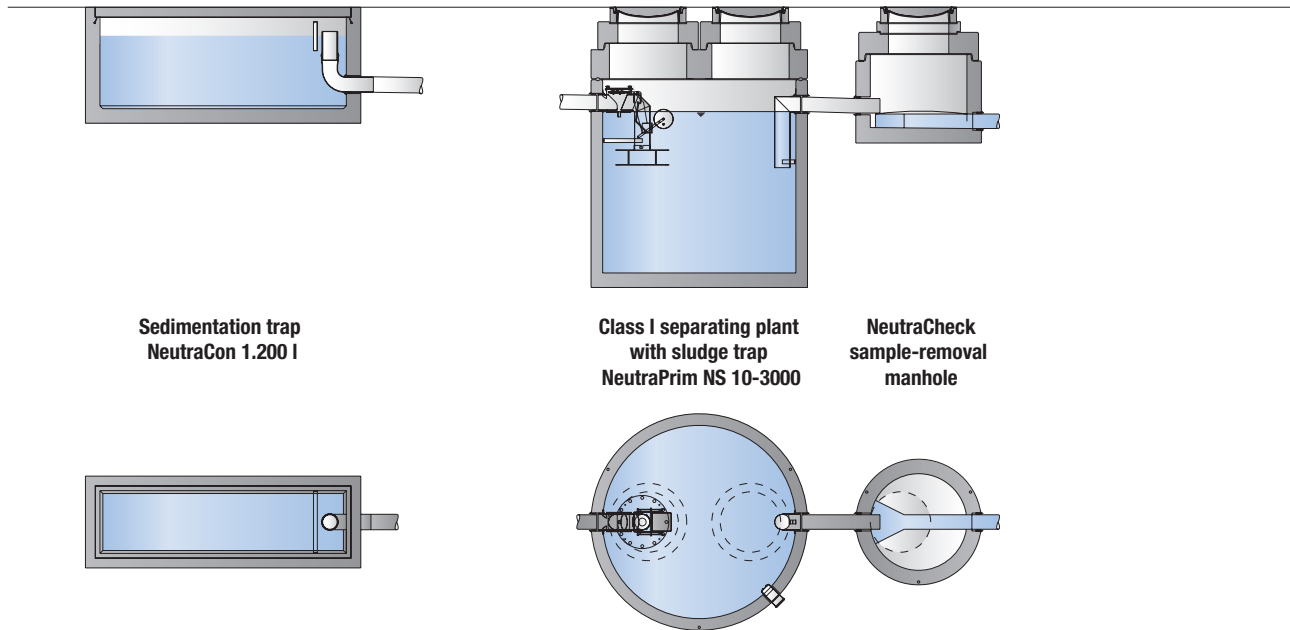
Sedimentation trap
NeutraCon 1.200 l

Class I separating plant
with sludge trap
NeutraPrim NS 10-3000

NeutraCheck
sample-removal
manhole

Installation example: Gas station dewatering as system conforming to German ordinance governing installations for handling substances hazardous to water (VAwS)

Class I separating plant
with oil storage tank
NeutraPrim NS 10-3000

NeutraCheck
sample-removal
manhole