

Freestanding

Oleopator P Freestanding / Oleolift P Freestanding



Light oil separation

ACO Freestanding Oleopators P and Oleolifts P with a coalescence units are designed to remove petroleum substances (mineral oils, gasoline, light lubricants, etc.) contained in rainwater and technological wastewater. A sludge trap which is integrated into the tank also removes suspended solids. Pumps and additional accessories can be used with Oleolift units in applications where there is no gravity outlet.

Oleolift P Freestanding

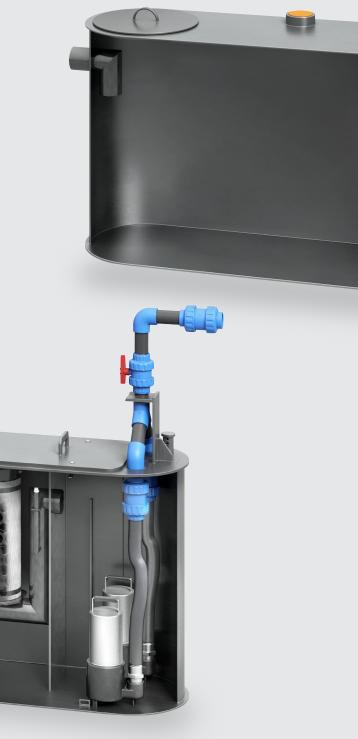
Durable submersible pumps with metal impeller for high operational reliability and long product life

See more on page 14

Oleopator P Freestanding

ACO Freestanding Oleopator

See more on page 08





Content

Functional principle of light oil separation	04
The application scope	04
- unction	0.5
The principle of self-activating sealing	0.5
Suitable for applications with a gravity discharge	07
Suitable applications	07
Accessibility	07
Oleopator P Freestanding	08
Suitable for applications where discharged	
water must be pumped	13
Suitable applications	13
Why backflow protection?	13
Oleolift P Freestanding	14
Accessories	20



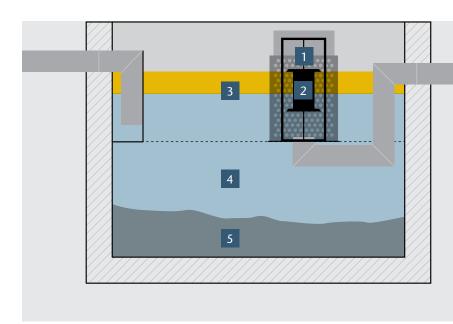
The right component

Newly available design of garage separators with integrated pumps. All-in-one solution.

NOTE: All pictures shown are for illustration purpose only!

of light oil separation

Wastewater containing light oils reaches the separation chamber (4) via the inlet. Sediments (e.g. sand) fall to the floor of the tank and collect in the sludge trap (5). Lighter liquids (e.g. oil or petrol), on the other hand, rise to the surface and separate out into the light oil layer (3). When using gravity based separation, Class 1 separators that use a coalescence element (1) on the liquid leaving the separator can achieve a residual oil content of 5 miligrams per litre.



The application scope

Suitable applications include gas stations, parking areas, parking lots, roadways, washing areas, car wash facilities, brush/portal washing systems, engine cleaning, workshops, vehicle recovery, scrap yards, transfer stations, tank pits, transformer stations

Function



Small oil droplets that are not separated because they have a different density to water bond with the oil-friendly coalescence element.



Oil droplets spread over the coalescence material, and additional oil droplets are adsorbed and the oil film continues to grow.

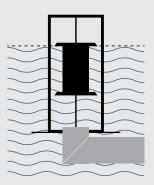


The adhesion of the oil film is exceeded. A large drop of oil begins to separate, floats upward and can therefore be separated.

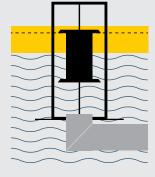
The principle of self-activating sealing

The substances which are held in the light oil layer (3) must not reach the sewer system. This means that the separator installation must have a self-activating sealing mechanism, which automatically closes separator outlets once the maximum storage quantity of light oils has been reached. This is done using a float (2) with a specific density,

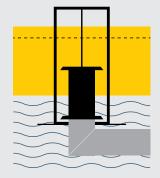
which drops lower and lower as the layer of light oils increases in size. Once the float closes off the inlet, no more wastewater can be discharged via the light oil separator. Only when the contents of the separator have been disposed of by an approved recycling company and it has been refilled with water, can the wastewater intake be started.



Operating condition without Light Liquid



Operating condition with accumulating Light Liquid



Maximum Light Liquid accumulation closes outlet via float switch





For applications with a gravity discharge

Suitable applications

Due to its design, the ACO Freestanding Oleopator is an ideal solution for garages in shopping centers or residential houses where it can be installed in a suitable place (e.g. service room or in an underground shaft).

Accessibility

According to EN 858-1 Point 6.3.3, every light oil separator must be accessible. Accessibility is defined as a person being able to enter, see and reach all walls and components. The case insert system in the ACO Oleopator Freestanding unit ensures optimum accessibility: the unit's float is removed to enable the removal of the inserted float cage. This creates sufficient space for someone to access the separator.

Oleopator P Freestanding

Product benefits

- All nominal sizes tested by independent test institute (LGA) – test report
- Optimum accessibility guaranteed for maintenance, cleaning and disposal thanks to removable cage component
- Separator with float switch of plastic, tared for light liquids with density until 0.90 g/cm³
- Coalescence unit and float can be removed for cleaning without having to empty the separator

- Easy to clean coalescence unit durable wire mesh material
- With plastic cover and clamping ring
- (cover version 2)
- With ventilation connection DN 100
- Ready for additional installation of cable bushings (e.g. alarm units, etc.)
- Alarm device optional accessories

Version 1 – LC

Version 2 – HC





Product Information

- Light oil separator according to DIN EN 858, Class I
- For freestanding installation in frost free rooms
- Manufactured of welded polyethylene in round or oval design
- With supporting cage and coalescence unit
- Inner parts made of PEHD
- Inlet and outlet with for respective pipe connection
- Ready for additional alarm set installation

Segment tank version

■ Easy to transport and fit thanks to delivery of individual parts (for example through the standard door)





Cover solution



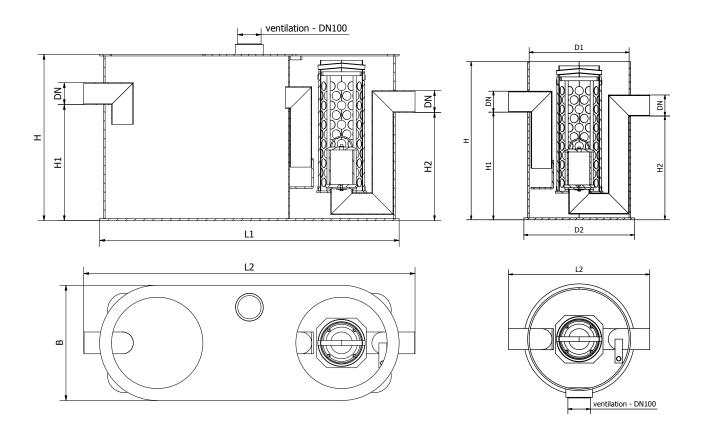
Cover – Version 1Basic plastic cover with handle



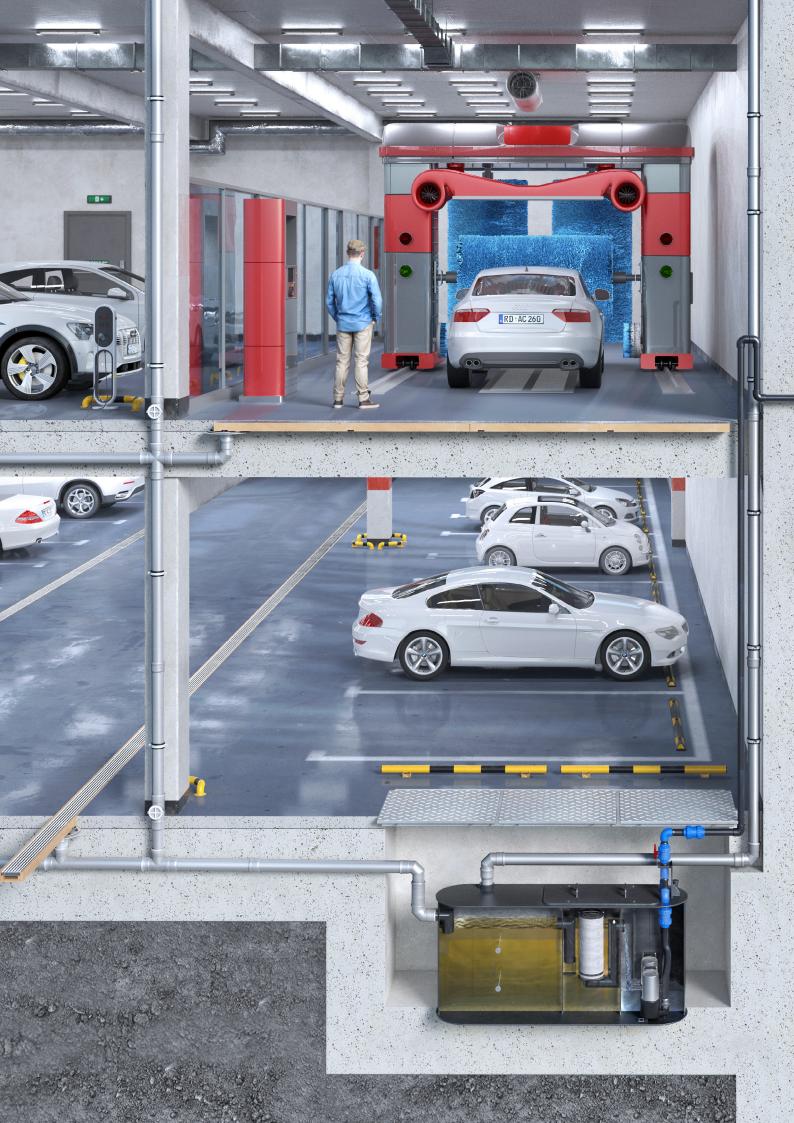
Cover – Version 2Durable plastic cover with handle, sealing and metal clamping ring or another type of odor proof cover solution.

Oleopator P Freestanding

	Cove	r type					Max. thickness		
Product	Version 1 Article No.	Version 2 Article No.	Shape	DN inlet/ outlet	Sludge trap	Oil storage	of oil layer	Total capacity	Weight
				(mm)	(l)	(l)	(mm)	(l)	(kg)
NS 3/0	418600.LC	418600.HC	round	DN100	0	60	311	115	27
NS 3/300	418601.LC	418601.HC	oval	DN100	300	60	311	385	70
NS 3/600	418602.LC	418602.HC	oval	DN100	600	60	311	750	110
NS 6/0	418603.LC	418603.HC	round	DN160	0	186	253	560	75
NS 6/600	418604.LC	418604.HC	oval	DN160	600	129	401	1140	155
NS 6/1200	418605.LC	418605.HC	oval	DN160	1200	208	401	1990	210
NS 10/0	418606.LC	418606.HC	round	DN160	0	186	253	560	75
NS 10/1000	418607.LC	418607.HC	round	DN160	1000	273	253	1590	137
NS 10/2500		418897.HC	segment	DN150	2500	595	253	3620	430
NS 15/0	418608.LC	-	round	DN200	0	464	277	1340	177
NS 15/1500	418609.LC		round	DN200	1500	464	277	2400	220
NS 15/3000		418898.HC	segment	DN200	3000	640	277	4017	440
NS 20/0	418610.LC	•	round	DN200	0	594	359	1540	195
NS 20/2000	418611.LC		round	DN200	2000	891	359	3410	325
NS 30/0	418612.LC		round	DN250	0	654	422	1500	225
NS 30/3000	418613.LC		round	DN250	3000	1513	422	6080	530



Product	Н	H1	H2	D1	D2	L1	L2	В
	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)
NS 3/0	830	569	549	525	581	-	741	=
NS 3/300	838	588	548	-	-	1510	1670	581
NS 3/600	1068	818	778	-	-	2015	2175	581
NS 6/0	1100	742	722	1000	1080	-	1220	_
NS 6/600	1322	987	947	-	-	1910	2045	770
NS 6/1200	1392	1087	1047	-	-	2340	2475	870
NS 10/0	1100	742	722	1000	1080	-	1220	-
NS 10/1000	1715	1350	1330	1200	1280	-	1420	-
NS 10/2500	1880	1525	1505	1750	1913	-	1974	-
NS 15/0	1120	786	766	1500	1580	_	1720	_
NS 15/1500	1720	1386	1366	1500	1580	-	1724	-
NS 15/3000	2045	1690	1670	1750	1913	-	1999	-
NS 20/0	1330	896	876	1500	1580	_	1724	_
NS 20/2000	1780	1366	1346	1800	1880	-	2030	-
NS 30/0	1360	878	858	1500	1580	-	1720	-
NS 30/3000	2100	1628	1608	2200	2280	-	2430	-





For applications where discharged water must be pumped

Suitable applications

- When gravity discharge is not possible and water must be pumped to a different geodetical height.
- When backflow protection is needed.
- Suitable for multi-level garages (especially when carwash water disposal is required).

Why backflow protection?

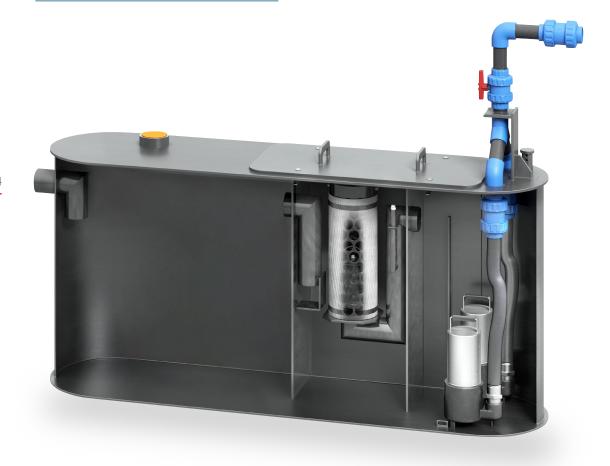
- Danger to the environment caused by escaping light liquids!
- Existing explicit requirements in DIN 1999-100 to protect against leakage!
- Prevent the economic consequences of leakage! (Excavated earth, special disposal of soil, operational failure)

Oleolift P Freestanding

Product benefits

- Durable submersible pumps with metal impeller for high operational reliability and long product lifetime
- All nominal sizes tested by independent test institute (LGA) – test report
- Optimum accessibility guaranteed for maintenance, cleaning and disposal thanks to removable cage component
- Separator with float switch of plastic, tared for light liquids with density until 0.90 g/cm³
- Coalescence unit and float can be removed for cleaning without having to empty the separator

- Easy to clean coalescence unitdurable wire mesh material
- With one or two practical plastic covers with lockers for all sections
- With ventilation connection DN 100
- Ready for additional installation of cable bushings (e.g. alarm units, etc.)
- Alarm device optional accessories
- Durable submersible pumps with metal impeller secures high operational reliability and long lifetime

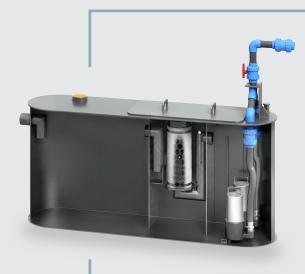


Product Information

- Light oil separator according to DIN EN 858,
- For freestanding installation in frost free rooms
- Manufactured of welded polyethylene in round or oval design
- With supporting cage and coalescence unit
- Inner parts made of PEHD
- Inlet for respective pipe connection
- Outlet for clamping coupling
- Available in Mono or Duo pumps installations

Possible product configurations:

- Product is available in sizes NS 3, NS 6 and
- Three possible pumping heads available (max. 5m, 10m, 20m) according to the installation requirements
- Separator is equipped with mono or duo pumps installation.



Duo pump installation:

- High operational reliability due to the inclusion of a redundant pump, which secures operation in case of failure of one pump.
- Equipped with a control unit, possible to run both pumps together. Control units can be mounted on both sides of the Oleolift or separately on a nearby wall.

Control unit secures:

- Alternation of pumps (prolonged lifetime)
- Possible synchronization function of both pumps
- Alarm signals output



Mono pump installation:

- Economic and simple design, controlled by one integrated float switch, without the control unit.
- Needs more regular maintenance checks due to only one pump being in operation (no redundancy).

IMPORTANT! Due to the absence of a redundant pump, this solution is a non-standard solution. A duo pump installation is recommended.

Pump solution



Duo pump High operational

reliability; equipped with a control unit



ACO Multicontrol Duo

Control unit for two-pump solution



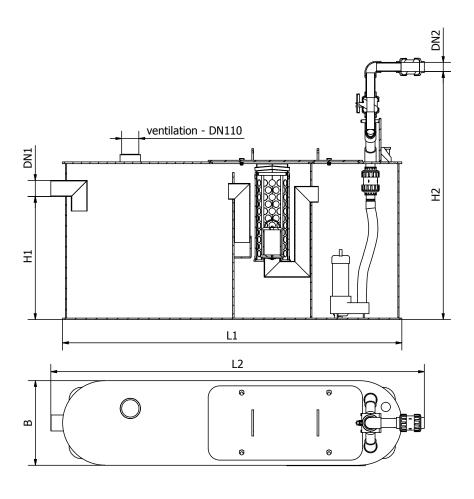
Mono pump

Economic and simple design controlled by one float switch, without control unit

Oleolift P Freestanding Duo Pumps

Product	Pumping head **	Article No.	Shape	Sludge trap	Oil storage	Max. thickness of oil layer	Total capacity	Weight
	(m)			(l)	(l)	(mm)	(l)	(kg)
NS 3/300 Duo Pumps	1-5	418601.P206	oval	300	60	311	385	122
NS 3/300 Duo Pumps	5-10	418601.P211	oval	300	60	311	385	126
NS 3/300 Duo Pumps	10-20	418601.P220	oval	300	60	311	385	145
NS 3/600 Duo Pumps	1-5	418602.P206	oval	600	60	311	695	156
NS 3/600 Duo Pumps	5-10	418602.P211	oval	600	60	311	695	160
NS 3/600 Duo Pumps	10-20	418602.P220	oval	600	60	311	695	180
NS 6/600 Duo Pumps	1-5	418604.P206	oval	600	129	401	977	280
NS 6/600 Duo Pumps	5-10	418604.P211	oval	600	129	401	977	296
NS 6/600 Duo Pumps	10-20	418604.P220	oval	600	129	401	977	306
NS 6/1200 Duo Pumps	1-5	418605.P206	oval	1200	208	401	1600	310
NS 6/1200 Duo Pumps	5-10	418605.P211	oval	1200	208	401	1600	326
NS 6/1200 Duo Pumps	10-20	418605.P220	oval	1200	208	401	1600	336
NS 10/1000 Duo Pumps	1-5	418607.P206	oval	1000	273	253	1490	326
NS 10/1000 Duo Pumps	5-10	418607.P211	oval	1000	273	253	1490	326
NS 10/1000 Duo Pumps	10-20	418607.P220	oval	1000	273	253	1490	336

^{**}Pumping head including all pressure loses in pressure line connected to the outlet of Oleolift. Pressure losses need to be considered and calculated carefully!



Decided.	4		DN1	DN2			ъ	ъ.	-	
Product	H1	H2	inlet	outlet	L1	L2	В	Pn	I	U
	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(kW)	(A)	(V)
NS 3/300 Duo Pumps	845	1378	DN100	50	1613	1843	580	0,8	5,6	230
NS 3/300 Duo Pumps	845	1378	DN100	50	1613	1843	580	2,2	12,8/4,8	230/400*
NS 3/300 Duo Pumps	845	1378	DN100	50	1613	1843	580	3	7	400
NS 3/600 Duo Pumps	845	1382	DN100	50	2331	2561	580	0,8	5,6	230
NS 3/600 Duo Pumps	845	1382	DN100	50	2331	2561	580	2,2	12,8/4,8	230/400*
NS 3/600 Duo Pumps	845	1382	DN100	50	2331	2561	580	3	7	400
NS 6/600 Duo Pumps	980	1620	DN160	50	2455	2686	770	3	7	400
NS 6/600 Duo Pumps	980	1620	DN160	50	2455	2686	770	3	7	400
NS 6/600 Duo Pumps	980	1620	DN160	50	2455	2686	770	4,4	7	400
NS 6/1200 Duo Pumps	1082	1694	DN160	50	2720	2951	870	3	7	400
NS 6/1200 Duo Pumps	1082	1694	DN160	50	2720	2951	870	3	7	400
NS 6/1200 Duo Pumps	1082	1694	DN160	50	2720	2951	870	4,4	7	400
NS 10/1000 Duo Pumps	992	1689	DN160	80	2610	2832	1080	3	10	400
NS 10/1000 Duo Pumps	992	1689	DN160	80	2610	2832	1080	4,4	10	400
NS 10/1000 Duo Pumps	992	1689	DN160	80	2610	2832	1080	7,4	15,8	400

^{*400}V on demand

Oleolift P Freestanding Mono Pump

Ν	EW

Product	Pumping head **	Article No.	Shape	Sludge trap	Oil storage	Max. thickness of oil layer	Total capacity	Weight
	(m)	•		(l)	(l)	(mm)	(l)	(kg)
NS 1,5/150 Mono Pump	1-5	418599.P106	oval	150	104	311	305	70
NS 1,5/150 Mono Pump	5-10	418599.P111	oval	150	104	311	305	73
NS 3/300 Mono Pump	1-5	418601.P106	oval	300	60	311	385	101
NS 3/300 Mono Pump	5-10	418601.P111	oval	300	60	311	385	103
NS 3/300 Mono Pump	10-20	418601.P120	oval	300	60	311	385	112
NS 3/600 Mono Pump	1-5	418602.P106	oval	600	60	311	695	136
NS 3/600 Mono Pump	5-10	418602.P111	oval	600	60	311	695	138
NS 3/600 Mono Pump	10-20	418602.P120	oval	600	60	311	695	148
NS 6/600 Mono Pump	1-5	418604.P106	oval	600	129	401	977	258
NS 6/600 Mono Pump	5-10	418604.P111	oval	600	129	401	977	266
NS 6/600 Mono Pump	10-20	418604.P120	oval	600	129	401	977	271
NS 6/1200 Mono Pump	1-5	418605.P106	oval	1200	208	401	1600	288
NS 6/1200 Mono Pump	5-10	418605.P111	oval	1200	208	401	1600	296
NS 6/1200 Mono Pump	10-20	418605.P120	oval	1200	208	401	1600	301
NS 10/1000 Mono Pump	1-5	418607.P106	oval	1000	273	253	1490	291
NS 10/1000 Mono Pump	5-10	418607.P111	oval	1000	273	253	1490	291

^{**}Pumping head including all pressure loses in pressure line connected to the outlet of Oleolift.

Pressure losses need to be considered and calculated carefully!

NEW

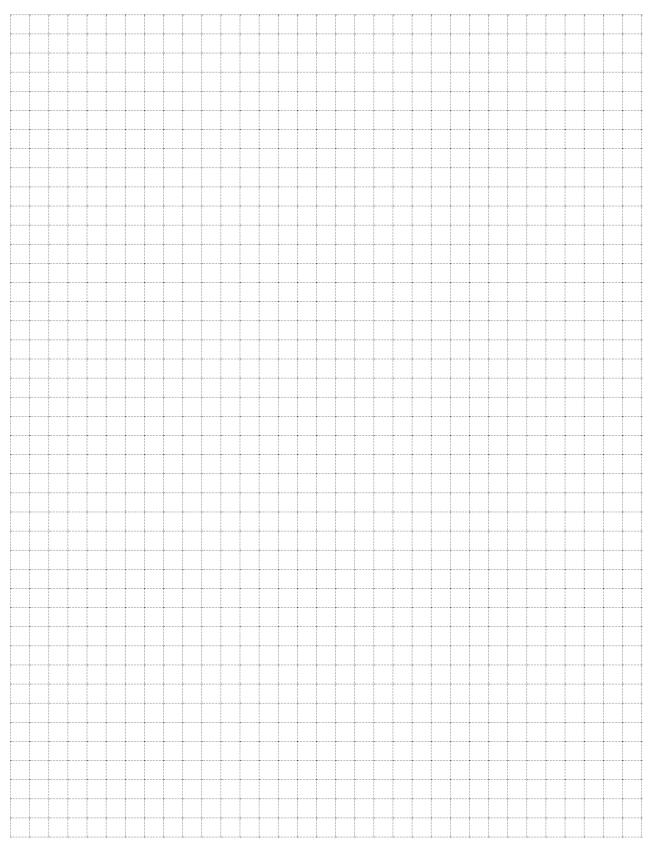
Product	H1	Н2	DN1 inlet	DN2 outlet	L1	L2	В	Pn		U
	(mm)	(mm)	(mm)	(mm)	(mm)	 (mm)	(mm)	(kW)	(A)	(V)
NS 1,5/150 Mono Pump	580	1150	DN100	50	1320	1694	730	0,45	1,3	230
NS 1,5/150 Mono Pump	580	1150	DN100	50	1320	1694	730	1,1	2,8	230
NS 3/300 Mono Pump	845	1378	DN100	50	1613	1843	580	0,4	2,8	230
NS 3/300 Mono Pump	845	1378	DN100	50	1613	1843	580	1,1	6,4	230
NS 3/300 Mono Pump	845	1378	DN100	50	1613	1843	580	1,5	3,5	400
NS 3/600 Mono Pump	845	1382	DN100	50	2331	2561	580	0,4	2,8	230
NS 3/600 Mono Pump	845	1382	DN100	50	2331	2561	580	1,1	6,4	230
NS 3/600 Mono Pump	845	1382	DN100	50	2331	2561	580	1,5	3,5	400
NS 6/600 Mono Pump	980	1620	DN160	50	2455	2686	770	1,5	3,5	400
NS 6/600 Mono Pump	980	1620	DN160	50	2455	2686	770	1,5	3,5	400
NS 6/600 Mono Pump	980	1620	DN160	50	2455	2686	770	2,2	3,5	400
NS 6/1200 Mono Pump	1082	1694	DN160	50	2720	2951	870	1,5	3,5	400
NS 6/1200 Mono Pump	1082	1694	DN160	50	2720	2951	870	1,5	3,5	400
NS 6/1200 Mono Pump	1082	1694	DN160	50	2720	2951	870	2,2	3,5	400
NS 10/1000 Mono Pump	992	1689	DN160	80	2610	2832	1080	1,5	5	400
NS 10/1000 Mono Pump	992	1689	DN160	80	2610	2832	1080	2,2	5	400

Accessories

Accessories				
	Product	Product Description	Model	Article No.
			Alarm device for oil and water accumulation	418871
		■ For light oil separators P series, enables combined or separated con- trol of oil, sludge and liquid level of electrical connection:	Alarm device only for oil accumulation	418869
id0il-20	Alarm device	□ 230 V/50 – 60 Hz □ IP 67	Alarm device only for water accumulation	418870
	Alaim device	□ Cable connection: 5 m	Alarm device for oil, water and sludge accumulation	418872
		■ Installation kit	Mandatory equipment for all alarm devices	418984
			* GSM or WiFi solution	On demand
	Sampling equipment	■ For grease separators/light liquid separators for below ground installation. Sampling equipment consisting of manual pump and suction coupling, connection coupling, connecting hose and suction coupling and bolt connection □ Suitable for inlet invert maximum T = 3,000 mm	All variantions	701246
	Connection kit for suction pipe DN 65	■ Consisting of: □ PE pipe □ Storz-B coupling and blank cover □ Mounting elements and screws	-	On demand
	Drain valve		-	On demand
	Viewing window		-	On demand

20

Notes



Every ACO product supports the ACO WaterCycle









- ACO Stormwater magement
- ACO Pumping stations
- ACO Oil separators
- ACO Grease separators
- ACO Hydrodynamic separators
- ACO Technical filters
- ACO Sedimentation tanks



