



CRUDE OIL SEPARATOR „KGO“



CRUDE OIL SEPARATOR „KGO“

1. Product

Intended to treat oily rain wastewater. Treated wastewater can be discharged to the recipient. Produced of plastics - PE/PP, reinforced from external side.

Application

- ▶ rain water from parking and compacted areas
- ▶ rain water from workshops, garages and fuel service stations
- ▶ waste water from car wash

2. Principle

Wastewater flows to the sedimentation part to rid of sand and solid impurities, continues to coalescent part to make oil floating and to separation part where oil absorbs at the filter while cleaned water is outflown. Sand and oil shall be liquidated or disposed by a faecal truck. Sorption filter shall be replaced if clogged.

Plastic tank with walls split to sections

- ▶ inflow, sedimentation
- ▶ coalescent with separator and valve for oily water discharge by max level
- ▶ sorption filter
- ▶ tank with an extension or access chimney with covers
- ▶ number of covers corresponds to technical and technology requirements of the treatment process

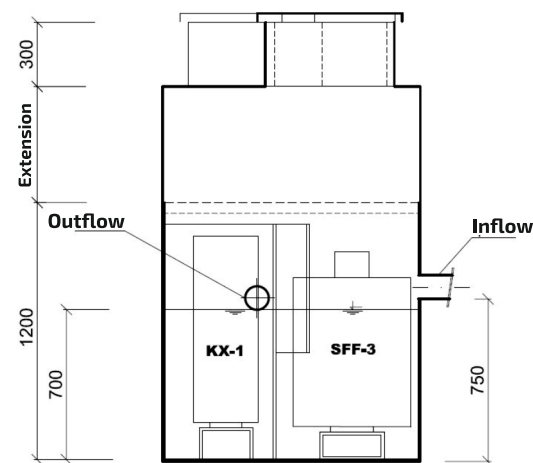
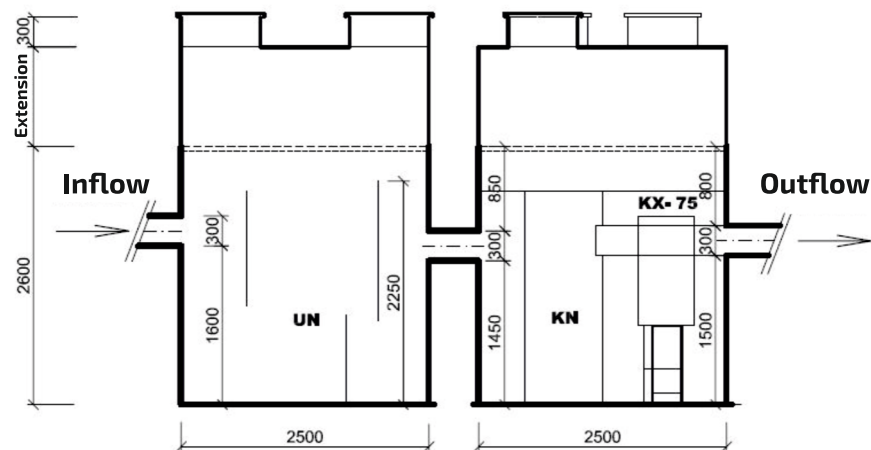
3. Advantages

- ▶ guaranteed waterproofness of the tank
- ▶ flexible in location (roads, built-up area, green area)
- ▶ low weight – easy transportation and installation
- ▶ solid structure of the tank and long service life

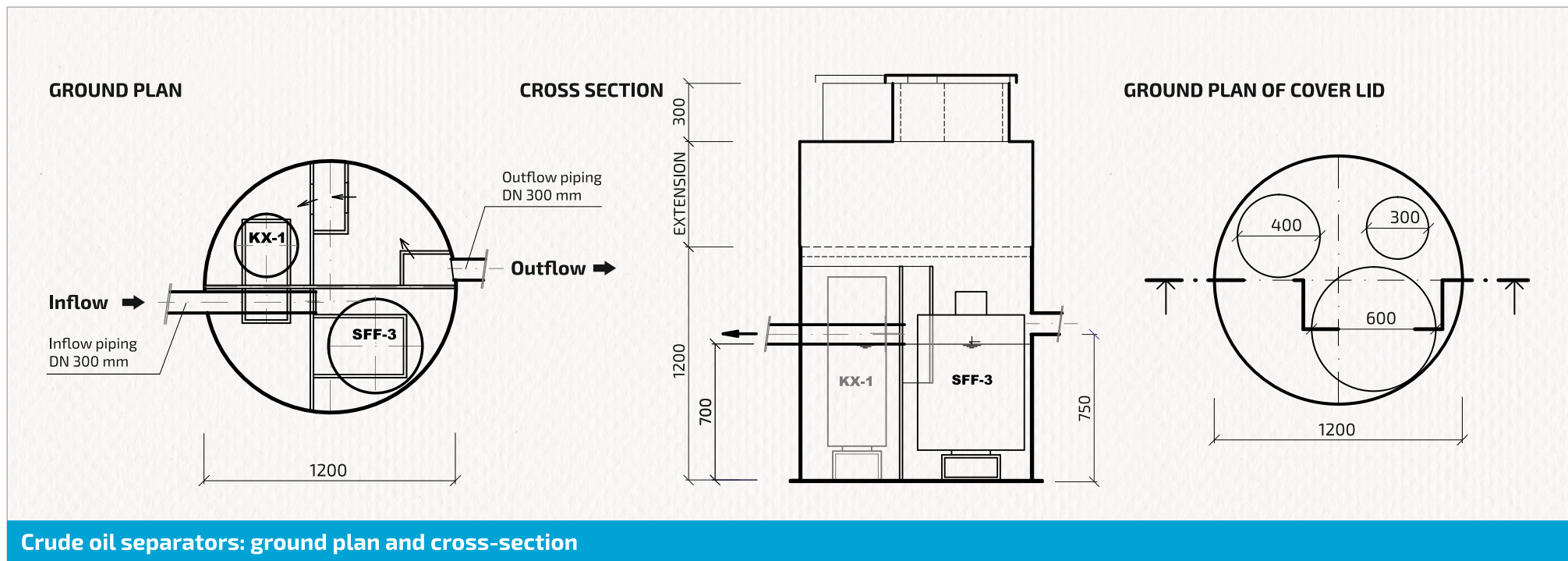
- ▶ high efficiency, check and control of captured oil quantity
- ▶ good access for filter cleaning and replacement
- ▶ easy handling, service, maintenance

4. Type range

KGO TYPE SIZE	1	3	5	10	15	20	30	40	50	75
Coalescent filter	KF-1	KF-3	KF-5	KF-10	KF-15	KF-20	KF-30	KF-40	KF-50	KF-75
Sorption filter	SFF 3	SFF 3	SFF 5	SFF 10	SFF 15	SFF 20	SFF 30	SFF 40	SFF 40	SFF 40
Max. flow (L.s ⁻¹)	1	3	5	10	15	20	30	40	50	75
Tank diameter (m)	1,0	1,2	2,0	2,0	2,2	2,5	2,5	2,0	2,5	2,5
Tank height (m)	1,1	1,2	1,6	1,6	1,6	1,6	2,6	2,6	2,6	2,6
Number of tanks	1	1	1	1	1	1	1	2	2	2
Inflow /DN/ (mm)	90/110	90/110	90/110	140/160	140/160	200/315	200/315	300/315	300/315	300/315



Crude oil separators: views



5. Water quality – outflow

- ▶ concentration of oil substances /non polar extractable substances - NES/ downstream the coalescent filter: **5 mg.l⁻¹**
- ▶ NES concentration after cleaning at sorption filter: **lower than 1 mg.l⁻¹**

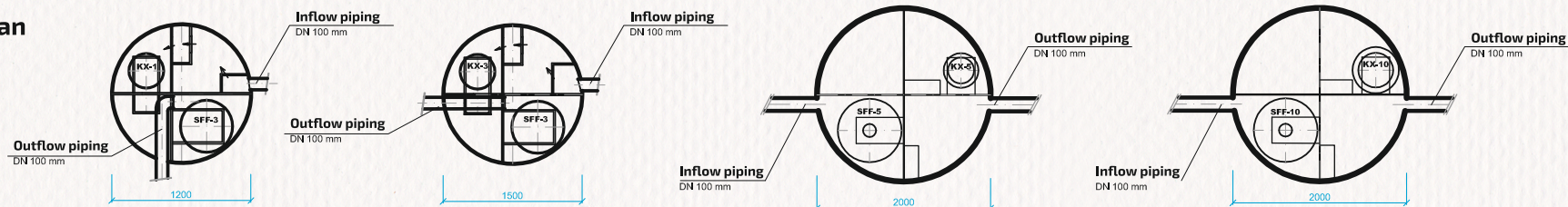
6. Warranty

- ▶ the product complies to STN 75 6551

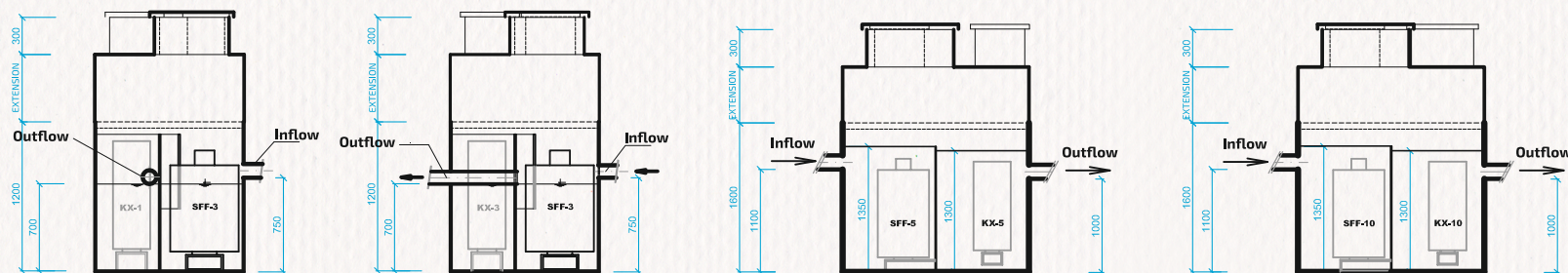
7. Service

- ▶ removal and liquidation of oily substances and sand from the separator
- ▶ replacement of the filler of coalescent and sorption filters after clogging

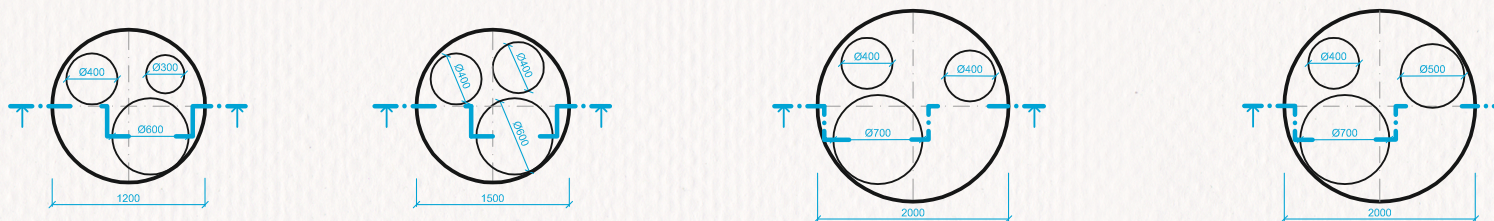
Ground plan



Cross section



Ground plan of cover lid



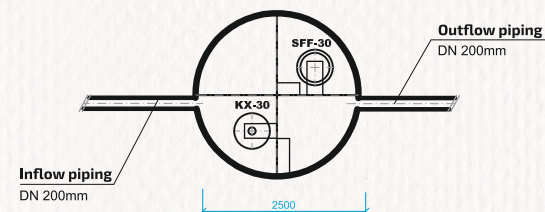
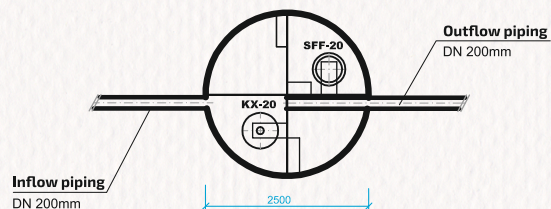
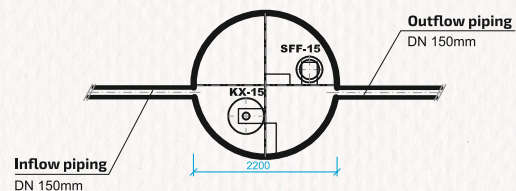
KGO 1
max flow 1 l/s
coalescent filter - KF-1
sorption filter - SFF-3

KGO 3
max flow 3 l/s
coalescent filter - KF-3
sorption filter - SFF-3

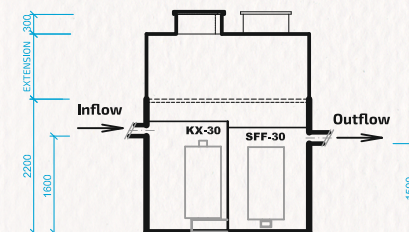
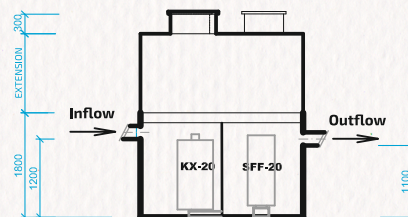
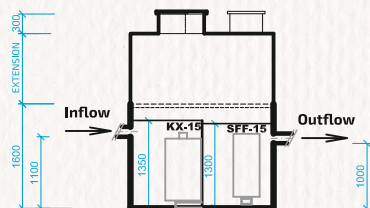
KGO 5
max flow 5 l/s
coalescent filter - KF-5
sorption filter - SFF-5

KGO 10
max flow 10 l/s
coalescent filter - KF-10
sorption filter - SFF-10

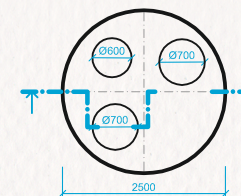
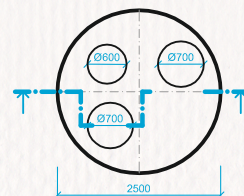
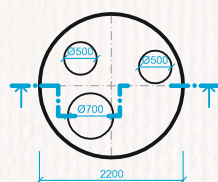
Ground plan



Cross section



Ground plan of cover lid

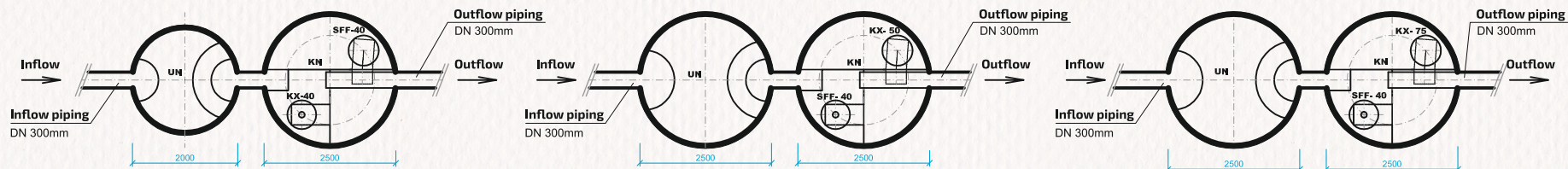


KGO 15
max flow 15 l/s
coalescent filter - KF-15
sorption filter - SFF-15

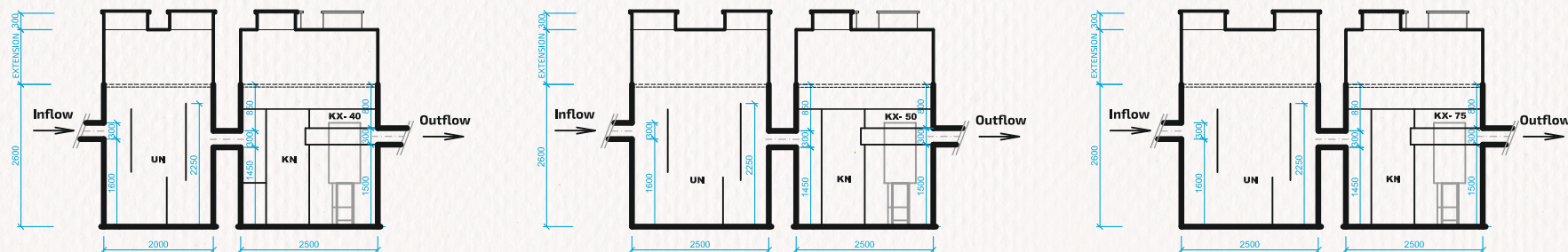
KGO 20
max flow 20 l/s
coalescent filter - KF-20
sorption filter - SFF-20

KGO 30
max flow 30 l/s
coalescent filter - KF-30
sorption filter - SFF-30

Ground plan

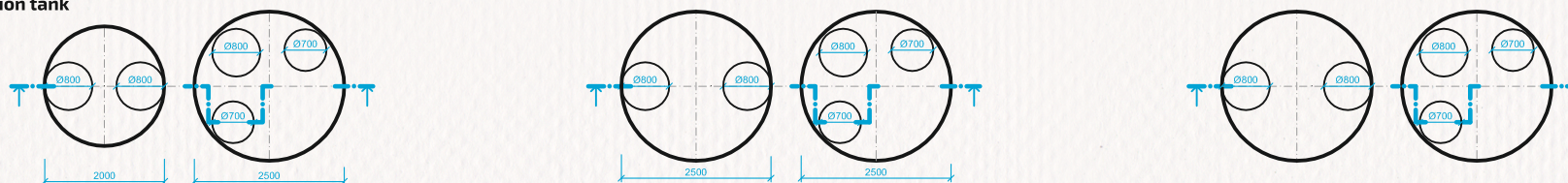


Cross section



UN – Sedimentation tank
KN – Coalescent-sorption tank

Ground plan of cover lid



KGO 40
max flow 40 l/s
coalescent filter - KF-40
sorption filter - SFF-40

KGO 50
max flow 50 l/s
coalescent filter - KF-50
sorption filter - SFF-40

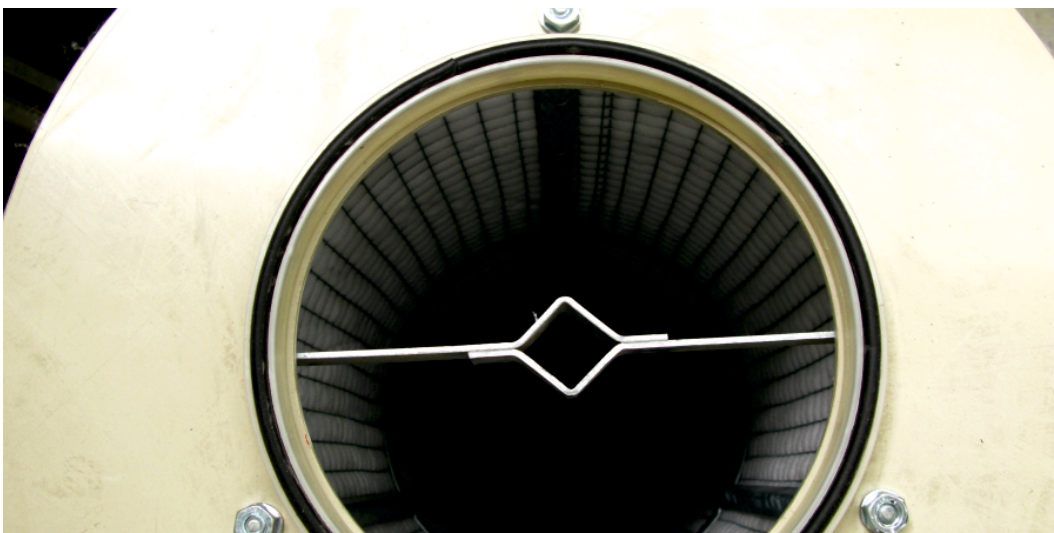
KGO 75
max flow 75 l/s
coalescent filter - KF-75
sorption filter - SFF-40



Coalescent section/sorption area



View at KGO



Sorption filter



Coalescent filter/sorption filter

PURE WATER

FOR THE MANKIND





EKOSERVIS SLOVENSKO, s.r.o.
Stredná 126, 059 91 Veľký Slavkov, SLOVAKIA
Office + 421 52 788 03 11
Sales + 421 905 202 502
Technology service + 421 905 960 431
E-mail: ekoservis@ekoservis.sk
FB: www.facebook.com/cistenievod
www.ekoservis.sk

