wavin Labko

November 2006

Floor Drain Separators

Wavin-Labko in brief

Wavin-Labko Oy is a Finnish company with over 40 years' experience in developing, manufacturing and marketing of measuring devices and various plastic products. In the field of measuring devices we are specialized in level indicator instruments and alarm devices, automation and identification, and in web-based solutions of data transfer. In the field of plastic products we have focused our know-how on wastewater and stormwater treatment by using various separator systems. These systems cover the separator solutions for business and services construction, the wastewater treatment in rural area settlements, as well as the wastewater treatment of private houses and summer cottages.

Wavin-Labko Oy is a part of the international Wavin Group that is the leading European supplier of plastic pipe systems. The Wavin Group has business units in 27 European countries.

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Floor Drain Separators

FOR SEPARATING SILT, OIL AND FUEL IN CAR AND MOTOR WORKSHOPS, PARKING SPACES AND GARAGES

Reliable solutions

Separators and tanks

Wavin-Labko Floor Drain Separators

- **floor drain separators and valve wells for indoor use**
- **oil separators, EuroPEK Roo SL NS3...NS10 - for indoor applications**

Wavin-Labko have produced various types of separator systems more than 40 years. All our products are easy to install and their efficiency as well as mechanical and chemical durability have been tested. Long everyday experience is our guarantee of reliability and long life in a wide variety of applications.

This brochure presents floor drain separators and valve wells for indoor use, and the indoor-type oil separators EuroPEK Roo SL NS3…NS10. Typical applications for these separators are repair workshops, indoor car parks, garages, air-raid shelters, car wash facilities, and technical rooms.

Floor drain type oil and fuel separators can be equipped with ATEX approved alarm units to indicate when the oil storage space is about to be full. The alarm system provides in-time information of the need to drain oil from the separator. If necessary, the alarm can be transferred into the building automation system of the property or, using the Labcom data transfer unit, to a mobile phone. The alarm can also be transmitted through the LabkoNet server to all parties needing the information. Remote monitoring of separators will help in ensuring the draining of oil spaces in time and this will cut the expenses.

Dimensioning

Correct dimensioning is critical for the smooth operation of the separator. Refer to instructions by your local authorities regarding dimensioning in your country.

HEK® LK Silt Traps

The HEK LK silt traps effectively separate silt and other solids in wash waters.

The HEK LK silt traps are adapted for use with the MiniPEK ST 0,4 or EuroPEK oil separators.

The separator can be turned into a floor drain with water lock by turning the elbow down and removing the plug.

Telescopic solution for indoor use

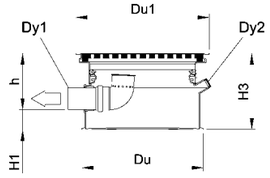
Height adjustment of the HEK LK silt traps is easy due to the telescopic solution unique to floor drain separators in this size range.

Applications

- service and repair facilities
- indoor car parks
- garages

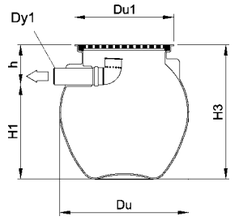
HEK 40 LK TEL silt trap

- silt storage capacity 40 l (dimensioning instruction 20 l/car place)
- telescopic (adjusting range 70 mm)
- fitting (Dy2) for wash basin



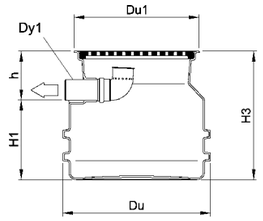
HEK 200 LK silt trap

- silt storage capacity 200 l (dimensioning instruction 20 l/car place)



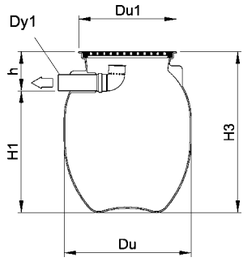
HEK 120 LK silt trap

- silt storage capacity 120 l (dimensioning instruction 20 l/car place)



HEK 400 LK silt trap

- silt storage capacity 400 l (dimensioning instruction 20 l/car place)



Legend

Du	= outside diameter
Du1	= collar diameter
Du2	= diameter of container
Dy	= outside diameter of ventilation fitting (extra equipment)
Dy1/Dy2	= diameter of connector fitting DN
H1/H2/H3/H4	= height
L	= length
W1	= length of cover
W2	= width of cover
C	= width
h	= drain pipe installation depth
h1	= elevation margin
V	= effective capacity
V_{oil}	= oil and fuel storage capacity
V_{silt}	= silt storage capacity
V_{water}	= water capacity
Pcs	= number of coalescent units

HEK LK silt traps	Du	Du1	Dy1	Dy2	h	H1	H3	V_{silt}	Weight
	mm	mm	mm	mm	mm	mm	mm	l	kg
HEK 40 LK TEL	600	700	110	50	250...320	100	350...420	40	40
HEK 120 LK	790	660	110		260	420	680	120	50
HEK 200 LK	850	660	110		265	625	890	200	52
HEK 400 LK	850	660	110		265	815	1080	400	58
All products with A15 cover (ø 600) as standard (C250 cover also available).									

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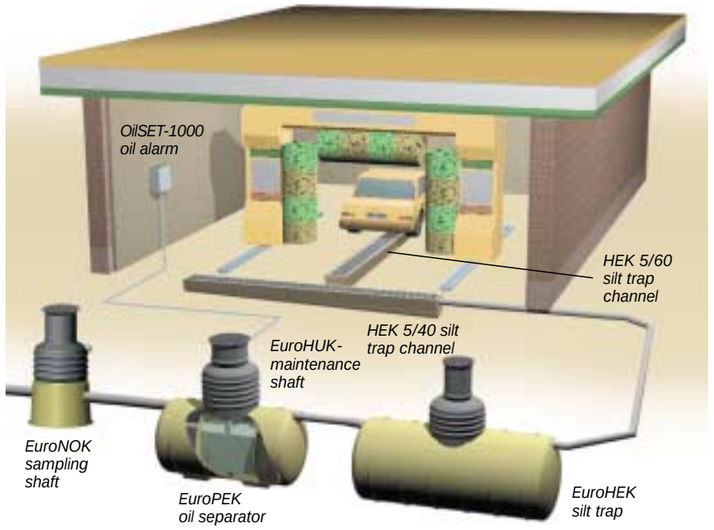
HEK® Silt Trap Channels

The HEK silt trap channels effectively trap silt and other solids from wash water. The HEK silt trap channels are suitable for use at washing facilities for working machines and vehicles, for instance.

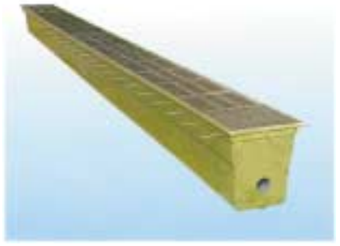


Applications

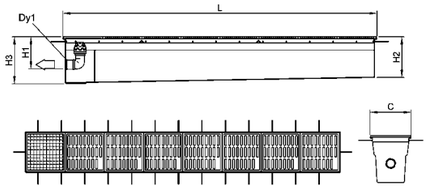
- service and repair rooms
- washing facilities for vehicles and working machines

In a car wash facility the silt trap channel must be at least as long as the vehicle to be washed so that all solids will be carried by wash water into the separator system.

Generally the most suitable model for commercial car wash facilities is the HEK 5/60 with 800 l silt storage capacity and 6 m length. For private passenger car washing facilities as well as service and repair rooms the HEK 5/20 is a suitable silt trap channel.



HEK 5/20...5/80 silt trap channels



HEK silt trap channels	Dy1	H1	H2	H3	L	C	V_{silt}	Weight*	Weight**
	mm	mm	mm	mm	mm	mm	l	kg	kg
HEK 5/20 standard	110	410	560	560	2026	520	240	150	225
HEK 5/25	110	410	545	590	2526	520	310	190	280
HEK 5/30	110	410	535	590	3026	520	380	230	340
HEK 5/35	110	410	530	590	3526	520	450	270	400
HEK 5/40 standard	110	410	520	590	4026	520	520	310	460
HEK 5/45	110	410	510	590	4536	520	590	350	520
HEK 5/50	110	410	500	590	5036	520	660	390	580
HEK 5/55	110	410	490	590	5536	520	730	430	640
HEK 5/60 standard	110	410	480	590	6036	520	800	470	700
HEK 5/65	110	410	470	590	6536	520	850	510	760
HEK 5/70	110	410	465	590	7036	520	900	550	810
HEK 5/75	110	410	455	590	7536	520	950	590	870
HEK 5/80 standard	110	410	450	590	8036	520	1000	630	930
All products with A15 (2,5 t) covers (C250 (12,5 t) covers available). Hot galvanized ø 8 mm rebars for anchoring in concrete.									
*Weight with 2,5 t covers									
**Weight with 12,5 t covers									

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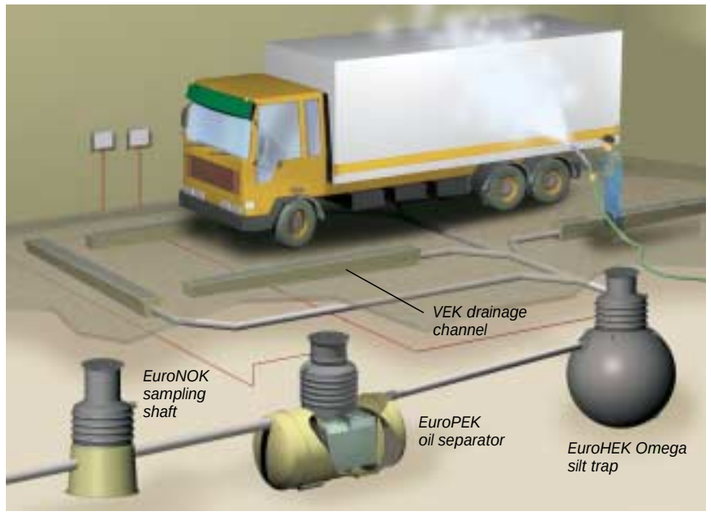
VEK® Drainage Channels

VEK is a non-freezing wash and rain water drainage system. It is designed for outdoor and indoor use.



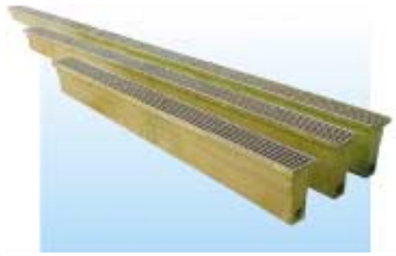
Applications

- service and repair rooms
- washing facilities for working machines and vehicles
- car park areas

Outdoos the VEK drainage channels collect rain water, and overfilling at fuel stations and filling points for heavy vehicles.
The VEK drainage channels are connected through a EuroHEK silt trap to a EuroPEK oil separator.

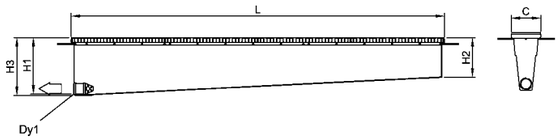
VEK drainage channels can also be installed at washing facilities for heavy vehicles. The channels are installed along the track so that wash water and the silt and solids removed by the water spray are carried away via the channels directly into the separator system. A channel at the door will collectwash water splashes and the water dripping from vehicles on their way out. The door channel is used for preventing the accumulation of frozen wash water at the door.

A VEK channel in front of a ramp door collects rain water and keeps the spaces inside dry, and ensures undisturbed operation of automatic doors.



VEK 3/40...3/80 drainage channels

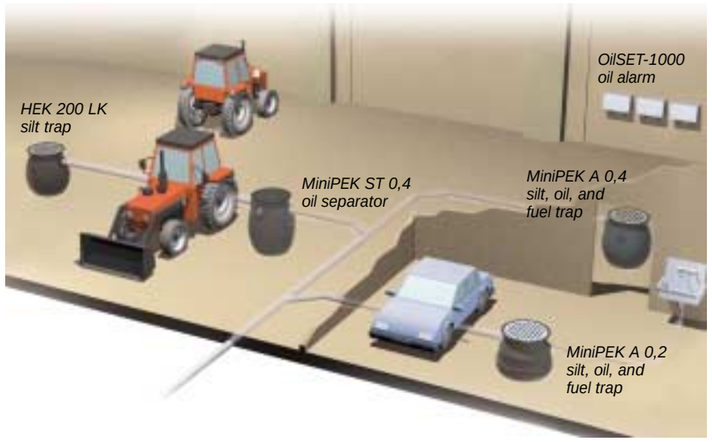
- act as dry wells



VEK drainage channels	Dy1	H1	H2	H3	L	C	Weight
	mm	mm	mm	mm	mm	mm	kg
VEK 3/20	110	610	530	625	2026	320	90
VEK 3/25	110	610	505	625	2530	320	115
VEK 3/30	110	610	480	625	3030	320	135
VEK 3/35	110	610	455	625	3534	320	160
VEK 3/40	110	610	430	625	4034	320	180
VEK 3/45	110	610	405	625	4546	320	205
VEK 3/50	110	610	380	625	5046	320	230
VEK 3/55	110	610	355	625	5550	320	250
VEK 3/60	110	610	330	625	6050	320	275
VEK 3/65	110	610	305	625	6554	320	300
VEK 3/70	110	610	280	625	7054	320	330
VEK 3/75	110	610	265	625	7558	320	355
VEK 3/80	110	610	250	625	8058	320	380
All products with C250 covers. Hot galvanized ø 8 mm rebars for anchoring in concrete.							

MiniPEK® A Silt, Oil, and Fuel Traps

The MiniPEK A traps effectively separate silt and other solids, as well as oils and fuels from melt water. A EuroPEK oil separator shall be used at washing facilities for vehicles and machines.

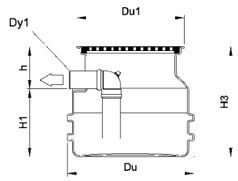


Applications

- parking spaces
- garages
- storage rooms
- industrial premises

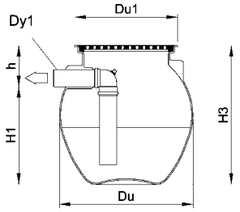
MiniPEK A 0,2 silt, oil, and fuel trap

- flow-through volume 0.2 l/s with 9 min. delay time
- silt storage capacity 40 l (dimensioning instruction 20 l /parking place)



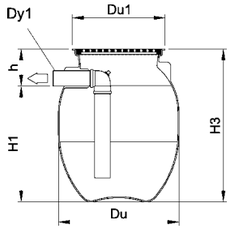
MiniPEK A 0,4 silt, oil, and fuel trap

- flow-through volume 0.4 l/s with 9 min. delay time
- silt storage capacity 120 l (dimensioning instruction 20 l /parking place)



MiniPEK A 0,6 silt, oil, and fuel trap

- flow-through volume 0.6 l/s with 9 min. delay time
- silt storage capacity 120 l (dimensioning instruction 20 l /parking place)



MiniPEK A silt, oil, and fuel traps	Max. flow l/s	Du mm	Du1 mm	Dy1 mm	h mm	H1 mm	H3 mm	V_{silt} l	V_{oil} l	Weight kg
MiniPEK A 0,2	0,2	790	660	110	260	420	680	40	110	50
MiniPEK A 0,4	0,4	850	660	110	265	625	890	120	230	54
MiniPEK A 0,6	0,6	850	660	110	230	850	1080	120	330	58

All products with A15 cover (ø 600) as standard (C250 cover also available). OilSET-1000 oil alarm as extra equipment.

MiniPEK® ST Oil Trap

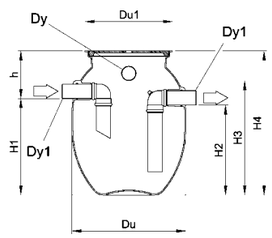
The MiniPEK ST oil trap effectively separates, for instance, oil from melt water.
The MiniPEK ST oil trap is designed for use with the floor drain type HEK LK silt traps.

Applications

- garages
- machine sheds (tractors, etc.)
- repair shops
- working rooms
- storage rooms

MiniPEK ST 0,4 oil trap

- flow-through volume 0.4 l/s with 9 min. delay time



MiniPEK® 0,3 Oil Trap

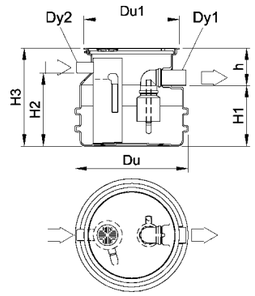
The MiniPEK 0,3 has been developed for preventing, for instance, undetected oil leaks from boiler rooms. The oil trap collects solids from wastewater and the automatic closing device prevents oil from entering the sewerage system.

Applications

- boiler, aggregate, and compressor rooms

MiniPEK 0,3 silt and oil trap

- with 0.5 t grp plastic cover
- connection fitting (Dy2) for wash basin



OilSET-1000 Oil Alarm

All oil separators can be provided with OilSET-1000 oil alarm as extra equipment. A probe unit measures the thickness of the oil layer and the alarm device indicates when it is time to drain oil from the separator. Draining oil from the separator in time will prevent oil from entering the sewerage system.

The alarm can be transferred into the building automation system of the property and/or, using the Labcom data transfer unit, to a mobile phone. The alarm can also be transmitted through the LabkoNet server to all parties needing the information. Remote monitoring of separators will help in ensuring the draining of oil spaces in time and this will minimize environmental risks and cut expenses.

OilSET-1000 oil alarm

MiniPEK oil traps	Max. flow l/s	Du mm	Du1 mm	Dy mm	Dy1 mm	Dy2 mm	h mm	H1 mm	H2 mm	H3 mm	H4 mm	Weight kg
MiniPEK ST 0,4	0,4	850	660	110	110		360	720	670	850	1080	58
MiniPEK 0,3	0,3	790	660		110	75	260	420	510	680		18

MiniPEK ST 0,4 oil traps with 5 t cover (ø 600) as standard (25 t cover also available).
OilSET-1000 oil alarm as extra equipment.

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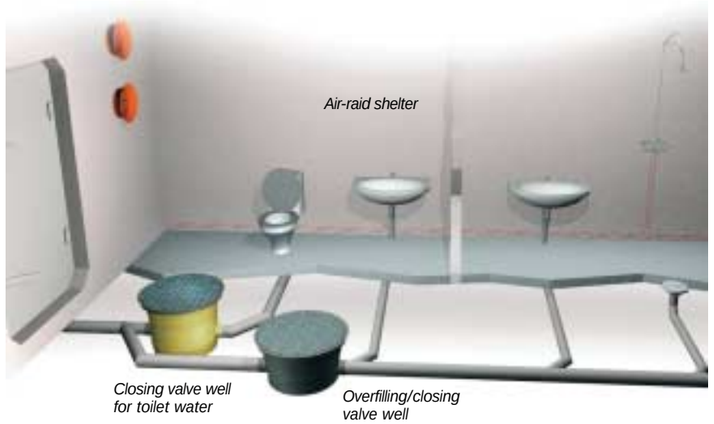
Overfilling and Closing Valve Wells

Overfilling and closing valve wells are designed for sewerage of water outlets below overfill height in air-raid shelters.

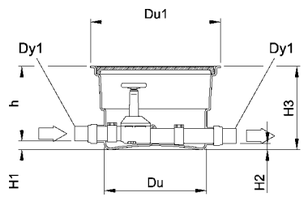
Applications
- air-raid shelters

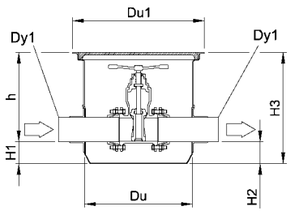


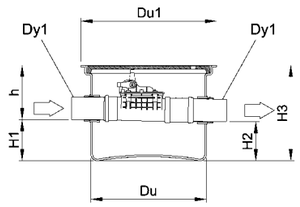
Overfilling and closing valve well DN 70 and DN 100
- for sewerage of graywater (shower, hand wash basin) in air-raid shelters
- overfill/closing valve, collar mounting

Closing valve well for toilet water in air-raid shelters
- for sewerage of toilet water
- DN 100 rubber gate valve

Overfilling and closing valve well D 110
- for sewerage of graywater (shower, hand wash basin)
- overfill/closing valve D 110 PVC







	Du	Du1	Dy1	h	H1	H2	H3	Weight
	mm	mm	mm	mm	mm	mm	mm	kg
Overfilling and closing valve well DN 70	520	660	DN70	385	40	35	425	23
Overfilling and closing valve well DN 100	520	660	DN100	385	40	35	425	27
Closing valve well for toilet water in air-raid shelters	540	660	DN100	445	115	110	560	48
Overfilling and closing valve well D 110	560	660	110	265	200	190	465	12
All products with 0.5 t grp plastic cover (ø 600).								

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Leakage Water Well 75L

Leakage water wells are designed as collecting and pumping wells for rooms without sewerage.

Applications
- rooms without sewerage

Mini-NEUTRA DN 50

The MiniNEUTRA DN 50 is designed for neutralizing aggressive substances in water before discharging them into the sewerage system.

Applications
- battery rooms
- storage rooms for aggressive liquids

Clay and Gypsum Trap

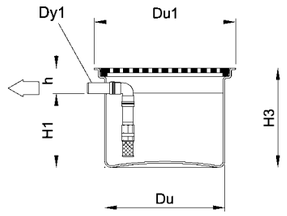
This product separates clay and gypsum fines from wash water.

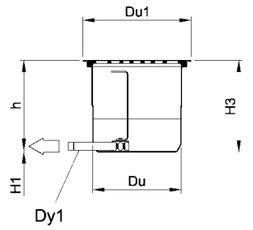
Applications
- hobby rooms
- clay workshops
- plaster casting departments in health care centres and hospitals

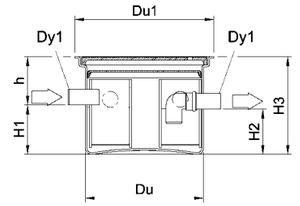
Leakage water well 75L
- ready-to-install well with plastic PEH 50 bottom valve suction piping

MiniNEUTRA DN 50
- equipped with acid proof DN 50 pipe and ball valve
- designed for neutralizing small amounts of water containing aggressive chemicals

Clay and gypsum trap
- ready-to-install unit for mounting on floor or embedded
- easy to drain and clean
- sufficient water volume for separation of gypsum mass



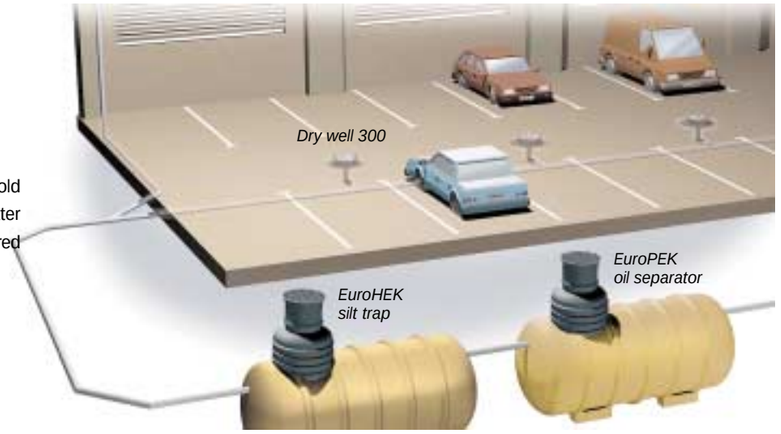




	Du	Du1	Dy1	h	H1	H2	H3	V_{water}	Weight
	mm	mm	mm	mm	mm	mm	mm	l	kg
Leakage water well 75L	560	660	50	120	345		465	75	40
MiniNEUTRA DN 50	540	660	50	550	10		560		10
Clay and gypsum trap	560	660	D75	230	235	215	465	45	15
Leakage water well with A15 cover (ø 600) as standard (C250 cover also available).									
MiniNEUTRA DN 50 with A15 cover (ø 600) as standard (C250 cover also available).									
Clay and gypsum trap with grp plastic cover (ø 600, 0.5 t). Gas tight intermediate cover.									

Dry Well 300

Dry well 300 is also suitable for use in cold spaces. The well is provided with a water insulation flange, but it can also be delivered without it.



Applications
- parking areas
- ramps
- other cold spaces

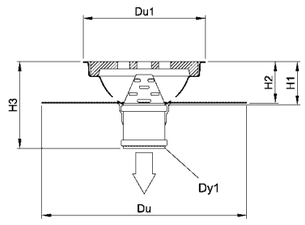
Adjusting Rings

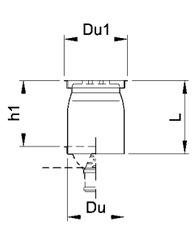
Adjusting rings are used for adjusting the installation height of sewers and floor drains where the installation height differs from the standard dimensions. The adjusting ring can be cut to desired height.

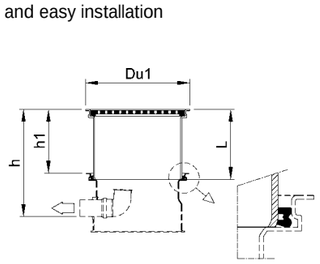
Dry well 300

Adjusting ring 300
- suitable for Dry well 300
- max. height adjustment 350 mm
- can be cut to desired height

LK Adjusting ring 600
- suitable for use with any 600 mm floor drains
- max. height adjustment 400 mm
- can be cut to desired height
- includes silt seal for connection sealing and easy installation







	Du	Du1	Dy1	h	h1	H1	H2	H3	L	Weight
	mm	mm	mm	mm	mm	mm	mm	mm	mm	kg
Dry well 300	570	340	110			120	115	240		12
Adjusting ring 300	300	340			120...350				390	12
LK Adjusting ring 600		700			50...400				440	8
Dry well 300 with 25 t cover (ø 300).										
Adjusting rings must be cut to desired height. Overall height of ring shall be approx. 40 mm more than the desired elevation.										
Covers according to Dry Well.										

EuroPEK® Roo SL Oil Separator

The EuroPEK Roo is a Class 1 oil separator that effectively separates oil from wastewater. The product range has been tested and approved according to the oil separator standard EN 858 (DTI, Test Report 1038265/2002).

The excellent separating capacity of EuroPEK Roo is based on coalisator units. Small oil droplets fasten to the coalisator surface and form larger drops that rise upwards. The separated oil is stored as a uniform layer on top of the water in the separator. The cleaning efficiency of contaminated coalisators is restored by washing them with pressurized water, which cuts maintenance costs significantly.

The EuroPEK Roo oil separator is especially designed for use in rebuilding projects. The EuroPEK Roo oil separator is mounted directly on the floor. Movable units can also be made for cleaning the ground water in contaminated areas, for example.

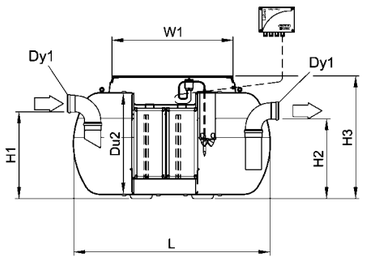
The EuroPEK Roo oil separator is also available for subsurface installation.

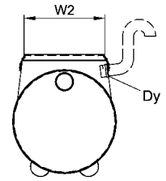
Applications
- industry
- repair shops
- vehicle washing facilities
- cleaning of contaminated ground water
- power plants

EuroPEK Roo SL oil separator

Coalization unit of oil separator.

Regular maintenance of oil separator ensures problem-free operation. In order to maintain the separator's cleaning efficiency the coalisator must be cleaned at least twice a year. A high-pressure washer is suitable for cleaning.





EurpPEK Roo SL	Max. flow	Du2	Dy	Dy1	H1	H2	H3	L	W1	W2	V	V_{oil}	Pcs	Weight
oil separators	l/s	mm	mm	mm	mm	mm	mm	mm	mm	mm	l	l	pcs	kg
NS3 SL	3	1000	110	110	860	790	1220	1950	1200	800	1100	250	2	165
NS6 SL	6	1000	110	160	860	790	1220	1950	1200	800	1100	250	4	180
NS10 SL	10	1000	110	160	860	790	1220	3100	1200	800	1800	400	6	240
All models have a hinged grp cover (1200 x 800) with sealing. OilSET-100 oil alarm as standard.														

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