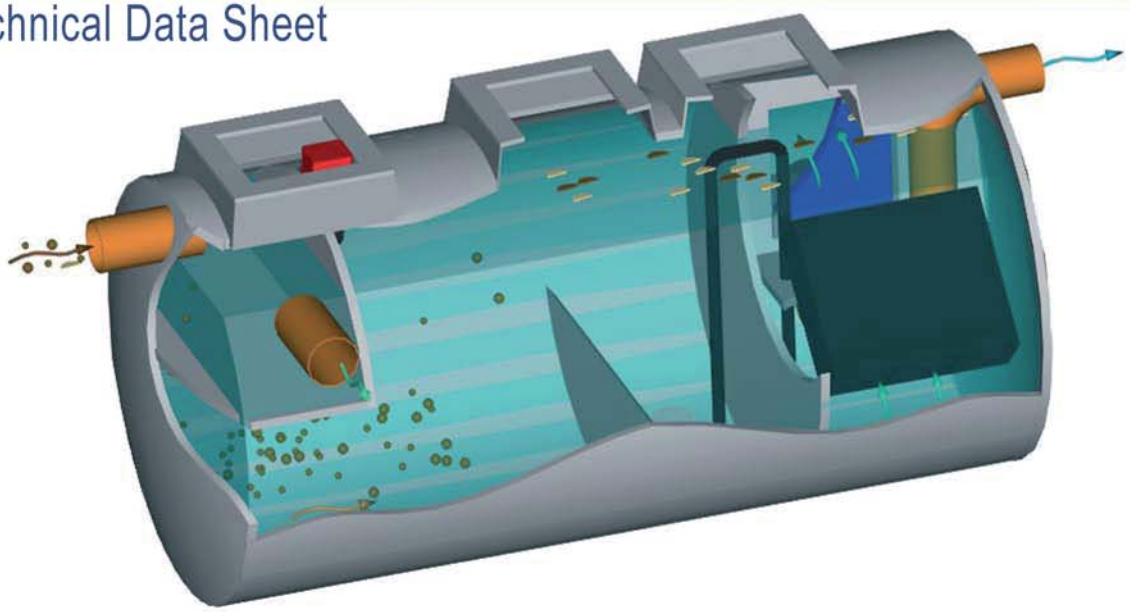
manzi
IMPIANTI DEPURAZIONE ACQUE

SLUDGE, MINERAL OIL AND FUEL SEPARATOR Mod. GNLQ/A/B/C

Technical Data Sheet



Description

SLUDGE, MINERAL OIL AND FUEL SEPARATOR Mod. GNLQ/A/B/C/ is made FRP (Fiberglass Reinforced Polyester). Thanks to this material, the system is lightweight, chemical resistant and possesses particularly high mechanical strength that makes it vehicle-resistant and fit for category 1 roads. The system is designed for treating first rain water, in accordance with Italian Law Decree 152/06 and successive Italian regional laws. Mod. GNLQ/A/B/C is a static system that separates hydrocarbons from the water thanks to their different specific gravity. The system is equipped with a built-in bypass overflow, float shutter or solenoid valve, rain sensor (certain models), storage tank for the first rain water, submersible booster pump to convey the stored and decanted water towards the successive oil-separator sector in the timed mode with delayed start, an electric control and monitoring panel. The oil-separator sector is equipped with a reed valve and coalescing filters.

The versions of the mod. GNL system are outlined in the table below:

		Version			
		GNLQ	GNLQA	GNLQB	GNLQC
Accessories	Rain sensor	•	-	-	•
	IN solenoid valve	-	-	•	•
	IN float shutter	•	•	-	-

Technical Specifications

model	GNLQ/A/B/C		3	5	6	10	15	20	30	40	50	65	80	95	110	120
internal diameter	D	m	1.20	1.60	1.60	1.60	1.60	2.00	2.00	2.00	2.00	2.40	2.40	2.40	2.40	2.40
nominal length	L	m	2.20	2.10	2.30	3.10	4.10	3.60	4.80	6.30	7.30	6.90	8.20	9.40	11.10	12.40
nominal length of settler/accum.zone L1	L1	m	0.80	0.70	0.90	1.70	2.70	2.20	3.40	4.90	5.90	5.50	6.80	8.00	9.70	11.00
oil-separator length	L2	m	1.40	1.40	1.40	1.40	1.40	1.40	1.40	1.40	1.40	1.40	1.40	1.40	1.40	1.40
low bulkhead >oil-separator bulkhead distance	L3	m	0.40	0.40	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50
diameter of IN manifolds		m	125	125	160	160	200	200	250	315	315	315	315	315	400	400
diameter of OUT manifolds		m	125	125	160	160	200	200	200	200	200	200	200	200	200	200
inlet - outlet height	H in bypass	m	1.05	1.45	1.40	1.40	1.40	1.80	1.75	1.65	1.65	2.05	2.05	2.05	2.00	2.00
outlet height	H out	m	1.05	1.45	1.40	1.40	1.40	1.80	1.80	1.80	1.80	2.20	2.20	2.20	2.20	2.20
total net volume		m3	2.35	4.07	4.39	6.02	7.67	10.82	14.11	17.77	20.59	28.77	34.19	39.20	44.73	49.97
first rain accumulation and settling volume		m3	0.86	1.36	1.72	3.34	5.05	6.65	10.04	13.82	16.64	22.94	28.36	33.36	39.09	44.33
settling volume		m3	0.11	0.12	0.16	0.31	0.53	0.63	0.93	1.32	1.62	2.05	2.58	3.08	3.77	4.31
first rain accumulation volume		m3	0.75	1.24	1.56	3.03	4.52	6.02	9.11	12.50	15.02	20.88	25.77	30.29	35.32	40.03
drain pump flow rate		l/sec	1.4	1.9	1.9	1.9	1.9	2.4	2.4	2.4	2.4	2.8	2.8	2.8	2.8	2.8
oil/hydrocarbon density		g/l	950	950	950	950	950	950	950	950	950	950	950	950	950	950
maximum storage height		mm	180	240	240	240	240	240	300	300	300	353	353	353	353	353
light liquid storage capacity		m3	0.24	0.41	0.43	0.43	0.43	0.49	0.66	0.71	0.71	0.98	0.98	0.98	1.01	1.01
treatable area (5 mm/sq m) up to:		m2	150	200	300	600	900	1200	1800	2500	3000	4000	5000	6000	7000	8000