



**APLAST**  
ROTOMOULDING

# AQUAplast OIL AND GREASE SEPARATORS



# Protect the groundwater — intercept pollutants

Aquaplast oil and grease separators are used for the separation of meteoric water from light liquids in the form of fuels and oils (< 0.95kg/l), which constitute a threat in terms of groundwater pollution. Especially in the vicinity of:

- petrol stations,
- large multi-storey car parks,
- car parks for transport vehicles,
- car and tyre repair shops and car washes,
- as well as restaurants, oil and grease separators are statutory, as greases must be filtered out before meteoric water is released into the sewerage system to such an extent, that wastewater contains \*a max. of 5mg of matter/l upon being released.

## FUNCTION:

The separators operate under the principle of gravity. Oil, petrol, fuel oil, lubricants, heating oil and other light liquids have a lower specific weight than water, a fact exploited by oil and grease separators by reducing the velocity and flow of meteoric water, causing light-liquid particles to separate and rise to the surface. The filtered water thus flows safely through the drain into the sewerage system, protecting the groundwater from potential pollutants.

## ADVANTAGES OF Aquaplast OIL AND GREASE SEPARATORS:

- They are manufactured and dimensioned in accordance with the SIST EN 858 standard.
- They are certified using state-of-the-art testing methods.
- Light weight — easy to transport and install.
- Long life span (up to 50 years).
- They are made from polyethylene, which is especially suitable for recycling — environmentally friendly.
- Made in Slovenia.
- Easy maintenance and servicing.

\*Filtration rate:  
1 = up to 5mg of matter/litre  
2 = up to 100mg of matter/litre

## 1. Aquaplast gravity separators

Wastewater polluted with light liquids is retained inside the separator for a certain amount of time. Due to their lower specific weight, light liquids rise to the surface. The filtered water is drained from the separator through the outflow. Through correct use, light liquids accumulate inside the device, which must regularly be removed.

The gravity separators are suitable for removing light liquids on small **trafficked and non-trafficked areas**.

### 1.1. With an integrated settler and separator

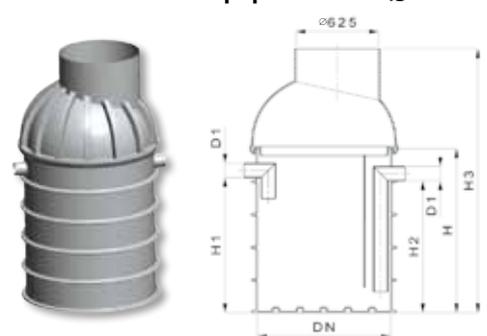
Aquaplast NS\_ S2P - INTEGRATED

Aquaplast		1,5	3	6*	10*	15*	20*
		S2P-INT	S2P-INT	S2P-INT	S2P-INT	S2P-INT	S2P-INT
Influx Q	(l/s)	1,5	3	6	10	15	20
Diameter DN	(mm)	1000	1400	1750	1750	1750	1750
Pipe connection D1	(mm)	110	110	125	160	200	200
Length L	(mm)	1250	1640	1800	2700	3600	4500
Inflow height H1	(mm)	1080	1280	1575	1540	1540	1540
Outflow height H2	(mm)	1055	1235	1550	1515	1515	1515
Height H3	(mm)	1750-2000	1600	2000	2000	2000	2000
Volume	(l)	1000	2000	3500	5500	7500	10000
Max. surface area	(m <sup>2</sup> )	70	200	400	670	1000	1400

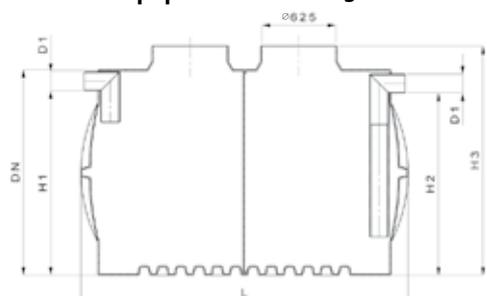
NOTE:

- Max. surface area calculated for a rainfall intensity of 150l/(s ha) with a dwell time of T max. = 3min
- \*horizontal version

Aquaplast S2P-INT 1,5



/ Aquaplast S2P-INT from 3 to 20



## 1.2. With a separate settler and separator

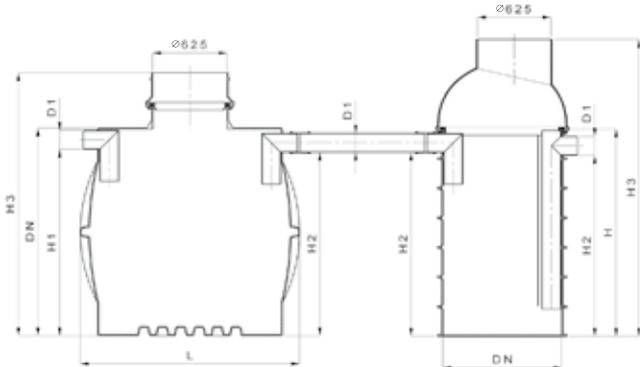
Aquaplast NS\_S 2P - SETTLER

Aquaplast NS\_S 2P - SEPARATOR

Aquaplast		1,5	3	6	10*	15*	20*		1,5	3	6	10	15	20*
		S2P-SED	S2P-SED	S2P-SED	S2P-SED	S2P-SED	S2P-SED		S2P-SEP	S2P-SEP	S2P-SEP	S2P-SEP	S2P-SEP	S2P-SEP
Influx Q	(l/s)	1,5	3	6	10	15	20		1,5	3	6	10	15	20
Diameter DN	(mm)	800	1000	1400	1750	1750	1750		625	800	800	1000	1400	1750
Pipe connection D1	(mm)	110	110	125	160	200	200		110	110	125	160	200	200
Length L	(mm)	1000	1250	1640	1800	2700	3600		1000	1250	1500	1750	1640	1800
Inflow height H1	(mm)	855	1050	1265	1540	1540	1540		830	1025	1100	1515	1175	1515
Outflow height H2	(mm)	830	1025	1240	1515	1515	1515		805	1000	1075	1490	1150	1490
Height H3	(mm)	1250-1500	1750	1600	2250	2250	2000		1250-1500	1750	1500-1750	2250	1600	2000
Volume	(l)	500	1000	2000	3500	5500	7500		300	650	750	1400	2000	3500
Max. surface area	(m <sup>2</sup> )	70	200	400	670	1000	1400		70	200	400	670	1000	1400

**NOTE:**

- Max. surface area calculated for a rainfall intensity of 150l/(s ha) with a dwell time of T max. = 3min
- \*horizontal version



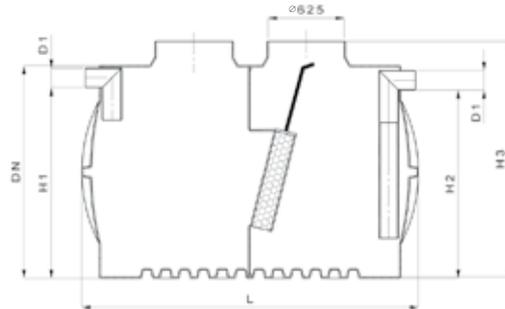
## 2. Aquaplast coalescing separators without a bypass

They function in a similar manner to the gravity separators, but are distinguished by two settling units, between which there is a coalescing filter **which filters small hydrocarbon molecules**, which cannot be removed using gravity, as due to their small size, they do not remain at the surface regardless of their buoyancy. In the coalescing unit, hydrocarbon molecules adhere to the coalescing material, bind into a thin layer and, upon reaching an adequate size, rise, with the help of buoyancy, to the surface of the wastewater.

### 2.1. With an integrated settler and separator

Aquaplast NS\_S1P-INTEGRATED

Aquaplast		3	6*	10*	15*	20*
		S1P-INT	S1P-INT	S1P-INT	S1P-INT	S1P-INT
Influx Q	(l/s)	3	6	10	15	20
Diameter DN	(mm)	1400	1750	1750	1750	1750
Pipe connection D1	(mm)	110	125	160	200	200
Length L	(mm)	1640	1800	2700	3600	4500
Inflow height H1	(mm)	1275	1575	1540	1540	1540
Outflow height H2	(mm)	1235	1550	1515	1515	1515
Height H3	(mm)	1600	2000	2000	2000	2000
Volume	(l)	2000	3500	5500	7500	10000
Max. surface area	(m <sup>2</sup> )	200	400	670	1000	1400



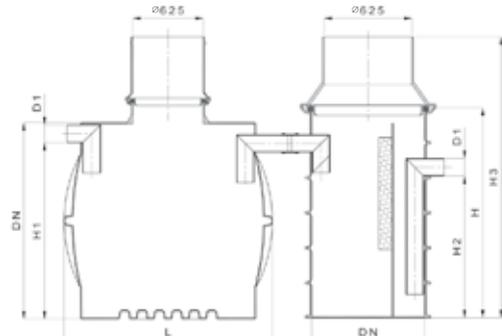
NOTE:  
 • Max. surface area calculated for a rainfall intensity of 150l/(s ha) with a dwell time of T max. = 3min  
 • \* horizontal version  
 • \*\* optional version with an automatic closure

### 2.2. With a separate settler and separator

Aquaplast NS\_S1P-SETTLER

Aquaplast NS\_S1P-SEPARATOR

Aquaplast		Aquaplast NS_S1P-SETTLER					Aquaplast NS_S1P-SEPARATOR				
		3	6	10*	15*	20*	3	6	10	15	20*
		S1P-SED	S1P-SED	S1P-SED	S1P-SED	S1P-SED	S1P-SEP	S1P-SEP	S1P-SEP	S1P-SEP	S1P-SEP
Q	(l/s)	3	6	10	15	20	3	6	10	15	20
DN	(mm)	1000	1400	1750	1750	1750	800	800	1000	1400	1750
D1	(mm)	110	125	160	200	200	110	125	160	200	200
L	(mm)	1250	1640	1800	2700	3600	1250	1500	1750	1640	1800
H1	(mm)	1050	1265	1540	1540	1540	1025	1100	1515	1175	1515
H2	(mm)	1025	1240	1515	1515	1515	1000	1075	1490	1150	1490
H3	(mm)	1750	1600	2250	2000	2000	1750	1750-2000	2250	1600	2000
Volume	(l)	1000	2000	3500	5500	7500	600	750	1400	2000	3500
Max. surface area	(m <sup>2</sup> )	200	400	670	1000	1400	200	400	670	1000	1400



Both versions of the coalescence oil separator can be fitted with an automatic closure device.

NOTE:  
 • Max. surface area calculated for a rainfall intensity of 150l/(s ha) with a dwell time of T max. = 3min  
 • \* horizontal version  
 • \*\* optional version with an automatic closure

### 3. Aquaplast coalescence separator with a bypass

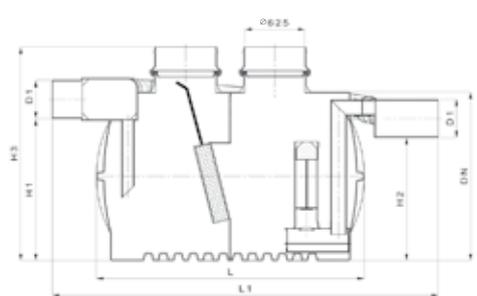
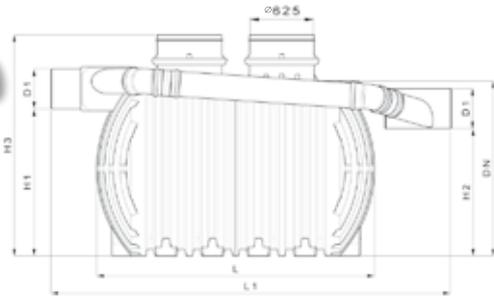
Bypass separators are used to purify wastewater on large road surfaces with dense moving or static traffic. It is especially appropriate where light liquids, or fuel residues, accumulate on the surface due to the traffic (public roads, motorways, car parks and multi-storey car parks). During heavy rainfalls, light liquids begin to accumulate and flow into the separator, where the oils are separated, and the surplus of purified meteoric water flows out through the bypass, which prevents surface flooding.

Aquaplast NS\_S1P-BP

Aquaplast		30/3* S1P-BP	50/5* S1P-BP	80/8* S1P-BP	100/10* S1P-BP	150/15* S1P-BP	200/20* S1P-BP
Influx Q	(l/s)	30	50	80	100	150	200
Diameter DN	(mm)	1750	1750	1750	1750	1750	1750
Pipe connection D1	(mm)	250	300	300	400	400	400
Length L / L1	(mm)	1800/2700	1800/2700	2700/3800	2700/3800	3600/4700	4500/5600
Inflow height H1	(mm)	1470	1470	1470	1470	1470	1470
Outflow height H2	(mm)	1270	1240	1240	1200	1200	1200
Height H3	(mm)	2250	2250	2250	2500	2500	2500
Volume	(l)	3500	3500	5500	5500	7500	10000
Max. surface area	(m <sup>2</sup> )	1500	2500	4000	5000	7500	10000



optional version with an automatic closure device

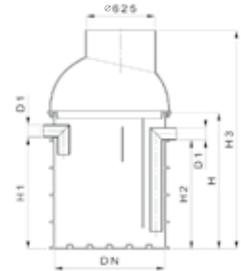


## 4. Aquaplast grease separator

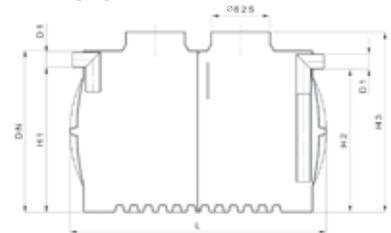
It is especially suitable for **restaurants**, which are subject to the statutory separation of greases and oils of organic origin before wastewater is drained into the sewer, before it reaches a cesspit or treatment plant. The separator functions by retaining organic matter from the wastewater before it is drained into the sewerage system.

Aquaplast	1	2	3	4	6	10*	15*	20*	25*
	S2P-Gr	S2P-Gr	S2P-Gr	S2P-Gr	S2P-Gr	S2P-Gr	S2P-Gr	S2P-Gr	S2P-Gr
Influx Q (l/s)	1	2	3	4	6	10	15	20	25
Diameter DN (mm)	800	1000	1000	1400	1400	1750	1750	1750	1750
Pipe connection D1 (mm)	110	110	110	110	125	160	200	200	200
Height H / length L (mm)	1000	750	1250	1640	1940	1800	2700	3600	4500
Inflow height H1 (mm)	830	690	1080	1260	1250	1575	1540	1540	1540
Outflow height H2 (mm)	805	665	1055	1210	1200	1550	1515	1515	1515
Height H3 (mm)	1250-1500	1250-1500	1750-2000	1600	1600	2000	2000	2000	2000
Volume (l)	450	600	1000	1800	2500	3500	5500	7500	10000

Aquaplast S2P from 1 to 6



Aquaplast S2P-INT from 10 to 25



**WHEN INSTALLING Aquaplast oil and grease separators**, please strictly follow the instructions of the manufacturer:

- The separators must be accessible for maintenance and must have a planned method for the removal of separated light liquids.
- If the separators are installed in a sewerage connection and the user maintains them and performs the removal of separated matter, it must be ensured that it is accessible to the system manager.
- The efficiency of the oil and grease separators can be additionally increased through the prior installation of silt and sand separators, which remove mechanical elements from the wastewater.
- Optional additional order of a manhole cover.
- Regular removal of light liquids which accumulate inside the separator is vital for the long-term proper operation of the device.

YOUR RETAILER:

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ROTOMOULDING

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