



SUBMERSIBLE PUMPS



IMPELLER SELECTION GUIDE

PUMP	IMPELLER TYPE	IMPELLER PROPERTIES	RECOMMENDED APPLICATIONS
 <p>DRENAG FX</p>	 <p>Close-clearance open impeller</p>	High head	Unscreened rainwater
 <p>FX C</p>	 <p>Channel impeller</p>	High flow rate	Flooding prevention for critical applications
 <p>FEKA FX V</p>	 <p>Vortex Impeller</p>	Maximum free passage	Unscreened wastewater as covered under standard EN12050-1
 <p>FEKA FX S</p>	 <p>Screw impeller</p>	Unbeatable efficiency	Unscreened wastewater as covered under EN12050-1 Dense or viscous liquids
 <p>GRINDER FX</p>	 <p>Close-clearance open impeller with shredder</p>	High head with shredder	Unscreened wastewater as covered under EN12050-1 Wastewater containing long fibres Systems with pipework that has a small diameter or is partially clogged

DRENAG FX

SUBMERSIBLE PUMPS



TECHNICAL DATA

Liquid pumped: Clearwater and rainwater, greywater and sandy water from construction sites.

Free passage: 10 mm.

Liquid temperature range:

+50°C (+60°C for short periods);

+40°C for ATEX version

Outlet connection:

1 1/2" BSP threaded;

DN 32 and DN 40 flanged

Outlet direction: horizontal and vertical with 1 1/2" bend kit accessory.

Impeller: cast iron open

Maximum submerged depth: 7 metres

Possible mounting positions: portable placed on ground, fixed on coupling device

DRENAG FX is a submersible drainage pump designed to handle clearwater and greywater from drains in residential, institutional and commercial settings, as well as groundwater or rainwater; suitable for high-head applications. The pump is certified to standard EN 12050-2 for wastewater. For fixed installations with a coupling device, or portable installations when placed directly on the bottom of the tank. Design solution chosen for quick maintenance, featuring easy access to the pump's main components. Automatic versions with an output of up to 1,5 kW. Also comes in an ATEX version for use in potentially explosive atmospheres. (ATEX certifications: II2G Ex db IIB T4 GB).

PUMP DESIGN FEATURES

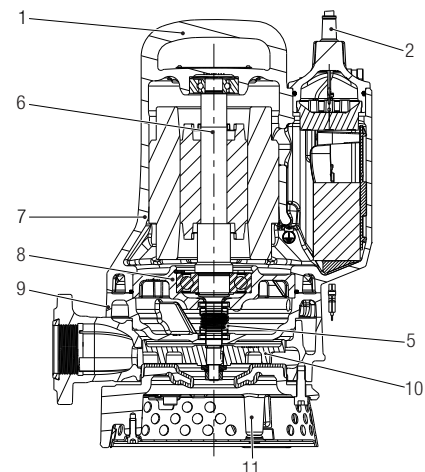
Close-clearance open impeller and wear-resistant rubber-coated disc allowing the pump to handle even fluids containing abrasive particles. Spheroidal cast iron pump casing and impeller. AISI 304 stainless steel motor shaft. Double SiC-SiC/SiC-C mechanical seal running in an oil chamber not in contact with the liquid being pumped. Both flanged and threaded outlet port.

MOTOR DESIGN FEATURES

Single-phase (MA/MNA versions) and three-phase (TNA versions) asynchronous motor. Rotor mounted on long-life lubricated watertight bearings. S1 continuous duty with motor fully submerged. Dry run for a maximum of 10 minutes. Overtemperature sensors in motor windings with a trip point of 130°C. Epoxy-sealed cable entry, quick-connect power cable 07RN8-F. Single-phase versions have a built-in capacitor and can be supplied with a float for automatic operation (MA version) with outputs up to 1,5 kW. In three-phase motors, it is the installer's job to connect the built-in thermal overload protection.

MATERIALS

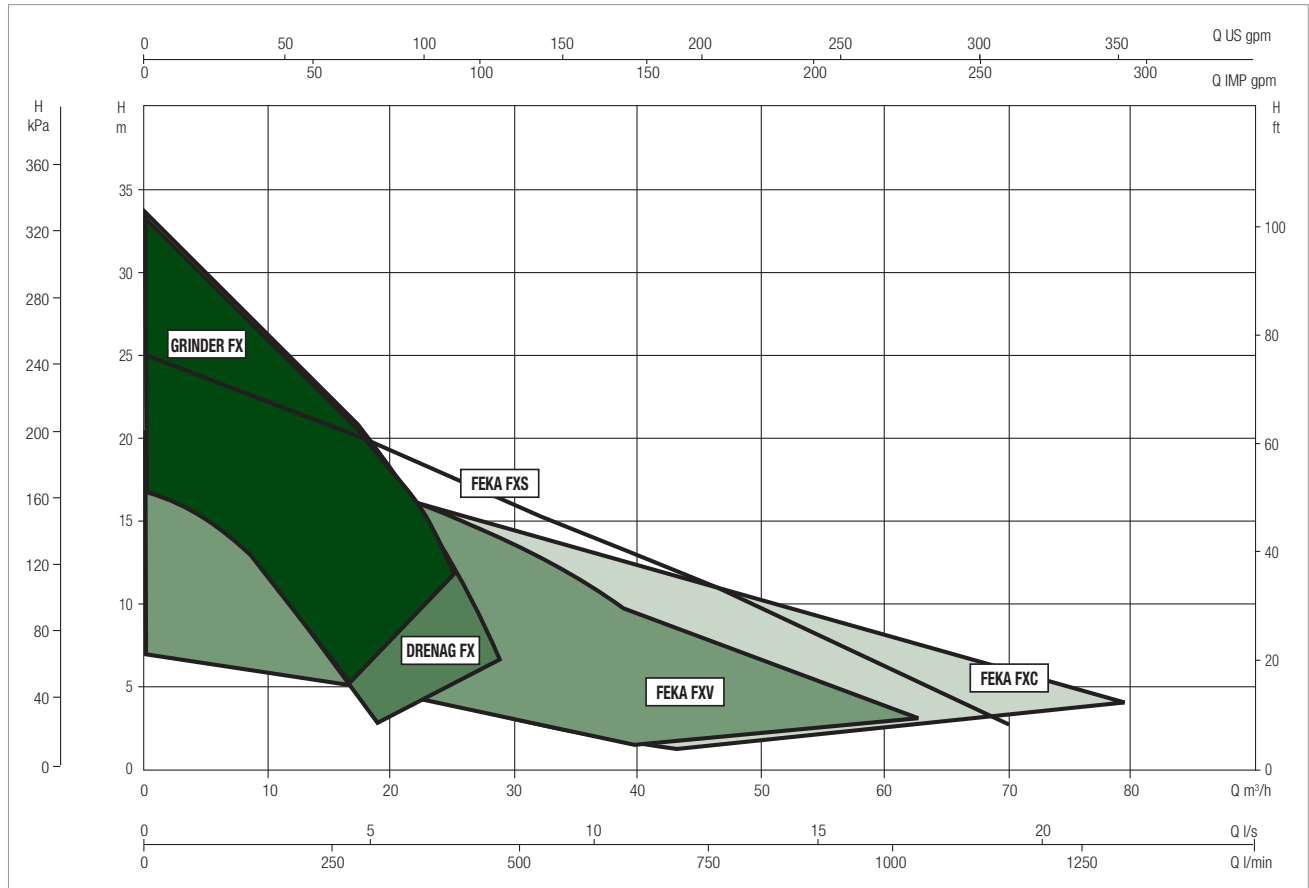
No.	PARTS	MATERIALS
1	HANDLE	CAST IRON EN G.JL 200
2	ELECTRIC CABLE	07RN8-F
3	SCREWS	AISI 304 STEEL
4	OR	NBR
5	COMP. MECH. SEAL PUMP SIDE	SiC-SiC/SiC-C
	COMP. MECH. SEAL MOTOR SIDE	SiC/CARBON
6	MOTOR SHAFT	AISI 304 STEEL (P2>1,5kW)
		AISI 431 (P2<1,2kW)
7	PUMP CASING / MOTOR HOUSING	CAST IRON EN G.JL 200
8	INTERNAL BEARING FLANGE	ALUMINIUM 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 + NATURAL RUBBER
13	COATING	ELECTROPHORETIC and 2-PACK ACRYLIC 50µm



PERFORMANCE RANGE

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

SELECTION GUIDE GRAPH

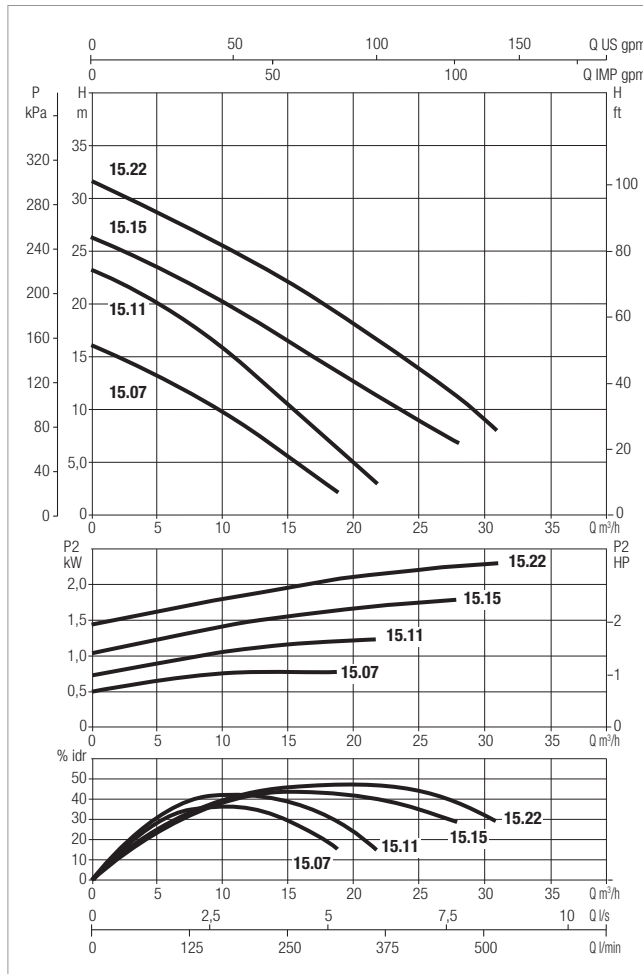
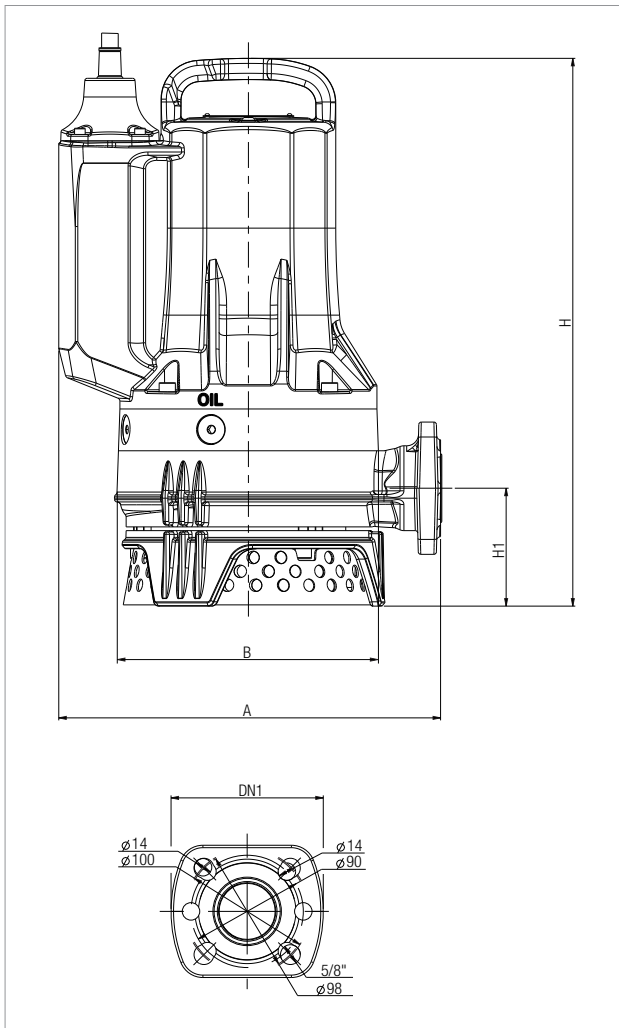


DRENAG FX 15 SELECTION GUIDE

MODEL	Q=m³/h	0	3	6	9	12	15	18	21	24	27	30
	Q=l/min	0	50	100	150	200	250	300	350	400	450	500
DRENAG FX 15.07	H (m)	16,2	14,5	12,6	10,5	8,1	5,5	2,8				
DRENAG FX 15.11		23,3	21,5	19,3	16,7	13,8	10,6	7,3	3,8			
DRENAG FX 15.15		26,4	24,9	23,1	21,1	18,9	16,6	14,2	11,8	9,5	7,4	
DRENAG FX 15.22		31,8	30,0	28,2	26,3	24,3	22,1	19,8	17,4	14,8	12,0	9,0

DRENAG FX 15 - SUBMERSIBLE PUMPS

Pumped liquid temperature range: 0° to +50°C. For higher temperatures, please contact our sales network.



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

MODEL	ELECTRICAL DATA							
	POWER SUPPLY 50 Hz	P1 MAX. kW	P2 RATED		In A	Is A	CAPACITOR µF	RATED SPEED rpm
			Kw	HP				
DRENAG FX 15.07 MA	1x230V	1,1	0,8	1,1	5,1	29	25	2870
DRENAG FX 15.07 MNA*	1x230V	1,1	0,8	1,1	5,1	29	25	2870
DRENAG FX 15.07 S TNA*	3x400V	1	0,8	1,1	2,1	22	-	2870
DRENAG FX 15.11 MA	1x230V	1,5	1,2	1,6	6,8	29	25	2870
DRENAG FX 15.11 MNA*	1x230V	1,5	1,2	1,6	6,8	29	25	2870
DRENAG FX 15.11 S TNA*	3x400V	1,5	1,2	1,6	2,8	19	-	2870
DRENAG FX 15.15 MA	1x230V	2,3	1,8	2,4	10,6	36	40	2870
DRENAG FX 15.15 MNA*	1x230V	2,3	1,8	2,4	10,6	36	40	2870
DRENAG FX 15.15 S TNA*	3x400V	2,5	1,8	2,4	4,3	25	-	2870
DRENAG FX 15.22 S TNA*	3x400V	3,1	2,3	3,1	5,2	35	-	2870

*Also comes in ATEX version

S: Oil sensor

MODEL	FREE PASSAGE (mm)	A	B	H			H1	OUTLET				PACKAGING DIMENSIONS			WEIGHT kg
				MA/MNA	TNA	BSP		DN1	HOLES	D	L/A	L/B	H		
DRENAG FX 15.07*	10	306	215	430	412	95	Rp 1" 1/2	DN32 PN10 / 6 DN40 PN6	4 2	100-90 90	660	370	400	35	
DRENAG FX 15.11*	10	306	215	430	430	95	Rp 1" 1/2	DN32 PN10 / 6 DN40 PN6	4 2	100-90 90	660	370	400	35	
DRENAG FX 15.15*	10	306	215	457	439	95	Rp 1" 1/2	DN32 PN10 / 6 DN40 PN6	4 2	100-90 90	660	370	400	38	
DRENAG FX 15.22*	10	306	215	-	457	95	Rp 1" 1/2	DN32 PN10 / 6 DN40 PN6	4 2	100-90 90	660	370	400	39	

*Also comes in ATEX version



TECHNICAL DATA

Liquid pumped: clearwater and rainwater, greywater and sandy water from construction sites

Free passage: 50 mm

Liquid temperature range:

+50°C (+60°C for short periods);

+40°C for ATEX version

Outlet connection:

FX C 20 threaded 2", flanged DN 50;

FX C 25 flanged DN 65.

Outlet direction: horizontal and vertical with bend kit accessory

Impeller: cast iron channels

Maximum submerged depth: 7 metres

Possible mounting positions: portable placed on ground, fixed on coupling device

FEKA FX C is a submersible drainage pump designed to handle solids-laden water from drains in residential, institutional and commercial settings. The pump is certified to standard EN 12050-2 for wastewater. Pump suitable for fixed installations with a coupling device, or portable installations when placed directly on the bottom of the tank. Suitable for wastewater and solids-laden water not containing long fibres, as well as rainwater and groundwater. Pump suitable for drainage applications to remove water from areas prone to flooding, where high flow rates are required. Design solution chosen for quick maintenance, featuring easy access to the main components. Certified to standard EN 12050-1 for wastewater. Automatic versions with an output of up to 1,5 kW. Also comes in an ATEX version for use in potentially explosive atmospheres. (ATEX certifications: IIB T4 GB).

PUMP DESIGN FEATURES

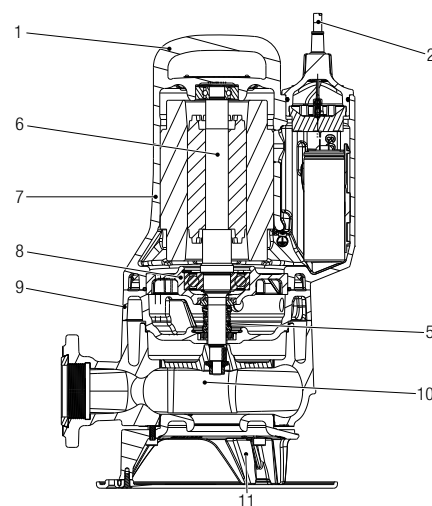
Channel impeller with non-clog system, free passage 50 mm. Cast iron pump casing and impeller. AISI 304 stainless steel motor shaft. Double SiC-SiC/SiC-C mechanical seal running in an oil chamber not in contact with the liquid being pumped. Both flanged and threaded outlet port.

MOTOR DESIGN FEATURES

Single-phase (MA/MNA versions) and three-phase (TNA versions) asynchronous motor. Rotor mounted on long-life lubricated watertight bearings. S1 continuous duty with motor fully submerged. Dry run for a maximum of 10 minutes. Overtemperature sensors in motor windings with a trip point of 130°C. Epoxy-sealed cable entry, quick-connect power cable 07RN8-F. Single-phase versions have a built-in capacitor and can be supplied with a float for automatic operation (MA version) with outputs up to 1,5 kW. In three-phase motors, it is the installer's job to connect the built-in thermal overload protection.

MATERIALS

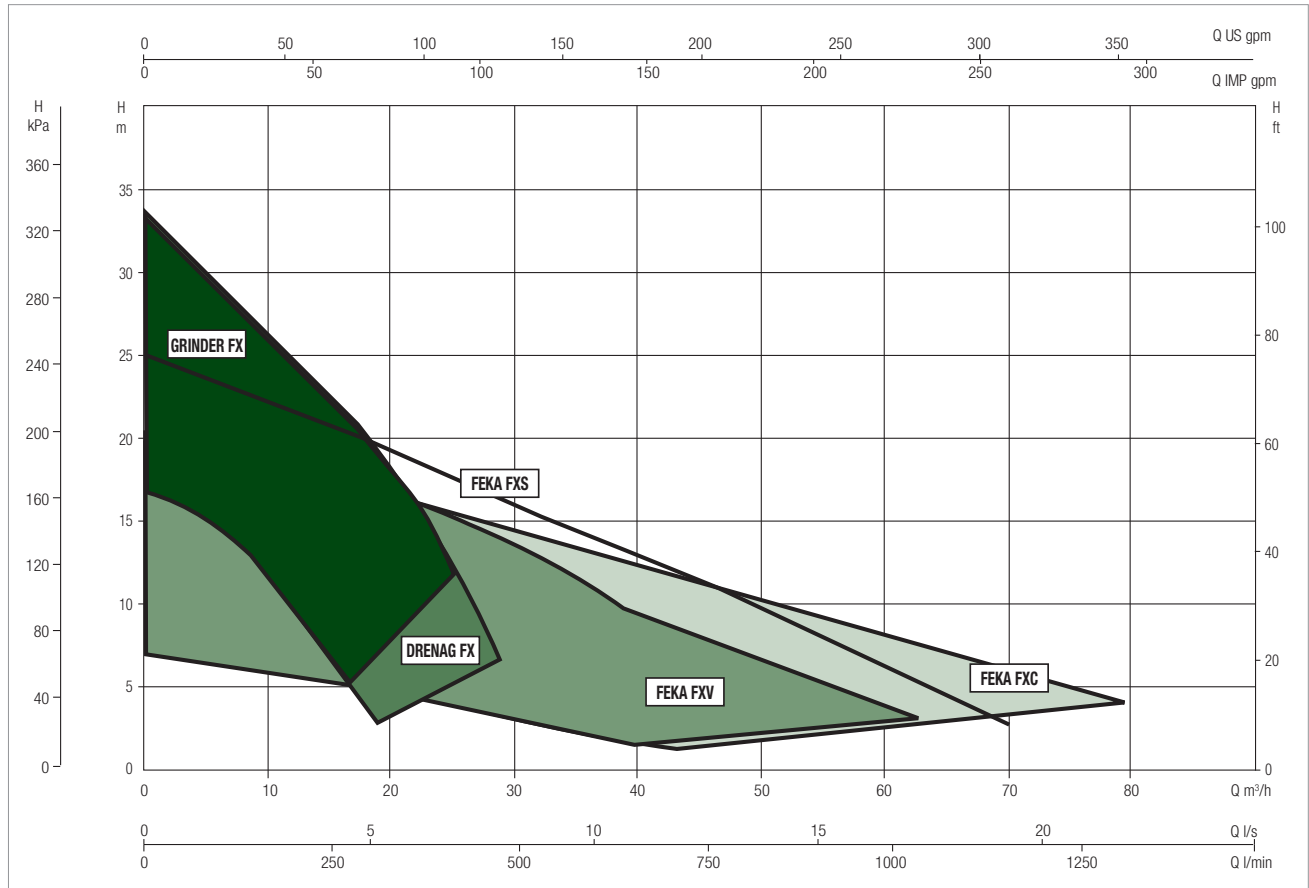
No.	PARTS	MATERIALS
1	HANDLE	CAST IRON EN G.JL 200
2	ELECTRIC CABLE	07RN8-F
3	SCREWS	AISI 304 STEEL
4	OR	NBR
5	COMP. MECH. SEAL PUMP SIDE	SiC-SiC/SiC-C
	COMP. MECH. SEAL MOTOR SIDE	SiC/CARBON
6	MOTOR SHAFT	AISI 304 STEEL (P2>1,5kW) AISI 431 (P2<1,2kW)
7	PUMP CASING / MOTOR HOUSING	CAST IRON EN G.JL 200
8	INTERNAL BEARING FLANGE	ALUMINIUM 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	ELECTROPHORETIC and 2-PACK ACRYLIC 50µm



PERFORMANCE RANGE

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

SELECTION GUIDE GRAPH

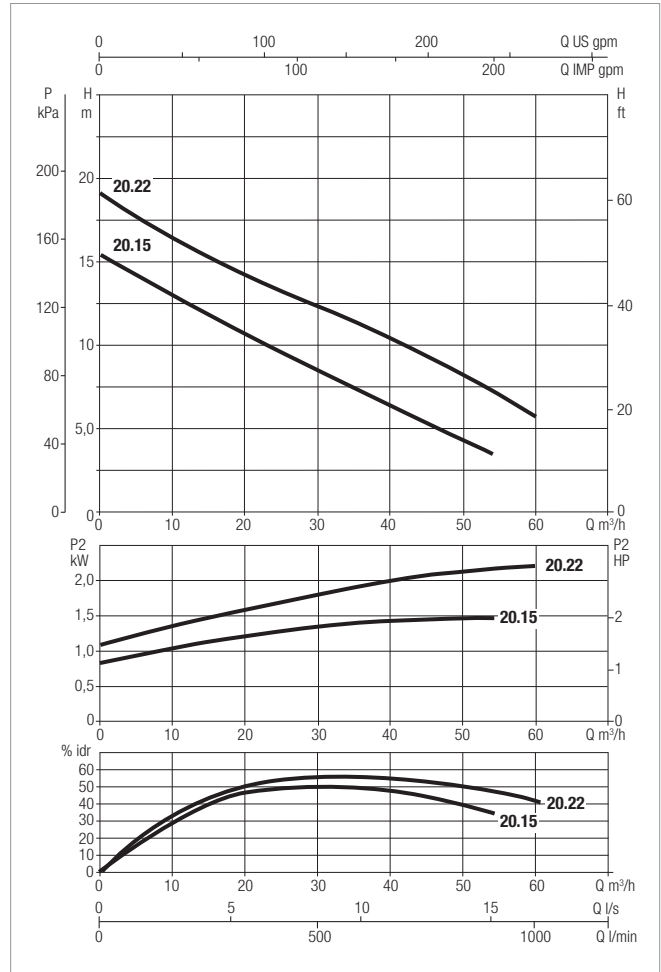
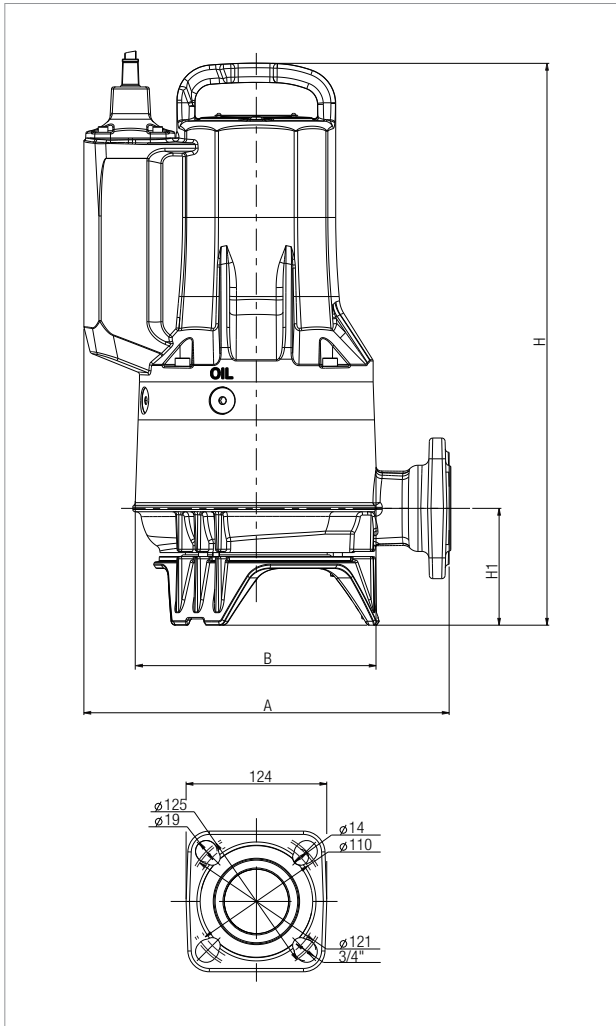


FEKA FX C 20 - 25 SELECTION GUIDE

MODEL	Q=m ³ /h	0	7	14	22	29	36	43	50	58	65
	Q=l/min	0	120	240	360	480	600	720	840	960	1080
FEKA FX C 20.15	H (m)	15,3	13,5	11,8	10,2	8,7	7,1	5,7	4,2		
FEKA FX C 20.22		19,1	17,2	15,5	14,0	12,6	11,2	9,8	8,1	6,2	
FEKA FX C 25.15		15,1	13,5	11,8	10,3	8,8	7,3	5,8	4,5	3,1	
FEKA FX C 25.22		18,9	16,9	15,2	13,8	12,4	11,1	9,8	8,4	6,9	5,1

FX C 20 - SUBMERSIBLE PUMPS

Pumped liquid temperature range: 0° to +50°C. For higher temperatures, please contact our sales network.



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

MODEL	ELECTRICAL DATA							
	POWER SUPPLY 50 Hz	P1 MAX, kW	P2 RATED		In A	Is A	CAPACITOR µF	RATED SPEED rpm
			Kw	HP				
FEKA FX C 20,15 MA	1x230V	2	1,5	2,0	9,1	36	40	2870
FEKA FX C 20,15 MNA*	1x230V	2	1,5	2,0	9,1	36	40	2870
FEKA FX C 20,15 S TNA*	3x400V	1,8	1,5	2,0	3,5	25	-	2870
FEKA FX C 20,22 S TNA*	3x400V	2,8	2,2	2,9	4,9	35	-	2870

*Also comes in ATEX version

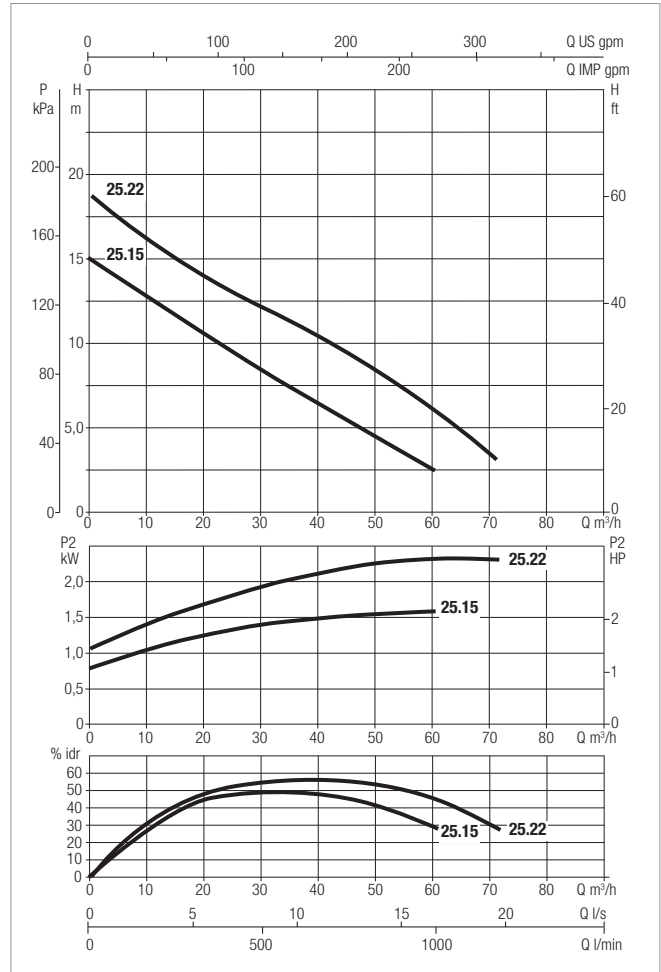
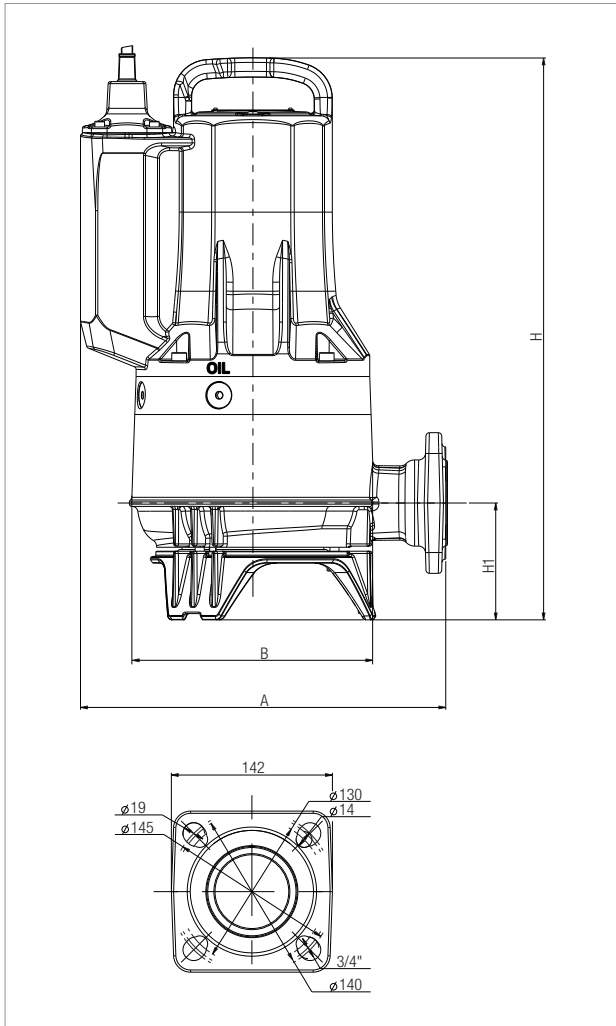
S: Oil sensor

MODEL	FREE PASSAGE (mm)	A	B	H			H1	OUTLET				PACKAGING DIMENSIONS			WEIGHT kg
				MA/MNA	TNA	H		BSP	DN1	HOLES	D	L/A	L/B	H	
FEKA FX C 20.15*	50	322	218	514	496	103	Rp 2"	50 PN10/6	4	125-110	660	370	400	42	
FEKA FX C 20.22 *	50	322	218	-	514	103	Rp 2"	50 PN10/6	4	125-110	660	370	400	43	

*Also comes in ATEX version

FX C 25 - SUBMERSIBLE PUMPS

Pumped liquid temperature range: 0° to +50°C. For higher temperatures, please contact our sales network.



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

MODEL	ELECTRICAL DATA							
	POWER SUPPLY 50 Hz	P1 MAX. kW	P2 RATED		In A	Is A	CAPACITOR μF	RATED SPEED rpm
			Kw	HP				
FEKA FX C 25.15 MA	1x230V	2	1,6	2,1	9,3	36	40	2870
FEKA FX C 25.15 MNA*	1x230V	2	1,6	2,1	9,3	36	40	2870
FEKA FX C 25.15 S TNA*	3x400V	1,9	1,6	2,1	3,6	25	-	2870
FEKA FX C 25.22 S TNA*	3x400V	2,9	2,3	3,1	5	35	-	2870

*Also comes in ATEX version

S: Oil sensor

MODEL	FREE PASSAGE (mm)	A	B	H			H1	OUTLET				PACKAGING DIMENSIONS			WEIGHT kg
				MA/MNA	TNA	BSP		DN1	HOLES	D	L/A	L/B	H		
FEKA FX C 25.15*	50	322	218	514	496	103	-	65 PN10/6	4	145-130	660	370	400	43	
FEKA FX C 25.22 *	50	322	218	-	514	103	-	65 PN10/6	4	145-130	660	370	400	44	

*Also comes in ATEX version



TECHNICAL DATA

Liquid pumped: untreated wastewater

Free passage:

FX V 20: 50 mm;

FX V 25: 65 mm

Liquid temperature range:

+50°C (+60°C for short periods);

+40°C for ATEX version

Outlet connection:

FX V 20: threaded 2", flanged DN 50;

FX V 25: flanged DN 65

Outlet direction: horizontal and vertical with bend kit accessory

Impeller: cast iron vortex

Maximum submerged depth: 7 metres

Possible mounting positions: portable placed on ground, fixed on coupling device

FEKA FX V is a submersible drainage pump designed to handle solids-laden water from drains in residential, institutional and commercial settings. Certified to standard EN 12050-1 for wastewater. Pump suitable for fixed installations with a coupling device, or portable installations when placed directly on the bottom of the tank. Featuring a high-performance super vortex impeller designed to maximize free passage, the pump is suitable for handling liquids laden with suspended solids and long fibres. With its small footprint and both flanged and threaded outlet ports, the pump is ideal as a replacement. Design solution chosen for quick maintenance, featuring easy access to the pump's main components. Automatic versions with an output of up to 1,5 kW. Also comes in an ATEX version for use in potentially explosive atmospheres. (ATEX certifications: II2G Ex db IIB T4 GB).

PUMP DESIGN FEATURES

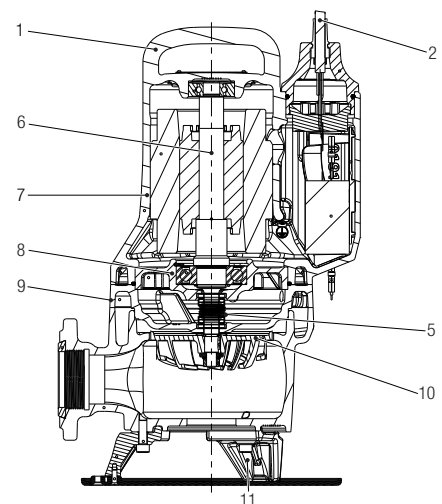
Cast iron pump casing and impeller. AISI 304 stainless steel motor shaft. Double SiC-SiC/SiC-C mechanical seal running in an oil chamber not in contact with the liquid being pumped, regardless of the direction of rotation. Both flanged and threaded outlet port.

MOTOR DESIGN FEATURES

Single-phase (MA/MNA versions) and three-phase (TNA versions) asynchronous motor. Rotor mounted on long-life lubricated watertight bearings. S1 continuous duty with motor fully submerged. Dry run for a maximum of 10 minutes. Overtemperature sensors in motor windings with a trip point of 130°C. Epoxy-sealed cable entry, quick-connect power cable 07RN8-F. Single-phase versions have a built-in capacitor and can be supplied with a float for automatic operation (MA) with outputs up to 1,5 kW. In three-phase motors, it is the installer's job to connect the built-in thermal overload protection.

MATERIALS

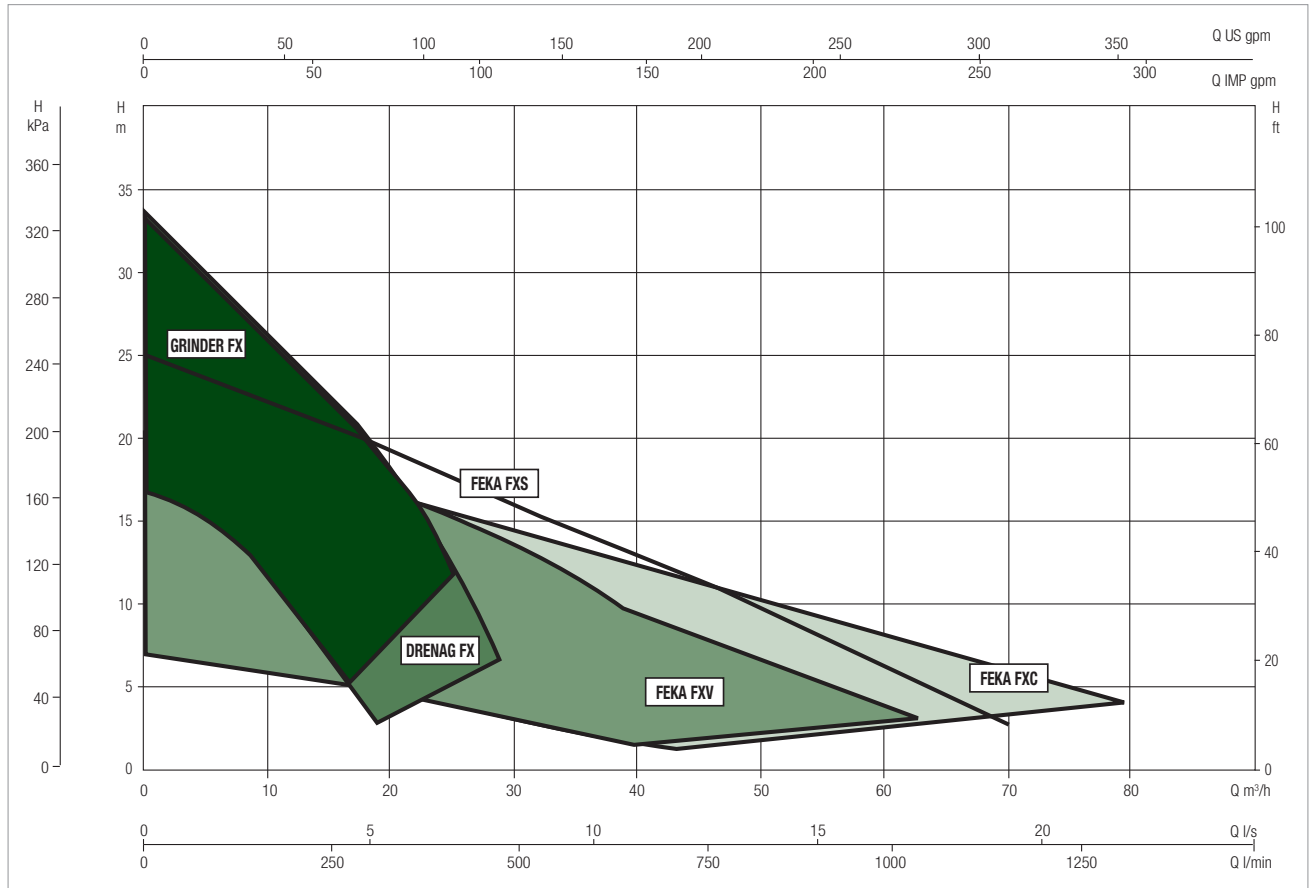
No.	PARTS	MATERIALS
1	HANDLE	CAST IRON EN G.JL 200
2	ELECTRIC CABLE	07RN8-F
3	SCREWS	AISI 304 STEEL
4	OR	NBR
5	COMP. MECH. SEAL PUMP SIDE	SiC-SiC/SiC-C
	COMP. MECH. SEAL MOTOR SIDE	SiC/CARBON
6	MOTOR SHAFT	AISI 304 STEEL (P2>1,5kW and 4-pole)
		AISI 431 (P2<1,2kW)
7	PUMP CASING / MOTOR HOUSING	CAST IRON EN G.JL 200
8	INTERNAL BEARING FLANGE	ALUMINIUM 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	ELECTROPHORETIC and 2-PACK ACRYLIC 50µm



PERFORMANCE RANGE

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

SELECTION GUIDE GRAPH

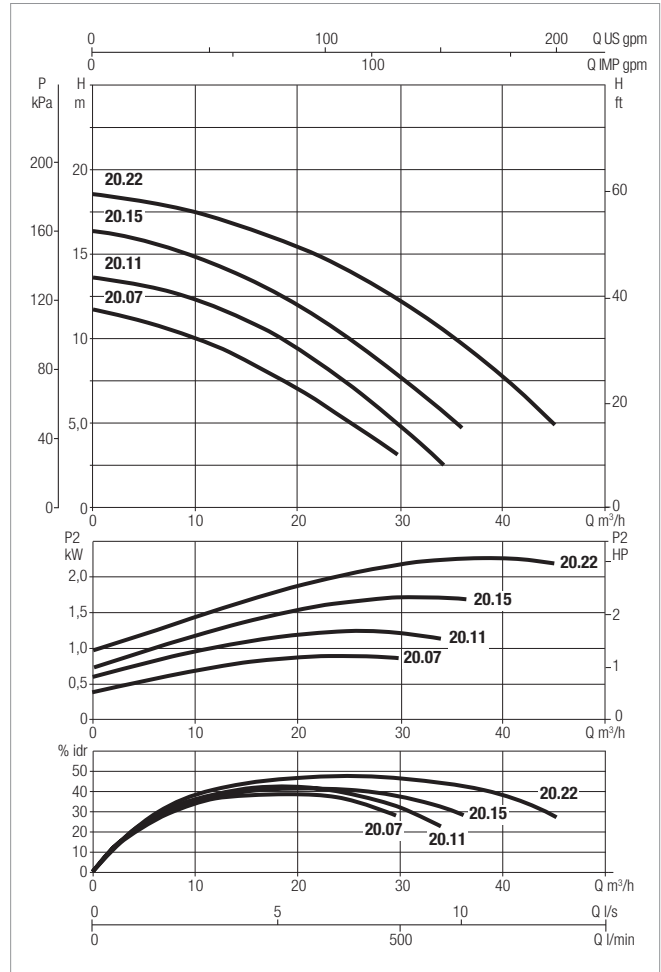
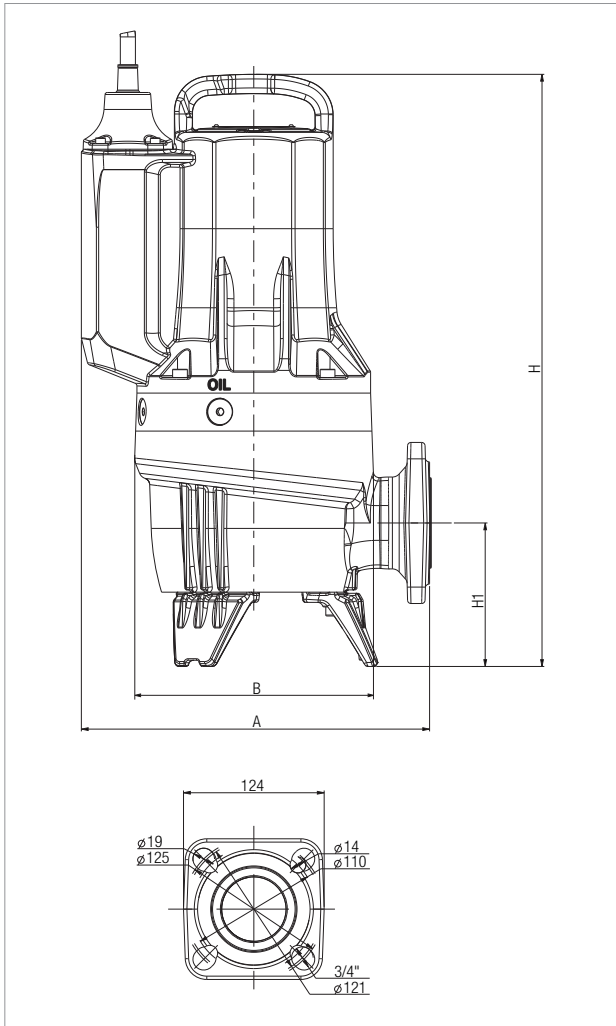


FEKA FX V 20 - 25 SELECTION GUIDE

MODEL	Q=m ³ /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 FX V 20.07	H (m)	11,7	10,9	9,6	7,7	5,4	2,9				
FEKA FX V 20.11		13,1	12,9	11,9	10,1	7,7	4,8				
FEKA FX V 20.15		16,2	15,6	14,4	12,6	10,4	7,7	4,7			
FEKA FX V 20.22		18,5	18,0	17,1	15,9	14,3	12,2	9,7	6,6		
FEKA FX V 25.07		8,8	8,1	7	5,7	4,3	3	1,8			
FEKA FX V 25.11		11,3	10,7	9,6	8,2	6,6	4,9	3,4	2,2		
FEKA FX V 25.15		13,7	13,4	12,4	11,0	9,2	7,4	5,5	3,9	2,5	
FEKA FX V 25.22		16,5	16,3	15,6	14,5	13,0	11,3	9,4	7,5	5,6	3,8
FEKA FX V 25.30		20	19,5	18,9	18,0	16,7	14,8	13	11	8,5	6,8

FEKA FX V 20 - SUBMERSIBLE PUMPS

Pumped liquid temperature range: 0° to +50°C. For higher temperatures, please contact our sales network.



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

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

*Also comes in ATEX version

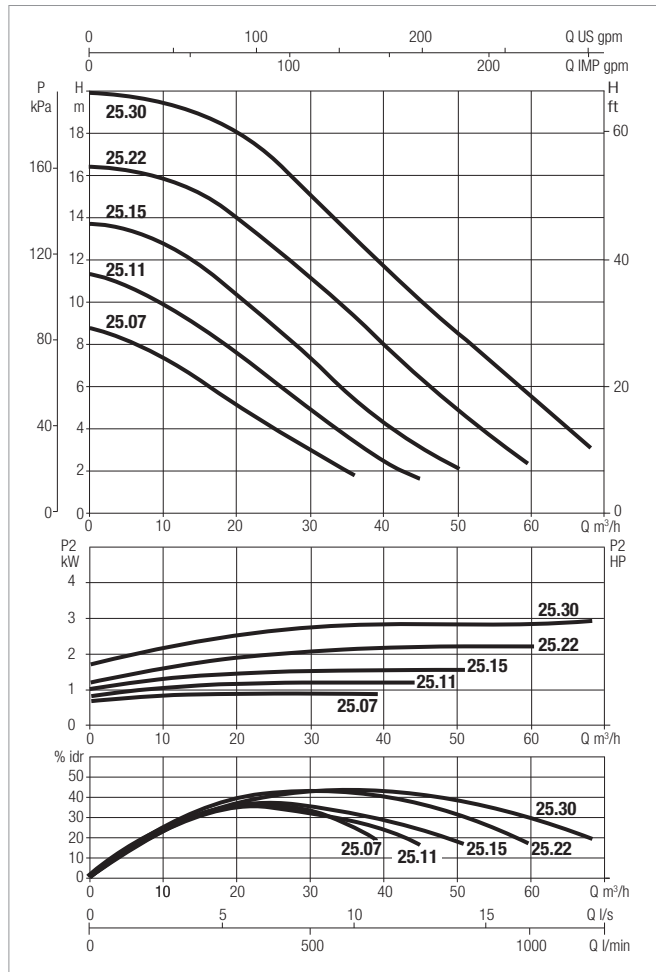
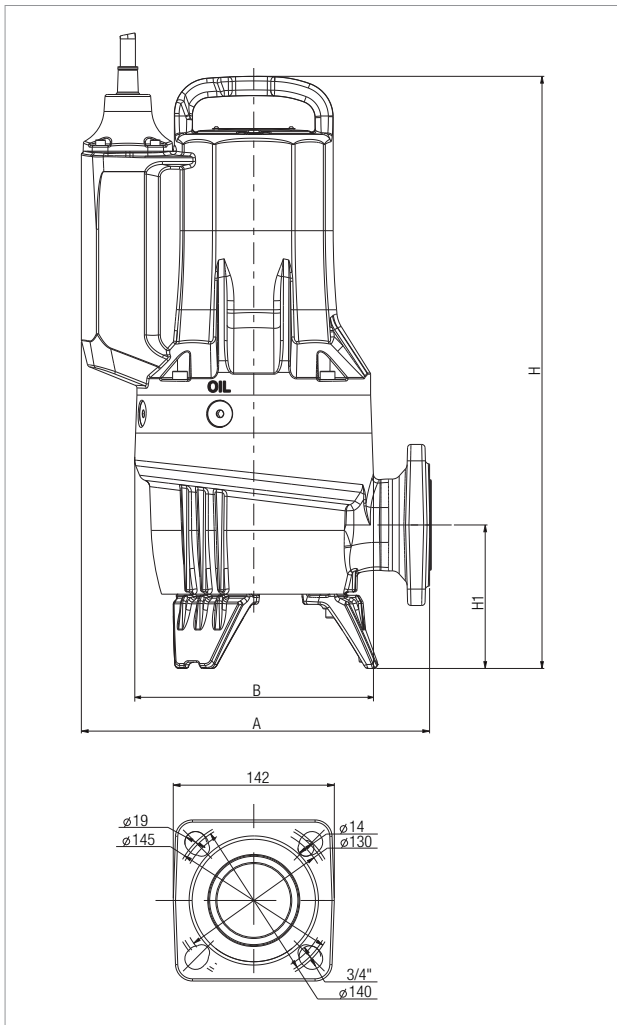
S: Oil sensor

MODEL	FREE PASSAGE (mm)	A	B	H			H1	OUTLET				PACKAGING DIMENSIONS			WEIGHT kg
				MA/MNA	TNA	BSP		DN1	HOLES	D	L/A	L/B	H		
FEKA FX V 20.07*	50	307	211	497	479	104	Rp 2"	50 PN10/6	4	125-110	660	370	400	35	
FEKA FX V 20.11*	50	307	211	497	497	104	Rp 2"	50 PN10/6	4	125-110	660	370	400	35	
FEKA FX V 20.15 MA	50	307	211	525	507	104	Rp 2"	50 PN10/6	4	125-110	660	370	400	39	
FEKA FX V 20.15 MNA-TNA*	50	307	211	525	507	104	Rp 2"	50 PN10/6	4	125-110	660	370	400	39	
FEKA FX V 20.22*	50	307	211	-	525	104	Rp 2"	50 PN10/6	4	125-110	660	370	400	40	

*Also comes in ATEX version

FEKA FX V 25 - SUBMERSIBLE PUMPS

Pumped liquid temperature range: 0° to +50°C. For higher temperatures, please contact our sales network.



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

MODEL	ELECTRICAL DATA							
	POWER SUPPLY 50 Hz	P1 MAX. kW	P2 RATED		In A	Is A	CAPACITOR µF	RATED SPEED rpm
			Kw	HP				
FEKA FX V 25.07 MA	1x230V	1,5	1	1,3	6,6	29	25	2870
FEKA FX V 25.07 MNA*	1x230V	1,5	1	1,3	6,6	29	25	2870
FEKA FX V 25.07 S TNA*	3x400V	1,3	1	1,3	2,3	22	-	2870
FEKA FX V 25.11 MA	1x230V	1,7	1,2	1,6	7,6	29	25	2870
FEKA FX V 25.11 MNA*	1x230V	1,7	1,2	1,6	7,6	29	25	2870
FEKA FX V 25.11 S TNA*	3x400V	1,7	1,2	1,6	3	19	-	2870
FEKA FX V 25.15 MA	1x230V	2,3	1,7	2,3	10,6	36	40	2870
FEKA FX V 25.15 MNA*	1x230V	2,3	1,7	2,3	10,6	36	40	2870
FEKA FX V 25.15 S TNA*	3x400V	2,2	1,7	2,3	4	25	-	2870
FEKA FX V 25.22 S TNA*	3x400V	2,8	2,2	2,9	4,9	35	-	2870
FEKA FX V 25.30 S TNA	3x400V	3,4	3	4	6,8	47,6	-	2870

*Also comes in ATEX version

S: Oil sensor

MODEL	FREE PASSAGE (mm)	A	B	H			H1	OUTLET				PACKAGING DIMENSIONS			WEIGHT kg
				MA/MNA	TNA	H		BSP	DN1	HOLES	D	L/A	L/B	H	
FEKA FX V 25.07*	65	307	211	510	492	124	-	65 PN10/6	4	145-130	660	370	400	36	
FEKA FX V 25.11*	65	307	211	510	510	124	-	65 PN10/6	4	145-130	660	370	400	37	
FEKA FX V 25.15*	65	307	211	540	522	127	-	65 PN10/6	4	145-130	660	370	400	43	
FEKA FX V 25.22*	65	307	211	-	540	127	-	65 PN10/6	4	145-130	660	370	400	41	
FEKA FX V 25.30	65	307	211	-	570	127	-	65 PN10/6	4	145-130	660	370	400	46	

*Also comes in ATEX version



TECHNICAL DATA

Flow rate: from 0 to 84 m³/h

Head: 25 m

Liquid pumped: wastewater, greywater and groundwater

Max. liquid temperature: +50°C (+60°C for short periods)

Free passage: 50 mm

Outlet connection:

FX S 25: DN 65

FX S 30: DN 80

Outlet direction: horizontal

Impeller: non-clog screw-type

Motor protection rating: IP 68

Motor thermal insulation class: F

Power cable: 07RN8-F for three-phase versions

Possible mounting positions: portable placed on ground, fixed on coupling device

Maximum submerged depth: 7 m - with standard 10m cable

Submersible pump designed for lifting and transferring wastewater from drains in residential, institutional, commercial and agricultural settings. Certified to standard EN 12050-1 for wastewater. The non-clog screw impeller has been fine-tuned to deliver excellent hydraulic performance and makes the pump suitable for handling fluids containing solids measuring up to 50 mm in size, ensuring the pump provides consistently reliable service and peace of mind. Pump suitable for fixed installations with a coupling device, or portable installations when placed directly on the bottom of the tank. Design solution chosen for quick maintenance, featuring easy access to the pump's main components.

PUMP DESIGN FEATURES

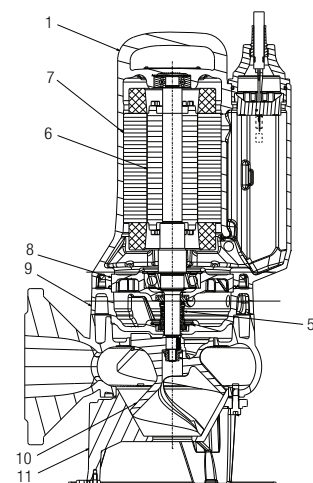
Cast iron screw impeller with non-clog system. Cast iron pump casing. Double SiC-SiC/C-Al mechanical seal running in an oil chamber not in contact with the liquid being pumped. DN 65 or DN 80 flanged outlet.

MOTOR DESIGN FEATURES

Three-phase asynchronous motor. Rotor mounted on long-life lubricated watertight bearings. S1 continuous duty with motor fully submerged. AISI 304 stainless steel motor shaft. Dry run for a maximum of 10 minutes. Overtemperature sensors in motor windings with a trip point of +130°C. Epoxy-sealed cable entry, quick-connect power cable (07RN8-F for three-phase versions). Protection to be provided by the user.

MATERIALS

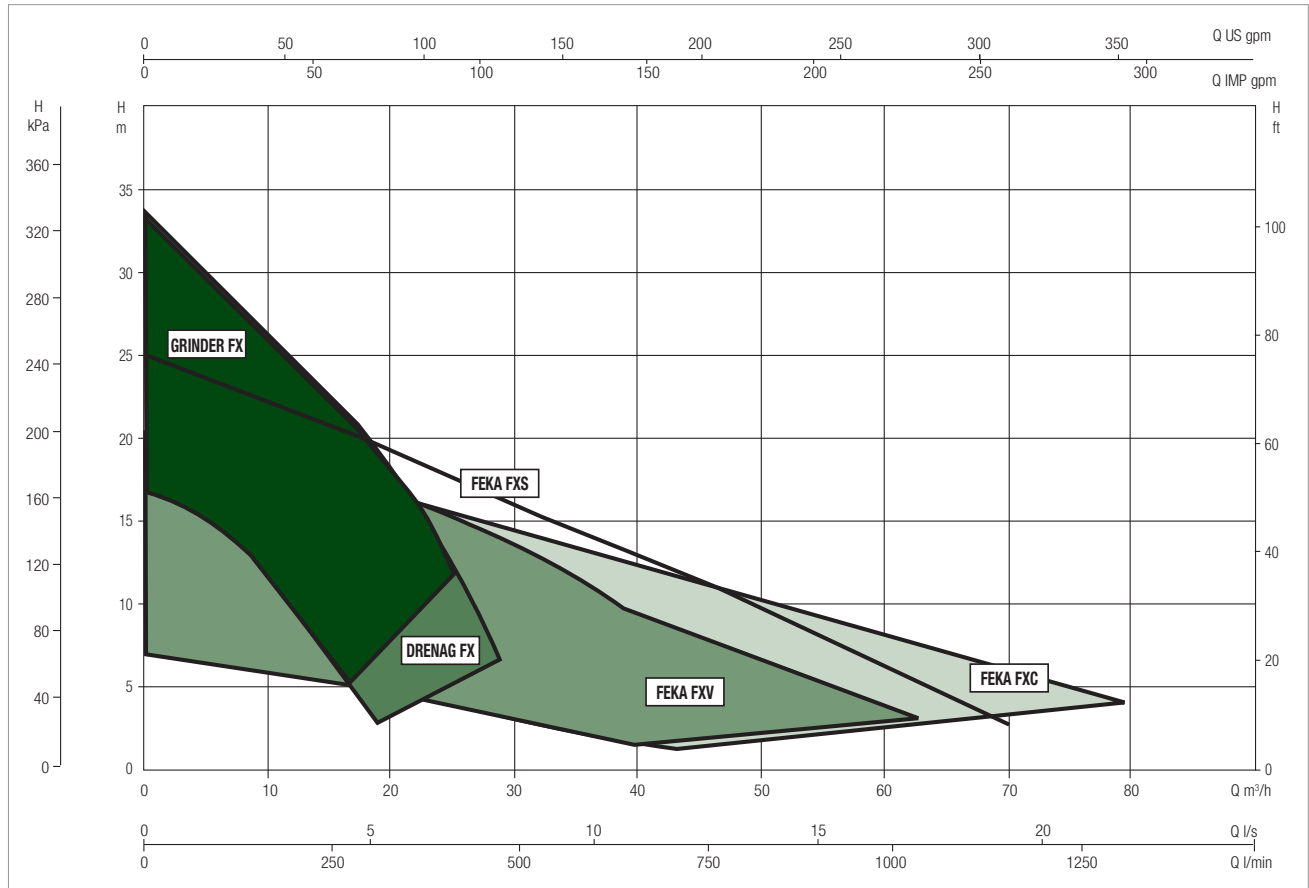
No.	PARTS	MATERIALS
1	HANDLE	CAST IRON EN G.JL 200
2	ELECTRIC CABLE	07RN8-F
3	SCREWS	AISI 304 STEEL
4	OR	NBR
5	COMP. MECH. SEAL PUMP SIDE	SiC-SiC/SiC-C
	COMP. MECH. SEAL MOTOR SIDE	SiC/CARBON
6	MOTOR SHAFT	AISI 304 STEEL (P2>1,5kW)
7	PUMP CASING / MOTOR HOUSING	CAST IRON EN G.JL 200
8	INTERNAL BEARING FLANGE	ALUMINIUM 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
12	COATING	ELECTROPHORETIC and 2-PACK ACRYLIC 50µm



PERFORMANCE RANGE

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

SELECTION GUIDE GRAPH

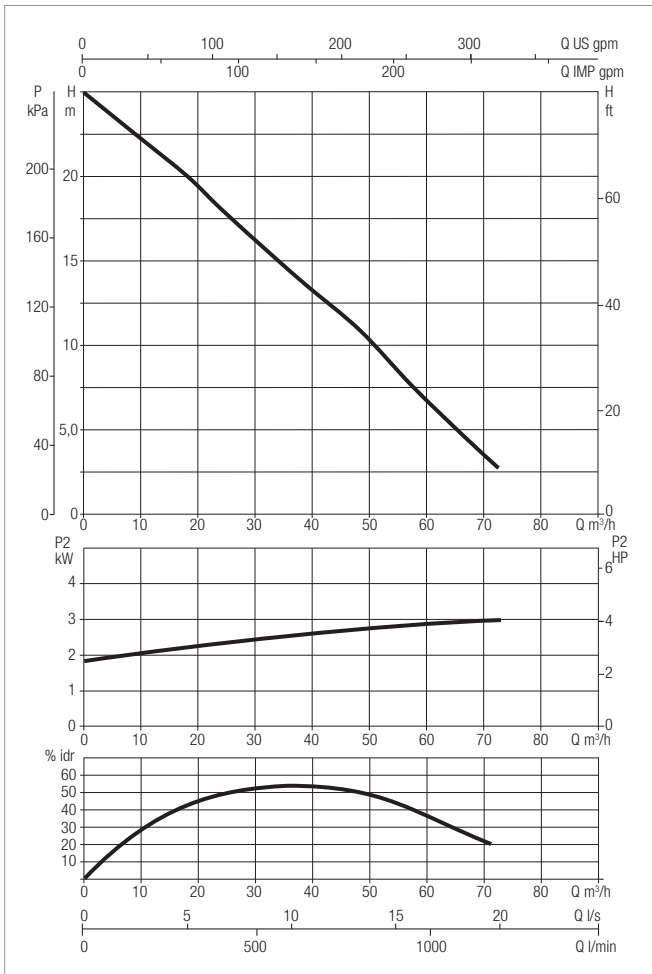
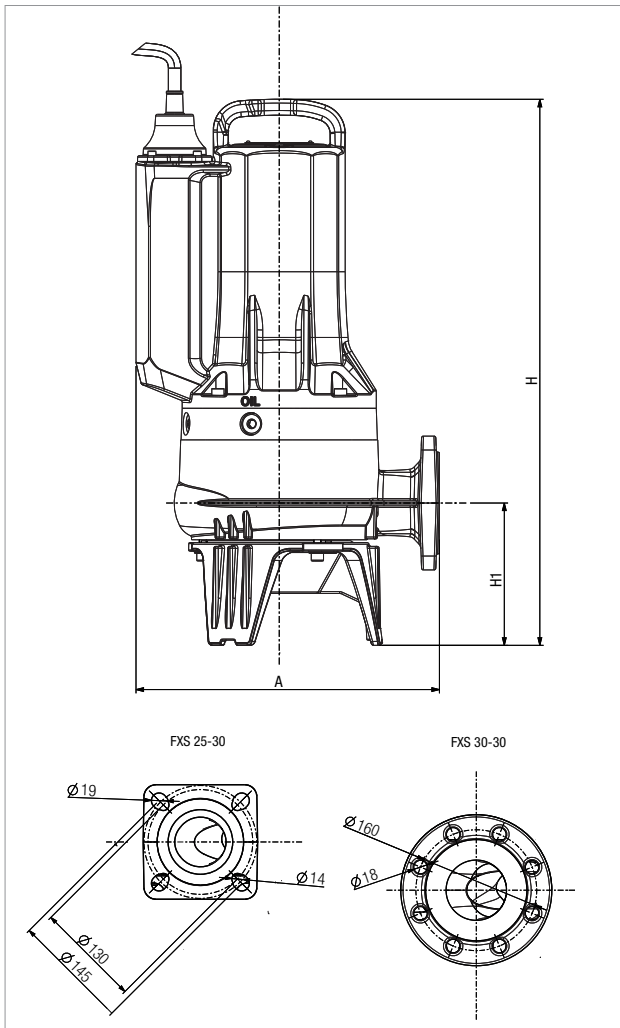


FX S SELECTION GUIDE

MODEL	Q=m ³ /h	0	9	18	24	33	39	48	57	66	72
	Q=l/min	0	150	300	400	550	650	800	950	1100	1200
FEKA FX S 25,30	H	25	22,5	20	18	15,2	13,4	10,8	7,5	4,5	2,6
FEKA FX S 30,30	(m)	25	22,5	20	18	15,2	13,4	10,8	7,5	4,5	2,6

FEKA FX S - SUBMERSIBLE PUMPS

Pumped liquid temperature range: 0° to +50°C. For higher temperatures, please contact our sales network.



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

MODEL	ELECTRICAL DATA							
	POWER SUPPLY 50 Hz	P1 MAX. kW	P2 RATED		I _n A	I _s A	CAPACITOR µF	RATED SPEED rpm
			Kw	HP				
FEKA FX S 25.30 S TNA	3x400V	3,4	3	4	6,8	47,6 A	-	2870
FEKA FX S 30.30 S TNA	3x400V	3,4	3	4	6,8	47,6 A	-	2870

S: Oil sensor

MODEL	FREE PASSAGE (mm)	A	H	H1	OUTLET				PACKAGING DIMENSIONS			WEIGHT kg
					BSP	DN1	HOLES	D	L/A	L/B	H	
FEKA FX S 25.30	50	322	579	151	-	65 PN10 / 6	4	145-130	660	370	400	54
FEKA FX S 30.30	50	341	579	151	-	80 PN10 / 6	8	160	660	370	400	56

GRINDER FX

SUBMERSIBLE PUMPS



TECHNICAL DATA

Liquid pumped: untreated wastewater

Liquid temperature range:

+50°C (+60°C for short periods);

+40°C for ATEX version

Outlet connection:

1 1/2" BSP threaded;

DN 32 and DN 40 flanged

Outlet direction: horizontal and vertical with bend kit accessory

Impeller: cast iron open with shredder

Maximum submerged depth: 7 metres

Possible mounting positions: portable placed on ground, fixed on coupling device

Grinder FX is a submersible drainage pump with shredder designed to handle solids-laden water from drains in residential, institutional and commercial settings. The pump is certified to standard EN 12050-1 for wastewater. Pump suitable for fixed installations with a coupling device, or portable installations when mounted on a base placed directly on the bottom of the tank. With its high-strength shredder, the pump is suitable for systems with small diameter pipework or that require high pressure. Design solution chosen for quick maintenance, featuring easy access to the pump's main components. Automatic versions with an output of up to 1,5 kW. Also comes in an ATEX version for use in potentially explosive atmospheres. (ATEX certifications: II2G Ex db IIB T4 GB).

PUMP DESIGN FEATURES

Cast iron pump casing and impeller; AISI 630 steel shredder. AISI 304 stainless steel motor shaft. Double SiC-SiC/SiC-C mechanical seal running in an oil chamber not in contact with the liquid being pumped, regardless of the direction of rotation. Both flanged and threaded outlet port.

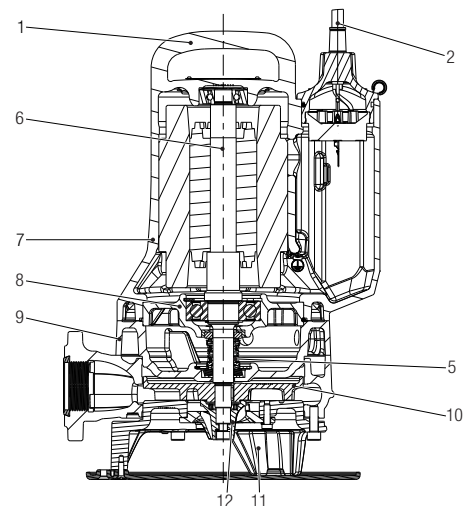
MOTOR DESIGN FEATURES

Single-phase (MA/MNA versions) and three-phase (TNA versions) asynchronous motor. Rotor mounted on long-life lubricated watertight bearings. S1 continuous duty with motor fully submerged. Dry run for a maximum of 10 minutes. Overtemperature sensors in motor windings with a trip point of 130°C. Epoxy-sealed cable entry, quick-connect power cable 07RN8-F. Single-phase versions with run and start capacitor in a separate panel, MA versions with float for automatic operation installed on the pump.

In three-phase motors, it is the installer's job to connect the built-in thermal overload protection.

MATERIALS

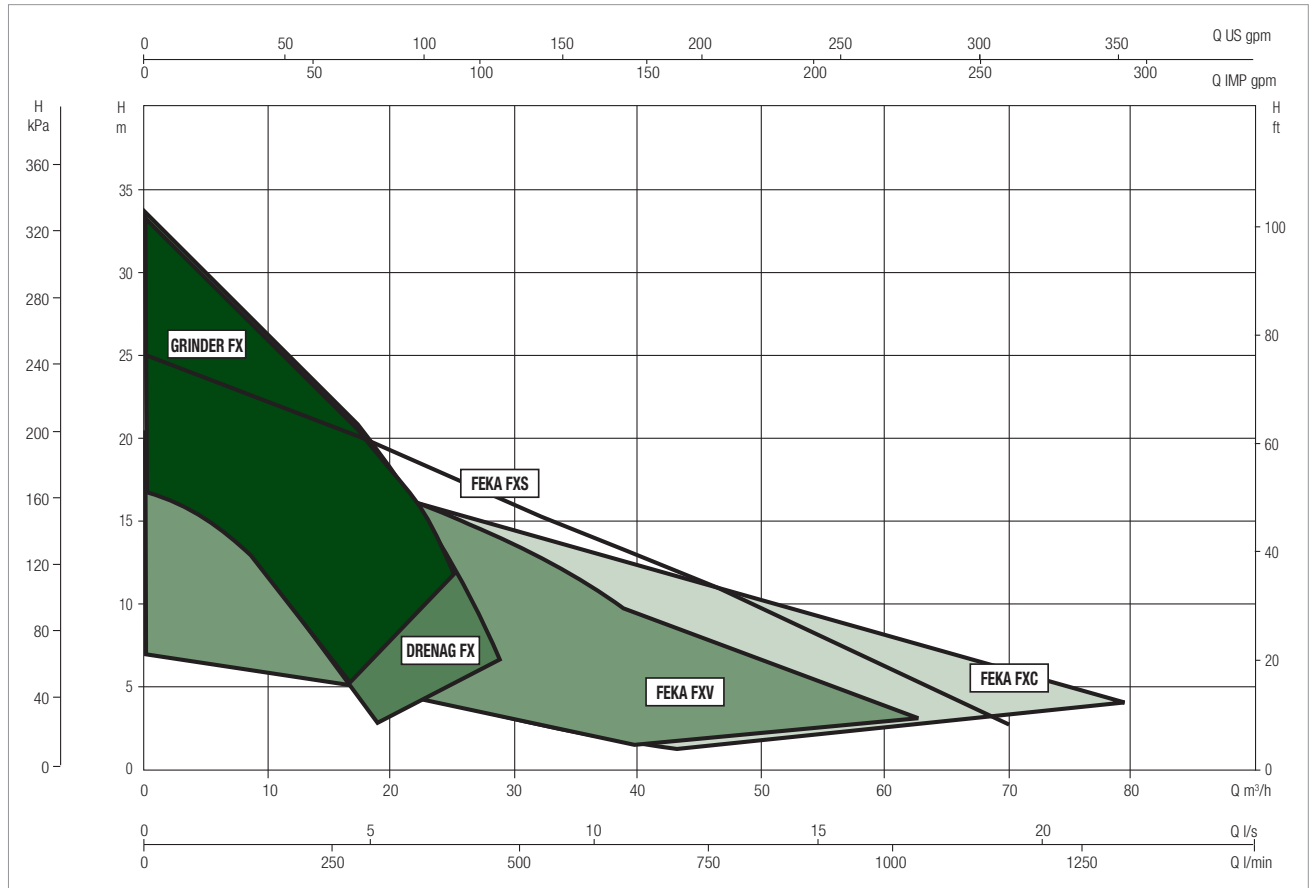
No.	PARTS	MATERIALS
1	HANDLE	CAST IRON EN G.JL 200
2	ELECTRIC CABLE	07RN8-F
3	SCREWS	AISI 304 STEEL
4	OR	NBR
5	COMP. MECH. SEAL PUMP SIDE	SiC-SiC/SiC-C
	COMP. MECH. SEAL MOTOR SIDE	SiC/CARBON
6	MOTOR SHAFT	AISI 304 STEEL (P2>1,5kW)
		AISI 431 (P2<1,2kW)
7	PUMP CASING / MOTOR HOUSING	CAST IRON EN G.JL 200
8	INTERNAL BEARING FLANGE	ALUMINIUM 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
12	KNIFE / KNIFE BASE	STEEL EN 1.4542 / AISI 630
13	COATING	ELECTROPHORETIC and 2-PACK ACRYLIC 50µm



PERFORMANCE RANGE

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

SELECTION GUIDE GRAPH

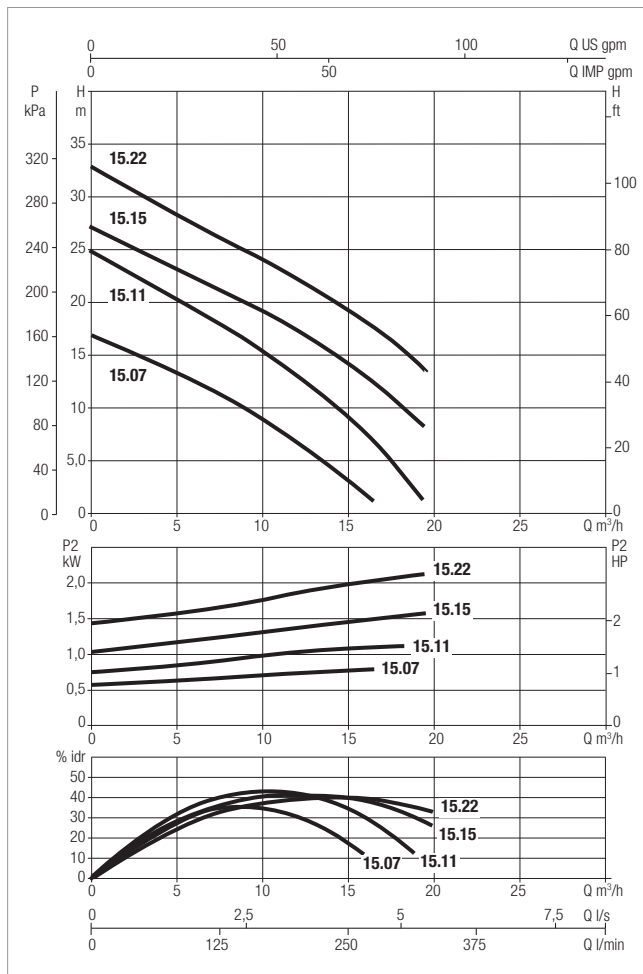
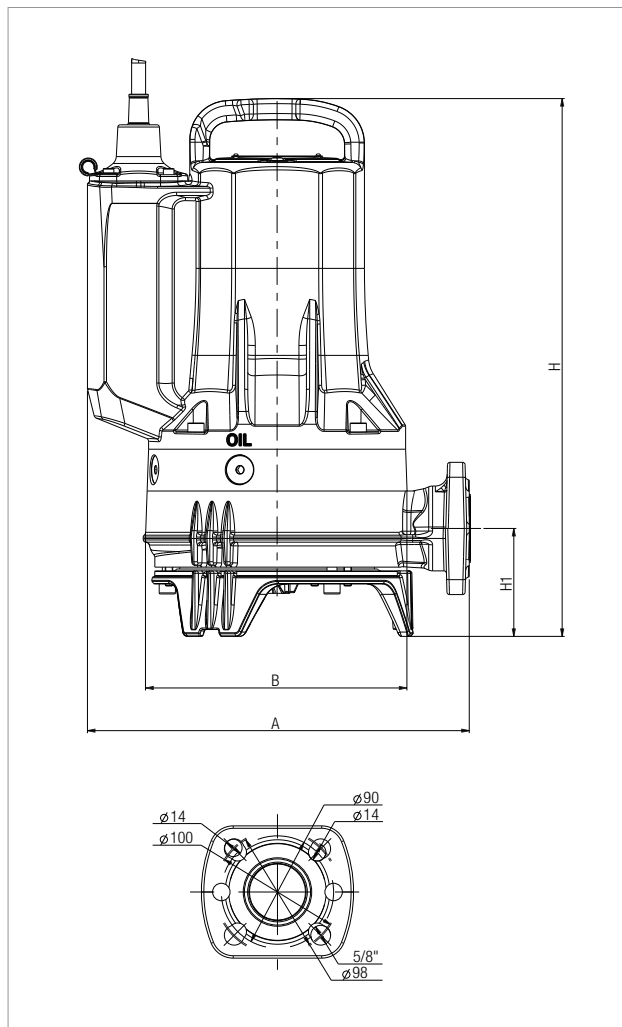


GRINDER FX 15 SELECTION GUIDE

MODEL	Q=m ³ /h	0	2,4	4,8	7,2	9,6	12	14,4	16,8	19,2
	Q=l/min	0	40	80	120	160	200	240	280	320
GRINDER FX 15.07	H (m)	16,9	15,2	13,4	11,4	9,2	6,7	3,9		
GRINDER FX 15.11		24,9	22,6	20,5	18,3	15,9	13,2	10,1	6,3	1,8
GRINDER FX 15.15		27,3	25,2	23,3	21,4	19,5	17,3	14,8	11,9	8,5
GRINDER FX 15.22		32,8	30,5	28,5	26,5	24,4	22,3	19,9	17,2	14,0

GRINDER FX 15 - SUBMERSIBLE PUMPS

Pumped liquid temperature range: 0° to +50°C. For higher temperatures, please contact our sales network.



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

MODEL	ELECTRICAL DATA							
	POWER SUPPLY 50 Hz	P1 MAX. kW	P2 RATED		In A	Is A	CAPACITOR µF	RATED SPEED rpm
			Kw	HP				
GRINDER FX 15.07 MA	1x230V	1,1	0,8	1,1	5,3	29	25+200	2870
GRINDER FX 15.07 MNA*	1x230V	1,1	0,8	1,1	5,3	29	25+200	2870
GRINDER FX 15.07 S TNA*	3x400V	1	0,8	1,1	2	22	-	2870
GRINDER FX 15.11 MA	1x230V	1,5	1,1	1,5	6,8	29	25+200	2870
GRINDER FX 15.11 MNA*	1x230V	1,5	1,1	1,5	6,8	29	25+200	2870
GRINDER FX 15.11 S TNA*	3x400V	1,5	1,1	1,5	2,8	19	-	2870
GRINDER FX 15.15 MA	1x230V	2,2	1,6	2,1	9,8	36	40+100-130 µF	2870
GRINDER FX 15.15 MNA*	1x230V	2,2	1,6	2,1	9,8	36	40+100-130 µF	2870
GRINDER FX 15.15 S TNA*	3x400V	2,1	1,6	2,1	3,8	25	-	2870
GRINDER FX 15.22 S TNA*	3x400V	2,6	2,1	2,8	4,7	35	-	2870

*Also comes in ATEX version S: Oil sensor

MODEL	FREE PASSAGE (mm)	A	B	H			H1	OUTLET				PACKAGING DIMENSIONS			WEIGHT kg
				MA/MNA	TNA	BSP		DN1	HOLES	D	L/A	L/B	H		
GRINDER FX 15.07*	-	306	215	422	404	87	Rp 1" 1/2	DN32 PN10 / 6 DN40 PN6	4 2	100-90 90	660	370	400	35	
GRINDER FX 15.11*	-	306	215	422	422	87	Rp 1" 1/2	DN32 PN10 / 6 DN40 PN6	4 2	100-90 90	660	370	400	35	
GRINDER FX 15.15*	-	306	215	449	431	87	Rp 1" 1/2	DN32 PN10 / 6 DN40 PN6	4 2	100-90 90	660	370	400	38	
GRINDER FX 15.22*	-	306	215	-	449	87	Rp 1" 1/2	DN32 PN10 / 6 DN40 PN6	4 2	100-90 90	660	370	400	39	

*Also comes in ATEX version

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