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EuroREK[®] Slim NS2 –Grease Separator

Instructions for Installation, Operation and Maintenance



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1 GENERAL

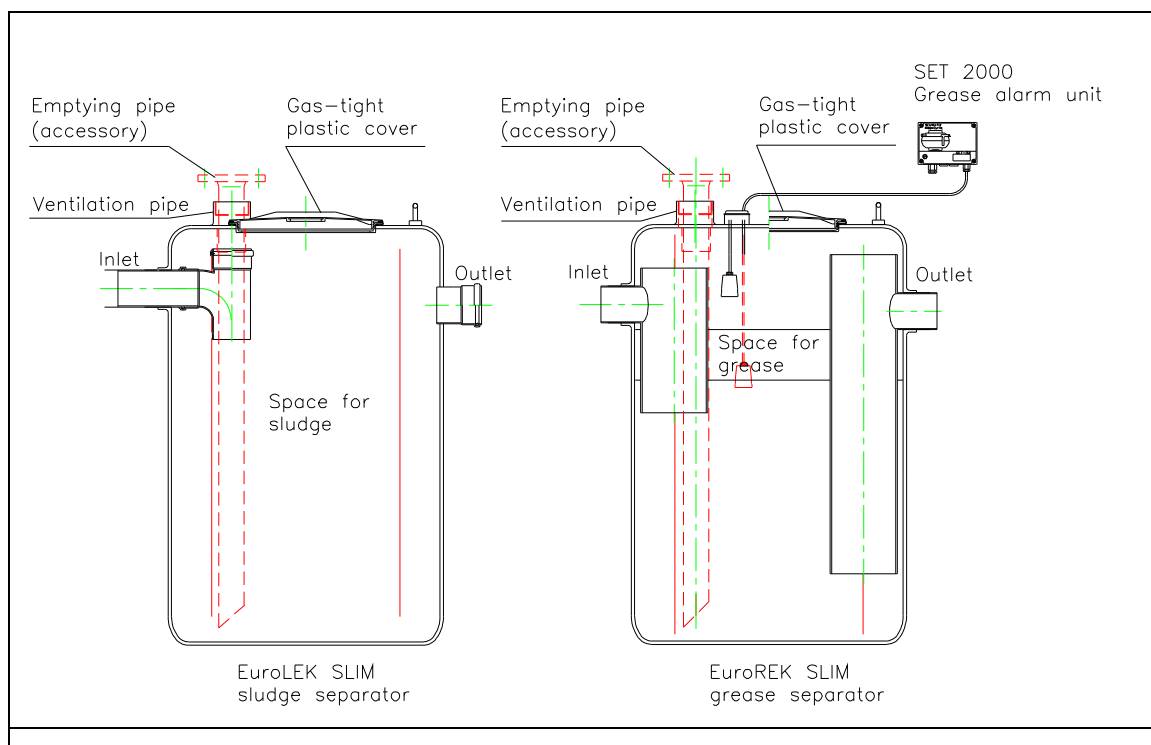
The grease separators manufactured by Wavin-Labko Ltd are dimensioned according to the demands of Finnish regulations (Code of Building Regulations, part D1) and also to the new European standard EN1825.

In the grease separator the water flow is divided evenly around the separator tank with a standardized inlet pipe. All EuroREK type grease separators are equipped with a SET-2000 grease alarm unit, which enables service of the separator always at the correct time. The Labcom data transfer unit is used to forward the alarm information, for example, directly to the maintenance and emptying company.

Separate Installation and Service Instructions are delivered with the alarm unit SET - 2000.

2 TECHNICAL DATA

The EuroREK Slim grease separators are dimensioned according to the standard EN1825. These separators are not designed to stand the earth pressure, and they are intended to be installed inside a building only.



Picture 1. Grease separator system EuroREK Slim NS2.

EuroREK Slim NS2		Sludge Separator	Grease Separator
Maximum flow rate	l/s	2	2
Inlet/outlet pipe	DN	110	110
Ventilation pipe	DN	110	110
Bottom – inlet pipe	mm	1000	950
Bottom – outlet pipe	mm	950	930
Width	mm	750	750
Length	mm	800	800

Height	mm	1320	1320
Gas-tight threaded covers	pcs	1	1
SET-2000 Grease alarm unit	pcs	-	1
Sludge emptying pipe (accessory)	pcs	1	-
Grease emptying pipe (accessory)	pcs	-	1

3 INSTALLING THE PROBES

In EuroREK Slim grease separators the probes are already in their places at the correct level. The connection box is situated on the separator. Thus, installation of the probes inside the separator tank is not necessary. However, the connection box should be connected further to the central unit of the alarm system. Detailed instructions are delivered together with the alarm device.

4 INSTALLATION AND MAINTENANCE OF EUROREK SLIM GREASE SEPARATORS

4.1 Installation

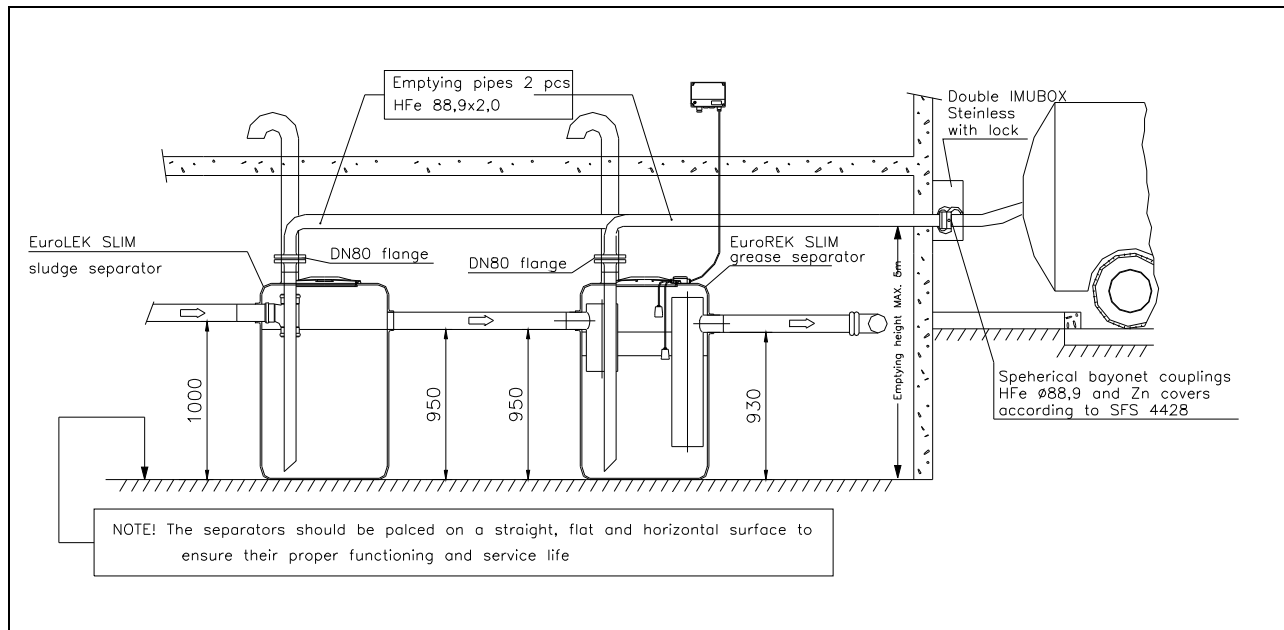
The EuroREK Slim separators are designed for indoor installation. They are slim, box-shaped separators, which can be carried through doors also into old buildings.

EuroREK Slim separators are always installed on a straight floor.

Model EuroREK Slim NS2 has two separate separator tanks: sludge separator and grease separator. The sludge separator should be installed first and the grease separator next in the discharge direction of the sewage line. The separators can be connected to the sewage pipes with plug-in connectors (\varnothing 110). If it is not possible or if you do not want to install the separator tanks close to each other, you can place an intermediate pipe between them and connect the pipe to the separators with plug-in connectors. Recommended length of the connection pipe between the tanks should not exceed 0,5 m in order to prevent it from blocking and to facilitate the service operations.

For the ease of maintenance, it is recommended to place a hot-water tap with a hose connection near the separators for dissolving and washing out the solid matter from the walls and bottom of the separator tanks.

The emptying pipes of the separators are installed as follows: Connect the suction pipes (HFe 88,9x2,0) with DN80 flange connectors to the emptying pipes (accessory) of the separators. The suction pipes are connected to the suction box "DOUBLE IMUBOX", which is fastened on the outside wall of the building. If you will use just one suction pipe instead of two, you should install an appropriate flexible suction hose and a single-coupling IMUBOX. If there is not enough space on the building wall for the DOUBLE IMUBOX or if you want to place the drainage points of the two separator tanks separately from each other, it is possible to use two single-coupling IMUBOX suction boxes.



Picture 2. Installation of the EuroREK SLIM NS2 grease separator system.

4.2 Maintenance

The separators should be emptied when the alarm system gives a light signal showing the filling of the storage space or back-water in the separator. In addition, the sludge space of the separator has to be emptied when half of its volume has filled with sludge.

The alarm signal can also be forwarded directly to the draining company through the Labcom data transmission unit (accessory). Using the remote data transmission requires conclusion of a corresponding service contract with the teleoperator and the maintenance and emptying company. If necessary, you will find extra information at the Labko's Internet site www.wavin-labko.fi.

The following steps shall be completed when the filling of the storage space alarm has been received:

1. If you want to empty only the grease layer from the surface of the separator, place the suction pipe 0.5 m below the grease layer's surface. If the grease layer is very hard, start the suction even deeper down, so that the grease layer will break. If necessary, soften the grease layer with hot water, air blast or steam.
2. The sludge, which has gathered in the separator, should be removed often enough (e.g. 3 times a year). The sludge can be removed also at the same time when the grease is removed from the surface. In this way the separator will become drained completely. If you are going to empty the grease separating space thoroughly, the suction hose of the emptying lorry has to be placed very carefully into the grease separating space to avoid causing damage to the separator bottom.
3. If grease has stuck to separator walls, remove it by pressure washing with warm water.
4. **NOTE!** Do not forget to clean the probes when emptying the separator.

The following steps are completed when back-water in the separator alarm has been received:

1. Check if the blockage is inside the separator or in the outlet pipe to the sewer.
2. Empty the whole separator if the blockage causing the back-water alarm is inside the separator.
3. Clean the separator with warm water. Pay particular attention to cleaning the outlet water seal of the separator.
4. **NOTE!** Do not forget to clean the probes when emptying the separator.

IMMEDIATELY AFTER EMPTYING, ALWAYS FILL THE GREASE SEPARATOR TANK WITH WATER to ensure that the separator starts functioning properly. The separator should be filled with clean water up to the level of the outlet pipe, also when it is not completely emptied. If groundwater level in the installation area is high, filling with water reduces the influence of groundwater buoyancy.