FEKA 2000

SUBMERSIBLE PUMPS

TECHNICAL DATA

Impeller Type: Vortex
Solid Handling: 42mm
Nominal Power: 1.1 ÷ 2.2 kW
Outlet: DN 50
Perfomance Range: from 3 to 36 m3/h with 21 meters head
Fluid: wastewater and sewage from buildings and sites in private, commercial, industrial areas
Fluid PH: 6 ÷ 11
Fluid Temperature Range: from 0° to +40°C. For higher temperature please contact our sale offices.
Max installation Depth: 20mt (with a proper cable length)
Type of installation: fixed by Coupling Unit, portable in vertical position.
Equipped with: Flange UNI 1092 PN6

APPLICATIONS

Submersible electric pump for civil and industrial waste water compatible with the pump materials. Suitable for lifting sewage water, meteoric water, or dirty water in general, containing solid non-filamentous matter with diameter up to 42 mm.

CONSTRUCTION FEATURES OF THE PUMP

Cover, motor casing, pump body and impeller made of cast iron ENGJL 200
Double mechanical seal in oil chamber Carbon Graphite / Alumina.

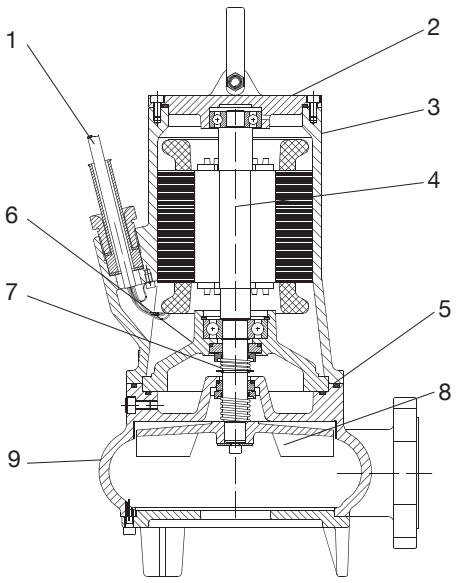
CONSTRUCTION FEATURES OF THE MOTOR

Dry, asynchronous and waterproof motor, cooled by the surrounding liquid.
Continuous S1 duty with completely submerged pump.
Rotor mounted on permanently lubricated ball bearings, oversized to ensure long-term reliability and extended lifetime.
For single-phase versions, the capacitor is fit in an external panel with cable plug Schuko, equipped with manual resettable overcurrent protection and float for automatic versions.
For the three-phase versions thermal protection is required as optional.
Max starts/hour: 20
Insulation class: F
Number of poles: 2
Standard voltage: 1x230V~; 3x400V~. For other models contact our commercial department.
Motor protection class: IP 68

MATERIALS

N.	PARTS*	MATERIALS
1	POWER INPUT CABLE	H07RN-F
2	UPPER COVER	EN GJL 200 CAST IRON
3	MOTOR BODY	EN GJL 200 CAST IRON
4	MOTOR SHAFT	AISI 420
5	OR	NBR
6	BEARING FLANGE	EN GJL 200 CAST IRON
7	MECHANICAL SEAL	MOTOR: CARBON GRAPHITE - ALUMINA
		PUMP: CARBON GRAPHITE - ALUMINA
8	IMPELLER	EN GJL 200 CAST IRON
9	HYDRAULIC BODY	EN GJL 200 CAST IRON

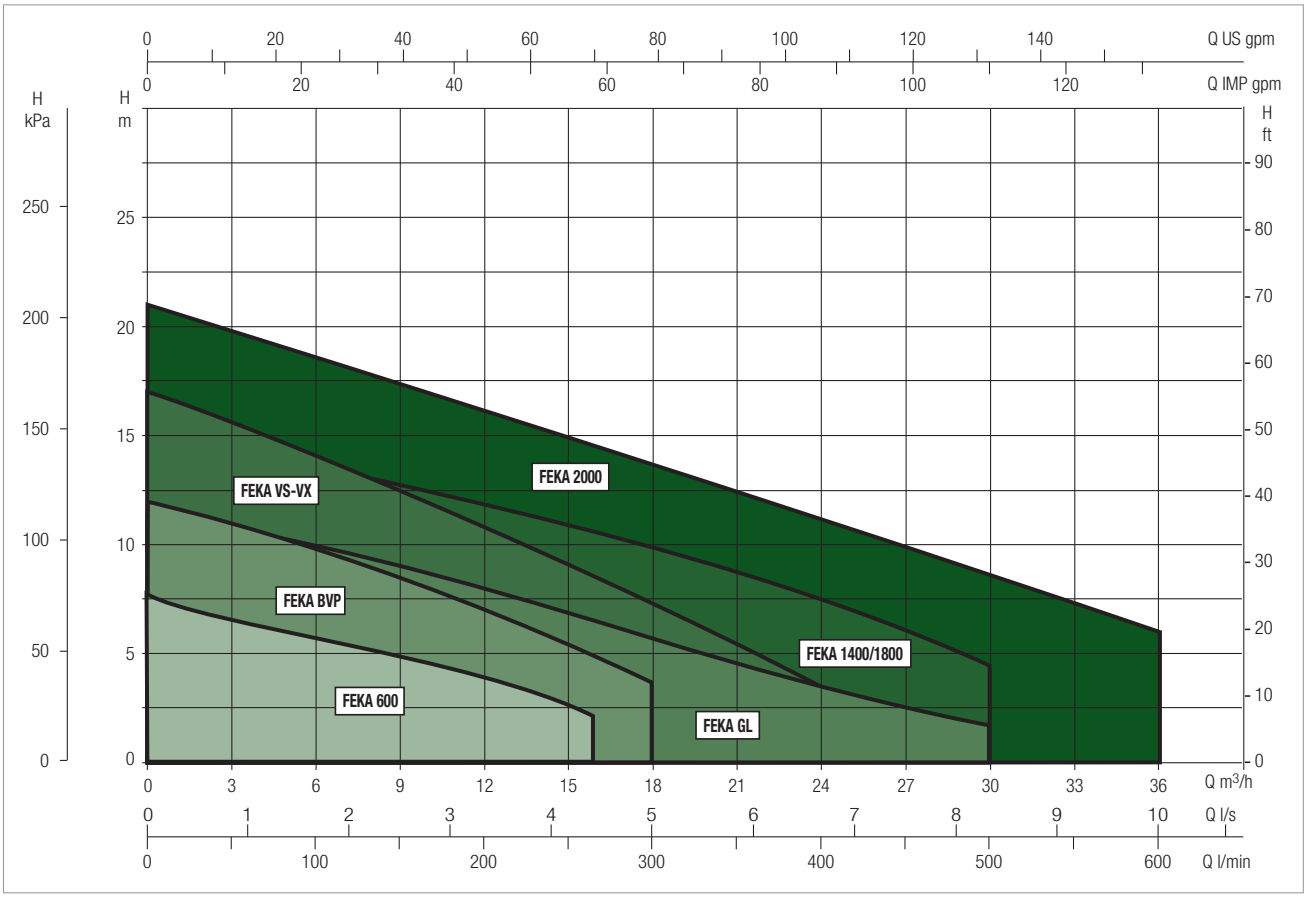
* In contact with the liquid



PERFORMANCE RANGE

The performance curves are based on kinematic viscosity values = 1 mm²/s and density equal to 1000 kg/m³. Curve tolerance according to ISO 9906.

GRAPHIC SELECTION TABLE

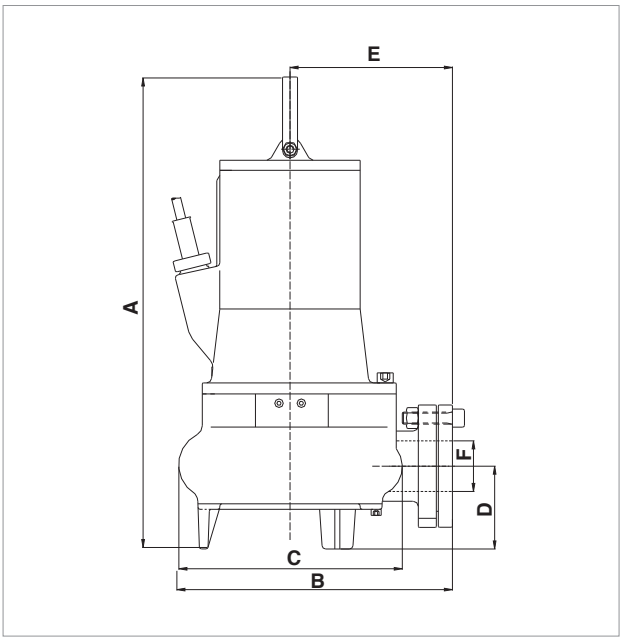


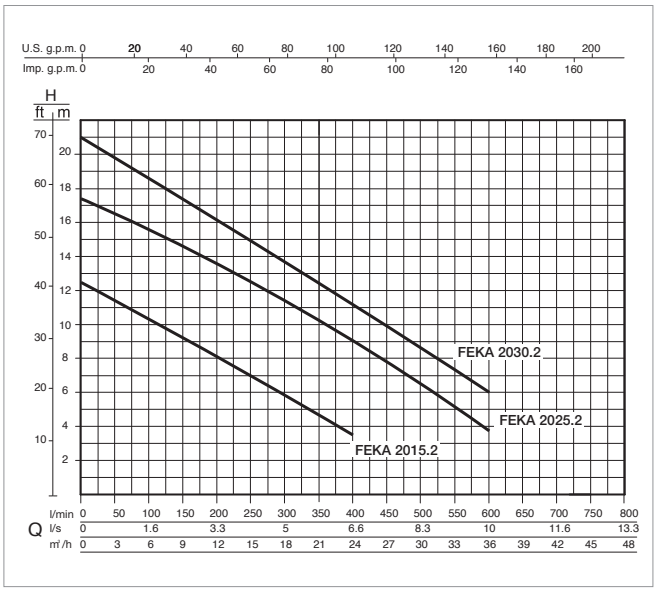
SELECTION TABLE - FEKA 2000

MODEL	Q= m³/h	0	3	6	9	12	15	18	24	30	36
	Q=l/min	0	50	100	150	200	250	300	400	500	600
FEKA 2015.2 M-T	H (m)	12.5	11.5	10.5	9.2	8	7	5.8	3.6		
FEKA 2025.2 T		17.5	16.5	15.6	14.7	13.6	12.5	11.6	9	6.5	3.8
FEKA 2030.2 T		21	19.8	18.5	17.5	16	15	13.8	11	8.3	6

FEKA 2000 - SUBMERSIBLE PUMPS FOR LIFTING WASTE WATER

Liquid temperature range: from 0 °C to +40 °C





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MODEL	ELECTRICAL DATA									
	POWER INPUT 50 Hz	P1 MAX kW	P2 NOMINAL		In A	CAPACITOR		rpm n. 1/min.	STARTING	CABLE
			kW	HP		µF	Vc			
FEKA 2015.2 MA	1 x 230 V ~	1,6	1,1	1,5	8	30	450	2900	DOL	10mt 4G1,5
FEKA 2015.2 MNA	1 x 230 V ~	1,6	1,1	1,5	8	30	450	2900	DOL	10mt 4G1,5
FEKA 2015.2 TNA	3 x 400 V ~	1,5	1,1	1,5	2,8	–	–	2900	DOL	10mt 4G1,5
FEKA 2025.2 TNA	3 x 400 V ~	2,2	1,8	2,4	4,1	–	–	2900	DOL	10mt 4G1,5
FEKA 2030.2 TNA	3 x 400 V ~	3,3	2,2	3	5,6	–	–	2900	DOL	10mt 4G1,5

MODEL	A	B	C	D	E	F Ø	DNM GAS	PACKING DIMENSIONS			VOLUME (m^3)	WEIGHT kg
								L/A	L/B	H		
FEKA 2015.2	457	300	220	88	178	2" GAS	2"	680	330	400	0.1	32
FEKA 2025.2 TNA	457	300	220	88	178	2" GAS	2"	680	330	400	0.1	33
FEKA 2030.2 TNA	457	300	220	88	178	2" GAS	2"	680	330	400	0.1	34

FIXED INSTALLATION