

Feka FXV

SUBMERSIBLE PUMPS



TECHNICAL DATA

Flow rate minimum and maximum: 62,8 m³/h
Head up to: 19,6 m
Immersion dept (maximum): 20 m
Type of pumped liquid: waters with filamentary bodies, paper or textile material in the presence of domestic or civil waste
Free passage: 50 mm or 65 mm depending on the model
Supported liquid temperature (maximum and minimum): + 50°C (+ 60°C for a short period of time)
Flanged and threaded: from 2", DN50, DN65
Impeller type: Vortex
Start time (maximum) per hour: 20/h
Class of protection: IP 68
Motor insulation class: F
Single phase power input: 1x 220-240V 50Hz
Three phase power input: 3x 400V 50Hz / 3x 230V 50Hz only on request
Maximum dry run time: 10 min
Power cable (m) and plug: 10 m
Possible type of installation: mobile when on the ground, fixed with coupling
Certification: EN 12050-1 \ ATEX
Special versions on request: different cable lengths, different voltages and frequencies

Feka FXV is a submersible pump for draining sewage water in commercial building service. It is certified for the European Union standard EN 12050-1 which applies to sewage lifting containing faecal material in buildings and construction sites. Pump suitable for fixed installations with a coupling device or mobile if placed directly on the bottom of the tank. High-performance super vortex impeller with solid handling up to 50 mm or 60 mm. The pump is suitable for liquid with solids and long fibers in suspension. The reduced overall dimensions and the outlet ports both flanged and threaded make it ideal for replacements. Designed for quick maintenance thanks to a constructive solution that provides easy access to the main components of the pump. Automatic versions with power up to 1,5 kW. ATEX version available for use in potentially explosive environments. (ATEX certifications: II2G Ex db k IIB T4 or IEC EX: Ex db IIB T4 Gb).

CONSTRUCTION FEATURES OF THE PUMP

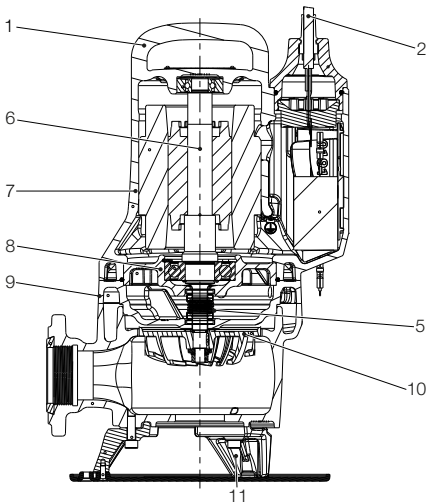
Pump body and impeller in cast iron. Motor shaft in AISI 304 stainless steel. Double mechanical seal in SiC-SiC/SiC-C in oil chamber not in contact with the pumped liquid, independent of the direction of rotation. Delivery port both flanged and threaded.

CONSTRUCTION FEATURES OF THE MOTOR

Available in single-phase asynchronous motor (MA / MNA versions) and three-phase motor (TNA versions). Rotor mounted on lubricated bearings. Continuous operation in S1 with the motor completely immersed. Dry running for a maximum time of 10 minutes. Over-temperature sensors in the motor windings with intervention threshold at +130°C. Quick-bonded resin-bonded cable gland, 07RN8-F power cable. Single-phase versions with integrated capacitor, available with float for automatic operation (MA) with powers up to 1,5 kW. In the three-phase motors the over-temperature sensor connection is responsibility of the user.

MATERIALS

N°	PARTS	MATERIALS
1	HANDLE	CAST IRON EN G.JL 200
2	ELECTRIC CABLE	07RN8-F
3	SCREWS	STAINLESS STEEL AISI 304
4	OR	NBR
5	MECHANICAL SEAL PUMP SIDE	SiC-SiC/SiC-C
	MECHANICAL SEAL MOTOR SIDE	SiC/CARBON
6	MOTOR SHAFT	STAINLESS STEEL AISI 304 (P2>1.5kW and 4 poles) AISI 431 (P2<1.2kW)
7	PUMP BODY / MOTOR	CAST IRON EN G.JL 200
8	BEARING INNER FLANGE	ALLUMINIUM ALLOY EN AC 46100
9	FLANGE	CAST IRON EN G.JL 200
10	IMPELLER	CAST IRON EN G.JL 250
11	BASE	CAST IRON EN G.JL 200
13	COATING	CATAPHORESIS and ACRILIC TWO-COMPONENT 50µm



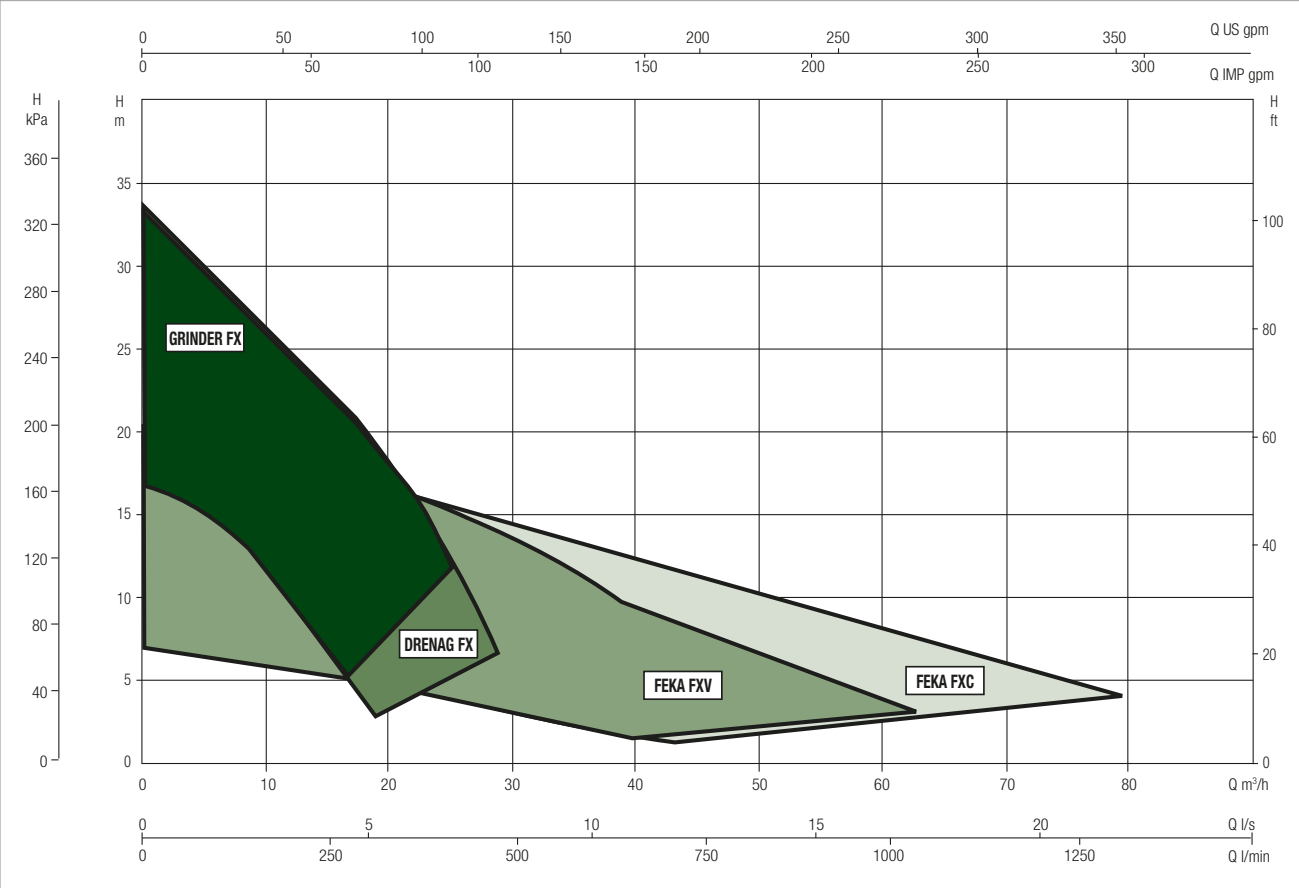
FX RANGE

SUBMERSIBLE PUMPS

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 ISO9906.

GRAPHIC SELECTION TABLE

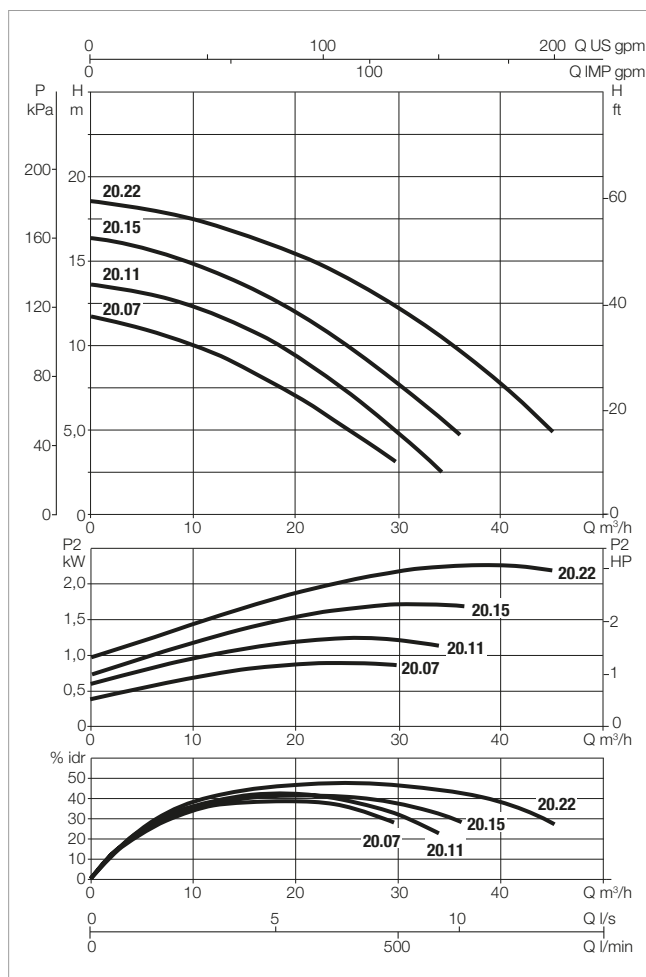
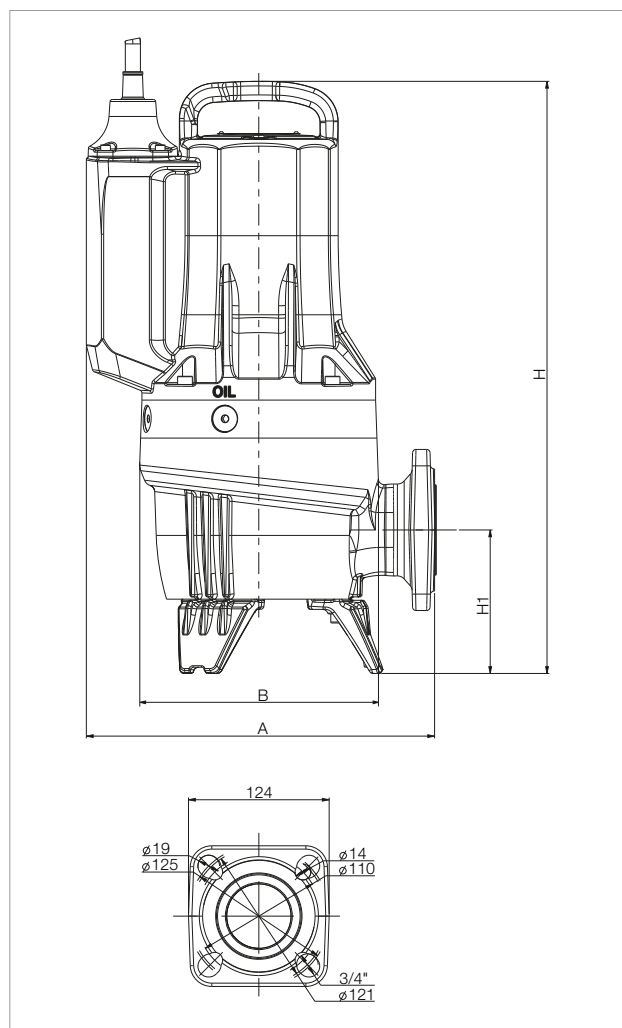


SELECTION TABLE FEKA FXV 20 - 25

MODEL	Q=m³/h	0	6	12	18	24	30	36	42	48	54
	Q=l/min	0	100	200	300	400	500	600	700	800	900
FEKA FXV 20.07	H (m)	11,7	10,9	9,6	7,7	5,4	2,9				
FEKA FXV 20.11		13,1	12,9	11,9	10,1	7,7	4,8				
FEKA FXV 20.15		16,2	15,6	14,4	12,6	10,4	7,7	4,7			
FEKA FXV 20.22		18,5	18,0	17,1	15,9	14,3	12,2	9,7	6,6		
FEKA FXV 25.07		8,8	8,1	7,0	5,7	4,3	3,0	1,8			
FEKA FXV 25.11		11,3	10,7	9,6	8,2	6,6	4,9	3,4	2,2		
FEKA FXV 25.15		13,7	13,4	12,4	11,0	9,2	7,4	5,5	3,9	2,5	
FEKA FXV 25.22		16,5	16,3	15,6	14,5	13,0	11,3	9,4	7,5	5,6	3,8
FEKA FXV 25.07.4		6,3	6,0	5,5	4,8	3,9	2,9	1,8			
FEKA FXV 25.12.4		9,0	8,7	8,3	7,8	7,1	6,3	5,4	4,3	3,2	1,9

FEKA FXV 20 - SUBMERSIBLE PUMPS

Pumped liquid temperature range: da 0° a +50°C. For higher temperatures contact our sales network.



The performance curves are based on kinematic viscosity values = 1 mm²/s and density equal to 1000 kg/m³. Curve tolerance according to ISO9906.

MODEL	ELECTRICAL DATA							
	POWER INPUT 50 Hz	P1 MAX kW	P2 NOMINAL		In A	Is A	CAPACITOR	RATED SPEED rpm/min
			Kw	HP				
FEKA FXV 20.07 MA	1x230V	1,4	0,9	1,2	6,4	29	25	2870
FEKA FXV 20.07 MNA*	1x230V	1,4	0,9	1,2	6,4	29	25	2870
FEKA FXV 20.07 TNA*	3x400V	1,4	0,9	1,2	2,4	22	-	2870
FEKA FXV 20.11 MA	1x230V	1,7	1,2	1,6	8	29	25	2870
FEKA FXV 20.11 MNA*	1x230V	1,7	1,2	1,6	8	29	25	2870
FEKA FXV 20.11 TNA*	3x400V	1,6	1,2	1,6	2,9	19	-	2870
FEKA FXV 20.15 MA	1x230V	2,3	1,7	2,3	10,5	36	40	2870
FEKA FXV 20.15 MNA*	1x230V	2,3	1,7	2,3	10,5	36	40	2870
FEKA FXV 20.15 TNA*	3x400V	2,2	1,7	2,3	4	25	-	2870
FEKA FXV 20.22 TNA*	3x400V	2,9	2,2	2,9	5	35	-	2870

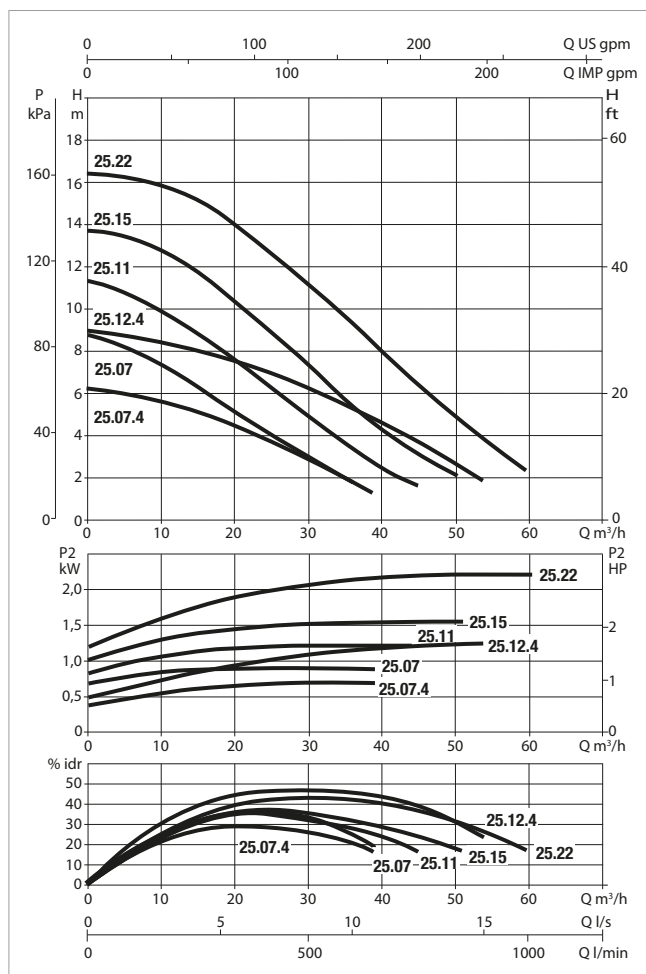
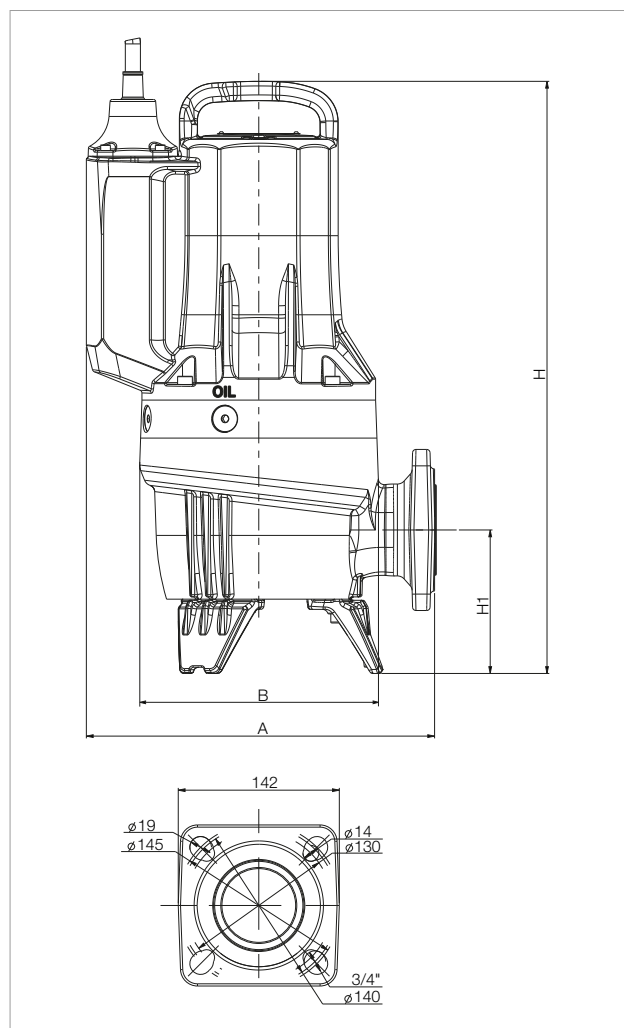
*Available in Ex version

MODEL	FREE PASSAGE	A	B	H		H1	DELIVERY				PACKING DIMENSIONS			WEIGHT Kg
					Ex		GAS	DN1	HOLES	D	L/A	L/B	H	
FEKA FXV 20.07*	50	307	211	464	464	104	Rp 2"	50 PN10/6	4	125-110	660	370	400	35
FEKA FXV 20.11*	50	307	211	464	482	104	Rp 2"	50 PN10/6	4	125-110	660	370	400	35
FEKA FXV 20.15 MA	50	307	211	464	-	104	Rp 2"	50 PN10/6	4	125-110	660	370	400	39
FEKA FXV 20.15 MNA-TNA*	50	307	211	474	492	104	Rp 2"	50 PN10/6	4	125-110	660	370	400	39
FEKA FXV 20.22*	50	307	211	492	508	104	Rp 2"	50 PN10/6	4	125-110	660	370	400	40

*Available in Ex version

FEKA FXV 25 - SUBMERSIBLE PUMPS

Pumped liquid temperature range: da 0° a +50°C. For higher temperatures contact our sales network.



The performance curves are based on kinematic viscosity values = 1 mm²/s and density equal to 1000 kg/m³. Curve tolerance according to ISO9906.

MODEL	ELECTRICAL DATA							
	POWER INPUT 50 Hz	P1 MAX kW	P2 NOMINAL		In A	Is A	CAPACITOR	RATED SPEED rpm/min
			Kw	HP				
FEKA FXV 25.07 MA	1x230V	1,5	1	1,3	6,6	29	25	2870
FEKA FXV 25.07 MNA*	1x230V	1,5	1	1,3	6,6	29	25	2870
FEKA FXV 25.07 TNA*	3x400V	1,3	1	1,3	2,3	22	-	2870
FEKA FXV 25.11 MA	1x230V	1,7	1,2	1,6	7,6	29	25	2870
FEKA FXV 25.11 MNA*	1x230V	1,7	1,2	1,6	7,6	29	25	2870
FEKA FXV 25.11 TNA*	3x400V	1,7	1,2	1,6	3	19	-	2870
FEKA FXV 25.15 MA	1x230V	2,3	1,7	2,3	10,6	36	40	2870
FEKA FXV 25.15 MNA*	1x230V	2,3	1,7	2,3	10,6	36	40	2870
FEKA FXV 25.15 TNA*	3x400V	2,2	1,7	2,3	4	25	-	2870
FEKA FXV 25.22 TNA*	3x400V	2,8	2,2	2,9	4,9	35	-	2870
FEKA FXV 25.07.4 TNA*	3x400V	1	0,7	0,9	2,2	10	-	2870
FEKA FXV 25.12.4 TNA*	3x400V	1,7	1,2	1,6	3	15	-	2870

*Available in Ex version

MODEL	FREE PASSAGE	A	B	H		H1	DELIVERY				PACKING DIMENSIONS			WEIGHT Kg
					Ex		GAS	DN1	HOLES	D	L/A	L/B	H	
FEKA FXV 25.07*	65	307	211	502	519	124	-	65 PN10/6	4	145-130	660	370	400	36
FEKA FXV 25.11*	65	307	211	502	519	124	-	65 PN10/6	4	145-130	660	370	400	37
FEKA FXV 25.15*	65	307	211	522	539	127	-	65 PN10/6	4	145-130	660	370	400	43
FEKA FXV 25.22*	65	307	211	522	539	127	-	65 PN10/6	4	145-130	660	370	400	41
FEKA FXV 25.07.4*	65	335	253	545	545	132	-	65 PN10/6	4	145-130	660	370	400	45
FEKA FXV 25.12.4*	65	335	253	545	545	132	-	65 PN10/6	4	145-130	660	370	400	48

*Available in Ex version