Franklin Electric

SUBMERSIBLE PUMPS FOR SEWAGE

ED, EG, FWX, FWC, FGX, FGR, FLV SERIES



MENU

Franklin Electric

INDEX

SEWAGE PUMPS 50 HZ

ED Series - Sewage submersible pumps 6
Product identification code 7
General features 7
Materials 9
Dimensions 9
Installation 10

EG Series - Sewage submersible pumps 11
Product identification code 12
General features 12
Hydraulic performance 13
Materials 14
Dimensions 14
Installation 15

WASTEWATER LIFT PUMPS 50 HZ

FWX Series - Submersible Wastewater pumps 18
Product identification code 19
General features 19
40FWX-V-52 20
50FWX-V-52 50 Hz 24

50FWC Series - Submersible Wastewater pumps 28
Product identification code 29
General features 29
50FWC-V-52 30
50FWC-V-54 34
50FWC-M-52 38

65FWC Series - Submersible Wastewater pumps 42
Product identification code 43
General features 43
65FWC-V-52 44
65FWC-V-54 48
65FWC-M-52 52

80FWC Series - Submersible Wastewater pumps 56
Product identification code 57
General features 57
80FWC-V-54 58
80FWC-M-54 62

100FWC Series- Submersible Wastewater pumps 66
Product identification code 67
General features 67
100FWC-M-54 68

Franklin Electric reserves the right to amend specification without prior notice.
For the most up-to-date product information, visit **franklinwater.eu**.

INDEX

PUMPS WITH GRINDER UNIT 50 HZ

FGX Series - Submersible Grinder pumps 74
Product identification code 75
General features 75
40FGX-52 76

50FGR Series - Submersible Grinder pumps 80
Product identification code 81
General features 81
50FGR-52 82

D.C. MOTOR PUMPS 50 HZ

FLV Series - D.C. motor submersible wastewater pumps 88
Product identification code 89
General features 89
40FLV 90

Accessories 94

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You will be redirected to the page of our website where you can find:

- Product page
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- Declarations & certifications
- Technical documentation



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- Service & maintenance
- Technical training



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- Datasheet

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2) Fill in the customer registration form

By scanning the qr code or clicking on the image to access the link!

Sewage pumps 50 Hz

ED Series



EG Series



ED Series – Sewage submersible pumps

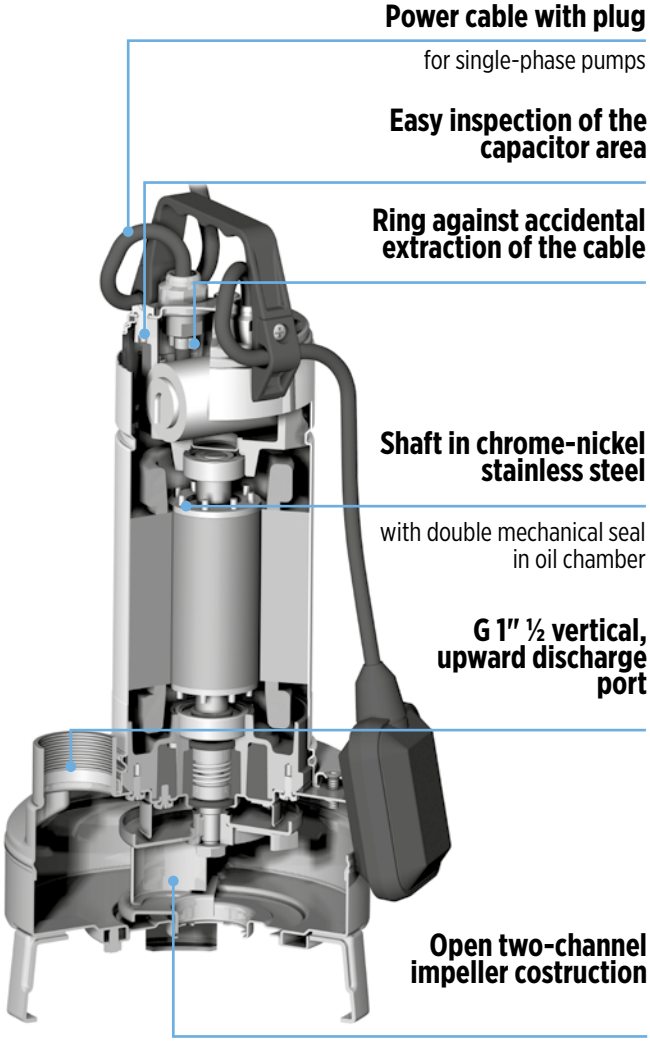
- Suitable for clean and dirty water
- Open two-channel impeller construction, particularly suitable for liquids containing solids up to 35 mm grain size
- All internal and external parts in contact with the pumped liquid are made of AISI 304 stainless steel
- G 1½" vertical upward discharge port, allowing installation in small pits without the need for an elbow on the pump
- Double mechanical seal in oil chamber, separating the motor from the pumped liquid and providing additional protection against accidental dry running
- Dry-winding motor, designed in accordance with: EN 60034-1, EN60335-1, EN 60335-2-41
- Float switch with easy adjustment to set pump start/stop levels
- Polypropylene handle with stainless steel frame

Technical data

- Flow: up to 26 m^3/h
- Total head: up to 13 m
- Motor power: 0.55 - 0.9 kW
- Minimum immersion depth: 248 mm
- Maximum immersion depth: 5 m
- Maximum solids size: 35 mm

RESIDENTIAL

Fully Stainless steel construction



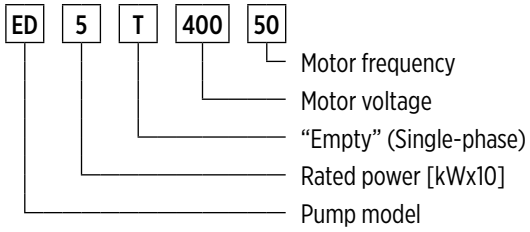
For clean and dirty water, containing solids up to 35 mm grain size

The construction with smooth surfaces in rolled-stainless steel and easy access for cleaning is suitable for certain uses in the food industry

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ED Series - Sewage submersible pumps

PRODUCT IDENTIFICATION CODE



00140020EN 09/2023

GENERAL FEATURES

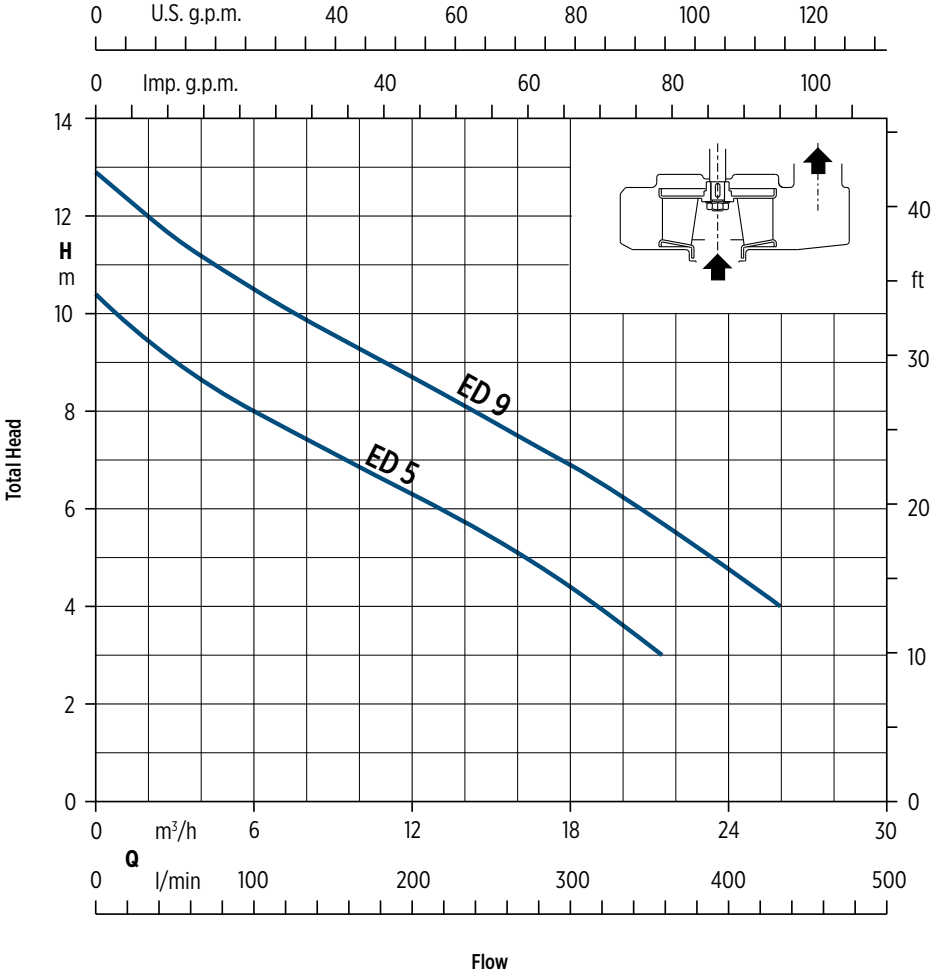
Model	ED
Max. head	up to 13 m
Flow [m³/h]	up to 26 m³/h
Maximum liquid temperature [°C]	up to 35 °C
Minimum immersion depth	248 mm
Maximum immersion depth	5 m
Maximum solids size	35 mm
Power cable	H07RN-F, 3G1 mm², length 10 m (5 m for ED5), with plug Cel-UneL 47166 / Schuko
Motor power [kW]	0.55 - 0.9 kW
Motor type	2-pole induction motor, 50 Hz (n ≈ 2900 rpm)
Motor standard voltage	230 V ± 10 %; with thermal protector
Protections	Insulation class: F Protection: IPX8 (for continuous immersion) Triple impregnation humidity-proof dry winding
Capacitor	Built-in for single phase version
Float switch	Included in single phase version

ED Series - Sewage submersible pumps

HYDRAULIC PERFORMANCE 50 HZ ≈ 2900 1/MIN

Pump model	1x230 V	Capacitor		P_1	P_2		Q = Delivery									
							m^3/h 0	3	6	9	12	15	18	21	24	26
							l/min 0	50	100	150	200	250	300	350	400	433
							US GPM 0	13,2	26,4	39,6	52,8	66,0	79,3	92,5	105,7	114,5
	[A]	[µf]	[Vc]	[kW]	[kW]	[HP]	H = Total meters head of water column [m]									
ED 5	4,6	16	450	1	0,55	0,75	10,4	**9**	**8**	**7,1**	**6,3**	**5,4**	**4,4**	**3,2**	-	-
ED 9	6,6	25	450	1,45	0,9	1,2	12,9	**11,6**	**10,5**	**9,5**	**8,7**	**7,8**	**6,9**	**5,9**	**4,7**	**4**

Application range



00120124 02/2018

ED Series - Sewage submersible pumps

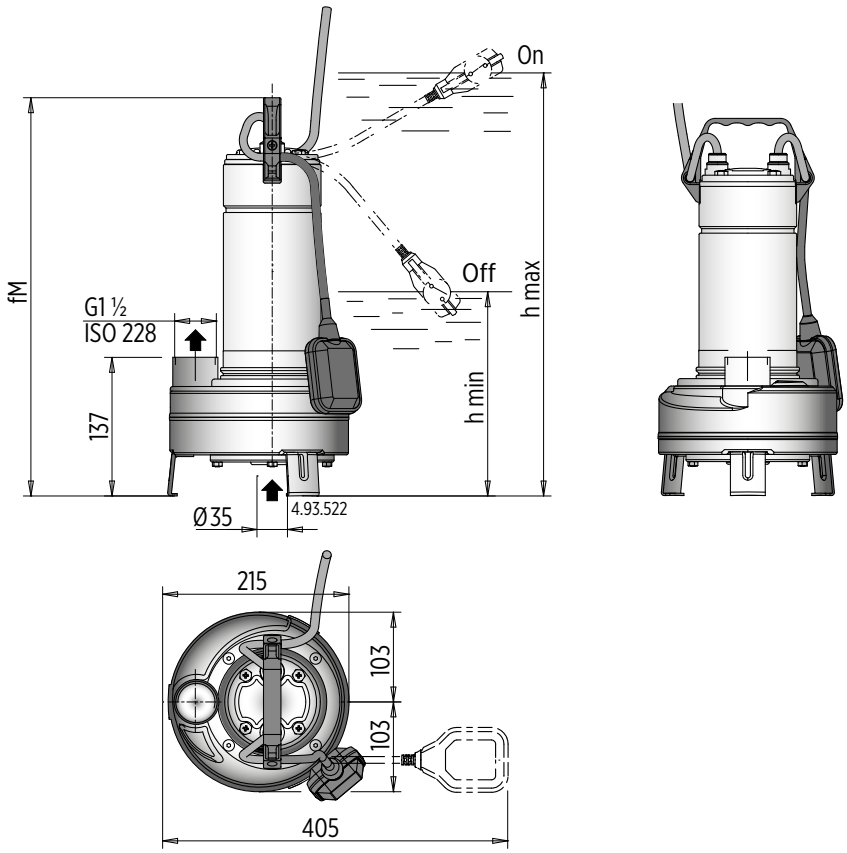
MATERIALS

Parts description	Material	Standard	
		ASTM/AISI	DIN/EN
Pump casing / Impeller Motor jacket / Jacket cover Casing cover / Shaft	Chrome-nickel steel	AISI 304	1.4301 / EN 10088
Handle	Polypropylene (with frame in AISI 304)	-	-
Upper mechancal seal / Lower mechanical seal	Ceramic alumina / Carbon / NBR	-	-
Seal lubrification oil	Oil for food / Pharmaceutical machinery	-	-

DIMENSIONS

Pump model	Dimensions [mm]			Pump weight [Kg]	
	fM	h max	h min	Single-phase	Three-phase
ED 5	433	508	248	12	10.3
ED 9	458	533	273	14	12.5

DIMENSIONAL DRAWINGS

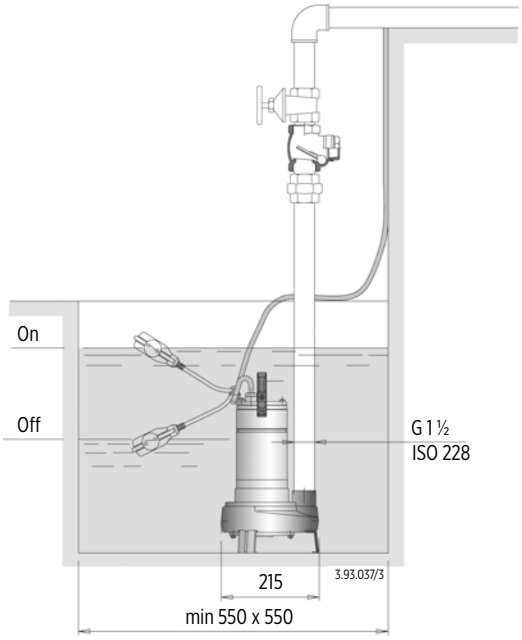


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ED Series – Sewage submersible pumps

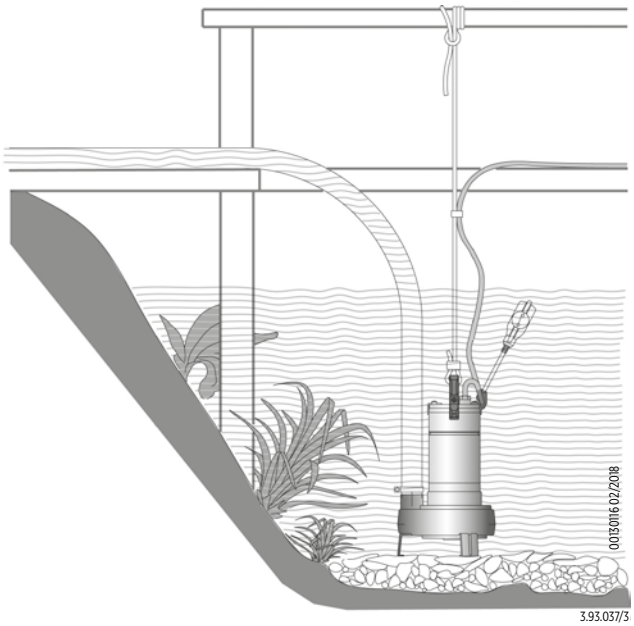
INSTALLATION

Stationary installation



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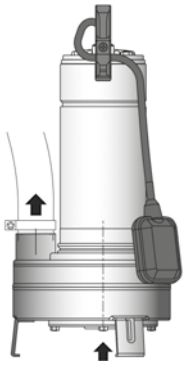
Transportable installation



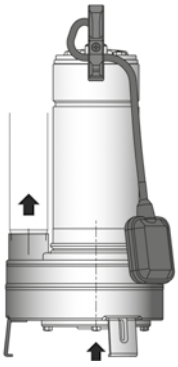
0013016 02/2018

3.93.037/3

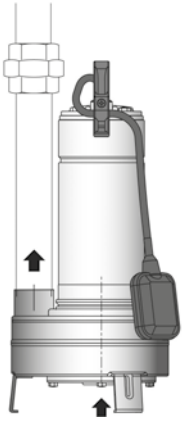
Connection examples



Pump with hosetail seat and clamp (locally available)



Pump with pipe screwed into the delivery port



Pump with pipe and union (locally available)

0013017EN 02/2018

EG Series – Sewage submersible pumps

- Suitable for clean and dirty water
- Free-flow (Vortex) impeller, particularly suitable for liquids containing solids up to 50 mm grain size
- Cast iron pump casing and impeller with epoxy cataphoresis coating for enhanced corrosion protection
- Discharge port:
  - EGT: G 2" vertical upward discharge port, allowing installation in small pits without the need for an elbow on the pump
  - EGF: DN 50 horizontal discharge port
- Double shaft seal with oil chamber, separating the motor from the pumped liquid and providing additional protection against accidental dry running
- Float switch with easy adjustment to set pump start/stop levels
- Relief valve: the pump is equipped with a relief valve for air release around the impeller, ensuring proper pump priming even after long standstill periods
- Maximum connection flexibility:
  - DN50 flange
  - PN 10 – EN 1092-2
  - 4 × M8 holes on Ø 90 for duck foot coupling SA-G2"
- G 2" threaded connection – ISO 228
- Polypropylene handle with frame in stainless steel

Technical data

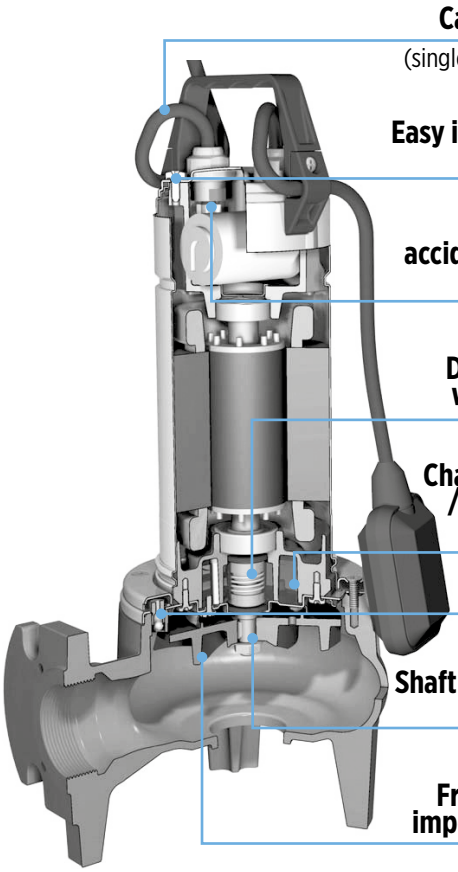
- Flow: up to 33 m^3/h
- Head: up to 15 m
- Motor power: 0.75 - 1.5 kW
- Minimum immersion depth: 275 mm
- Maximum immersion depth: 5 m
- Maximum solids size: 50 mm

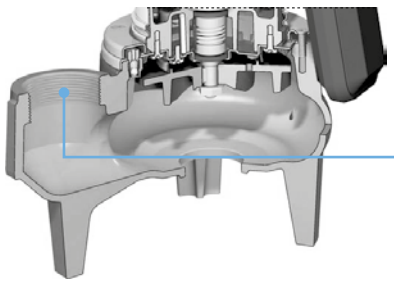
OPTIONS

- Silicon carbide mechanical seal version

RESIDENTIAL

Pump casing and impeller with epoxy cataphoresis coating





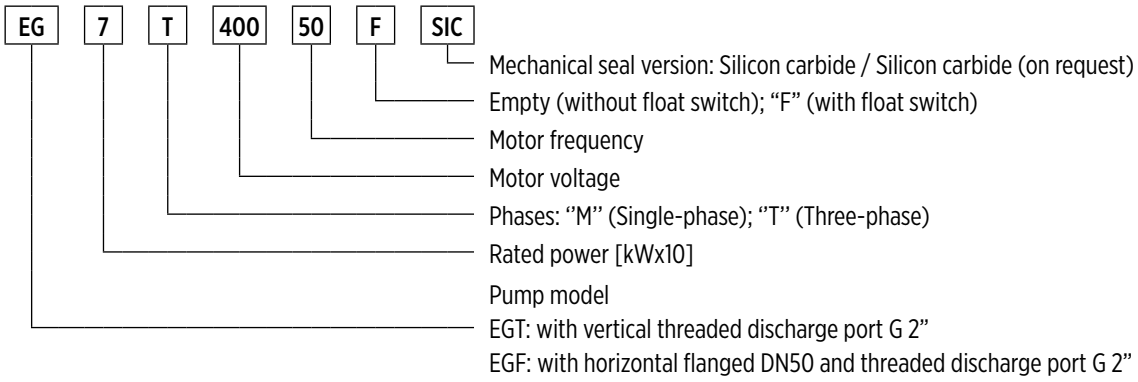
Draining rooms, tank drainage

Extraction of water from ponds, streams or pits and for rainwater collection

Domestic or industrial waste water, dirty water containing solids up to 50 mm grain size, for liquids which are compatible with the pump materials

EG Series – Sewage submersible pumps

PRODUCT IDENTIFICATION CODE



00140022EN 02/2018

GENERAL FEATURES

Model		EGT	EGF
Max. head		up to 15 m	
Flow [m³/h]		up to 33 m³/h	
Maximum liquid temperature [°C]		up to 35 °C	
Minimum immersion depth		275 mm	
Maximum immersion depth		5 m	
Maximum solids size		50 mm	
Power cable	**Single-phase**	H07RN-F, 3G1 mm², length 10 m, with plug CeI-UneL 47166	
	Three-phase	H07RN-F, 4G1 mm², length 10 m, without plug	
Motor power [kW]		0.75 - 1.5 kW	
Motor type		2-pole induction motor, 50 Hz (n ≈ 2900 rpm)	
Motor standard voltage	**Single-phase**	230 V ± 10 %; with thermal protector	
	Three-phase	400 V ± 10 %	
Protections		Insulation class: F Protection: IPX8 (for continuous immersion) Triple impregnation humidity-proof dry winding	
Capacitor		Built-in for single phase version	
Float switch		Included in single phase version	

EG Series – Sewage submersible pumps

HYDRAULIC PERFORMANCE 50 HZ ≈ 2900 1/MIN

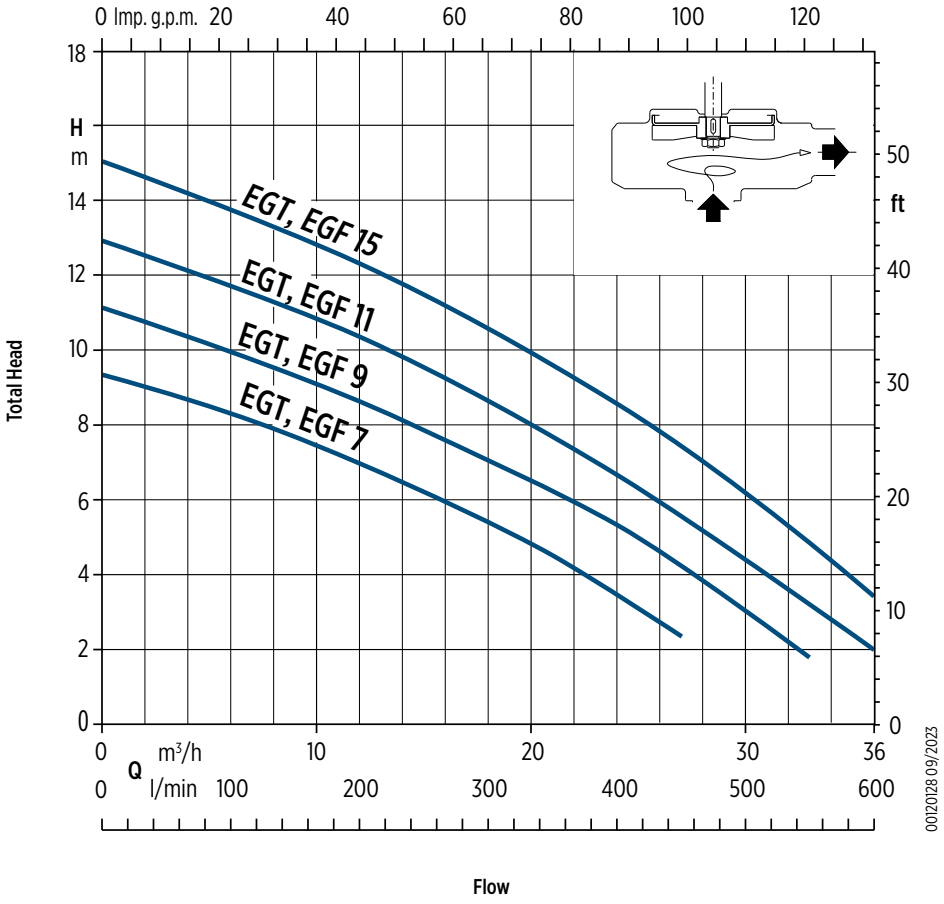
Single-phase version																		
Pump model	1x230 V	Capacitor		P_1	P_2		Q = Delivery											
							m^3/h 0	3	6	9	12	15	18	21	24	27	30	33
							l/min 0	50	100	150	200	250	300	350	400	450	500	550
							US GPM 0	13,2	26,4	39,6	52,8	66,0	79,3	92,5	105,7	11,9	132,0	145,3
	[A]	[µf]	[Vc]	[kW]	[kW]	[HP]	H = Total meters head of water column [m]											
EGT/F 7	4,8	16	450	1,1	0,75	1	9,3	**8,8**	**8,3**	**7,7**	**7**	**6,2**	**5,3**	**4,3**	**3,2**	**2,2**	**-**	**-**
EGT/F 9	6,6	25	450	1,45	0,9	1,2	11	**10,5**	**10**	**9,3**	**8,6**	**7,8**	**7**	**6,2**	**5,2**	**4,2**	**1,8**	**-**
EGT/F 11	8,4	30	450	1,8	1,1	1,5	12,8	**12,2**	**11,6**	**11**	**10,3**	**9,5**	**8,6**	**7,7**	**6,7**	**5,7**	**3,3**	**2**
EGT/F 15	12	35	450	2,2	1,5	2	15	**14,4**	**13,7**	**13**	**12,2**	**11,3**	**10,4**	**9,5**	**8,5**	**7,4**	**4,5**	**3,5**

Application range

Three-phase version																	
Pump model	3x230 V	3x400 V	P_1	P_2		Q = Delivery											
						m^3/h 0	3	6	9	12	15	18	21	24	27	30	33
						l/min 0	50	100	150	200	250	300	350	400	450	500	550
						US GPM 0	13,2	26,4	39,6	52,8	66,0	79,3	92,5	105,7	11,9	132,0	145,3
	[A]	[A]	[kW]	[kW]	[HP]	H = Total meters head of water column [m]											
EGT/F 7 T	3,1	1,8	1,1	0,75	1	9,3	**8,8**	**8,3**	**7,7**	**7**	**6,2**	**5,3**	**4,3**	**3,2**	**2,2**	**-**	**-**
EGT/F 9 T	4	2,3	1,45	0,9	1,2	11	**10,5**	**10**	**9,3**	**8,6**	**7,8**	**7**	**6,2**	**5,2**	**4,2**	**1,8**	**-**
EGT/F 11 T	5,2	3	1,8	1,1	1,5	12,8	**12,2**	**11,6**	**11**	**10,3**	**9,5**	**8,6**	**7,7**	**6,7**	**5,7**	**3,3**	**2**
EGT/F 15 T	6,9	4	2,2	1,5	2	15	**14,4**	**13,7**	**13**	**12,2**	**11,3**	**10,4**	**9,5**	**8,5**	**7,4**	**4,5**	**3,5**

Application range

P_1: Max absorbed power P_2: Motor nominal power Density ρ = 1000 Kg/m^3 Viscosity kinematic v = max 20 mm^2/sec



EG Series – Sewage submersible pumps

MATERIALS

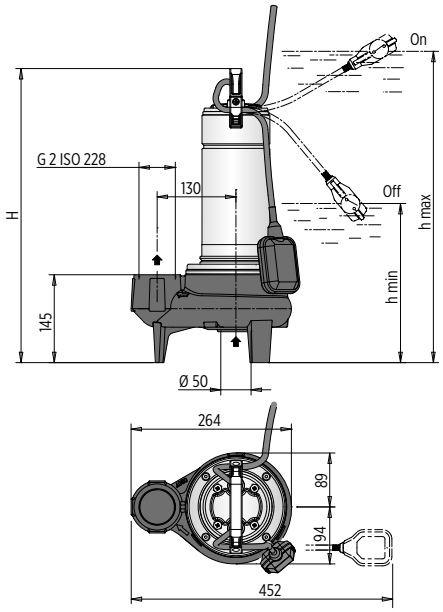
Parts description	Material	Standard	
		ASTM/AISI	DIN/EN
Pump casing / Impeller	Cast iron GJL 200	-	EN 1561
Strainer / Motor jacket / Jacket cover Casing cover / Shaft	Chrome-nickel steel	AISI 304	1.4301 / EN 10088
Handle	Polypropylene (with frame in AISI 304)	-	-
Upper mechancal seal / Lower mechanical seal	Ceramic alumina / Carbon / NBR	-	-
Seal lubrification oil	Oil for food / Pharmaceutical machinery	-	-

DIMENSIONS

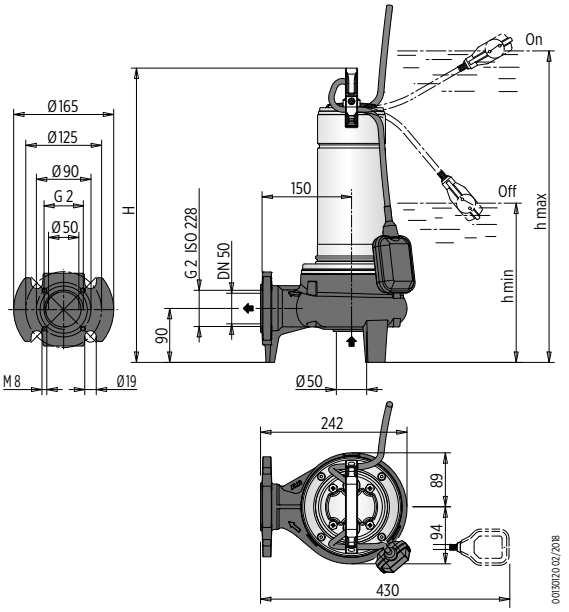
Pump model	Dimensions [mm]			Pump weight [Kg]	
	H	h max	h min	Single-phase	Three-phase
EGT 7 (T)	460	535	275	16	15
EGT 9 (T)	485	560	300	17.8	15.8
EGT 11 (T)	505	580	320	20.3	18.8
EGT 15 T	505	580	320	-	20.3
EGT 15	535	610	350	21.8	-

DIMENSIONAL DRAWINGS

EGT



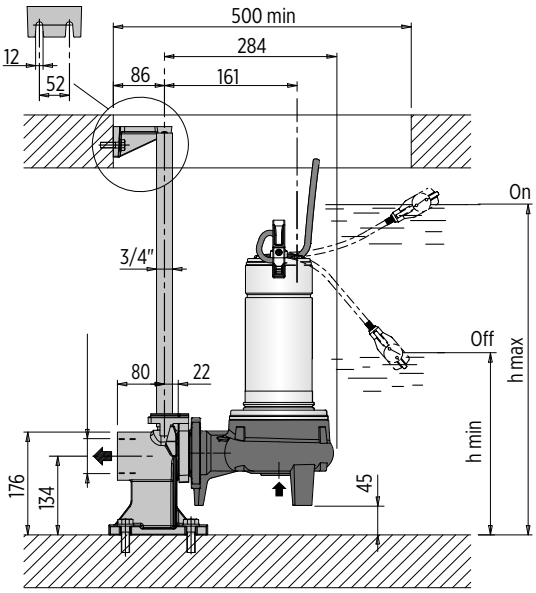
EGF

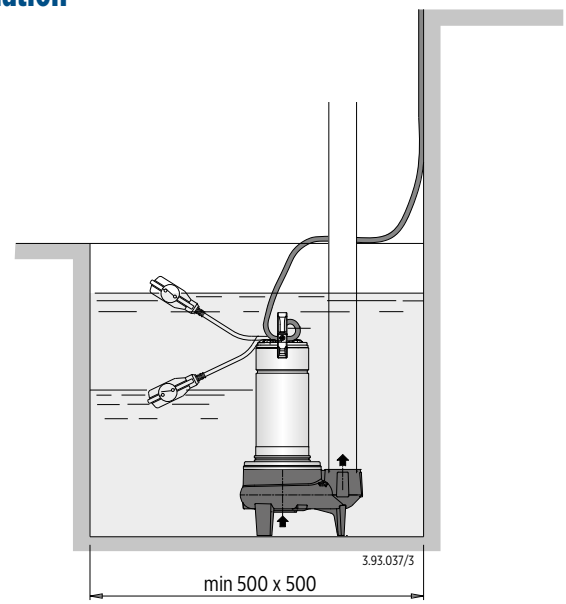


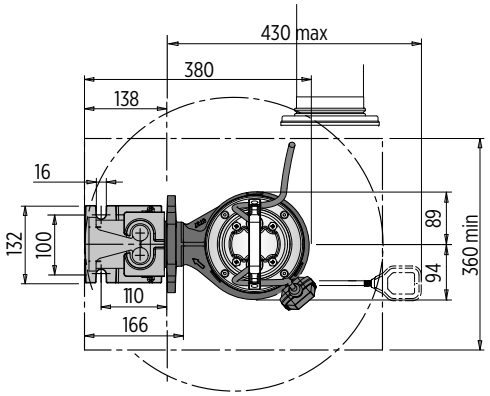
EG Series – Sewage submersible pumps

INSTALLATION

Stationary installation





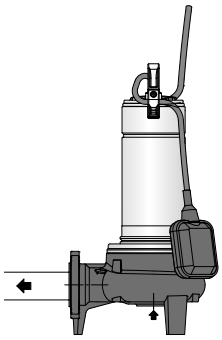


EGT		
Pump model	Dimensions [mm]	
	h max	h min
EGT 7 (T)	535	275
EGT 9 (T)	560	300
EGT 11 (T)	580	320
EGT 15 T	580	320
EGT 15	610	350

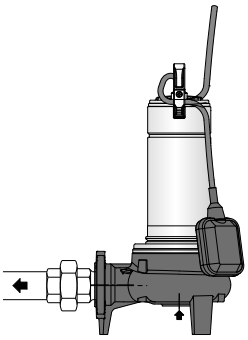
EGF		
Pump model	Dimensions [mm]	
	h max	h min
EGF 7 (T)	535	275
EGF 9 (T)	560	300
EGF 11 (T)	580	320
EGF 15 T	580	320
EGF 15	610	350

00130021 02/2018

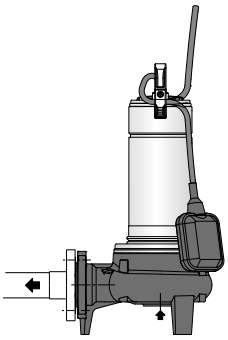
Connection examples



Pump with threaded ports:
pipes screwed into the ports



Pump with threaded ports:
pipes with union couplings (locally available)



Pump with DN50 flanged ports:
pipes with counter-flanges

00130122EN 02/2018

Wastewater lift pumps 50 Hz

FWX Series

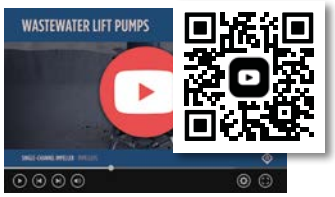


FWC Series



Everything you need
is your smartphone!





YouTube video

FWX Series – Submersible Wastewater pumps

RESIDENTIAL

- Pump models:
  - 40FWX-V-52 (discharge Ø 40 mm)
  - 50FWX-V-52 (discharge Ø 50 mm)
- Vortex impeller (V)
- Available with or without adjustable float switch
- Double mechanical seal in oil chamber (pump side SiC/SiC)
- Dry chamber motor
- Cast iron components with cataphoresis coating for increased corrosion resistance
- Wide free passage to reduce the risk of clogging
- Quick connectors for easy maintenance
- Control box with thermal protection required for three-phase motors
- Single-phase version
- Vertical threaded discharge port or horizontal flange
- Stainless steel handle

Technical data

- Flow: up to 36 m^3/h
- Total Head: up to 12 m
- Motor power: 0.4 - 1.1 kW
- Minimum immersion depth:
  - 317 mm (40FWX)
  - 383 mm (50FWX)
- Maximum immersion depth: 5 m
- Free passage:
  - 35 mm (40FWX)
  - 50 mm (50FWX)

ACCESSORIES

- Hose connection
- Hose connection elbow
- Threaded elbow
- Threaded flange kit
- Storz coupling
- Coupling system
- Chain AISI316
- Shackle AISI316
- For more information about accessories see p. 94



Stainless Steel motor

Cable length 10 m
(single-phase pumps with plug)

Quick connectors
for an easy maintenance

Dry chamber motor
for fast and easy maintenance

Motor connection without tie bolds

Double mechanical seal
(pump side SiC/SiC)

Cast iron components with cataphoresis coating
for enhanced corrosion resistance

Increased free passage
to reduce the risk of clogging



Vertical threaded discharge
(50FWX)



Vortex impeller (V)

Pumping of clear non-loaded fluids

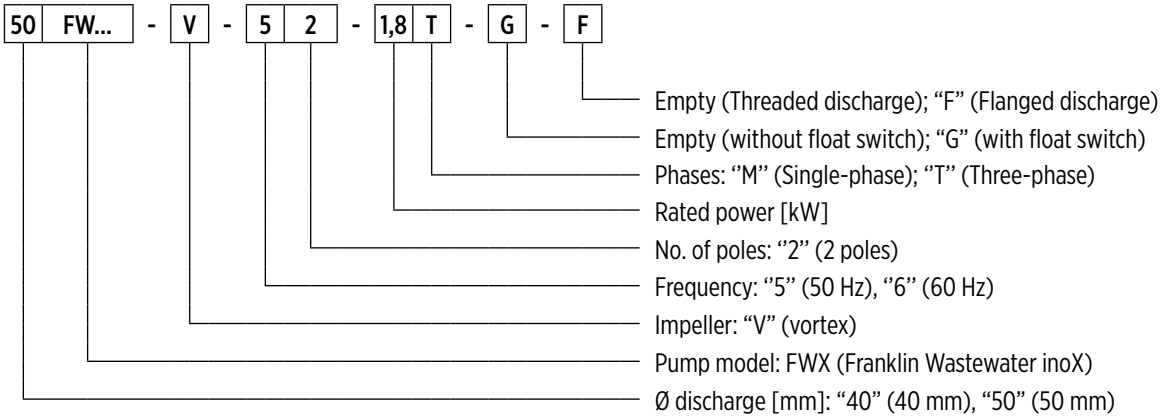
Extraction of water from ponds, streams or pits and for rainwater collection

Wastewater

Drainage of flooded premises

FWX Series – Submersible Wastewater pumps

PRODUCT IDENTIFICATION CODE



00140110 03/2026

GENERAL FEATURES

Materials/Constr.design		
Impeller		Cast iron EN GJL200
External casing		Stainless steel AISI304
Pump body		Cast iron EN GJL200 with cataphoresis coating
Cover		Cast iron EN GJL200 with cataphoresis coating
Mechanical seal	**motor side**	Graphite/Ceramic
	pump side	Silicon carbide (SiC/SiC)
Motor shaft		Stainless steel AISI416
Power cable	**Type**	10 m H07RN8-F
	Single-phase	3G1mm² with SCHUKO plug (CEE 7/VII)
	Three-phase	4G1 mm²
Motor		
Constr.design		asynchronous squirrel cage-type in dry chamber
Type		2 poles; 50 Hz
Insulation class		F
Protection degree		IP68
Voltage	**Single-phase**	230 V ±6% built-in overheating protection, built in capacitor
	Three-phase	230V ±10%, 400V ±10%
Operating limits		
Maximum liquid temperature		+40 °C
pH of pumped liquid		6- 10
Liquid density		1,0 kg/dm³
Maximum immersion depth		5 m
Min. immersion depth for continuous service	**40FWX-V-52**	317 mm
	50FWX-V-52	383 mm
Free passage	**40FWX-V-52**	35 mm
	50FWX-V-52	50 mm
Max. number of starting/hour		20
Construction options		

- 60 Hz version
- Different voltages
- Food-grade white oil
- External capacitor with 4G1mm² cable

40FWX-V-52

HYDRAULIC PERFORMANCE 50 HZ

Pump model	Q = Delivery												
	l/sec 0	0,5	1,0	1,5	2,0	2,5	3,0	3,5	4,0	4,5	5,0	5,5	6,0
	m^3/h 0	1,8	3,6	5,4	7,2	9,0	10,8	12,6	14,4	16,2	18,0	19,8	21,6
	US gpm 0	7,9	15,8	23,7	31,7	39,6	47,5	55,5	63,4	71,3	79,2	87,2	95,1
	H = Total meters head of water column [m]												
40FWX-V-52-0,4	6,9	**6,3**	**5,9**	**5,2**	**4,7**	**4,2**	**3,6**	**3,1**	**2,5**	**1,9**			
40FWX-V-52-0,6	8,1	**7,6**	**7**	**6,5**	**6**	**5,3**	**4,7**	**4,1**	**3,4**	**2,7**	**2,1**		
40FWX-V-52-0,7	9,3	**8,9**	**8,4**	**7,8**	**7,3**	**6,6**	**6**	**5,5**	**4,8**	**4,2**	**3,5**	**2,7**	**1,9**

Application range

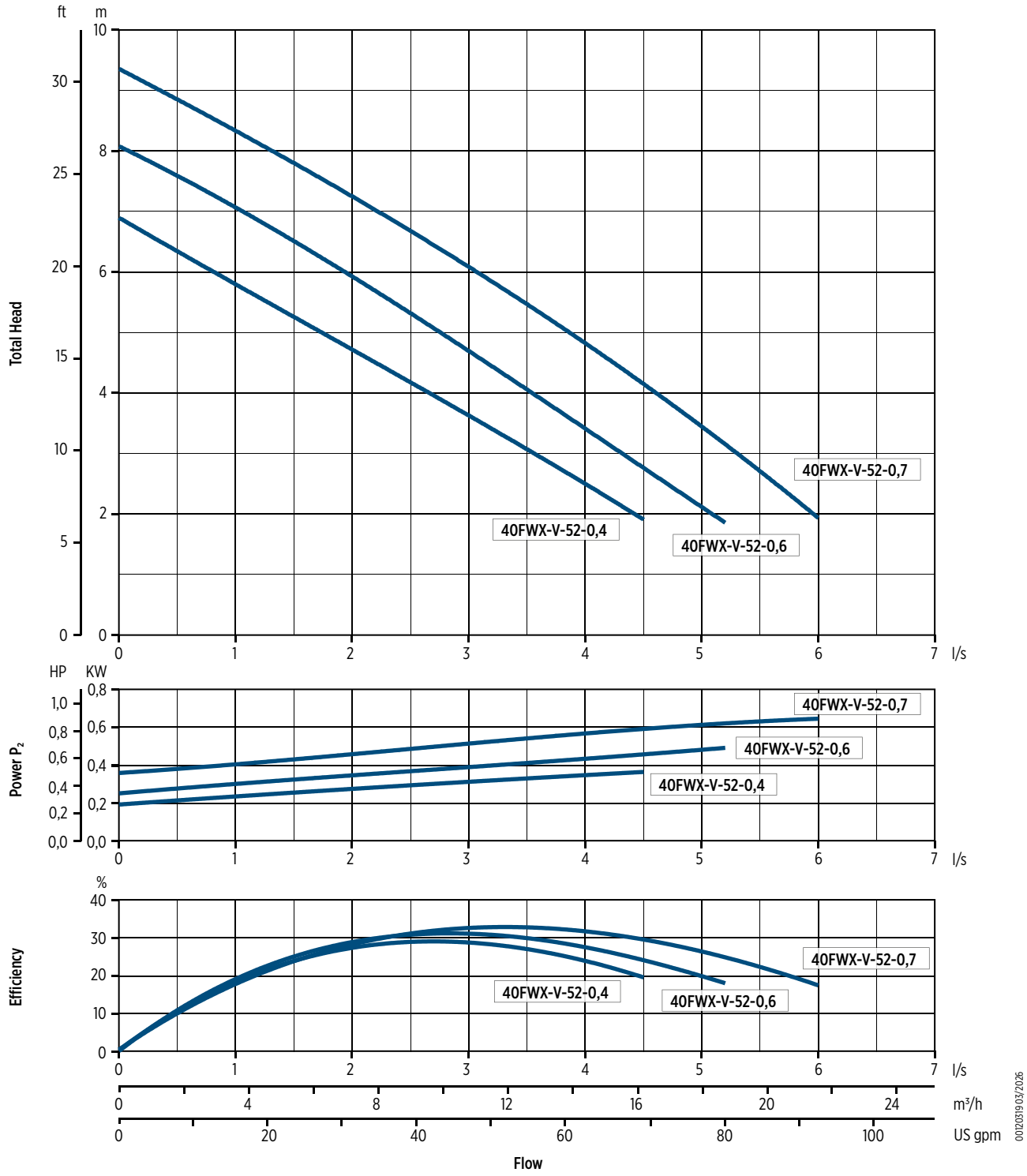
TECHNICAL DATA

Pump model	Motor absorbed power P_1	Rated power P_2		Voltage	Rated current	Phases	Power cable		Float switch	Starting capacitor	Discharge port	Weight [kg]
	[kW]	[kW]	[HP]	[V]	[A]		Length [m]	Type		[µF]		
40FWX-V-52-0,4M	0,6	0,4	0,5	230	2,9	1 ~	10	3G1	-	10	G1½	14,3
40FWX-V-52-0,4M-G	0,6	0,4	0,5	230	2,9	1 ~	10	3G1	•	10	G1½	14,3
40FWX-V-52-0,6M	0,75	0,6	0,8	230	3,5	1 ~	10	3G1	-	10	G1½	14,3
40FWX-V-52-0,6M-G	0,75	0,6	0,8	230	3,5	1 ~	10	3G1	•	10	G1½	14,3
40FWX-V-52-0,7M	0,94	0,7	0,95	230	4,4	1 ~	10	3G1	-	16	G1½	15,5
40FWX-V-52-0,7M-G	0,94	0,7	0,95	230	4,4	1 ~	10	3G1	•	16	G1½	15,5
40FWX-V-52-0,7T	0,94	0,7	0,95	400	1,7	3 ~	10	4G1	-	-	G1½	15,5
40FWX-V-52-0,7T-G	0,94	0,7	0,95	400	1,7	3 ~	10	4G1	•	-	G1½	15,5

"-" = not available
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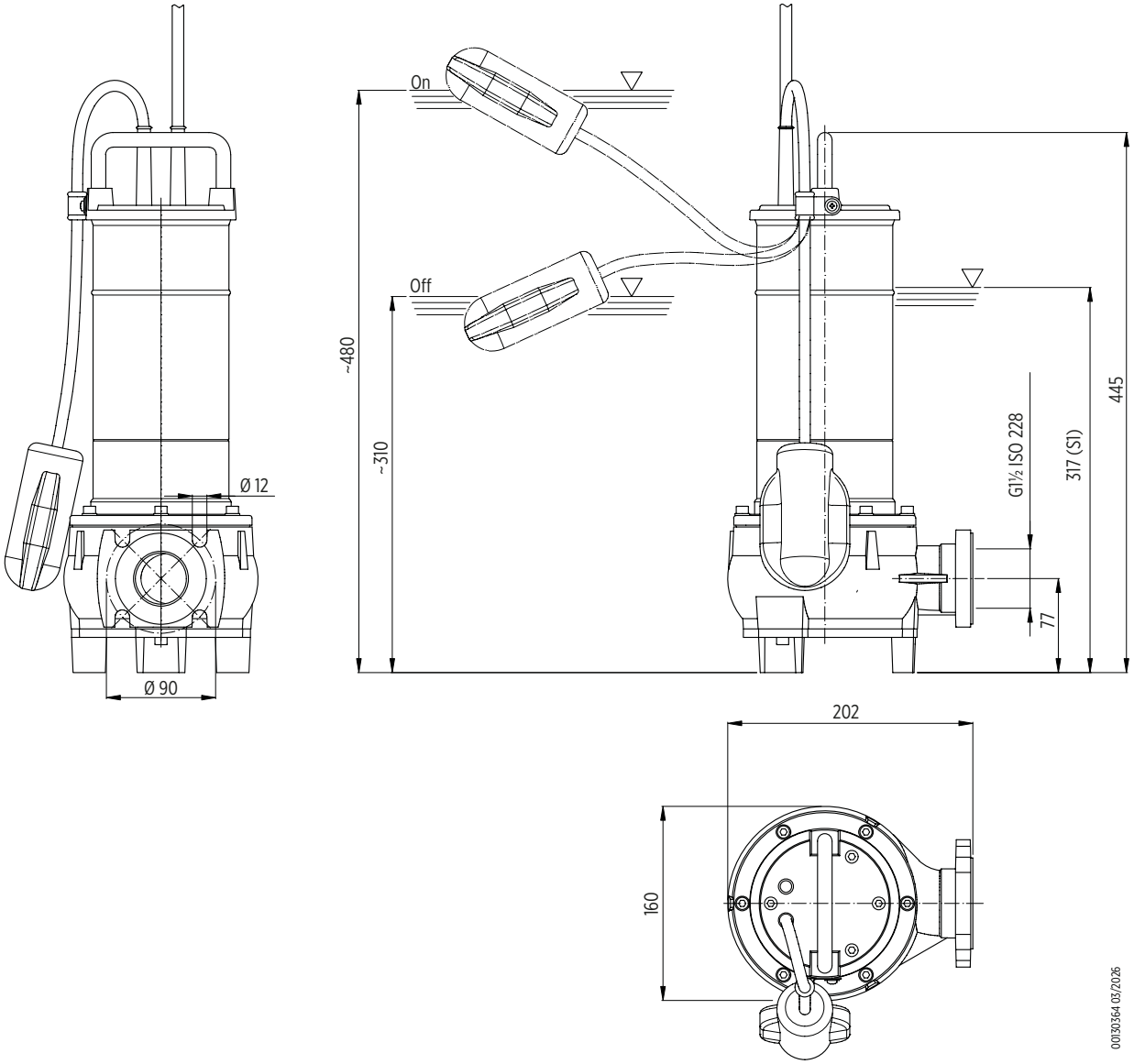
40FWX-V-52

PERFORMANCE CURVES AT 50 HZ



40FWX-V-52

DIMENSIONS



Package		
Pump model	Dimensions [mm]	Weight [kg]
40FWX-V-52-0,4	225x180x560	14,8
40FWX-V-52-0,6		
40FWX-V-52-0,7		16

Pallet			
Pump model	Dimensions [mm]	N° of pumps	Weight [kg]
40FWX-V-52-0,4	1200x800x700	22	340
40FWX-V-52-0,6			
40FWX-V-52-0,7			370

40FWX-V-52

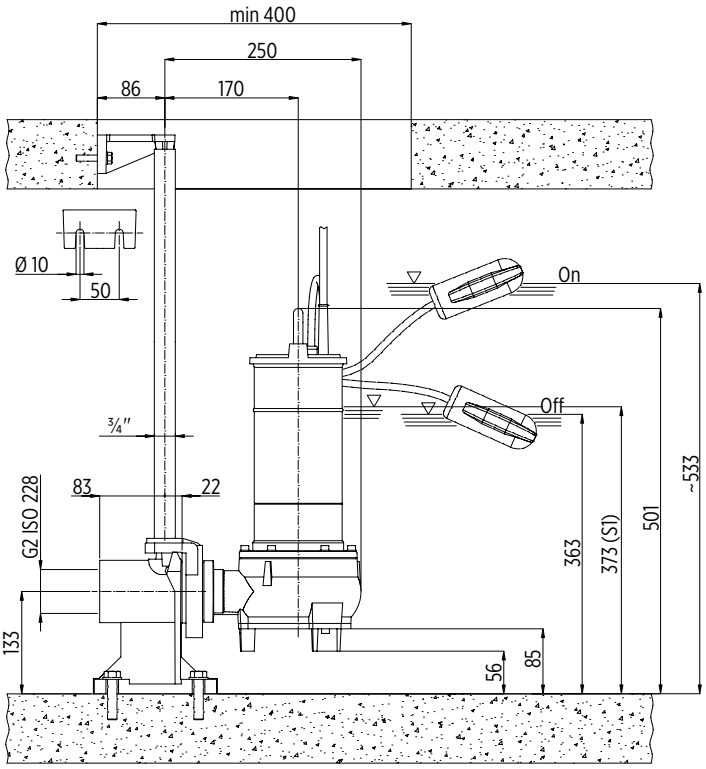
INSTALLATION

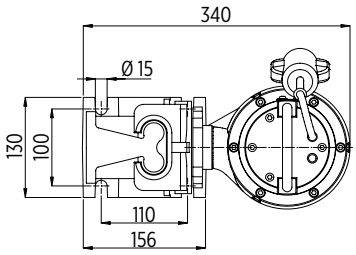
Permanent installation with coupling system

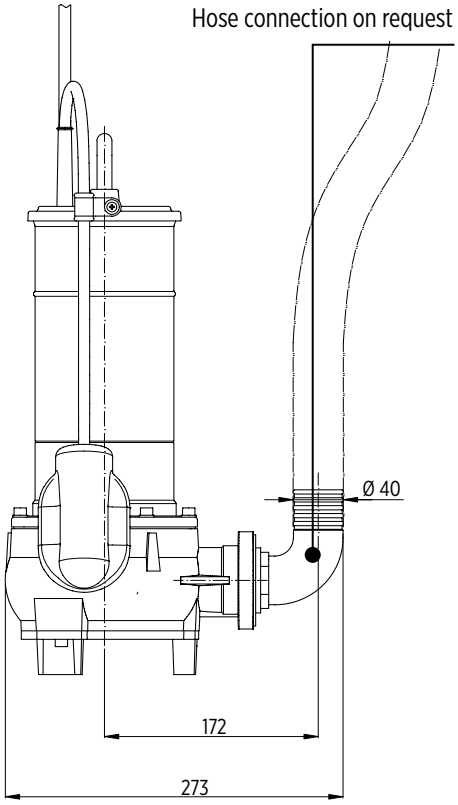
It is the recommended installation for the permanent pumping station. The electric pump is guided by two pipes and it is connected automatically to the coupling system. The quick connection ensures that the pump can be easily removed and re-installed.

Transportable installation

Transportable as emergency pump with connection to the hose and for free installation in the well.







00130365 03/2026

50FWX-V-52

HYDRAULIC PERFORMANCE 50 HZ

Pump model	Q = Delivery														
	l/sec 0	1,0	1,5	2,0	2,5	3,0	3,5	4,0	4,5	5,0	6,0	7,0	8,0	9,0	10,0
	m^3/h 0	3,6	5,4	7,2	9,0	10,8	12,6	14,4	16,2	18,0	21,6	25,2	28,8	32,4	36,0
	US gpm 0	15,8	23,7	31,7	39,6	47,5	55,5	63,4	71,3	79,2	95,1	110,9	126,8	142,6	158,5
	H = Total meters head of water column [m]														
50FWX-V-52-0,9	11,1	**10,3**	**9,9**	**9,5**	**8,9**	**8,4**	**8**	**7,5**	**7,1**	**6,5**	**5,4**	**4,2**	**2,7**	**1,5**	
50FWX-V-52-1,1	12,2	**11,5**	**11**	**10,6**	**10,1**	**9,6**	**9,2**	**8,7**	**8,2**	**7,7**	**6,6**	**5,3**	**3,9**	**2,6**	**1,4**

Application range

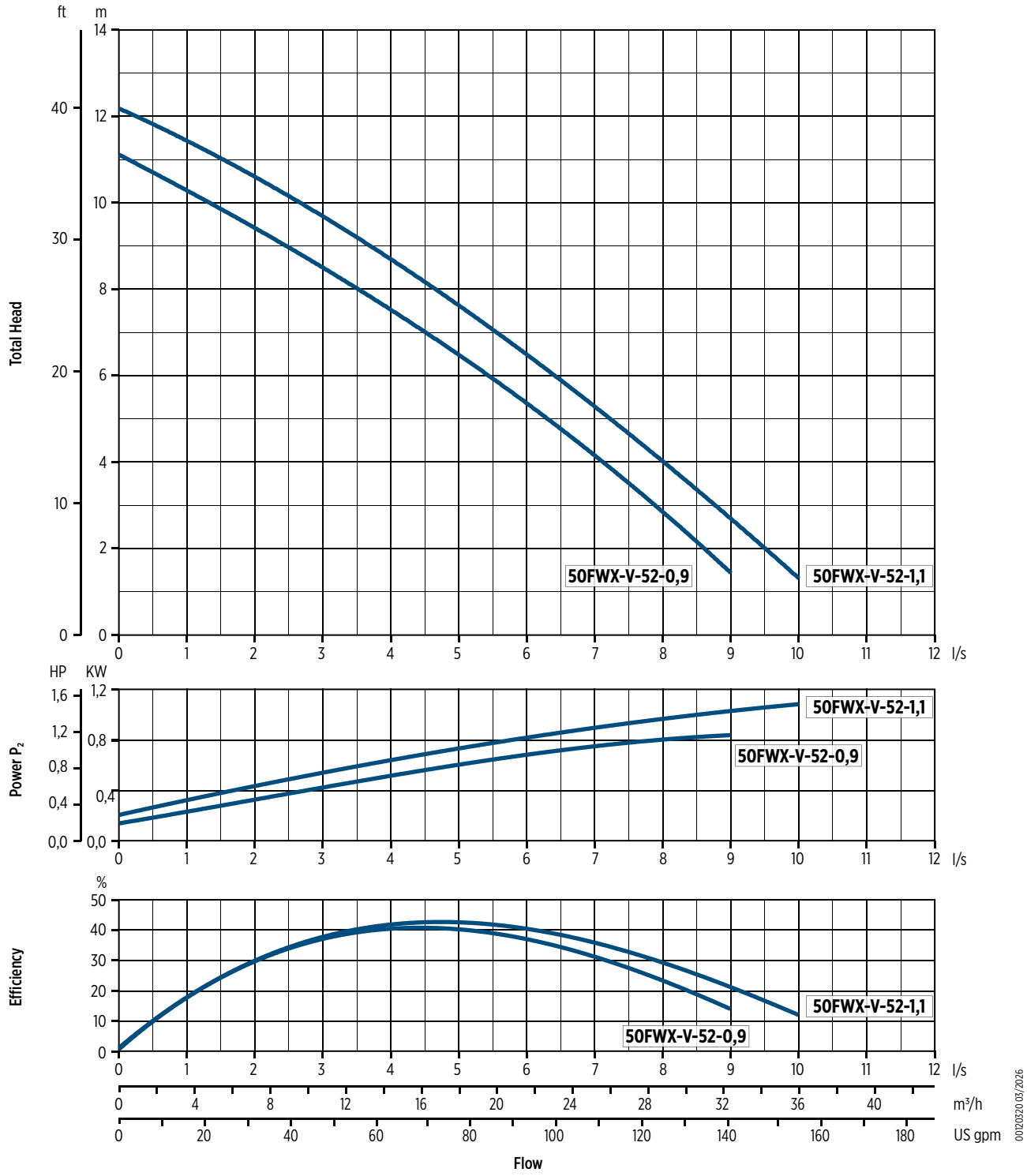
TECHNICAL DATA

Pump model	Motor absorbed power P_1	Rated power P_2		Voltage	Rated current	Phases	Power cable		Float switch	Starting capacitor	Discharge port	Weight [kg]
	[kW]	[kW]	[HP]	[V]	[A]		Length [m]	Type		[µF]		
50FWX-V-52-0,9M	1,35	0,9	1,2	230	6,3	1 ~	10	3G1	-	20	G2	18
50FWX-V-52-0,9M-G	1,35	0,9	1,2	230	6,3	1 ~	10	3G1	•	20	G2	18
50FWX-V-52-0,9M-F	1,35	0,9	1,2	230	6,3	1 ~	10	3G1	-	20	Ø50	18
50FWX-V-52-0,9M-G-F	1,35	0,9	1,2	230	6,3	1 ~	10	3G1	•	20	Ø50	18
50FWX-V-52-0,9T	1,35	0,9	1,2	400	2,1	3 ~	10	4G1	-	-	G2	18
50FWX-V-52-0,9T-G	1,35	0,9	1,2	400	2,1	3 ~	10	4G1	•	-	G2	18
50FWX-V-52-0,9T-F	1,35	0,9	1,2	400	2,1	3 ~	10	4G1	-	-	Ø50	18
50FWX-V-52-0,9T-G-F	1,35	0,9	1,2	400	2,1	3 ~	10	4G1	•	-	Ø50	18
50FWX-V-52-1,1M	1,5	1,1	1,9	230	7,1	1 ~	10	3G1	-	25	G2	19
50FWX-V-52-1,1M-G	1,5	1,1	1,9	230	7,1	1 ~	10	3G1	•	25	G2	19
50FWX-V-52-1,1M-F	1,5	1,1	1,9	230	7,1	1 ~	10	3G1	-	25	Ø50	19
50FWX-V-52-1,1M-G-F	1,5	1,1	1,9	230	7,1	1 ~	10	3G1	•	25	Ø50	19
50FWX-V-52-1,1T	1,5	1,1	1,9	400	3,0	3 ~	10	4G1	-	-	G2	19
50FWX-V-52-1,1T-F	1,5	1,1	1,9	400	3,0	3 ~	10	4G1	-	-	Ø50	19

"-" = not available
• = available

50FWX-V-52

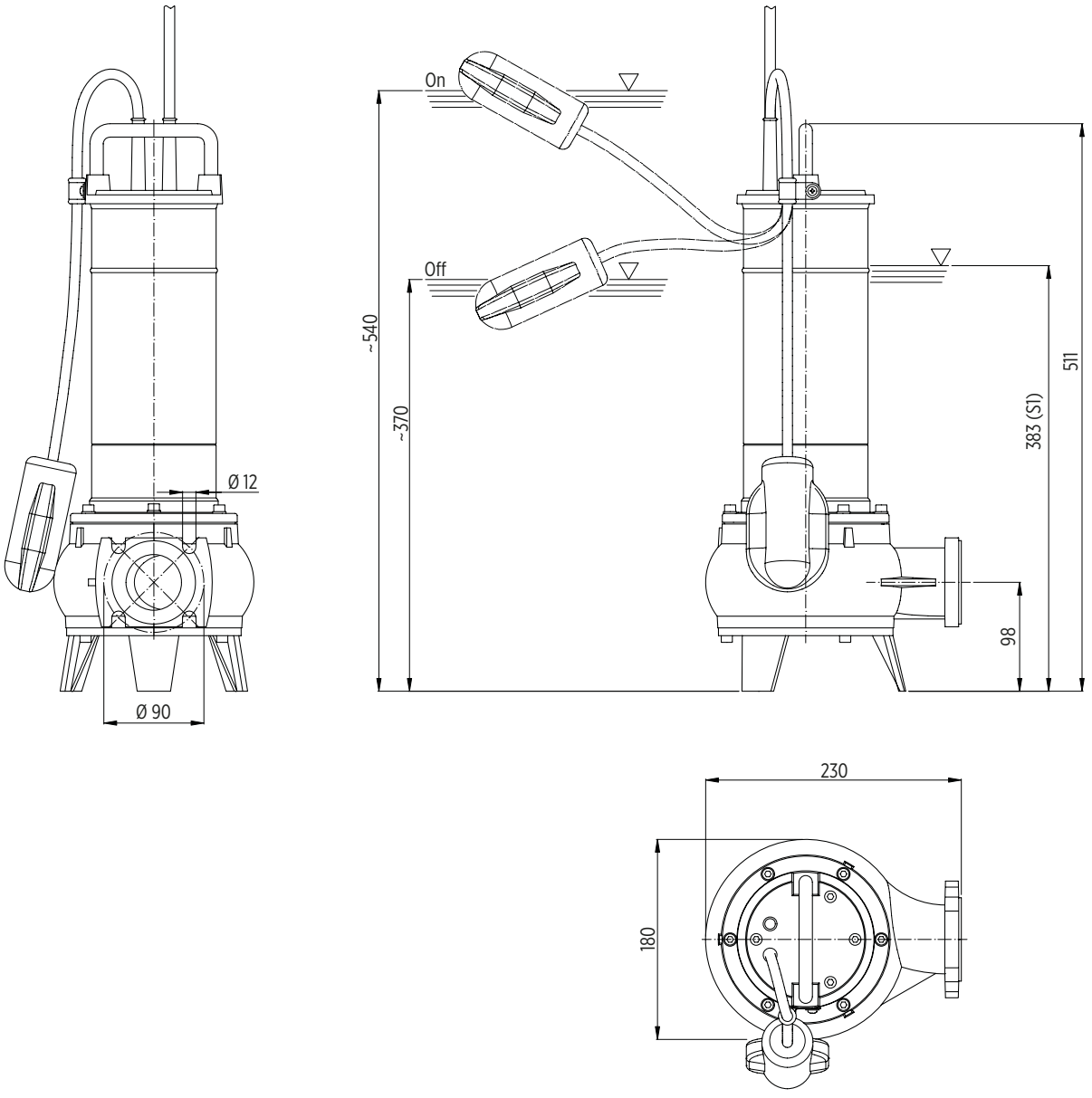
PERFORMANCE CURVES AT 50 HZ



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50FWX-V-52

DIMENSIONS



Package		
Pump model	Dimensions [mm]	Weight [kg]
50FWX-V-52-0,9	255x225x560	18,7
50FWX-V-52-1,1		19,7

Pallet			
Pump model	Dimensions [mm]	N° of pumps	Weight [kg]
50FWX-V-52-0,9	1200x800x700	15	300
50FWX-V-52-1,1			310

50FWX-V-52

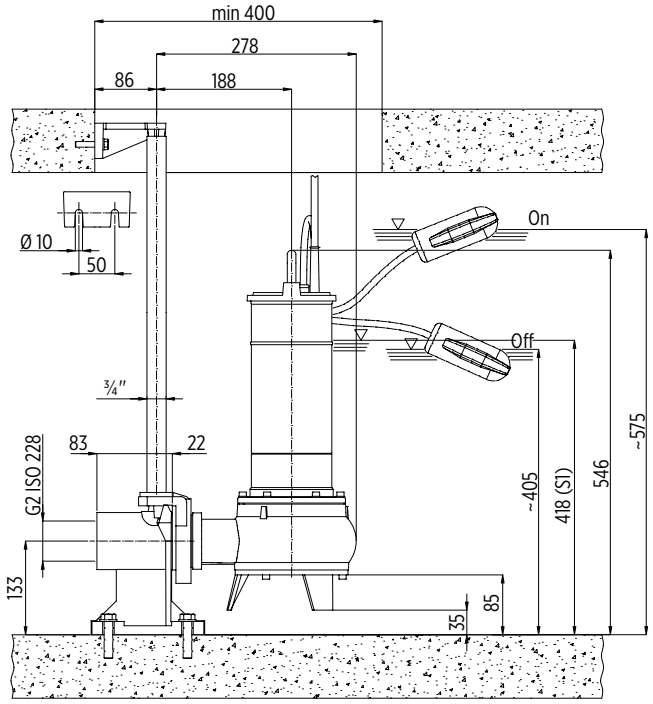
INSTALLATION

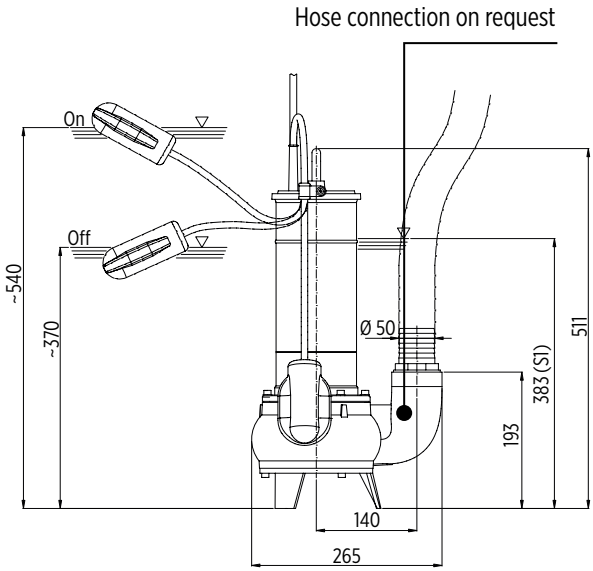
Permanent installation with coupling system

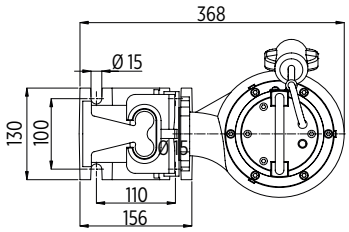
It is the recommended installation for the permanent pumping station. The electric pump is guided by two pipes and it is connected automatically to the coupling system. The quick connection ensures that the pump can be easily removed and re-installed.

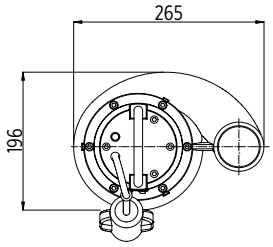
Transportable installation

Transportable as emergency pump with connection to the hose and for free installation in the well.









0013036/ 05/2026

50FWC Series – Submersible Wastewater pumps

- Pump models – discharge Ø 50 mm:
  - 50FWC-V-52 (Vortex impeller, 2 poles motor)
  - 50FWC-V-54 (Vortex impeller, 4 poles motor)
  - 50FWC-M-52 (Single channel impeller, 2 poles motor)
- Impeller type: Vortex (V) or single-channel (M)
- Available with or without adjustable float switch
- Sic/Sic mechanical seal
- Fully cast iron construction
- Single-phase versions up to 1.1 kW with built-in thermal protector
- Single-phase version with external capacitor
- Stainless steel handle
- Wide range of accessories available

Technical data

- Flow: up to 50.4 m^3/h
- Total Head: up to 24 m
- Motor power: 0.9 -1.6 kW
- Minimum immersion depth:
  - 353 mm (50FWC-V-52-0,9M/T, 50FWC-V-52-1,1M/T, 50FWC-M-52-0,9M/T, 50FWC-M-52-1,1M/T, 50FWC-V-54-0,75M/T)
  - 380 mm (50FWC-V-52-1,6M/T, 50FWC-M-52-1,6M/T, 50FWC-M-52-1,6T-HH, 50FWC-V-54-1,1M/T)
- Maximum immersion depth: 5 m
- Free passage.
  - 40 mm (50FWC-V-52-0,9M/T, 50FWC-V-52-1,1M/T, 50FWC-M-52-0,9M/T, 50FWC-M-52-1,1M/T, 50FWC-V-54-0,75M/T)
  - 50 mm (50FWC-V-52-1,6M/T, 50FWC-M-52-1,6M/T, 50FWC-M-52-1,6T-HH, 50FWC-V-54-1,1M/T)

ACCESSORIES

- Hose connection
- Threaded elbow (included)
- Threaded flange kit
- Competitor replacement adapter
- Storz coupling
- Coupling system
- Chain AISI316
- Shackle AISI316
- Sacrificial anodes belt
- For more information about accessories see p. 94

RESIDENTIAL

COMMERCIAL

Cast iron construction
to withstand harsh conditions

Cable lenght 10 m
(single-phase pumps with plug)

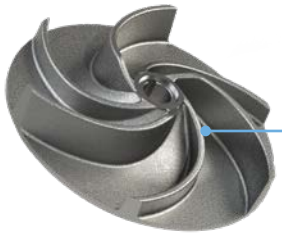


2 or 4 poles motor

Sic/Sic mechanical seal
to withstand abrasive fluid

Elbow G2"
included in the package





Vortex impeller (V)
for a wide passage



Single channel impeller (M)
for high head

Pumping of clear non-loaded fluids

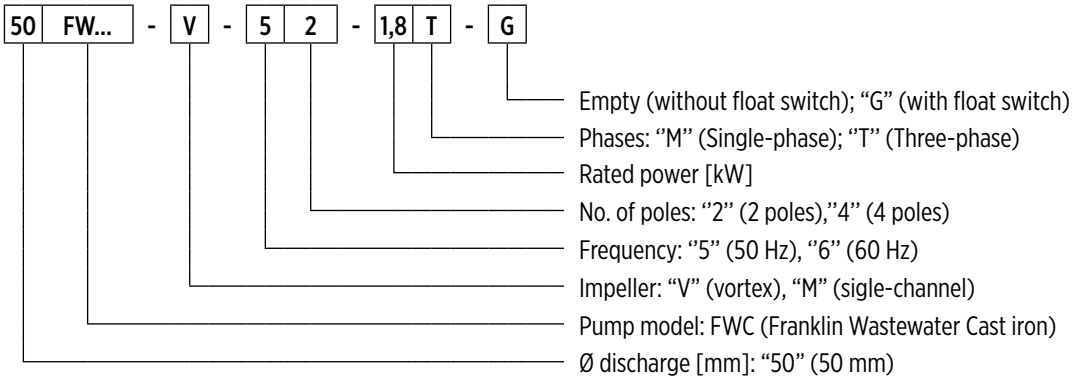
Extraction of water from ponds, streams or pits and for rainwater collection

Pumping of industrial sewage, screened wastewater and sludge

Lift and pumping stations

50FWC Series – Submersible Wastewater pumps

PRODUCT IDENTIFICATION CODE



00140086 03/2026

GENERAL FEATURES

Materials/Constr.design		
Impeller		Cast iron EN GJL200
External casing		Cast iron EN GJL200
Pump body		Cast iron EN GJL200
Cover		Cast iron EN GJL200
Mechanical seal		SIC/SIC
Motor shaft		Stainless steel AISI416
Power cable	**Type**	10 m H07RN8-F
	Single-phase	4G1,5mm², capacitor box and SCHUKO plug (CEE 7/VII)
	Single-phase 50FWC-V-52-1,6M, 50FWC-M-52-1,6M	4G2,5mm², capacitor box and SCHUKO plug (CEE 7/VII)
	Three-phase	4G1,5mm²
Motor		
Constr.design		asynchronous squirrel cage-type in oil chamber
Type	**50FWC-V-52, 50FWC-M-52**	2 poles; 50 Hz
	50FWC-V-54	4 poles; 50 Hz
Insulation class		F
Protection degree		IP68
Voltage	**Single-phase**	230V ±6% built-in overheating protection (up to 1,1 kW), capacitor box and SCHUKO plug (CEE 7/VII)
	Three-phase	230V ±10%, 400V ±10%
Operating limits		
Maximum liquid temperature		+40 °C
pH of pumped liquid		6- 10
Liquid density		1,0 kg/dm³
Maximum immersion depth		5 m
Min. immersion depth for continuous service	**50FWC-V-52-0,9M/T, 50FWC-V-52-1,1M/T 50FWC-M-52-0,9M/T, 50FWC-M-52-1,1M/T 50FWC-V-54-0,75M/T**	353 mm
	50FWC-V-52-1,6M/T 50FWC-M-52-1,6M/T, 50FWC-M-52-1,6T-HH 50FWC-V-54-1,1M/T	380 mm
Free passage	**50FWC-V-52-0,9M/T, 50FWC-V-52-1,1M/T 50FWC-M-52-0,9M/T, 50FWC-M-52-1,1M/T 50FWC-V-54-0,75M/T**	40 mm
	50FWC-V-52-1,6M/T 50FWC-M-52-1,6M/T, 50FWC-M-52-1,6T-HH 50FWC-V-54-1,1M/T	50 mm
Max. number of starting/hour		20
Construction options		

- 60 Hz version
- Different voltages
- Food-grade white oil

50FWC-V-52

HYDRAULIC PERFORMANCE 50 HZ

Pump model	Q = Delivery										
	l/sec 0	1	2	3	4	5	6	7	8	9	10
	m³/h 0	3,6	7,2	10,8	14,4	18	21,6	25,2	28,8	32,4	36
	US gpm 0	15,8	31,7	47,5	63,4	79,2	92,1	110,9	126,8	142,6	158,5
	H = Total meters head of water column [m]										
50FWC-V-52-0,9	12,2	**11**	**9,8**	**8,5**	**7,4**	**6**	**4,3**	**2,3**			
50FWC-V-52-1,1	13	**12**	**11**	**9,5**	**8,3**	**7**	**5,7**	**4,4**	**3**	**1,6**	
50FWC-V-52-1,6	14	**12,5**	**11,5**	**10,5**	**9,6**	**8,7**	**7,8**	**6,8**	**5,5**	**4**	**2,1**

Application range

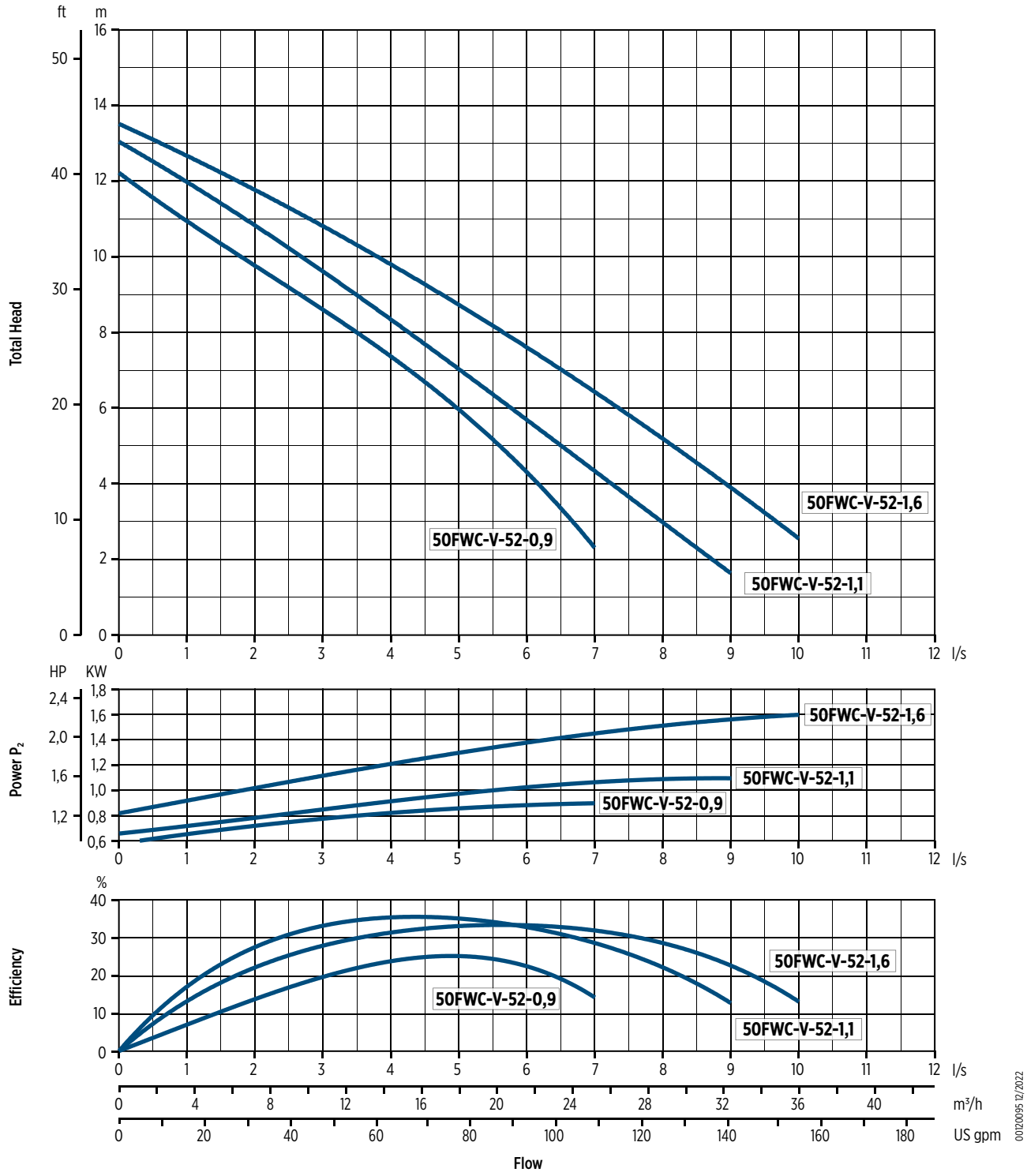
TECHNICAL DATA

Pump model	Motor absorbed power P_1	Rated power P_2		Voltage	Rated current	Phases	Power cable		Float switch	Starting capacitor	Discharge port	Weight [kg]
	[kW]	[kW]	[HP]	[V]	[A]		Length [m]	Type		[µF]		
50FWC-V-52-0,9M	1,3	0,9	1,2	230	5,8	1 ~	10	4G1,5	-	25	G2 (Ø50)	29
50FWC-V-52-0,9M-G	1,3	0,9	1,2	230	5,8	1 ~	10	4G1,5	•	25	G2 (Ø50)	29
50FWC-V-52-0,9T	1,3	0,9	1,2	400	2	3 ~	10	4G1,5	-	-	G2 (Ø50)	29
50FWC-V-52-0,9T-G	1,3	0,9	1,2	400	2	3 ~	10	4G1,5	•	-	G2 (Ø50)	29
50FWC-V-52-1,1M	1,7	1,1	1,5	230	7	1 ~	10	4G1,5	-	30	G2 (Ø50)	29
50FWC-V-52-1,1M-G	1,7	1,1	1,5	230	7	1 ~	10	4G1,5	•	30	G2 (Ø50)	29
50FWC-V-52-1,1T	1,7	1,1	1,5	400	3	3 ~	10	4G1,5	-	-	G2 (Ø50)	29
50FWC-V-52-1,1T-G	1,7	1,1	1,5	400	3	3 ~	10	4G1,5	•	-	G2 (Ø50)	29
50FWC-V-52-1,6M	2,3	1,6	2,1	230	9,1	1 ~	10	4G2,5	-	40	G2 (Ø50)	35
50FWC-V-52-1,6M-G	2,3	1,6	2,1	230	9,1	1 ~	10	4G2,5	•	40	G2 (Ø50)	35
50FWC-V-52-1,6T	2,3	1,6	2,1	400	4	3 ~	10	4G1,5	-	-	G2 (Ø50)	35
50FWC-V-52-1,6T-G	2,3	1,6	2,1	400	4	3 ~	10	4G1,5	•	-	G2 (Ø50)	35

"-" = not available
• = available

50FWC-V-52

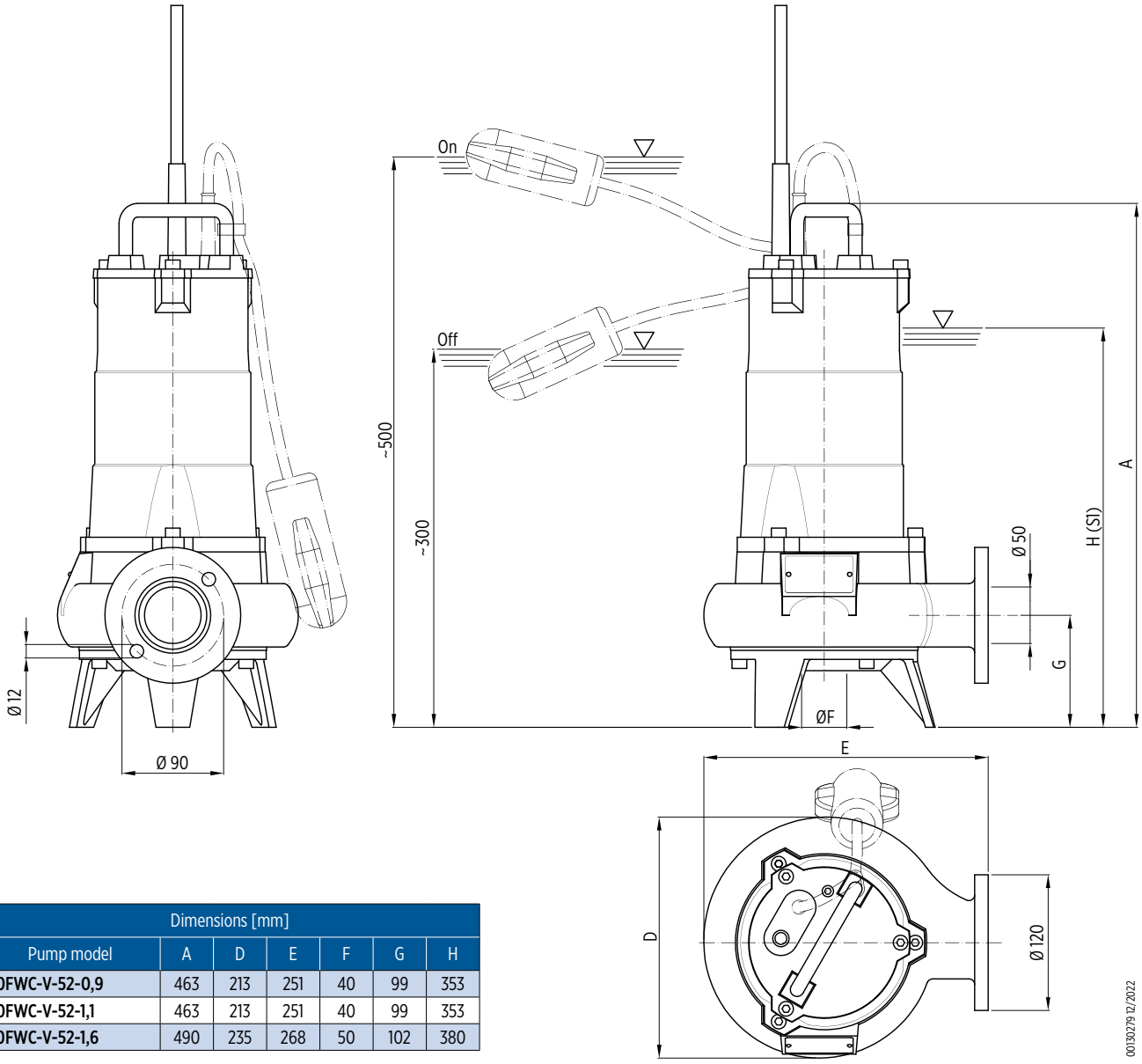
PERFORMANCE CURVES AT 50 HZ



0012009S 12/2022

50FWC-V-52

DIMENSIONS



Dimensions [mm]						
Pump model	A	D	E	F	G	H
50FWC-V-52-0,9	463	213	251	40	99	353
50FWC-V-52-1,1	463	213	251	40	99	353
50FWC-V-52-1,6	490	235	268	50	102	380

Package		
Pump model	Dimensions [mm]	Weight [kg]
50FWC-V-52-0,9	290x245x585	30
50FWC-V-52-1,1		
50FWC-V-52-1,6	300x260x585	36

50FWC-V-52

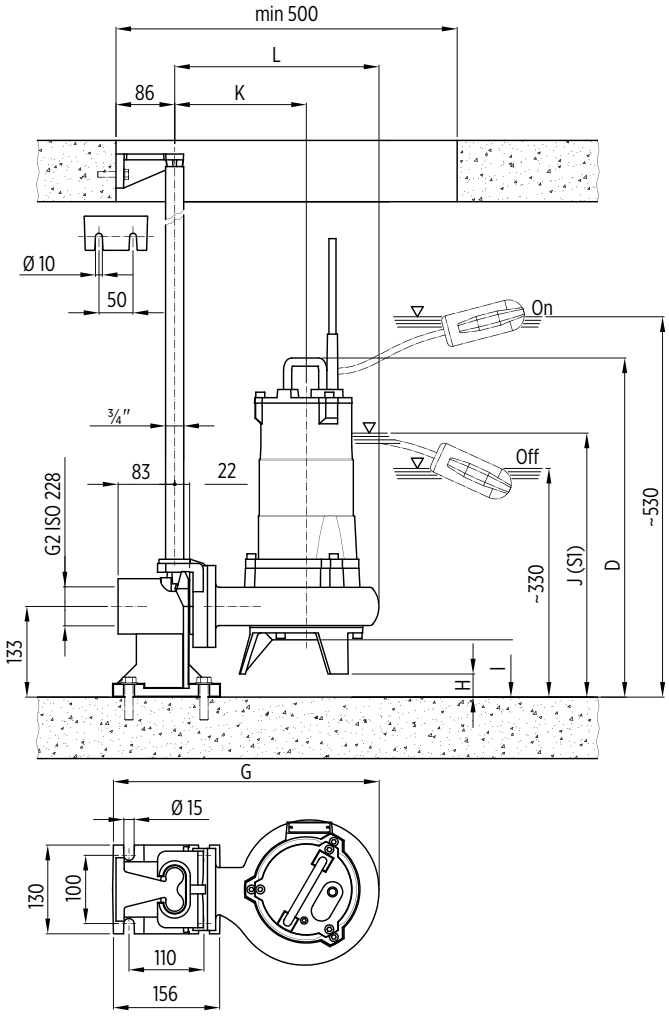
INSTALLATION

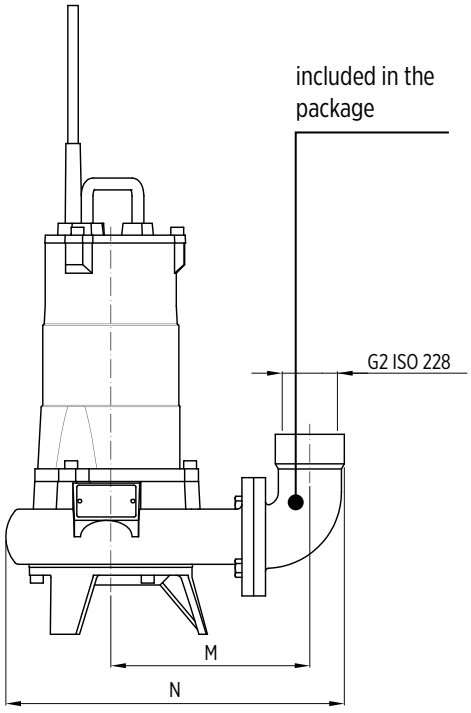
Permanent installation with coupling system

It is the recommended installation for the permanent pumping station. The electric pump is guided by two pipes and it is connected automatically to the coupling system. The quick connection ensures that the pump can be easily removed and re-installed.

Transportable installation

Transportable as emergency pump with connection to the hose and for free installation in the well.





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Installation dimensions [mm]									
Pump model	D	G	H	I	J	K	L	M	N
50FWC-V-52-0,9	497	390	34	84	387	193	300	202	344
50FWC-V-52-1,1	497	390	34	84	387	193	300	202	344
50FWC-V-52-1,6	521	407	31	81	414	200	316	209	360

50FWC-V-54

HYDRAULIC PERFORMANCE 50 HZ

Pump model	Q = Delivery											
	l/sec 0	1	2	3	4	5	6	7	8	9	10	11
	m^3/h 0	3,6	7,2	10,8	14,4	18	21,6	25,2	28,8	32,4	36	39,6
	US gpm 0	15,8	31,7	47,5	63,4	79,2	92,1	110,9	126,8	142,6	158,5	174,3
	H = Total meters head of water column [m]											
50FWC-V-54-0,75	6,4	**6,2**	**5,8**	**5,3**	**4,6**	**3,8**	**2,8**	**1,8**				
50FWC-V-54-1,1	7,4	**7**	**6,6**	**6,2**	**5,8**	**5,4**	**4,9**	**4,4**	**3,9**	**3,3**	**2,5**	**1,6**

Application range

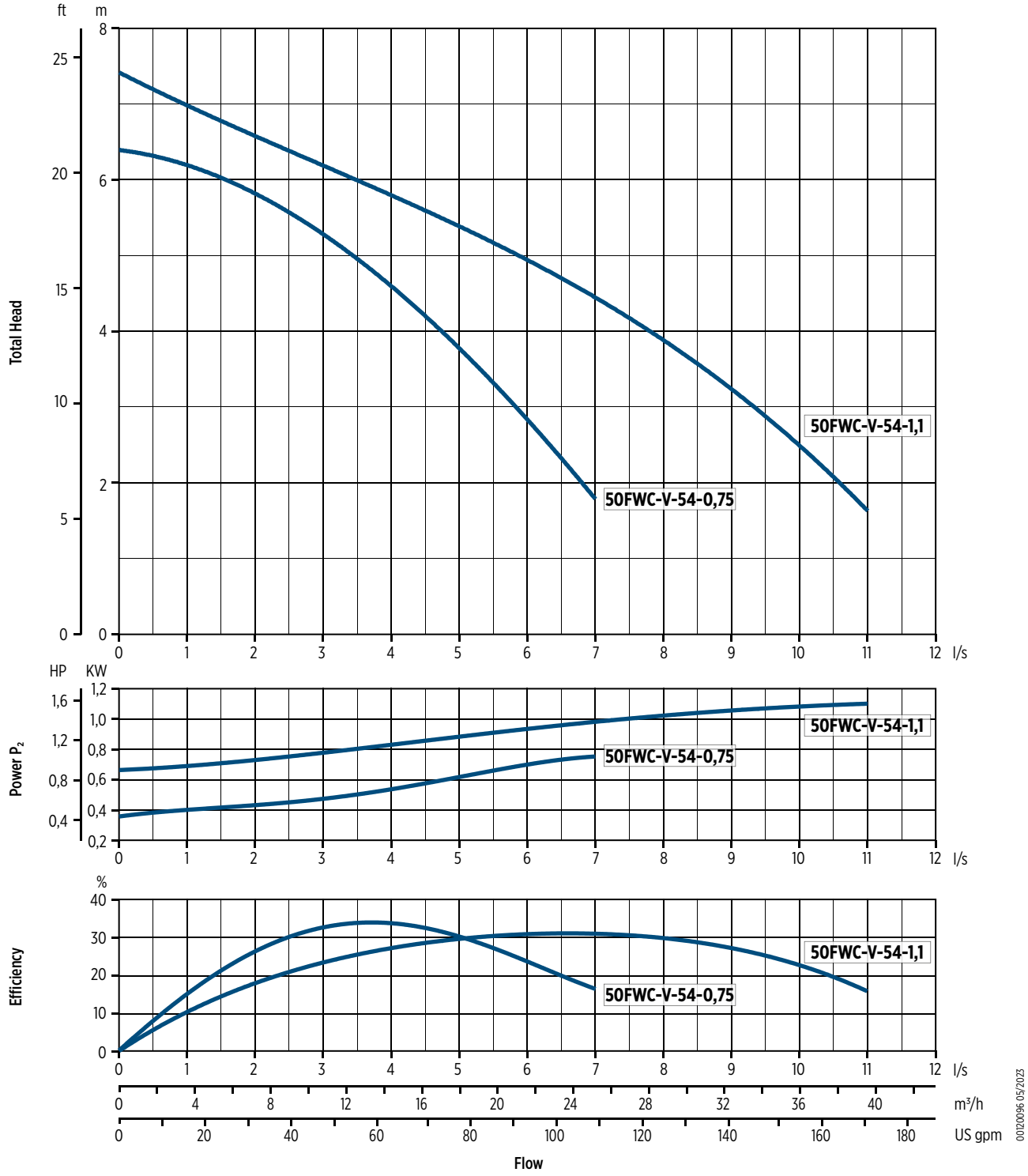
TECHNICAL DATA

Pump model	Motor absorbed power P_1	Rated power P_2		Voltage	Rated current	Phases	Power cable		Float switch	Starting capacitor	Discharge port	Weight [kg]
	[kW]	[kW]	[HP]	[V]	[A]		Length [m]	Type		[µF]		
50FWC-V-54-0,75M	1,2	0,75	1	230	5	1 ~	10	4G1,5	-	14	G2 (Ø50)	29
50FWC-V-54-0,75M-G	1,2	0,75	1	230	5	1 ~	10	4G1,5	•	14	G2 (Ø50)	29
50FWC-V-54-0,75T	1,2	0,75	1	400	1,9	3 ~	10	4G1,5	-	-	G2 (Ø50)	29
50FWC-V-54-0,75T-G	1,2	0,75	1	400	1,9	3 ~	10	4G1,5	•	-	G2 (Ø50)	29
50FWC-V-54-1,1M	1,5	1,1	1,5	230	7,7	1 ~	10	4G1,5	-	20	G2 (Ø50)	33
50FWC-V-54-1,1M-G	1,5	1,1	1,5	230	7,7	1 ~	10	4G1,5	•	20	G2 (Ø50)	33
50FWC-V-54-1,1T	1,5	1,1	1,5	400	2,8	3 ~	10	4G1,5	-	-	G2 (Ø50)	33
50FWC-V-54-1,1T-G	1,5	1,1	1,5	400	2,8	3 ~	10	4G1,5	•	-	G2 (Ø50)	33

"-" = not available
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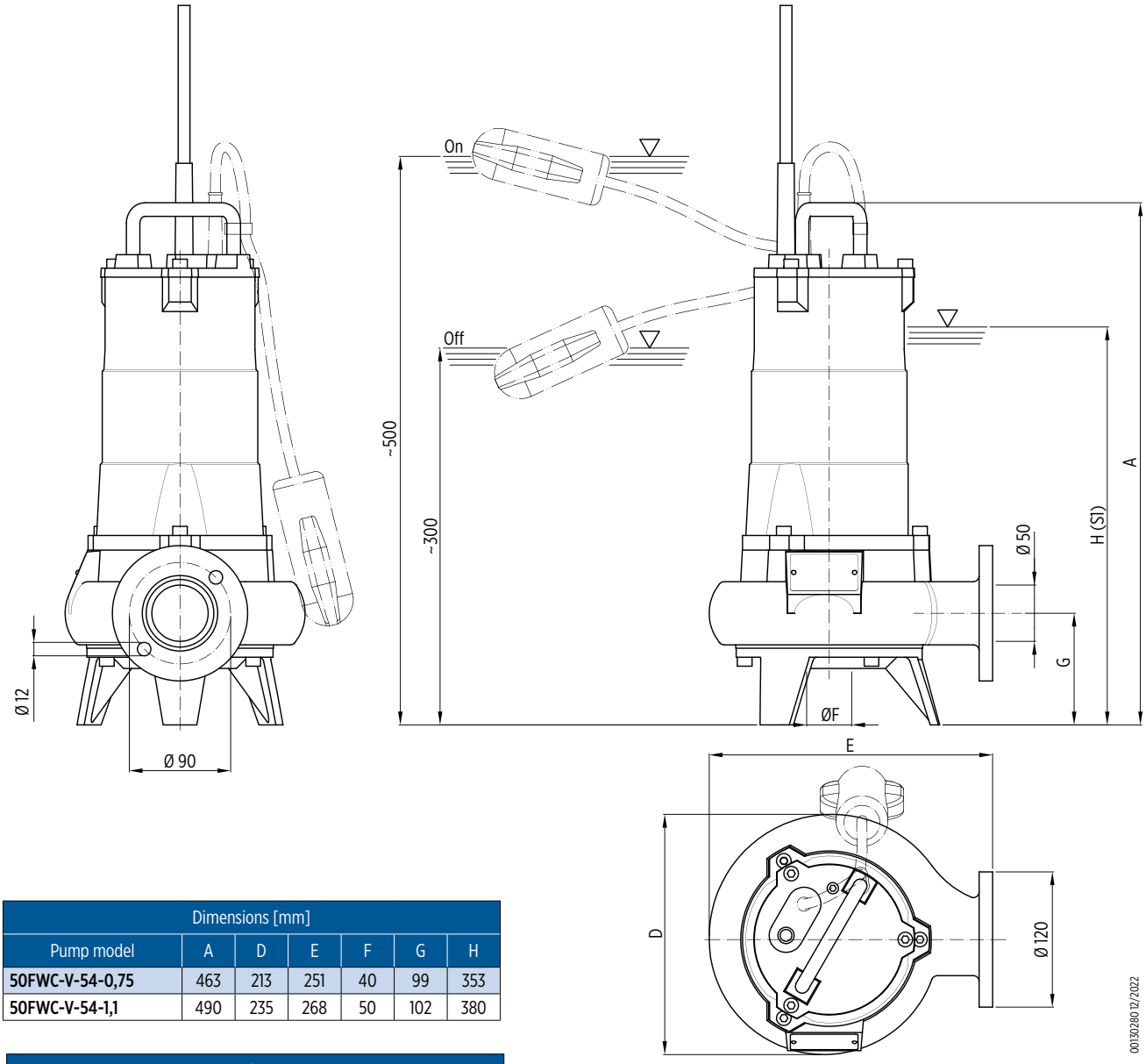
50FWC-V-54

PERFORMANCE CURVES AT 50 HZ



50FWC-V-54

DIMENSIONS



Dimensions [mm]						
Pump model	A	D	E	F	G	H
50FWC-V-54-0,75	463	213	251	40	99	353
50FWC-V-54-1,1	490	235	268	50	102	380

Package		
Pump model	Dimensions [mm]	Weight [kg]
50FWC-V-54-0,75	290x245x585	30
50FWC-V-54-1,1	300x260x585	34

50FWC-V-54

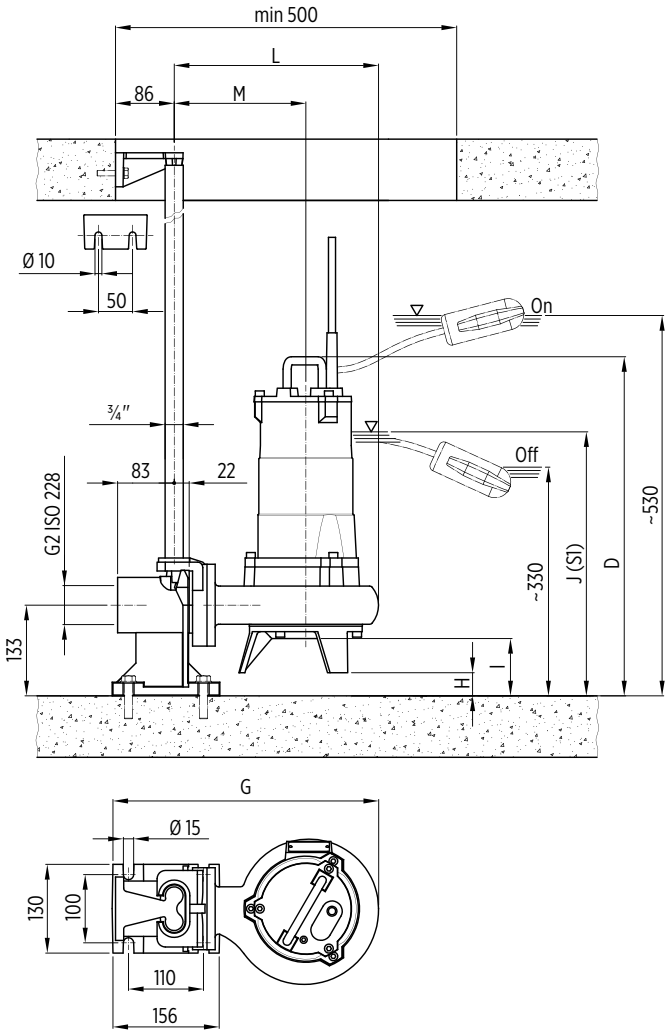
INSTALLATION

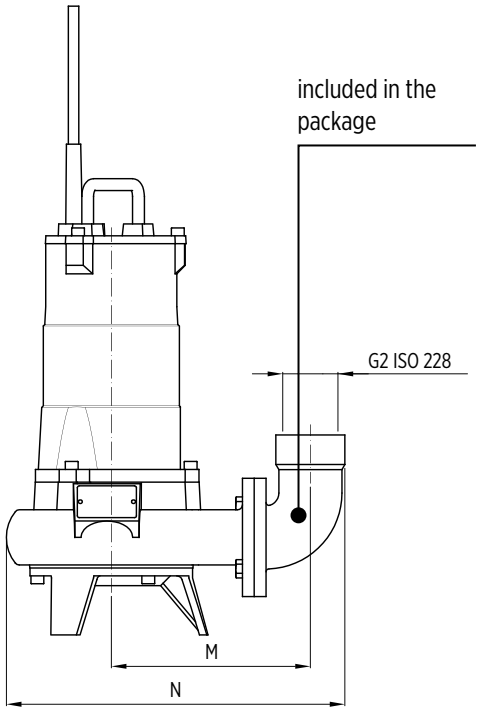
Permanent installation with coupling system

It is the recommended installation for the permanent pumping station. The electric pump is guided by two pipes and it is connected automatically to the coupling system. The quick connection ensures that the pump can be easily removed and re-installed.

Transportable installation

Transportable as emergency pump with connection to the hose and for free installation in the well.





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Installation Dimensions [mm]									
Pump model	D	G	H	I	J	K	L	M	N
50FWC-V-54-0,75	497	390	34	84	387	193	300	202	344
50FWC-V-54-1,1	521	407	31	81	414	200	316	209	360

50FWC-M-52

HYDRAULIC PERFORMANCE 50 HZ

Pump model	Q = Delivery													
	l/sec 0	1	2	3	4	5	6	7	8	9	10	12	13	14
	m^3/h 0	3,6	7,2	10,8	14,4	18	21,6	25,2	28,8	32,4	36	43,2	46,8	50,4
	US gpm 0	15,8	31,7	47,5	63,4	79,2	92,1	110,9	126,8	142,6	158,5	190,2	206	221,9
	H = Total meters head of water column [m]													
50FWC-M-52-0,9	15,5	**12,5**	**11**	**9,5**	**8,3**	**7**	**5,6**	**4,1**	**2,5**					
50FWC-M-52-1,1	17,5	**15**	**13,5**	**12**	**10,5**	**9,4**	**8**	**6,5**	**5**	**3,4**	**1,7**			
50FWC-M-52-1,6	19	**17**	**15,5**	**14**	**13**	**12**	**11**	**10**	**9,4**	**8,6**	**7,7**	**5,8**	**4,2**	**2,5**
50FWC-M-52-1,6-HH	24	**22**	**20,5**	**19**	**17,5**	**16,5**	**15,2**	**14**	**13**					

Application range

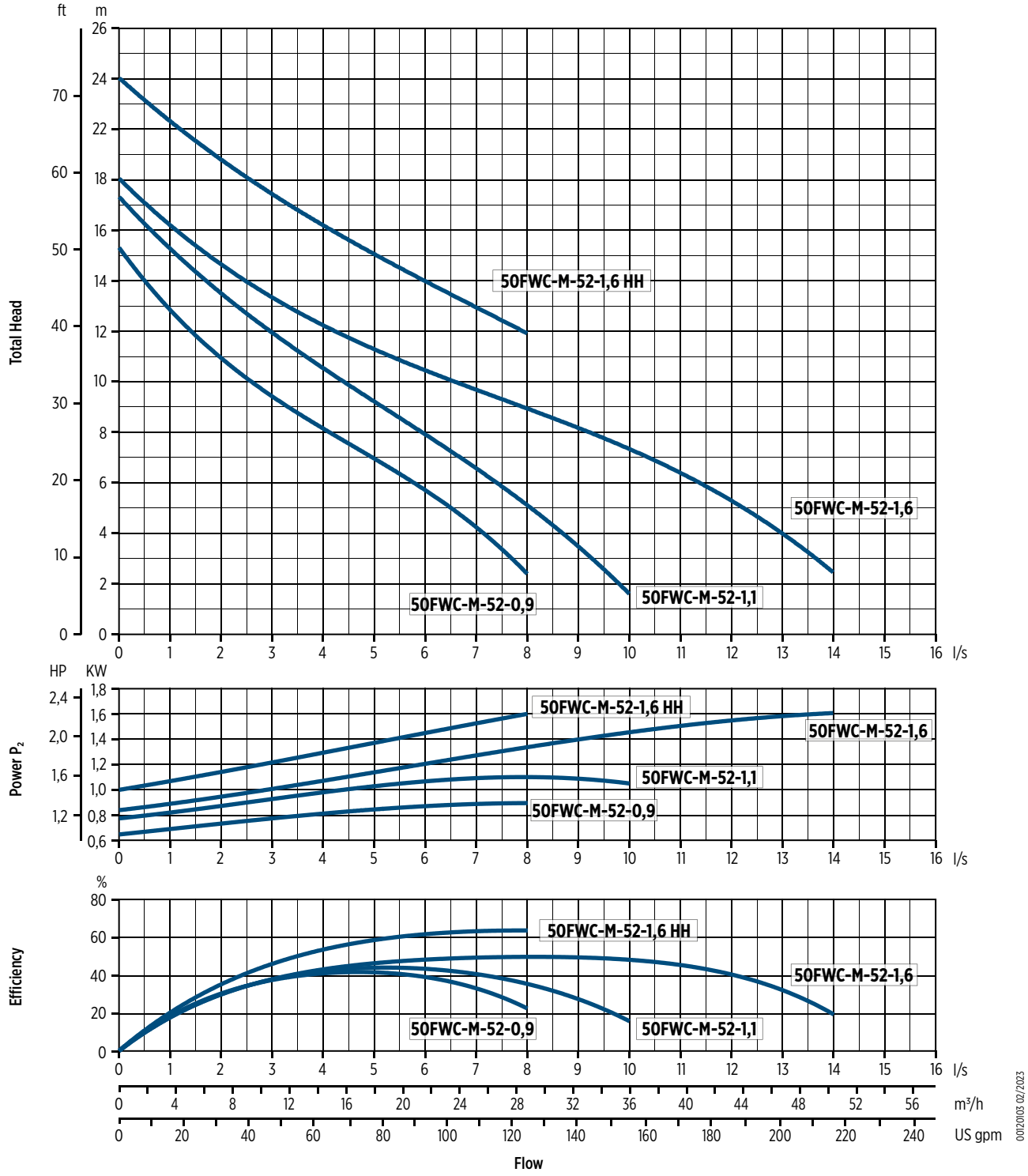
TECHNICAL DATA

Pump model	Motor absorbed power P_1	Rated power P_2		Voltage	Rated current	Phases	Power cable		Float switch	Starting capacitor	Discharge port	Weight [kg]
	[kW]	[kW]	[HP]	[V]	[A]		Length [m]	Type		[µF]		
50FWC-M-52-0,9M	1,3	0,9	1,2	230	5,8	1 ~	10	4G1,5	-	25	G2 (Ø50)	30
50FWC-M-52-0,9M-G	1,3	0,9	1,2	230	5,8	1 ~	10	4G1,5	•	25	G2 (Ø50)	30
50FWC-M-52-0,9T	1,3	0,9	1,2	400	2	3 ~	10	4G1,5	-	-	G2 (Ø50)	30
50FWC-M-52-0,9T-G	1,3	0,9	1,2	400	2	3 ~	10	4G1,5	•	-	G2 (Ø50)	30
50FWC-M-52-1,1M	1,7	1,1	1,5	230	7	1 ~	10	4G1,5	-	30	G2 (Ø50)	30
50FWC-M-52-1,1M-G	1,7	1,1	1,5	230	7	1 ~	10	4G1,5	•	30	G2 (Ø50)	30
50FWC-M-52-1,1T	1,6	1,1	1,5	400	3	3 ~	10	4G1,5	-	-	G2 (Ø50)	30
50FWC-M-52-1,1T-G	1,6	1,1	1,5	400	3	3 ~	10	4G1,5	•	-	G2 (Ø50)	30
50FWC-M-52-1,6M	2,3	1,6	2,1	230	11	1 ~	10	4G2,5	-	40	G2 (Ø50)	34
50FWC-M-52-1,6M-G	2,3	1,6	2,1	230	11	1 ~	10	4G2,5	•	40	G2 (Ø50)	34
50FWC-M-52-1,6T	2,2	1,6	2,1	400	4	3 ~	10	4G1,5	-	-	G2 (Ø50)	34
50FWC-M-52-1,6T-G	2,2	1,6	2,1	400	4	3 ~	10	4G1,5	•	-	G2 (Ø50)	34
50FWC-M-52-1,6T-HH	2,2	1,6	2,1	400	4,2	3 ~	10	4G1,5	-	-	G2 (Ø50)	34

"-" = not available
• = available

50FWC-M-52

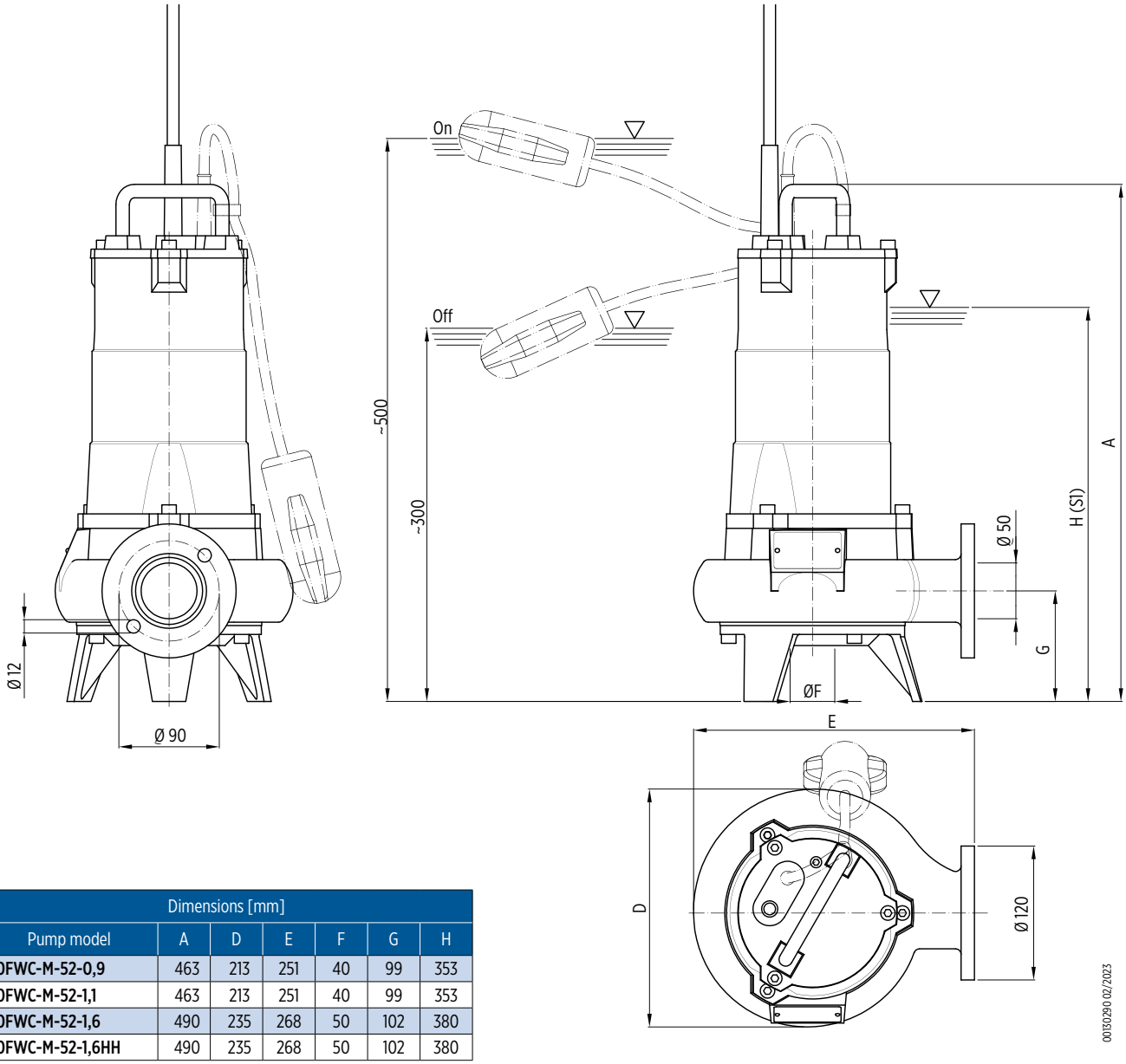
PERFORMANCE CURVES AT 50 HZ



00120103 02/2023

50FWC-M-52

DIMENSIONS



Dimensions [mm]						
Pump model	A	D	E	F	G	H
50FWC-M-52-0,9	463	213	251	40	99	353
50FWC-M-52-1,1	463	213	251	40	99	353
50FWC-M-52-1,6	490	235	268	50	102	380
50FWC-M-52-1,6HH	490	235	268	50	102	380

Package		
Pump model	Dimensions [mm]	Weight [kg]
50FWC-M-52-0,9	290x245x585	31
50FWC-M-52-1,1		
50FWC-M-52-1,6	300x260x585	35
50FWC-M-52-1,6HH		

50FWC-M-52

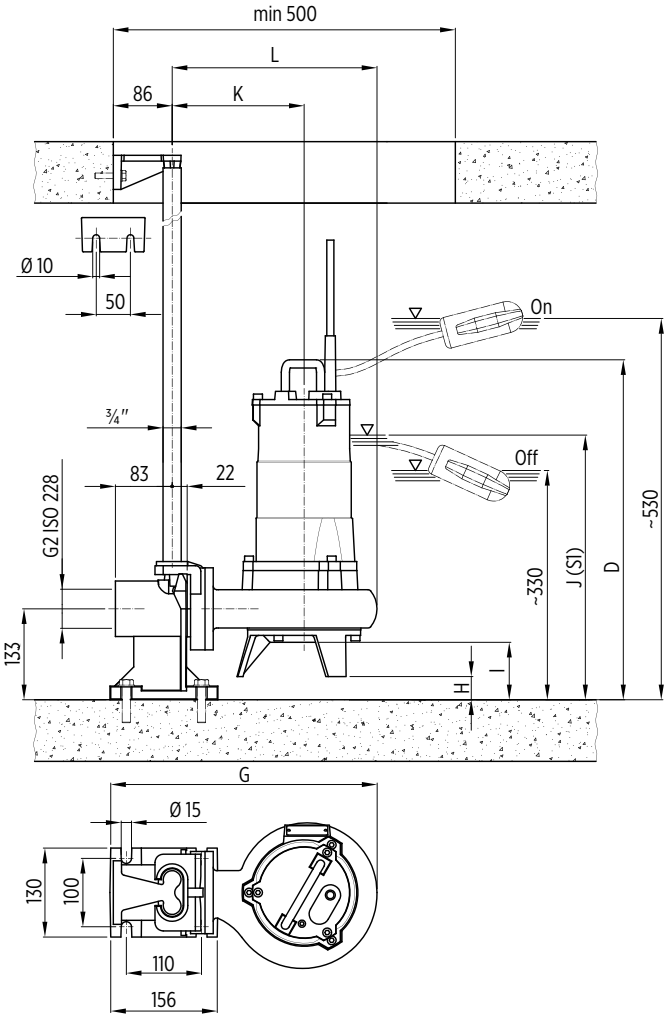
INSTALLATION

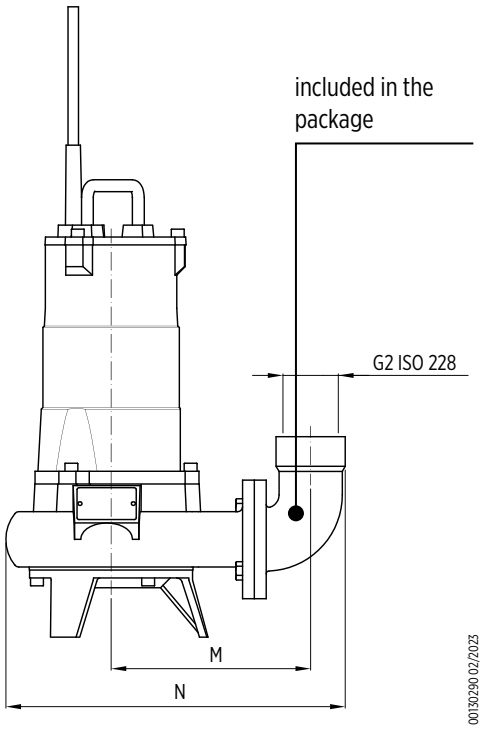
Permanent installation with coupling system

It is the recommended installation for the permanent pumping station. The electric pump is guided by two pipes and it is connected automatically to the coupling system. The quick connection ensures that the pump can be easily removed and re-installed.

Transportable installation

Transportable as emergency pump with connection to the hose and for free installation in the well.





Installation Dimensions [mm]									
Pump model	D	G	H	I	J	K	L	M	N
50FWC-M-52-0,9	497	390	34	84	387	193	300	202	344
50FWC-M-52-1,1	497	390	34	84	387	193	300	202	344
50FWC-M-52-1,6	521	407	31	81	414	200	316	209	360
50FWC-M-52-1,6HH	521	407	31	81	414	200	316	209	360

65FWC Series – Submersible Wastewater pumps

- Pump models – discharge DN65:
  - 65FWC-V-52 (Vortex impeller, 2 poles motor)
  - 65FWC-V-54 (Vortex impeller, 4 poles motor)
  - 65FWC-M-52 (Single channel impeller, 2 poles motor)
- Impeller type: Vortex (V) or single-channel (M)
- Sic/Sic mechanical seal
- Fully cast iron construction
- Stainless steel handle
- Wide range of accessories available



Technical data

- Flow: up to 64.8 m^3/h
- Total Head: up to 24 m
- Motor power: 0.75 -2.2 kW
- Minimum immersion depth:
  - 464 mm (65FWC-V-52)
  - 442 mm (65FWC-V-54)
  - 445 mm (65FWC-M-52)
- Maximum immersion depth: 5 m
- Free passage:
  - 65 mm (65FWC-V-52)
  - 60 mm (65FWC-V-54)
  - 50 mm (65FWC-M-52)

ACCESSORIES

- Threaded flange kit
- Competitor replacement adapter
- Coupling system
- Chain AISI316
- Shackle AISI316
- Sacrificial anodes belt
- For more information about accessories see p. 94

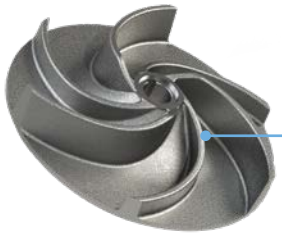
Cast iron construction
to withstand harsh conditions

Cable length 10 m



2 or 4 poles motor

Sic/Sic mechanical seal
to withstand abrasive fluid



Vortex impeller (V)
for a wide passage



Single channel impeller (M)
for high head

Pumping of clear non-loaded fluids

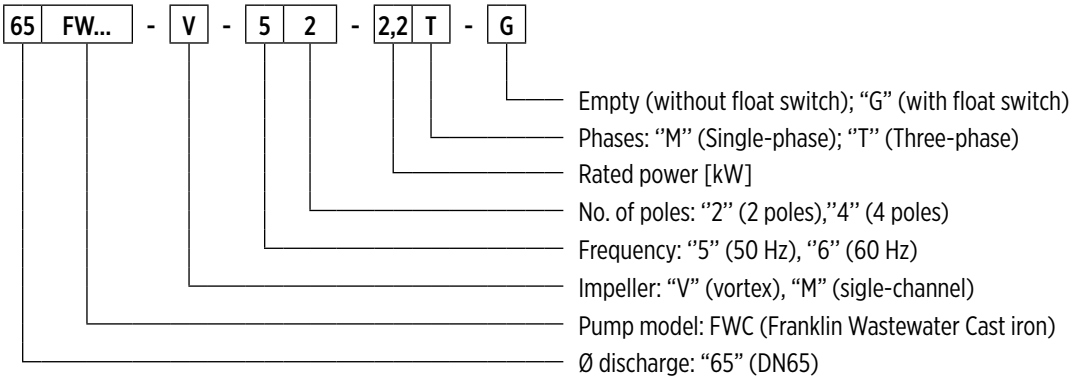
Extraction of water from ponds, streams or pits and for rainwater collection

Pumping of industrial sewage, screened wastewater and sludge

Lift and pumping stations

65FWC Series – Submersible Wastewater pumps

PRODUCT IDENTIFICATION CODE



00140086 03/2026

GENERAL FEATURES

Materials/Constr.design		
Impeller		Cast iron EN GJL200
External casing		Cast iron EN GJL200
Pump body		Cast iron EN GJL200
Cover		Cast iron EN GJL200
Mechanical seal	**motor side**	Seal ring
	pump side	Silicon carbide (SiC/SiC)
Motor shaft		Stainless steel AISI420
Power cable	**Type**	10 m H07RN-F
	Single-phase / Three-phase 65FWC-V-52, 65FWC-M-52	4G1,5mm^2
	Single-phase 65FWC-V-54	4G1,5mm^2, capacitor box and SCHUKO plug (CEE 7/VII)
	Three-phase 65FWC-V-54	4G1,5mm^2
Motor		
Constr.design		asynchronous squirrel cage-type in oil chamber
Type	**65FWC-V-52, 65FWC-M-52**	2 poles; 50 Hz
	65FWC-V-54	4 poles; 50 Hz
Insulation class		F
Protection degree		IP68
Voltage	**Single-phase 65FWC-V-54**	230V ±6% built-in overheating protection capacitor box and SCHUKO plug (CEE 7/VII)
	Three-phase 65FWC-V-52, 65FWC-M-52, 65FWC-V-54	230V ±10%, 400V ±10%
Operating limits		
Maximum liquid temperature		+40 °C
pH of pumped liquid		6- 10
Liquid density		1,0 kg/dm^3
Maximum immersion depth		5 m
Min. immersion depth for continuous service	**65FWC-V-52**	464 mm
	65FWC-V-54	442 mm
	65FWC-M-52	445 mm
Free passage	**65FWC-V-52**	65 mm
	65FWC-V-54	60 mm
	65FWC-M-52	50 mm
Max. number of starting/hour		20
Construction options		

- 60 Hz version
- Different voltages
- Food-grade white oil

65FWC-V-52

HYDRAULIC PERFORMANCE 50 HZ

Pump model	Q = Delivery										
	l/sec 0	4	6	8	9	10	11	12	13	14	15
	m^3/h 0	14,4	21,6	28,8	32,4	36	39,6	43,2	46,8	50,4	54
	US gpm 0	63,4	92,1	126,8	142,6	158,5	174,3	190,2	206	221,9	237,7
	H = Total meters head of water column [m]										
65FWC-V-52-2,2	16,5	**12,5**	**10,2**	**9**	**8**	**6,8**	**6**	**5,3**	**3,7**	**2**	**1,5**

Application range

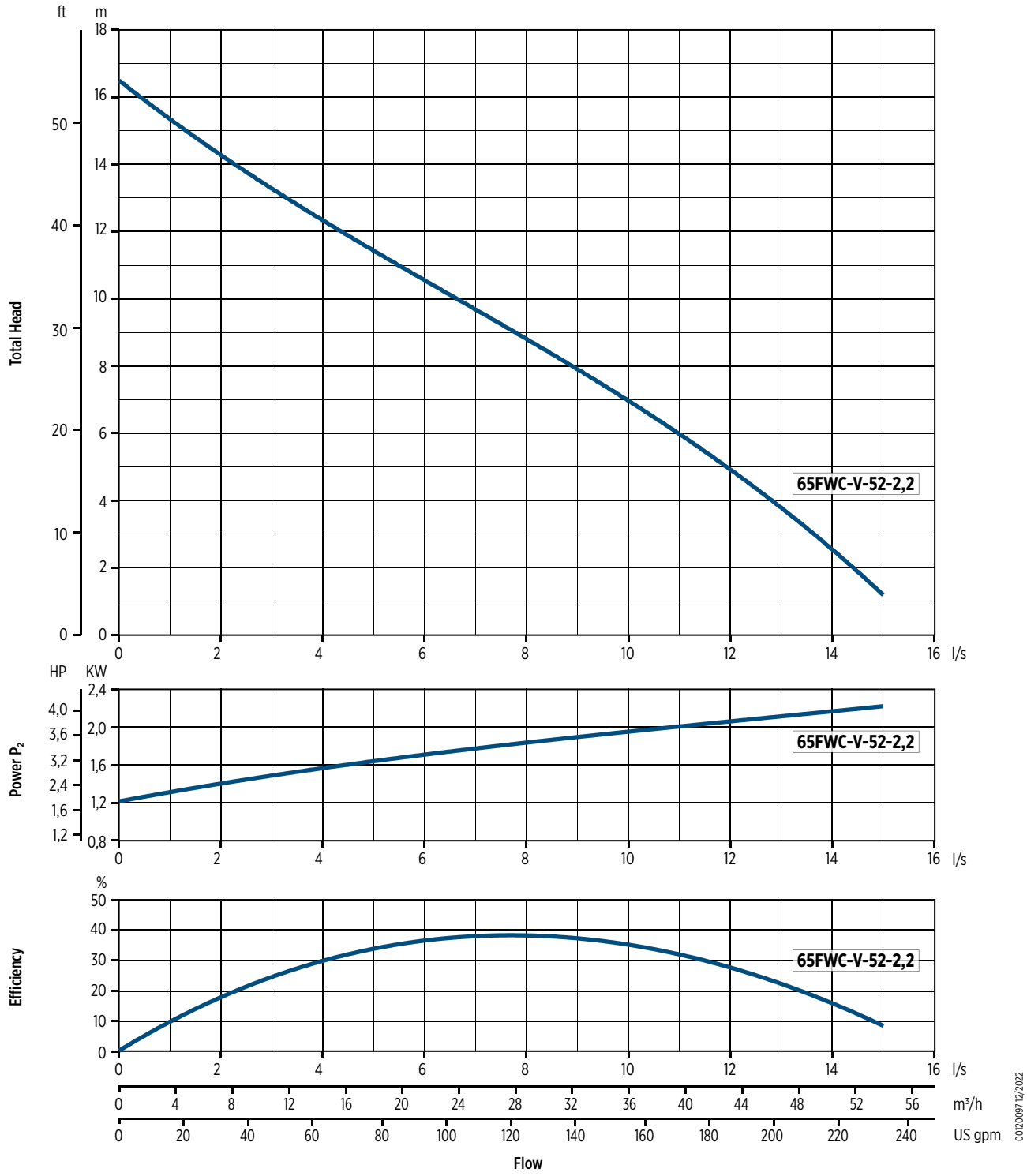
TECHNICAL DATA

Pump model	Motor absorbed power P_1	Rated power P_2		Voltage	Rated current	Phases	Power cable		Float switch	Starting capacitor	Discharge port	Weight [kg]
	[kW]	[kW]	[HP]	[V]	[A]		Length [m]	Type		[µF]		
65FWC-V-52-2,2T	3,2	2,2	3	400	5,2	3 ~	10	4G1,5	-	-	DN65	48

"-" = not available
• = available

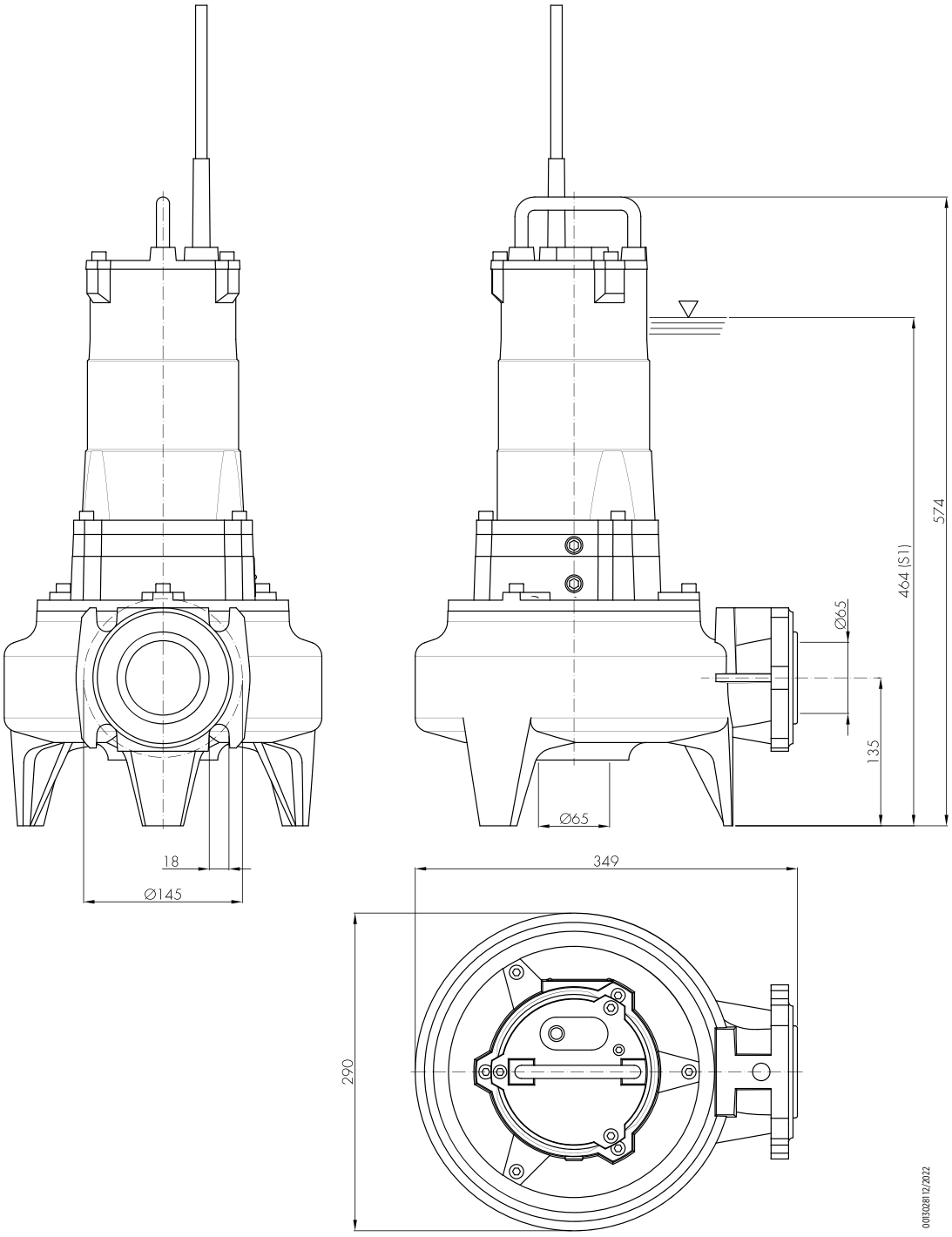
65FWC-V-52

PERFORMANCE CURVES AT 50 HZ



65FWC-V-52

DIMENSIONS



Package		
Pump model	Dimensions [mm]	Weight [kg]
65FWC-V-52-2,2	420x325x675	50

65FWC-V-52

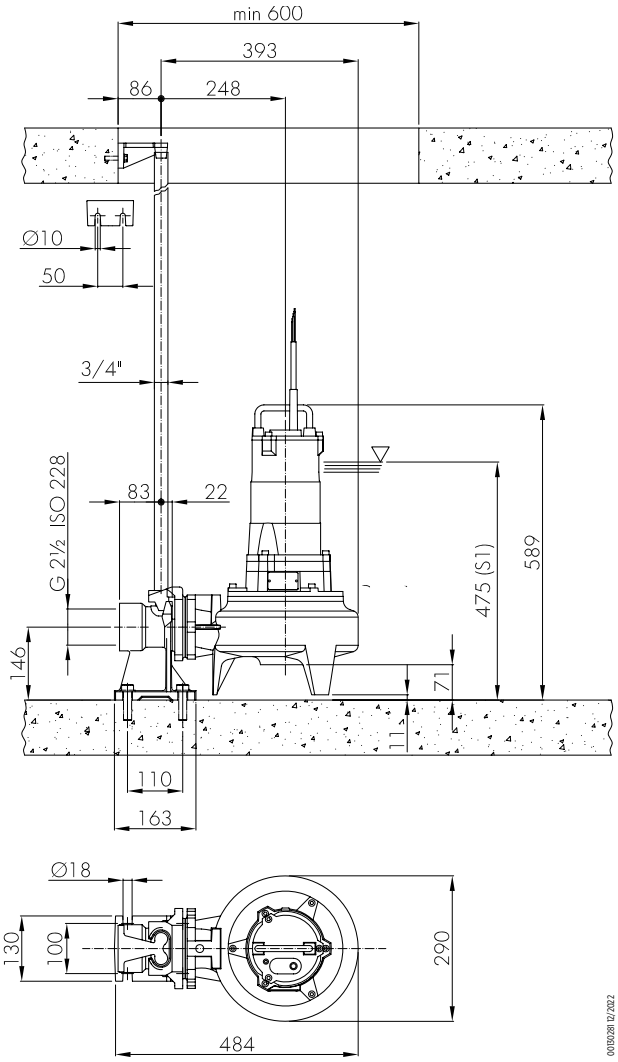
INSTALLATION

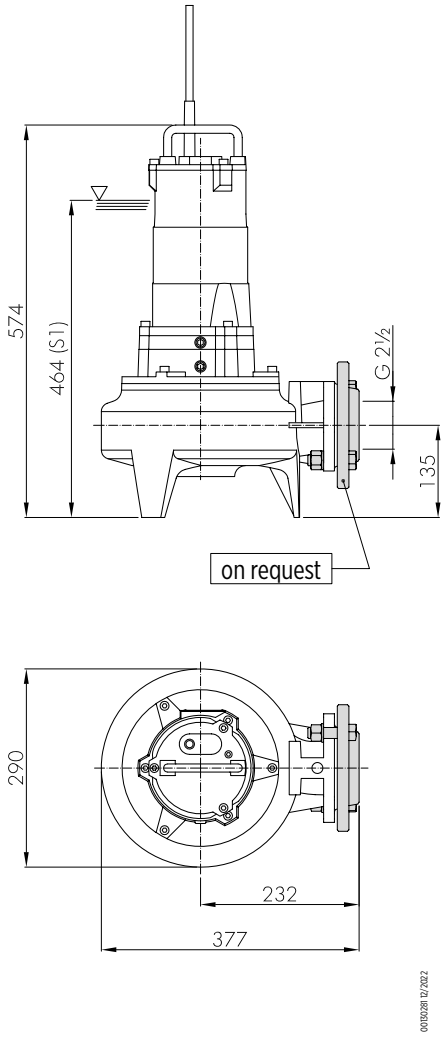
Permanent installation with coupling system

It is the recommended installation for the permanent pumping station. The electric pump is guided by two pipes and it is connected automatically to the coupling system. The quick connection ensures that the pump can be easily removed and re-installed.

Transportable installation

Transportable as emergency pump with connection to the hose and for free installation in the well.





65FWC-V-54

HYDRAULIC PERFORMANCE 50 HZ

Pump model	Q = Delivery										
	l/sec 0	4	6	8	9	10	11	12	13	14	15
	m^3/h 0	14,4	21,6	28,8	32,4	36	39,6	43,2	46,8	50,4	54
	US gpm 0	63,4	92,1	126,8	142,6	158,5	174,3	190,2	206	221,9	237,7
	H = Total meters head of water column [m]										
65FWC-V-54-0,75	6	**4.7**	**3.8**	**3**	**2**						
65FWC-V-54-1,1	8.2	**7**	**6.1**	**5**	**4.3**	**3.7**	**3**	**2.2**	**1.2**		
65FWC-V-54-1,6	11	**9.5**	**8.5**	**7.2**	**6.6**	**6.1**	**5.9**	**5.4**	**4.9**	**4**	**2.8**

Application range

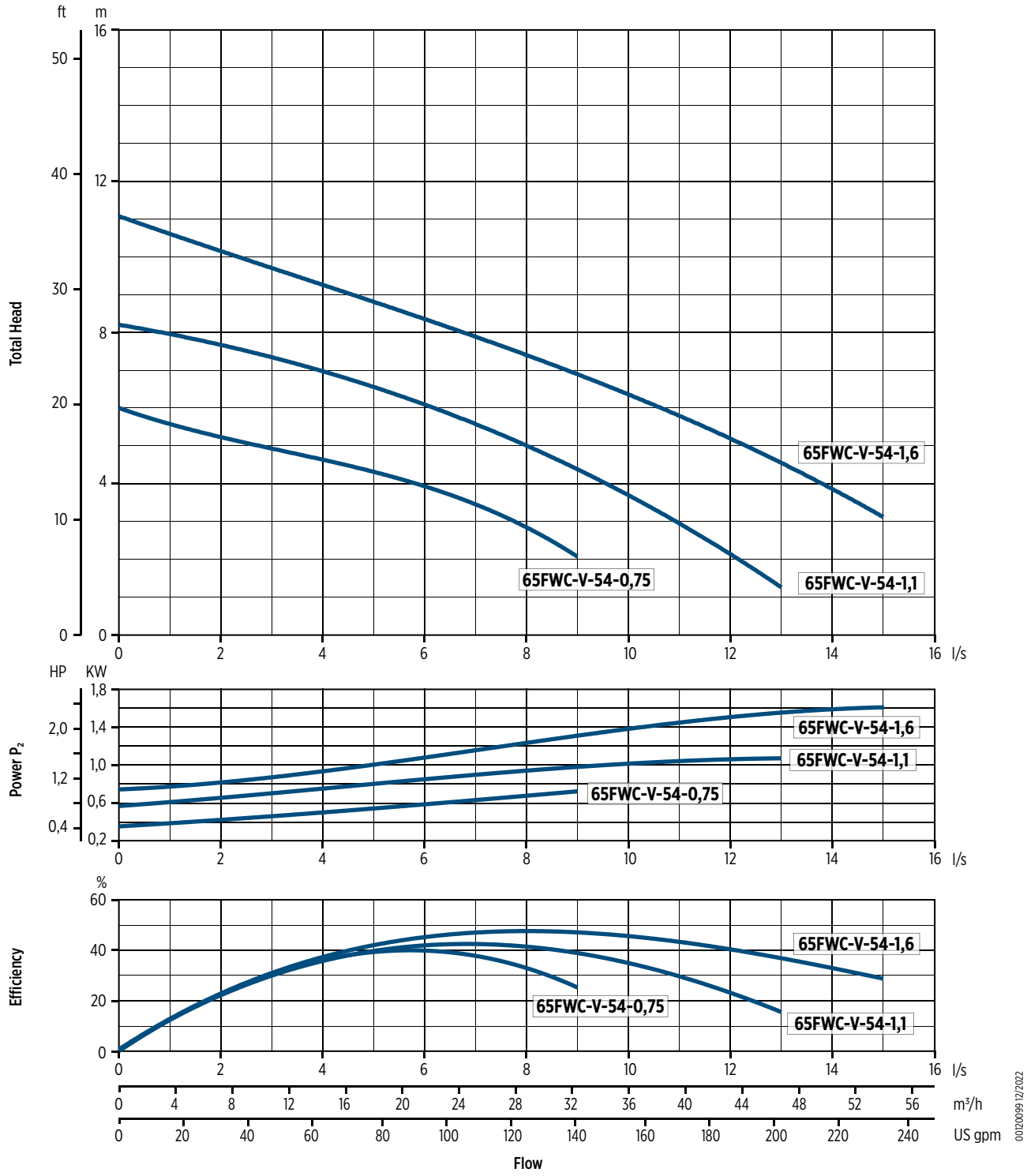
TECHNICAL DATA

Pump model	Motor absorbed power P_1	Rated power P_2		Voltage	Rated current	Phases	Power cable		Float switch	Starting capacitor	Discharge port	Weight [kg]
	[kW]	[kW]	[HP]	[V]	[A]		Length [m]	Type		[µF]		
65FWC-V-54-0,75M	1	0,75	1	230	5	1 ~	10	4G1,5	-	14	DN65	38
65FWC-V-54-0,75M-G	1	0,75	1	230	5	1 ~	10	4G1,5	•	14	DN65	38
65FWC-V-54-0,75T	1	0,75	1	400	1,9	3 ~	10	4G1,5	-	-	DN65	38
65FWC-V-54-0,75T-G	1	0,75	1	400	1,9	3 ~	10	4G1,5	•	-	DN65	38
65FWC-V-54-1,1M	1,5	1,1	1,5	230	7	1 ~	10	4G1,5	-	20	DN65	39
65FWC-V-54-1,1M-G	1,5	1,1	1,5	230	7	1 ~	10	4G1,5	•	20	DN65	39
65FWC-V-54-1,1T	1,5	1,1	1,5	400	2,8	3 ~	10	4G1,5	-	-	DN65	39
65FWC-V-54-1,1T-G	1,5	1,1	1,5	400	2,8	3 ~	10	4G1,5	•	-	DN65	39
65FWC-V-54-1,6T	2,5	1,6	2,1	400	4,4	3 ~	10	4G1,5	-	-	DN65	40

"-" = not available
• = available

65FWC-V-54

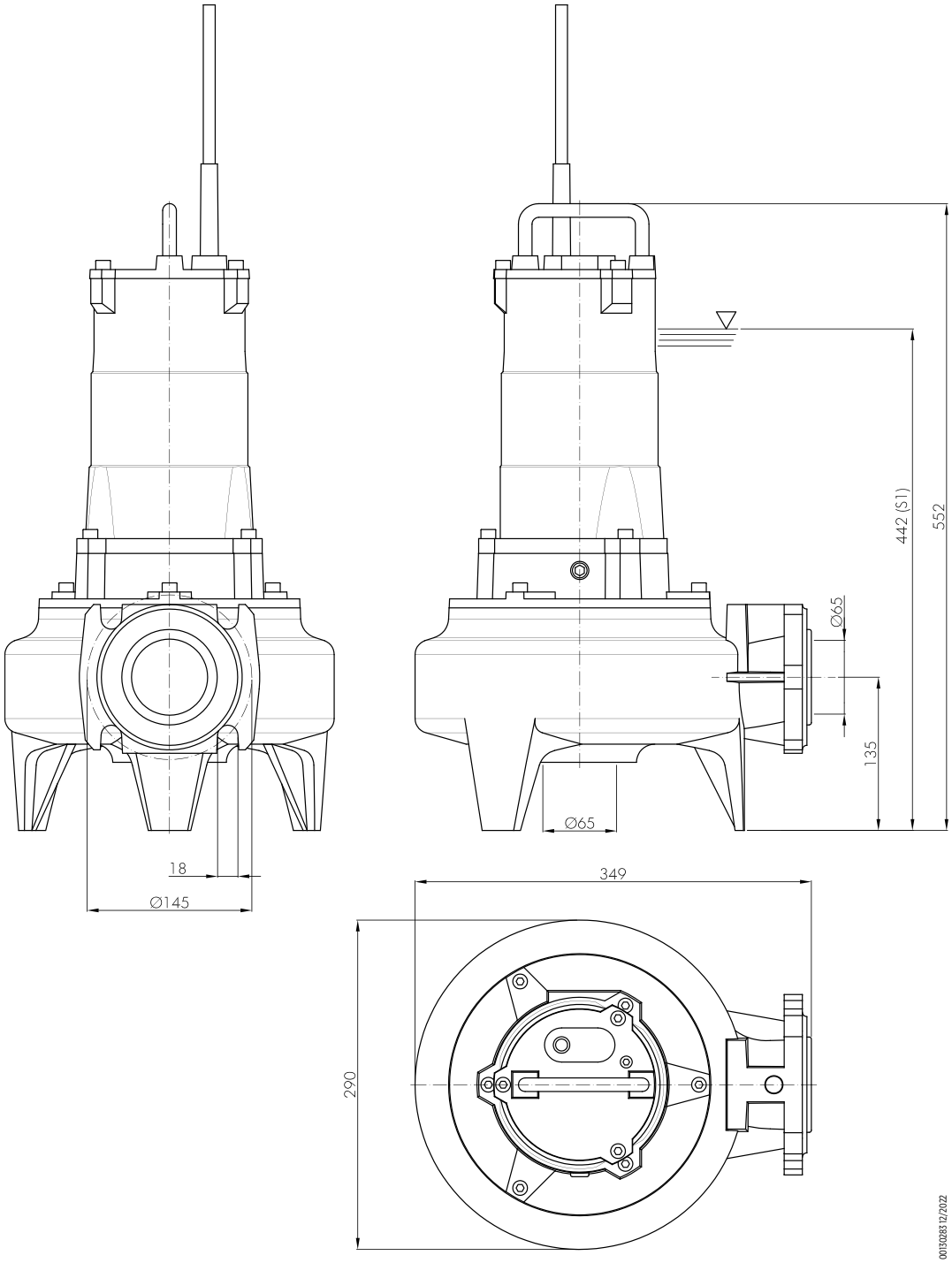
PERFORMANCE CURVES AT 50 HZ



00120099 12/2022

65FWC-V-54

DIMENSIONS



Package		
Pump model	Dimensions [mm]	Weight [kg]
65FWC-V-54-0,75	420x325x675	40
65FWC-V-54-1,1		41
65FWC-V-54-1,6		42

65FWC-V-54

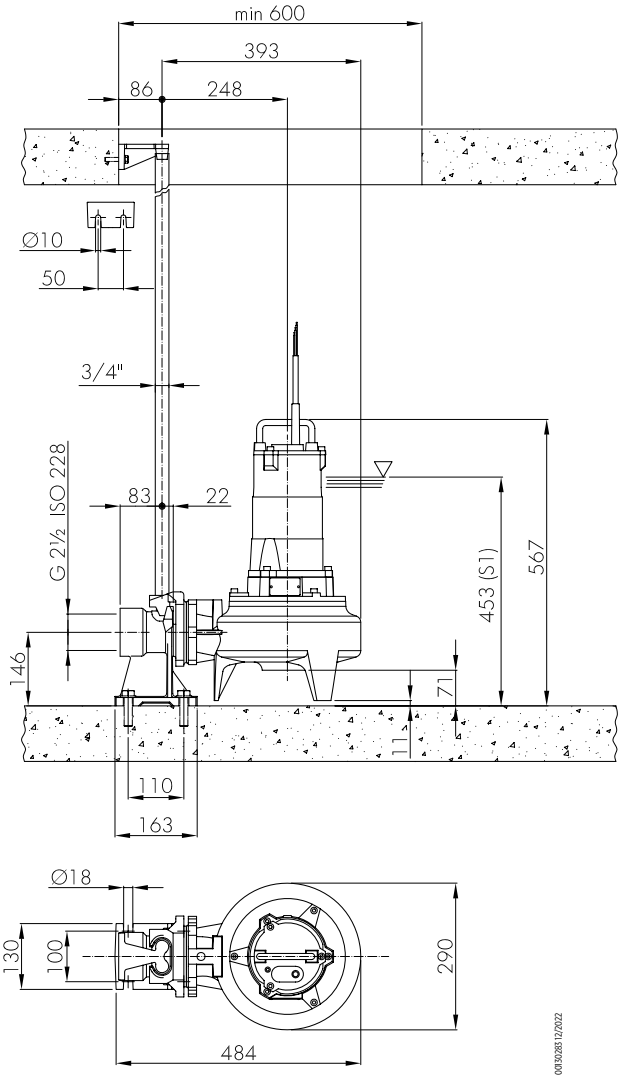
INSTALLATION

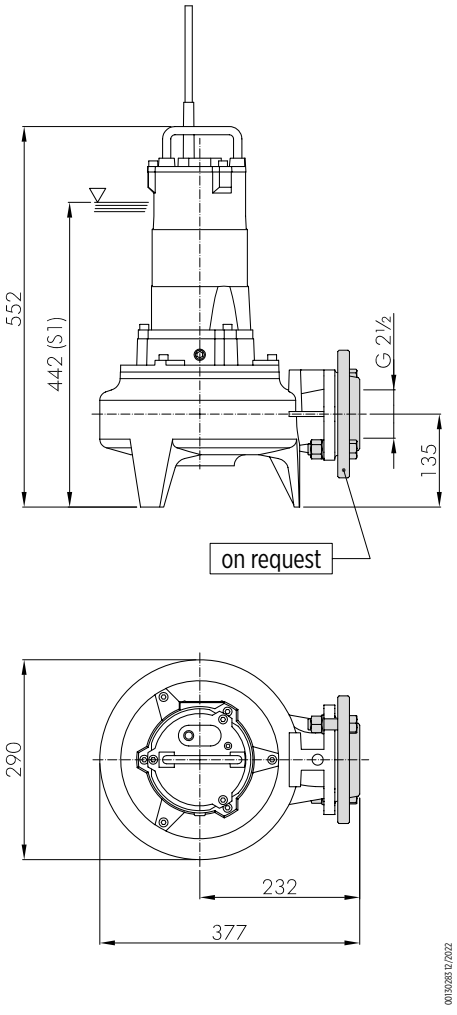
Permanent installation with coupling system

It is the recommended installation for the permanent pumping station. The electric pump is guided by two pipes and it is connected automatically to the coupling system. The quick connection ensures that the pump can be easily removed and re-installed.

Transportable installation

Transportable as emergency pump with connection to the hose and for free installation in the well.





65FWC-M-52

HYDRAULIC PERFORMANCE 50 HZ

Pump model	Q = Delivery												
	l/sec 0	4	6	8	9	10	11	12	13	14	15	16	18
	m^3/h 0	14,4	21,6	28,8	32,4	36	39,6	43,2	46,8	50,4	54	57,6	64,8
	US gpm 0	63,4	92,1	126,8	142,6	158,5	174,3	190,2	206	221,9	237,7	253,6	285,3
	H = Total meters head of water column [m]												
65FWC-M-52-1,6	18,5	**12,5**	**10,4**	**8,5**	**7,7**	**6,8**	**5,7**	**4,9**	**3,6**	**2,3**	**1**		
65FWC-M-52-2,2	24	**17,8**	**15,3**	**13,2**	**12**	**11,3**	**10,2**	**9,1**	**7,9**	**6,6**	**5,1**	**3,6**	**1**

Application range

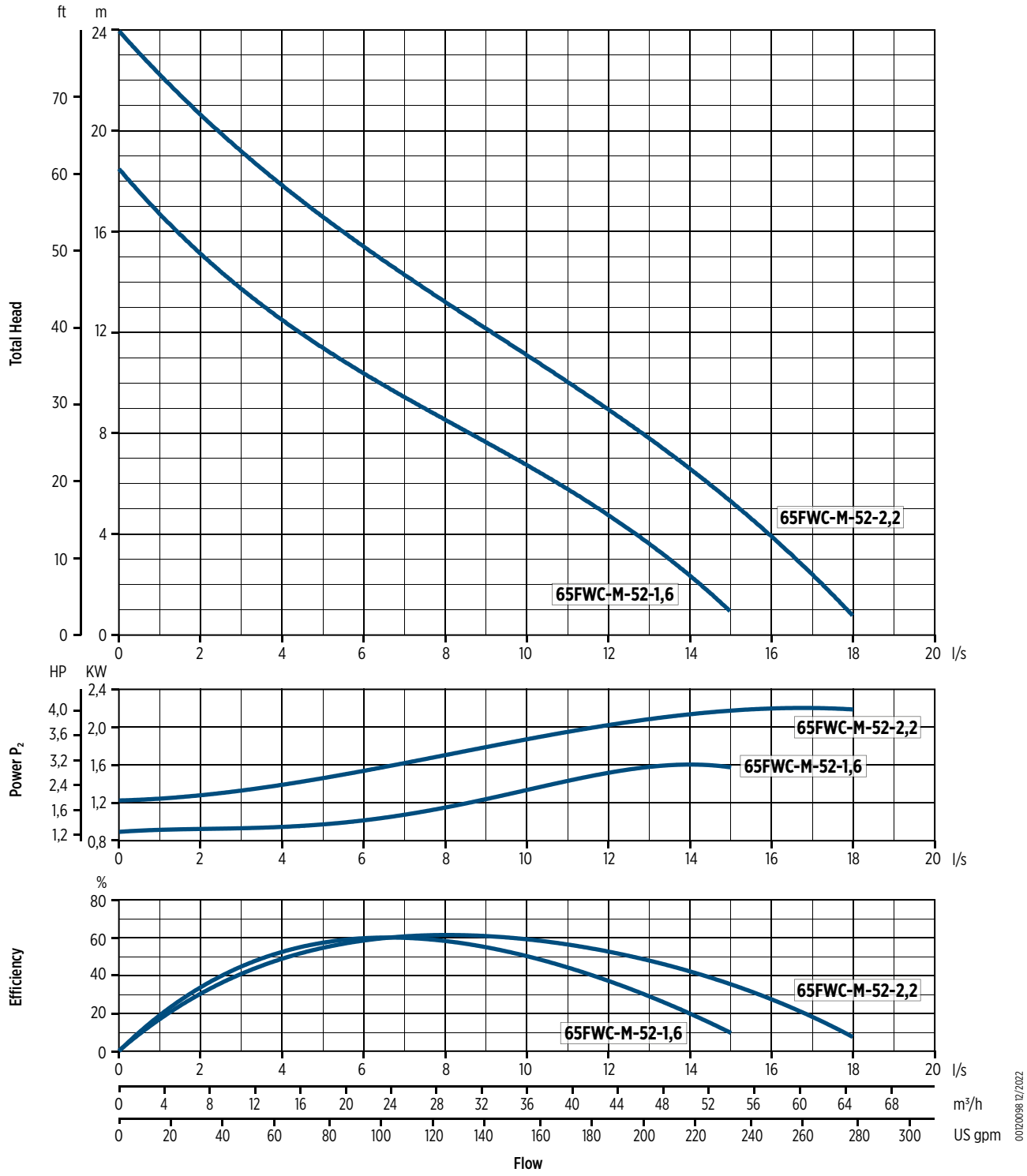
TECHNICAL DATA

Pump model	Motor absorbed power P_1	Rated power P_2		Voltage	Rated current	Phases	Power cable		Float switch	Starting capacitor	Discharge port	Weight [kg]
	[kW]	[kW]	[HP]	[V]	[A]		Length [m]	Type		[µF]		
65FWC-M-52-1,6T	2,5	1,6	2,1	400	4,4	3 ~	10	4G1,5	-	-	DN65	50
65FWC-M-52-2,2T	3,2	2,2	3	400	5,2	3 ~	10	4G1,5	-	-	DN65	50

"-" = not available
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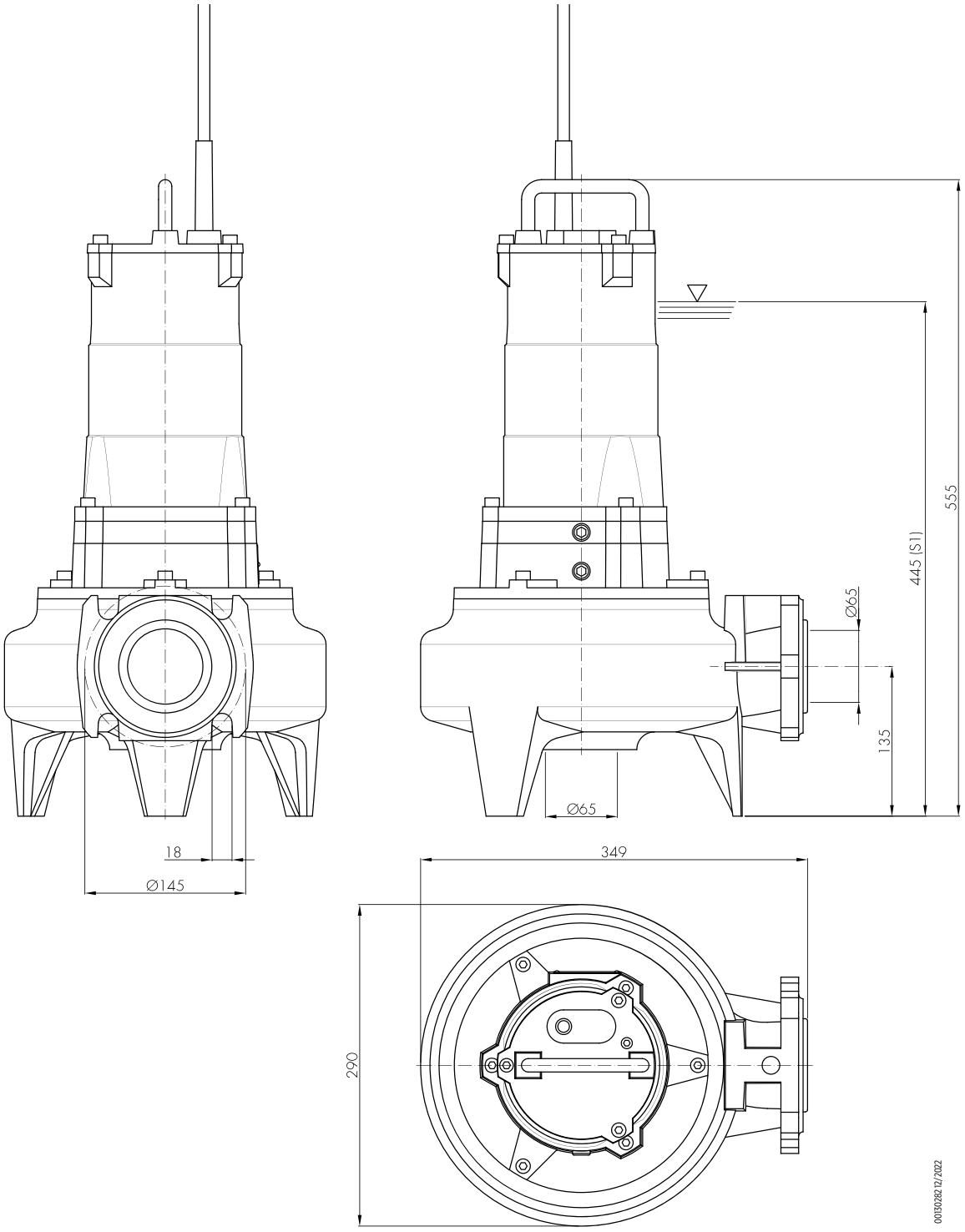
65FWC-M-52

PERFORMANCE CURVES AT 50 HZ



65FWC-M-52

DIMENSIONS



Package		
Pump model	Dimensions [mm]	Weight [kg]
65FWC-M-52-1,6T	420x325x675	52
65FWC-M-52-2,2T		

65FWC-M-52

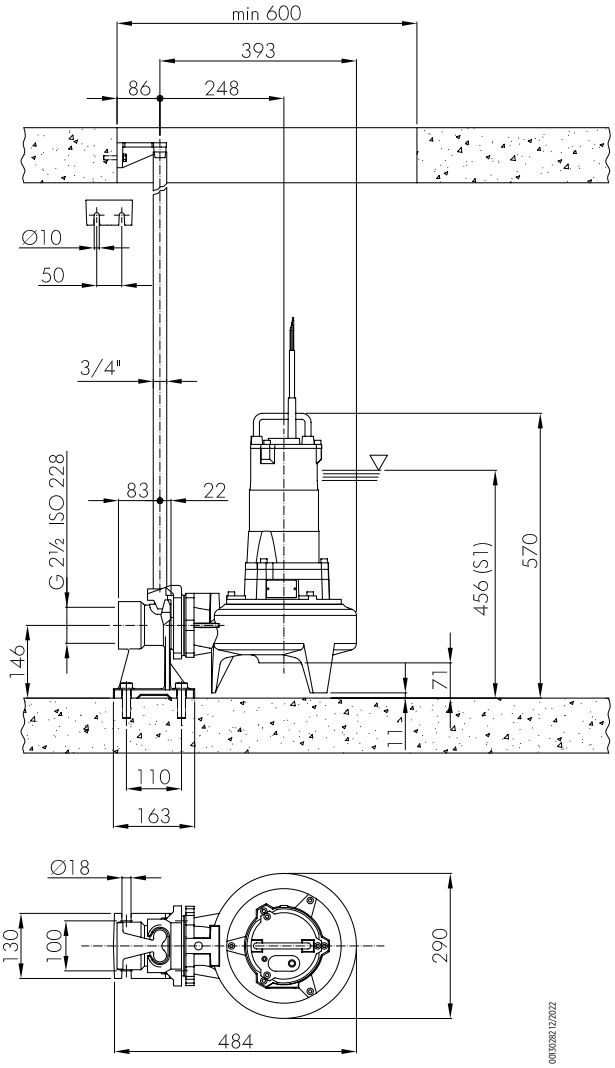
INSTALLATION

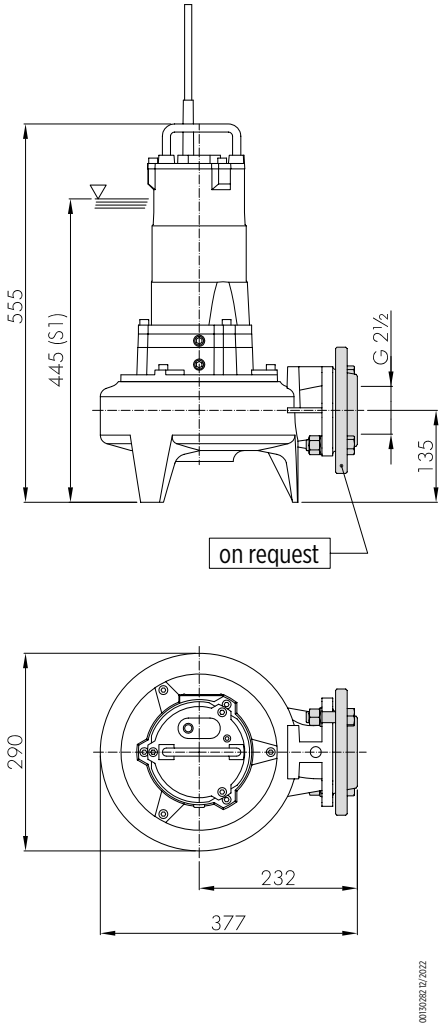
Permanent installation with coupling system

It is the recommended installation for the permanent pumping station. The electric pump is guided by two pipes and it is connected automatically to the coupling system. The quick connection ensures that the pump can be easily removed and re-installed.

Transportable installation

Transportable as emergency pump with connection to the hose and for free installation in the well.





80FWC Series – Submersible Wastewater pumps

- Pump models – discharge DN80:
  - 80FWC-V-54 (Vortex impeller, 4 poles motor)
  - 80FWC-M-54 (Single channel impeller, 4 poles motor)
- Impeller type: Vortex (V) or single-channel (M)
- Double mechanical seal
- Fully cast iron construction
- 10 m S1RN8-F power cable
- Stainless steel shackle for handling and movement
- Wide range of accessories available



Technical data

- Flow: up to 169.2 m^3/h
- Total Head: up to 19.8 m
- Motor power: 1.6 - 5.5 kW
- Minimum immersion depth:
  - 500 mm (80FWC-V-54)
  - 517 mm (80FWC-M-54)
- Maximum immersion depth: 5 m
- Free passage: 80 mm

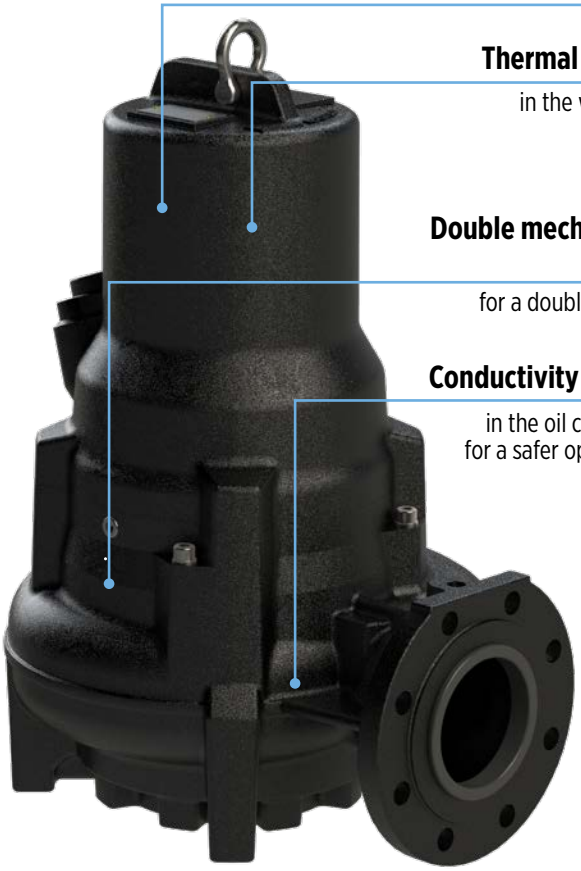
Cast iron construction
to withstand harsh conditions

4 poles motor

Thermal probe
in the winding

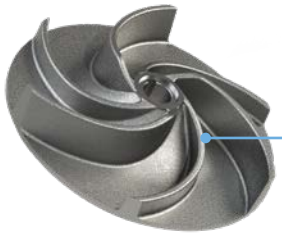
Double mechanical seal
for a double safety

Conductivity probe
in the oil chamber
for a safer operation



ACCESSORIES

- Threaded flange kit
- Base frame
- Competitor replacement adapter
- Coupling system
- Chain AISI316
- Shackle AISI316
- For more information about accessories see p. 94



Vortex impeller (V)
for a wide passage



Single channel impeller (M)
for high head

For liquids with an high solid content or with filamentous particles

Extraction of water from ponds, streams or pits and for rainwater collection

Pumping of industrial sewage, screened wastewater and sludge

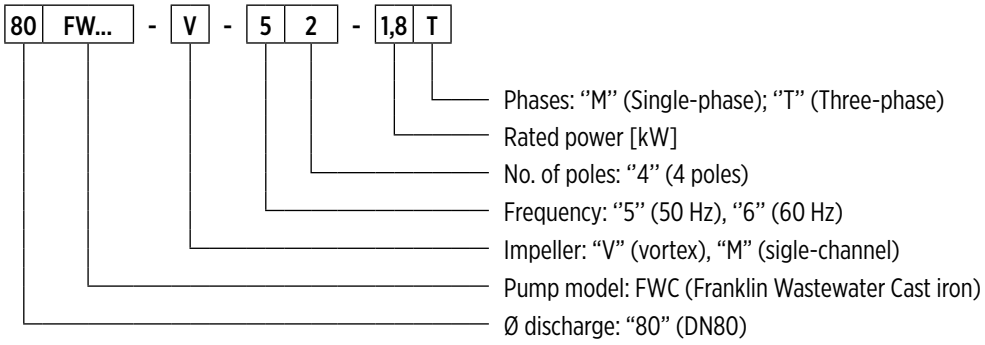
Pumping of clear water and rainwater

Domestic / Industrial grey water

Lift and pumping stations

80FWC Series – Submersible Wastewater pumps

PRODUCT IDENTIFICATION CODE



00140086 03/2026

GENERAL FEATURES

Materials/Constr.design		
Impeller		Cast iron EN GJS400
External casing		Cast iron EN GJL250
Pump body		Cast iron EN GJL250
Cover		Cast iron EN GJL250
Mechanical seal	**motor side**	Graphite/Alumina
	pump side	Silicon carbide (SiC/SiC)
Motor shaft		Stainless steel AISI420
Power cable	**Type**	10 m S1RN8-F
	80FWC-V-54-1,6T, 80FWC-V-54-2,2T, 80FWC-V-54-3,1T, 80FWC-M-54-2,2T, 80FWC-M-54-3,1T	4G1,5+3x1mm²
	80FWC-V-54-5,5T , 80FWC-M-54-5,5T	4G2,5+3x1mm²
Motor		
Constr.design		asynchronous squirrel cage-type in dry chamber
Type		4 poles; 50 Hz
Insulation class		F
Protection degree		IP68
Voltage	**Three-phase**	400V ±10%
Probe		Thermal probe in the winding
		Conductivity probe in the oil chamber
Operating limits		
Maximum liquid temperature		+40 °C
pH of pumped liquid		6- 10
Liquid density		1,0 kg/dm³
Maximum immersion depth		5 m
Min. immersion depth for continuous service	**80FWC-V-54**	500 mm
	80FWC-M-54	517 mm
Free passage		80 mm
Max. number of starting/hour		20
Construction options		

- 60 Hz version
- Different voltages

80FWC-V-54

HYDRAULIC PERFORMANCE 50 HZ

Pump model	Q = Delivery															
	l/sec 0	6	8	10	12	14	16	18	20	22	24	26	28	30	32	34
	m^3/h 0	21,6	28,8	36	43,2	50,4	57,6	64,8	72	79,2	86,4	93,6	100,8	108	115,2	122,4
	US gpm 0	92,1	126,8	158,5	190,2	221,9	253,6	285,3	317	348,7	380,4	412,1	443,8	475,5	507,2	538,9
	H = Total meters head of water column [m]															
80FWC-V-54-1,6T	9	**7,5**	**6,9**	**6,2**	**5,4**	**4,7**	**3,8**	**3**	**2,2**							
80FWC-V-54-2,2T	10,5	**8,8**	**8,3**	**7,6**	**6,9**	**6,3**	**5,5**	**4,7**	**3,7**	**2,7**						
80FWC-V-54-3,1T	13	**11,1**	**10,6**	**9,9**	**9,3**	**8,6**	**7,9**	**7,1**	**6,3**	**5,4**	**4,4**	**3,2**	**2**			
80FWC-V-54-5,5T	16	**14,1**	**13,6**	**12,8**	**12,3**	**11,7**	**11**	**10,3**	**9,5**	**8,7**	**7,8**	**6,9**	**5,8**	**4,8**	**3,5**	**2,3**

Application range

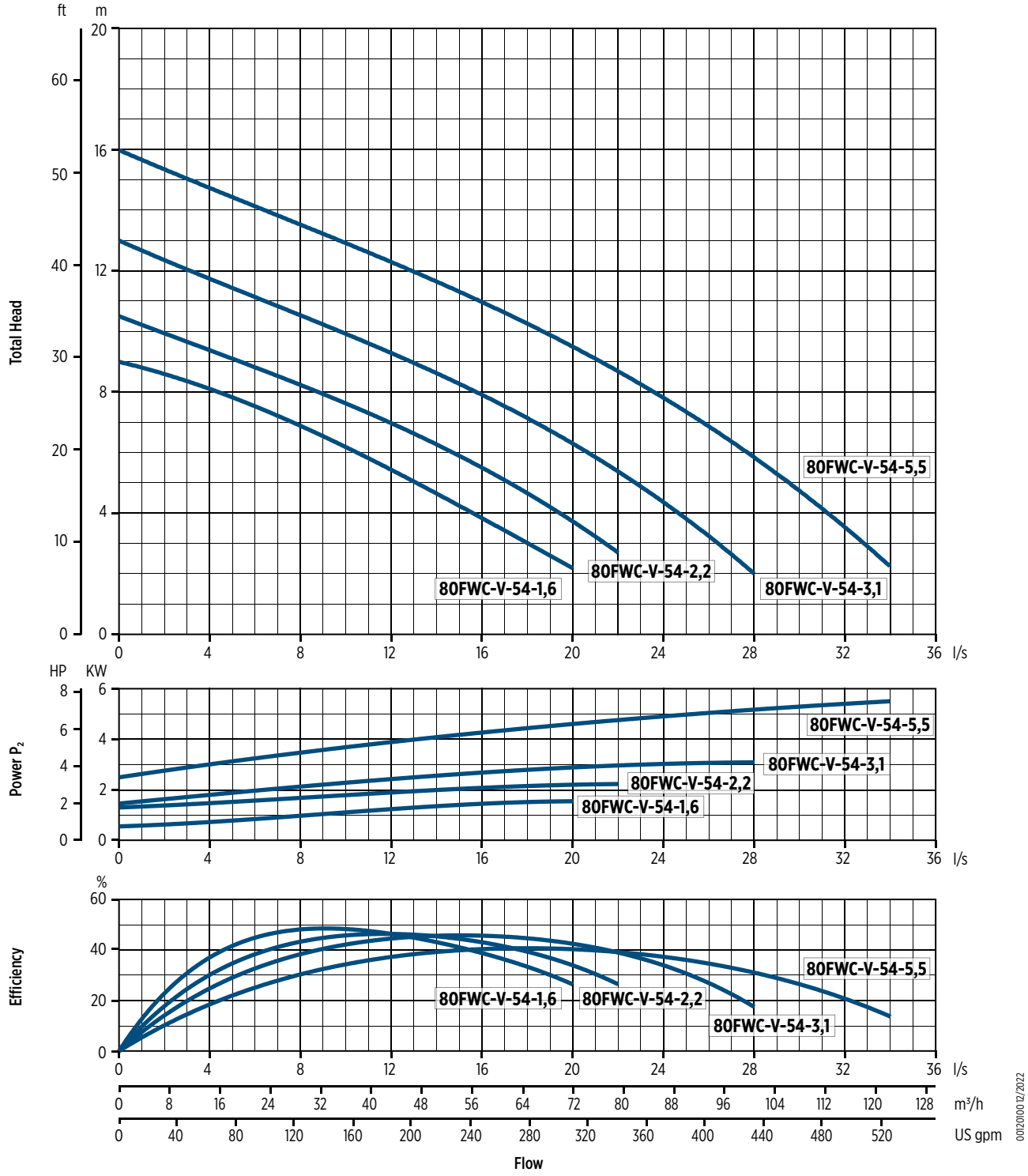
TECHNICAL DATA

Pump model	Motor absorbed power P_1	Rated power P_2		Voltage	Rated current	Phase	Power cable		Float switch	Discharge port	Weight [kg]
	[kW]	[kW]	[HP]	[V]	[A]		Length [m]	Type			
80FWC-V-54-1,6T	2,3	1,6	2,1	400	4,1	3 ~	10	4G1,5+3x1	-	DN80	83
80FWC-V-54-2,2T	2,8	2,2	3	400	5,4	3 ~	10	4G1,5+3x1	-	DN80	85
80FWC-V-54-3,1T	3,9	3,1	4,2	400	7,5	3 ~	10	4G1,5+3x1	-	DN80	89
80FWC-V-54-5,5T	6,6	5,5	7,5	400	11,7	3 ~	10	4G2,5+3x1	-	DN80	100

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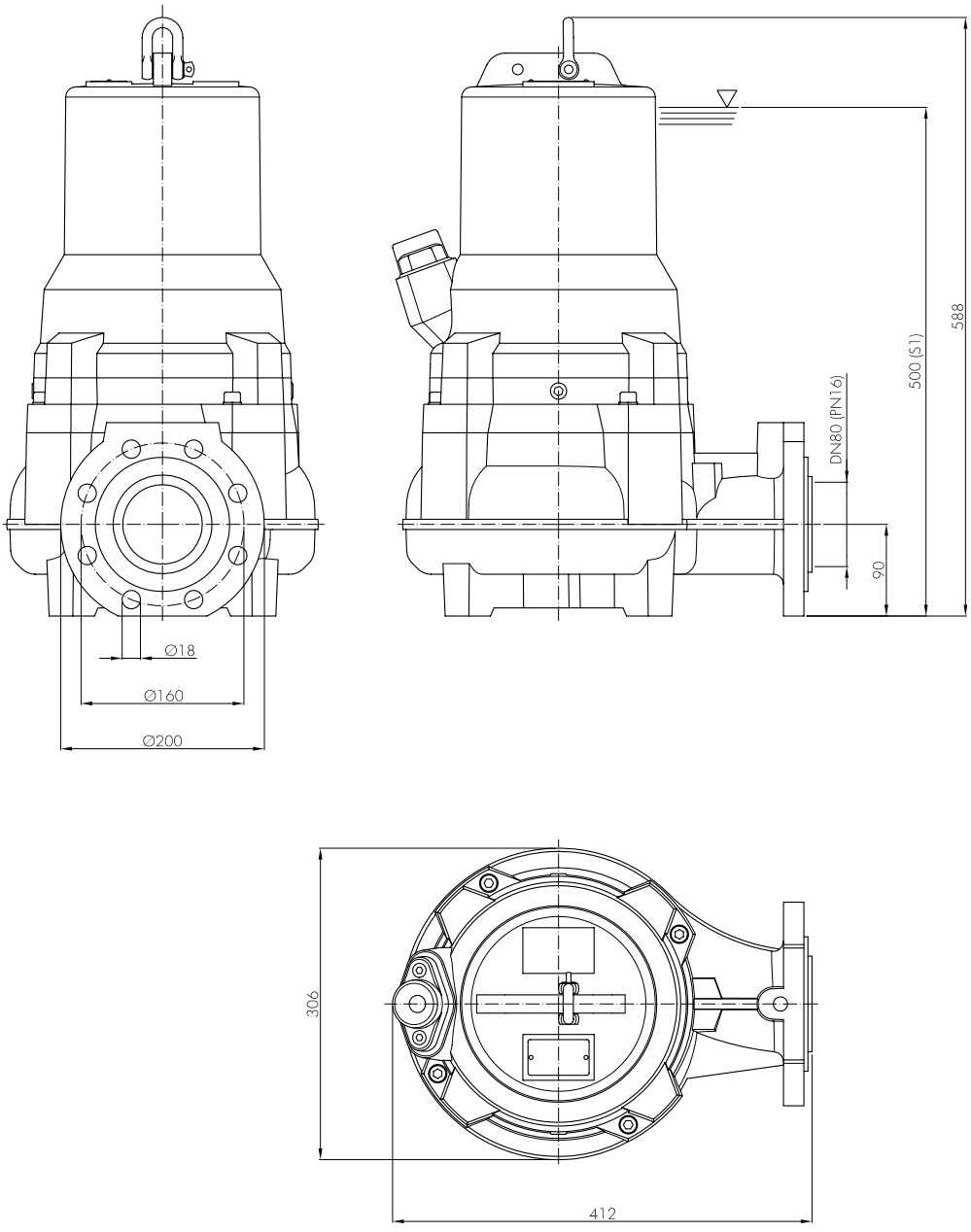
80FWC-V-54

PERFORMANCE CURVES AT 50 HZ



80FWC-V-54

DIMENSIONS



00150284 12/2022

Package		
Pump model	Dimensions [mm]	Weight [kg]
80FWC-V-54-1,6T	420x325x675	85
80FWC-V-54-2,2T		87
80FWC-V-54-3,1T		91
80FWC-V-54-5,5T		102

80FWC-V-54

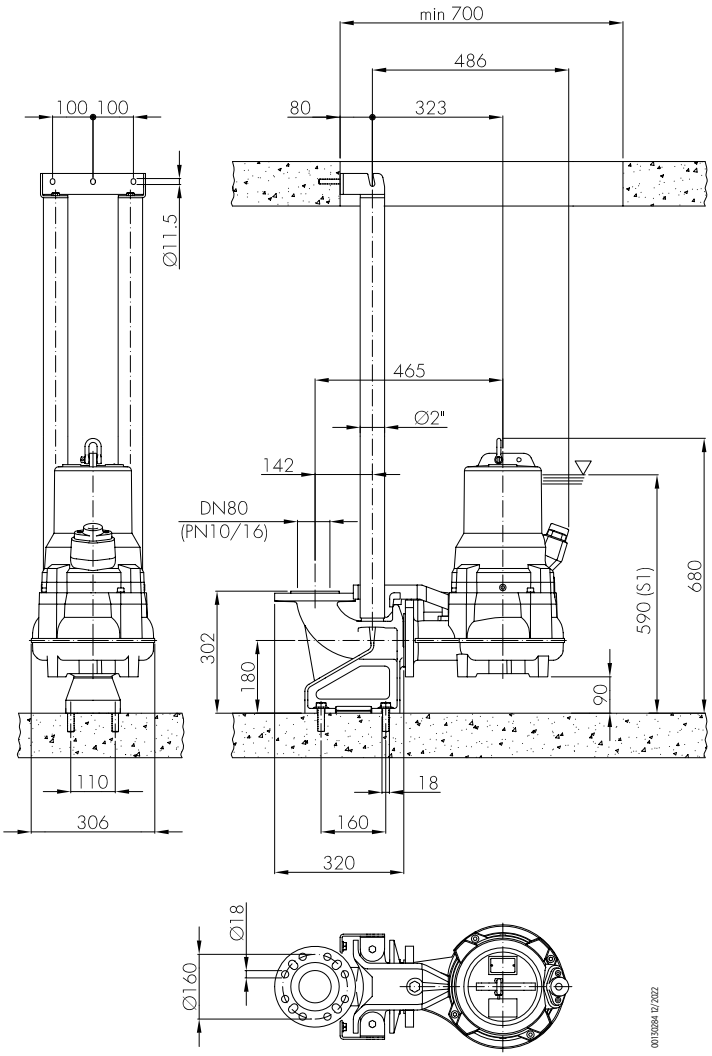
INSTALLATION

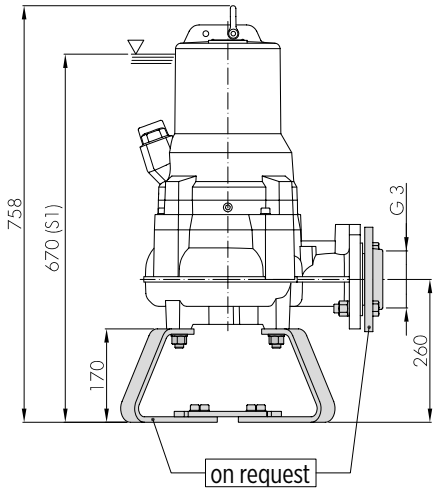
Permanent installation with coupling system

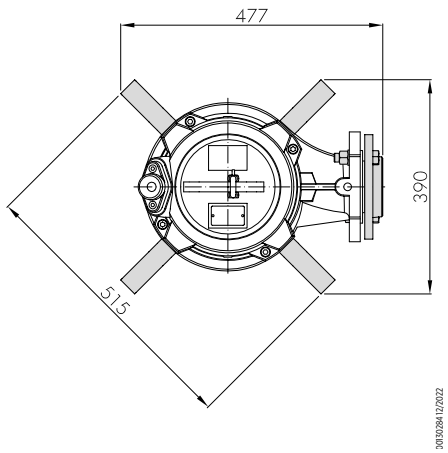
It is the recommended installation for the permanent pumping station. The electric pump is guided by two pipes and it is connected automatically to the coupling system. The quick connection ensures that the pump can be easily removed and re-installed.

Transportable installation

Transportable as emergency pump with connection to the hose and for free installation in the well.







80FWC-M-54

HYDRAULIC PERFORMANCE 50 HZ

Pump model	Q = Delivery												
	l/sec 0	6	10	15	20	25	30	35	38	40	42,8	45	47
	m^3/h 0	21,6	36	54	72	90	108	126	136,8	144	154,1	162	169,2
	US gpm 0	92,1	158,5	237,7	317	396,2	475,5	554,8	602,3	634	678,4	713,3	745
	H = Total meters head of water column [m]												
80FWC-M-54-2,2T	10,8	**8,8**	**7,6**	**6,4**	**5,3**	**3,7**	**2,4**	**2**					
80FWC-M-54-3,1T	15,6	**12,1**	**10,8**	**9,6**	**8,4**	**7,1**	**5,5**	**5,2**	**3,7**	**2**			
80FWC-M-54-5,5T	19,8	**16,6**	**15,1**	**13,6**	**12,4**	**11**	**9,6**	**9,2**	**7,9**	**6,6**	**5,2**	**3**	**2**

Application range

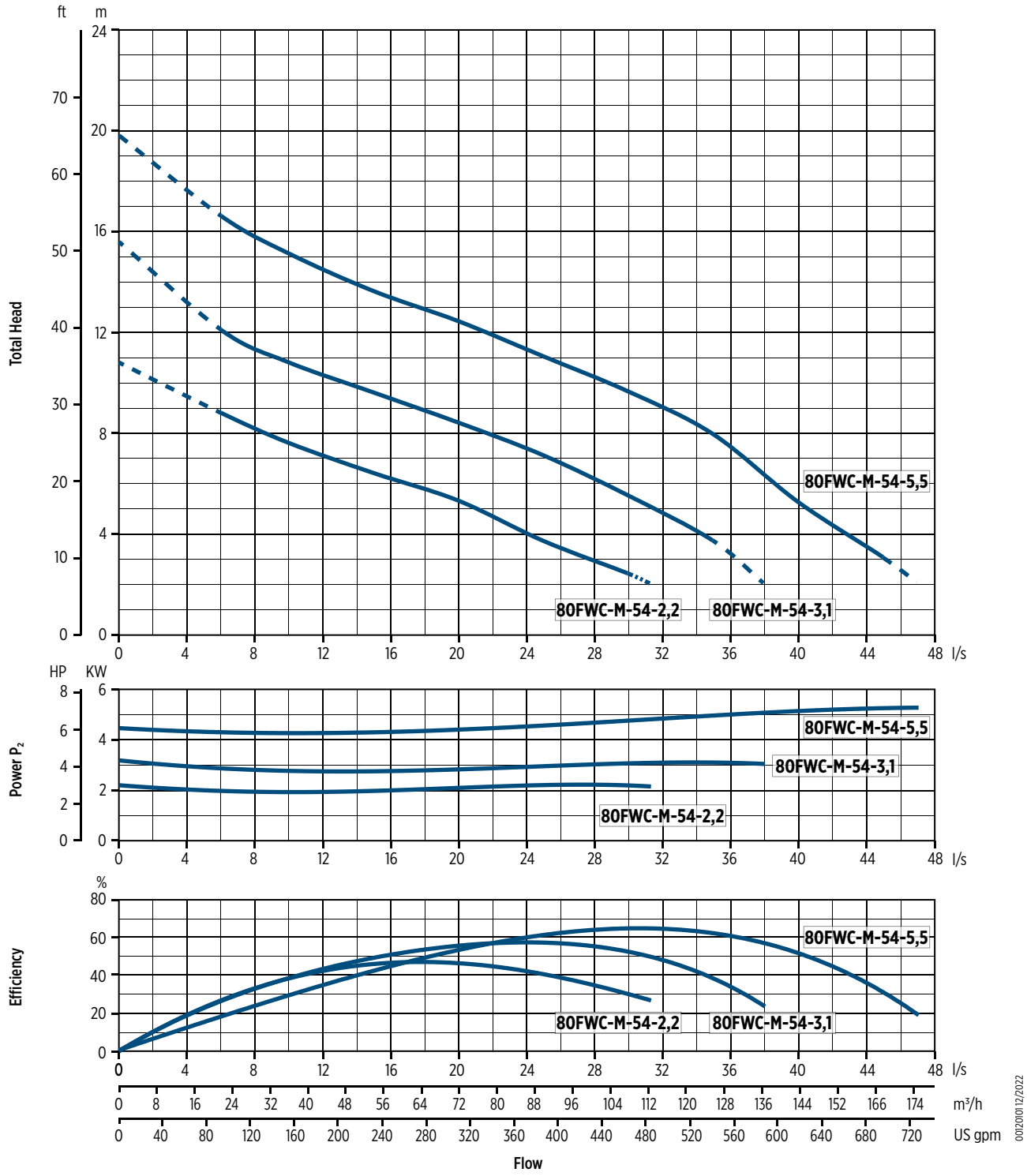
TECHNICAL DATA

Pump model	Motor absorbed power P_1	Rated power P_2		Voltage	Rated current	Phase	Power cable		Float switch	Discharge port	Weight [kg]
	[kW]	[kW]	[HP]	[V]	[A]		Length [m]	Type			
80FWC-M-54-2,2T	2,8	2,2	3	400	5,4	3 ~	10	4G1,5+3x1	-	DN80	96
80FWC-M-54-3,1T	3,9	3,1	4,2	400	7,5	3 ~	10	4G1,5+3x1	-	DN80	99
80FWC-M-54-5,5T	6,6	5,5	7,5	400	11,7	3 ~	10	4G2,5+3x1	-	DN80	111

"-" = not available
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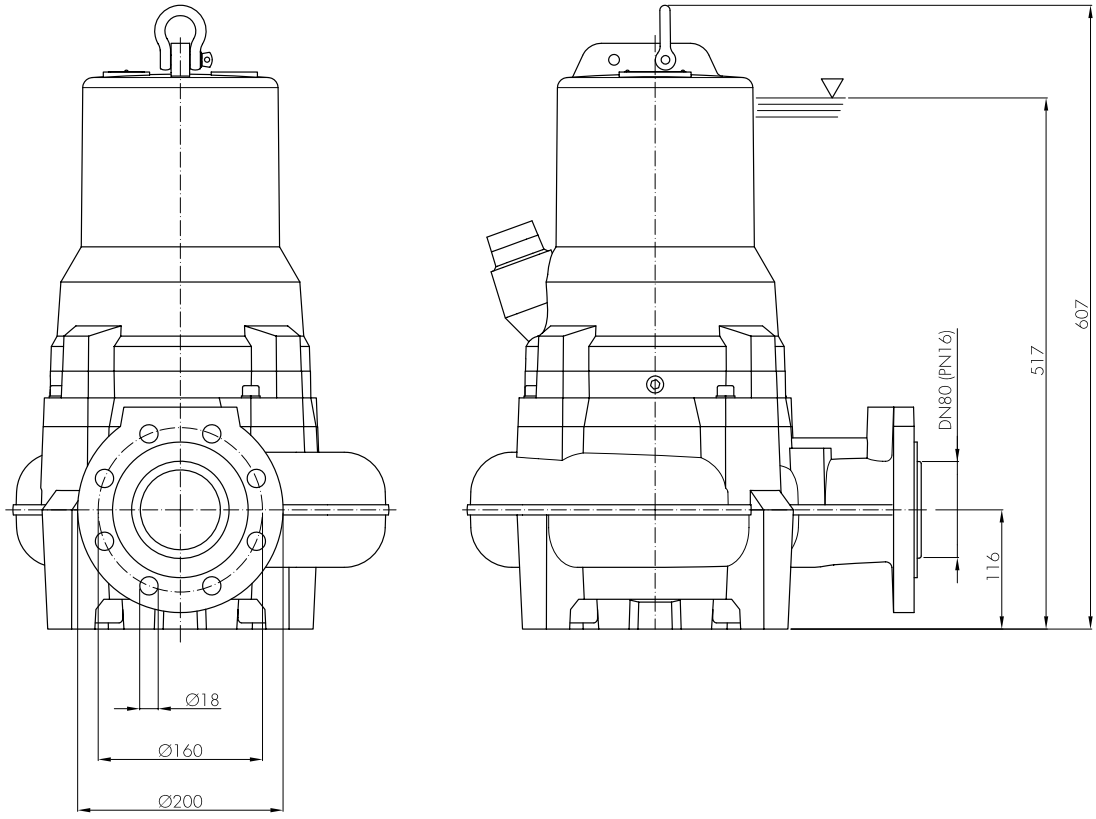
80FWC-M-54

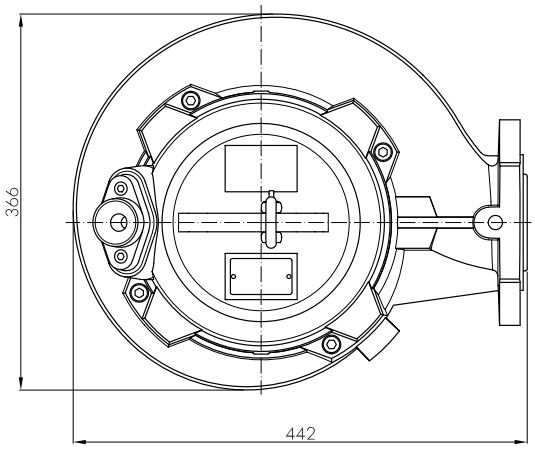
PERFORMANCE CURVES AT 50 HZ



80FWC-M-54

DIMENSIONS





00130285 12/2022

Package		
Pump model	Dimensions [mm]	Weight [kg]
80FWC-M-54-2,2T	475x370x985	99
80FWC-M-54-3,1T		102
80FWC-M-54-5,5T		114

80FWC-M-54

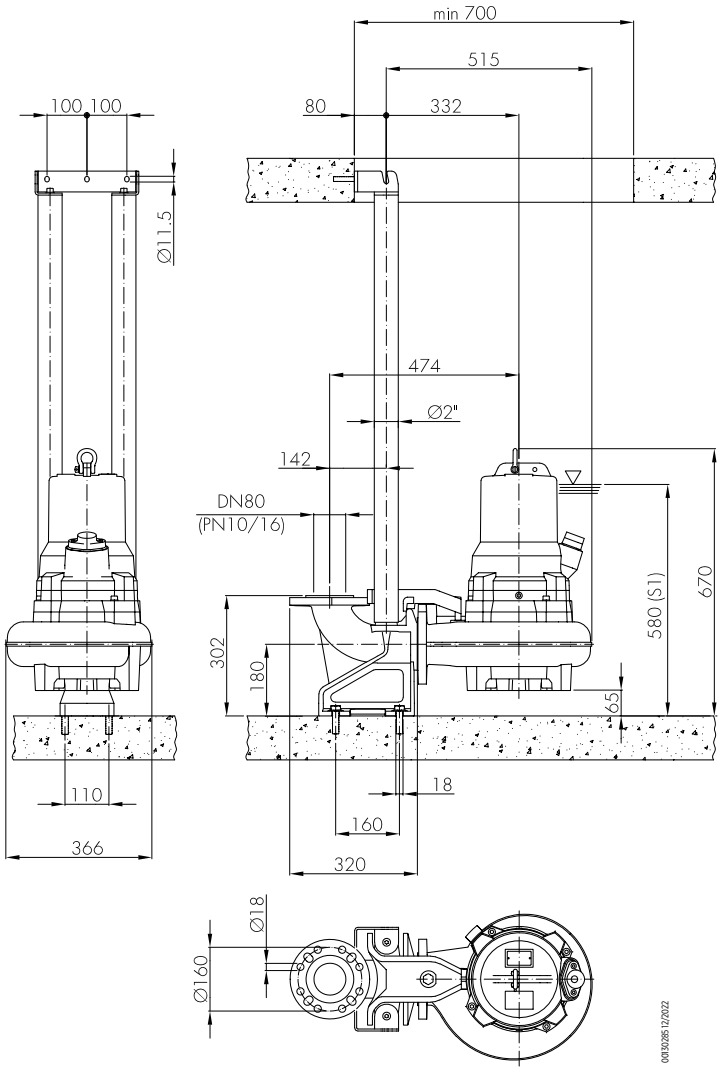
INSTALLATION

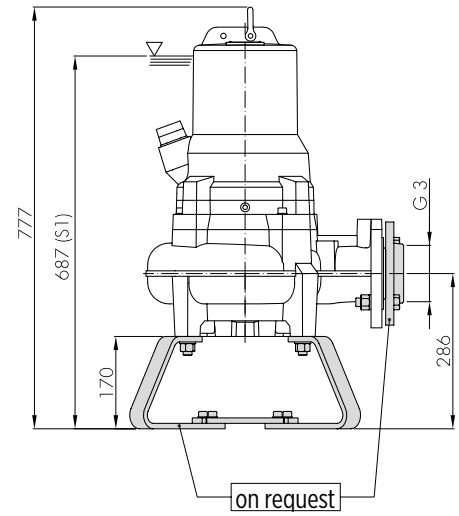
Permanent installation with coupling system

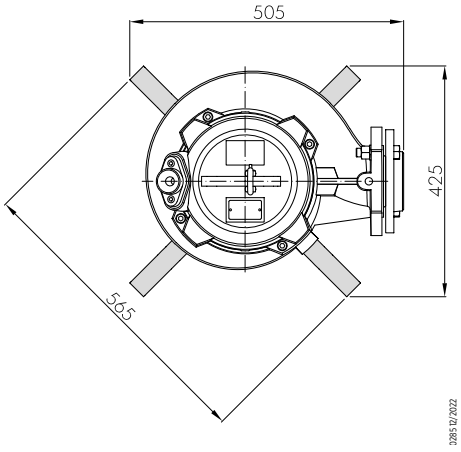
It is the recommended installation for the permanent pumping station. The electric pump is guided by two pipes and it is connected automatically to the coupling system. The quick connection ensures that the pump can be easily removed and re-installed.

Transportable installation

Transportable as emergency pump with connection to the hose and for free installation in the well.







100FWC Series- Submersible Wastewater pumps

- Pump models – discharge DN100:
  - 100FWC-M-54 (Single channel impeller, 4 poles motor)
- Impeller type: Single-channel (M)
- Double mechanical seal
- Fully cast iron construction
- 10 m S1RN8-F power cable
- Stainless steel shackle for handling and movement
- Wide range of accessories available



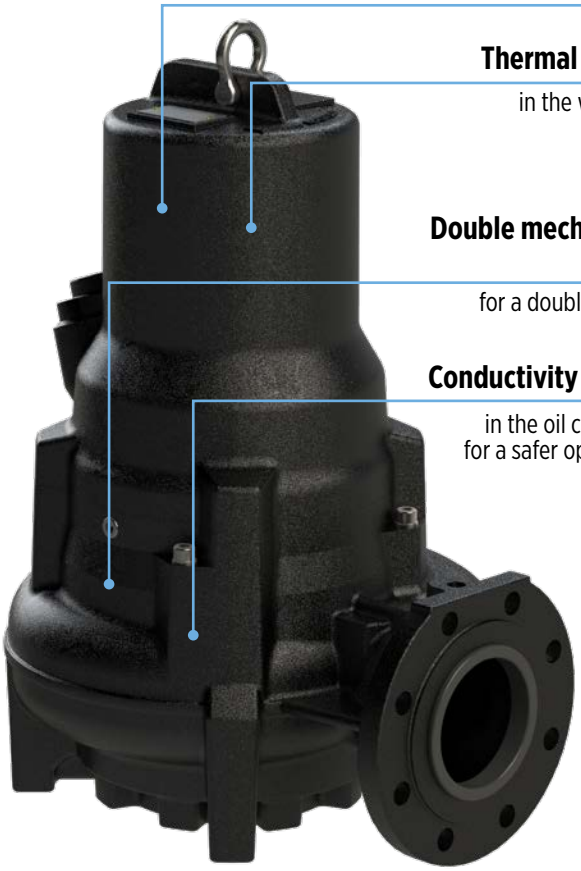
Technical data

- Flow: up to 212.4 m^3/h
- Total Head: up to 19 m
- Motor power: 2.2 - 5.5 kW
- Minimum immersion depth: 517 mm
- Maximum immersion depth: 5 m
- Free passage: 80 mm

Cast iron construction
to withstand harsh conditions

ACCESSORIES

- Threaded flange kit
- Base frame
- Competitor replacement adapter
- Coupling system
- Chain AISI316
- Shackle AISI316
- For more information about accessories see p. 94





For liquids with an high solid content or with filamentous particles

Extraction of water from ponds, streams or pits and for rainwater collection

Pumping of industrial sewage, screened wastewater and sludge

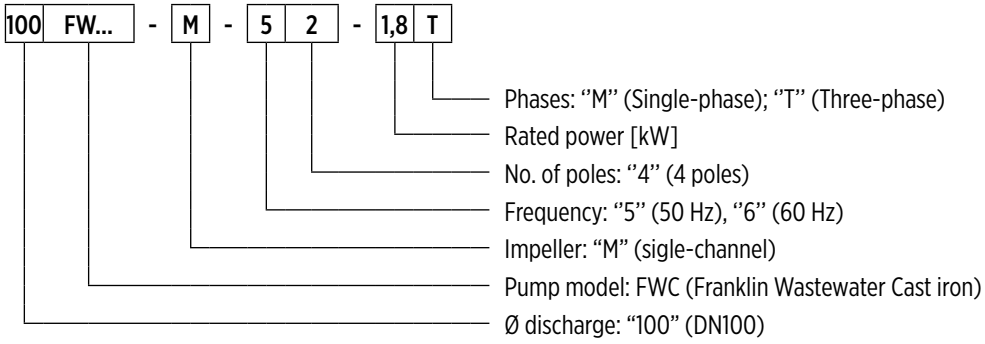
Pumping of clear water and rainwater

Domestic / Industrial grey water

Lift and pumping stations

100FWC Series- Submersible Wastewater pumps

PRODUCT IDENTIFICATION CODE



00140086 03/2026

GENERAL FEATURES

Materials/Constr.design		
Impeller		Cast iron EN GJS400
External casing		Cast iron EN GJL250
Pump body		Cast iron EN GJL250
Cover		Cast iron EN GJL250
Mechanical seal	**motor side**	Graphite/Alumina
	pump side	Silicon carbide (SiC/SiC)
Motor shaft		Stainless steel AISI420
Power cable	**Type**	10 m S1RN8-F
	100FWC-M-54-2,2T, 100FWC-M-54-3,1T	4G1,5+3x1mm^2
	100FWC-M-54-5,5T	4G2,5+3x1mm^2
Motor		
Constr.design		asynchronous squirrel cage-type in dry chamber
Type		4 poles; 50 Hz
Insulation class		F
Protection degree		IP68
Voltage	**Three-phase**	400V ±10%
Probe		Thermal probe
		Conductivity probe
Operating limits		
Maximum liquid temperature		+40 °C
pH of pumped liquid		6- 10
Liquid density		1,0 kg/dm^3
Maximum immersion depth		5 m
Min. immersion depth for continuous service		517 mm
Free passage		80 mm
Max. number of starting/hour		20
Construction options		

- 60 Hz version
- Different voltages

100FWC-M-54

HYDRAULIC PERFORMANCE 50 HZ

Pump model	Q = Delivery														
	l/sec 0	8	10	15	20	25	30	35	38	40	42,8	45	50	55	59
	m^3/h 0	28,8	36	54	72	90	108	126	136,8	144	154,1	162	180	198	212,4
	US gpm 0	126,8	158,5	237,7	317	396,2	475,5	554,8	602,3	634	678,4	713,3	792,5	871,8	935,2
	H = Total meters head of water column [m]														
100FWC-M-54-2,2T	10,6	**8,9**	**8,4**	**7,3**	**6,3**	**5,1**	**3,9**	**2,6**	**1,6**						
100FWC-M-54-3,1T	12,7	**11**	**10,5**	**9,4**	**8,4**	**7,2**	**6**	**4,5**	**3,6**	**3**	**2**				
100FWC-M-54-5,5T	19	**16**	**15,2**	**13,8**	**12,5**	**11,3**	**10,2**	**9,1**	**8,3**	**7,8**	**7,1**	**6,5**	**4,8**	**3**	**1,3**

Application range

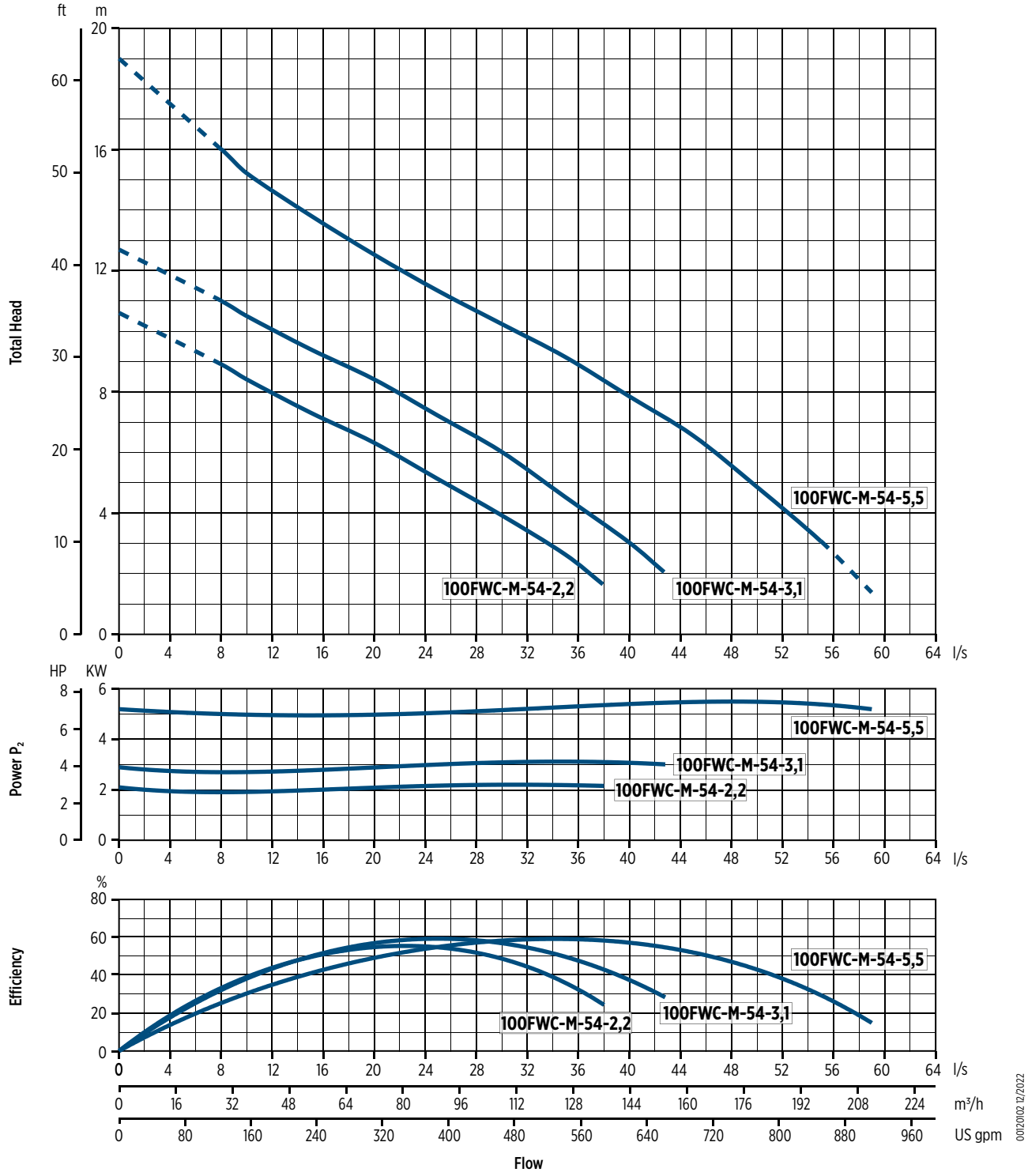
TECHNICAL DATA

Pump model	Motor absorbed power P_1	Rated power P_2		Voltage	Rated current	Phase	Power cable		Float switch	Discharge port	Weight [kg]
	[kW]	[kW]	[HP]	[V]	[A]		Length [m]	Type			
100FWC-M-54-2,2T	2,8	2,2	3	400	5,4	3 ~	10	4G1,5+3x1	-	DN100	97
100FWC-M-54-3,1T	3,9	3,1	4,2	400	7,5	3 ~	10	4G1,5+3x1	-	DN100	100
100FWC-M-54-5,5T	6,6	5,5	7,5	400	11,7	3 ~	10	4G2,5+3x1	-	DN100	112

"-" = not available
• = available

100FWC-M-54

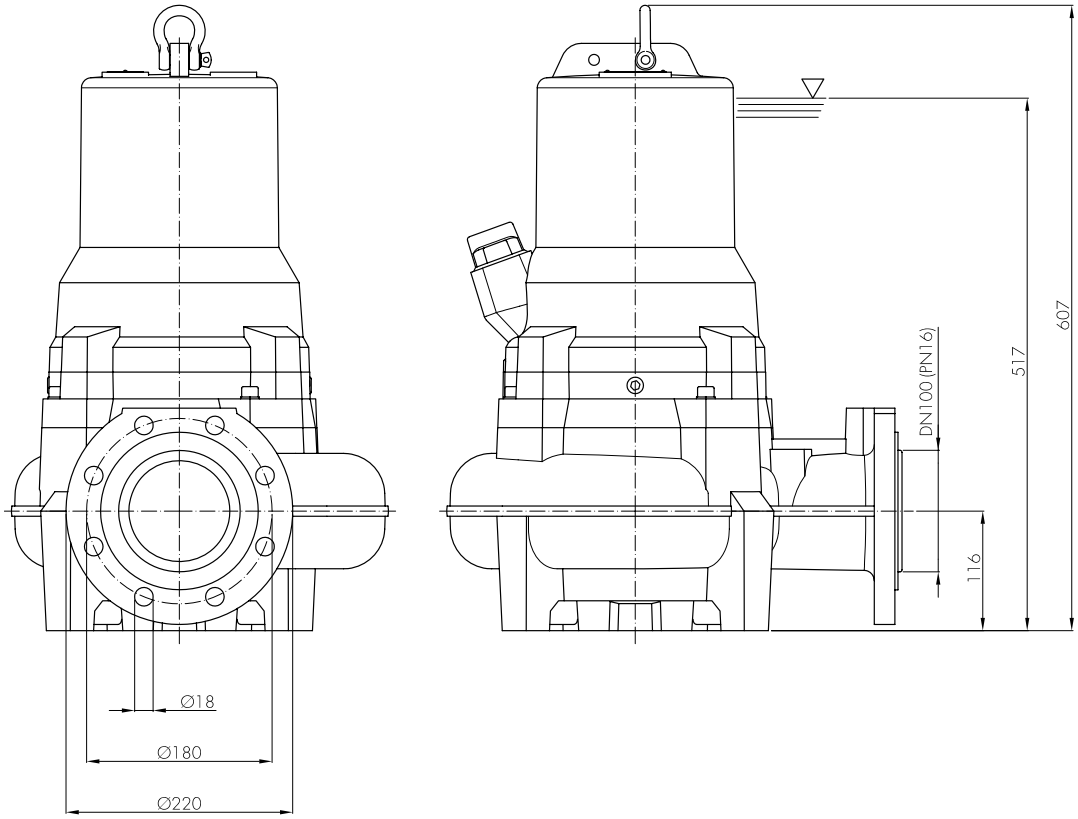
PERFORMANCE CURVES AT 50 HZ

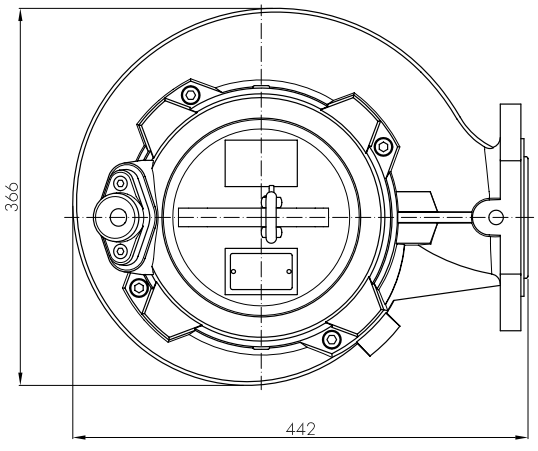


0012002 12/2022

100FWC-M-54

DIMENSIONS





0030286 12/2022

Package		
Pump model	Dimensions [mm]	Weight [kg]
100FWC-M-54-2,2T	475x370x985	100
100FWC-M-54-3,1T		103
100FWC-M-54-5,5T		115

100FWC-M-54

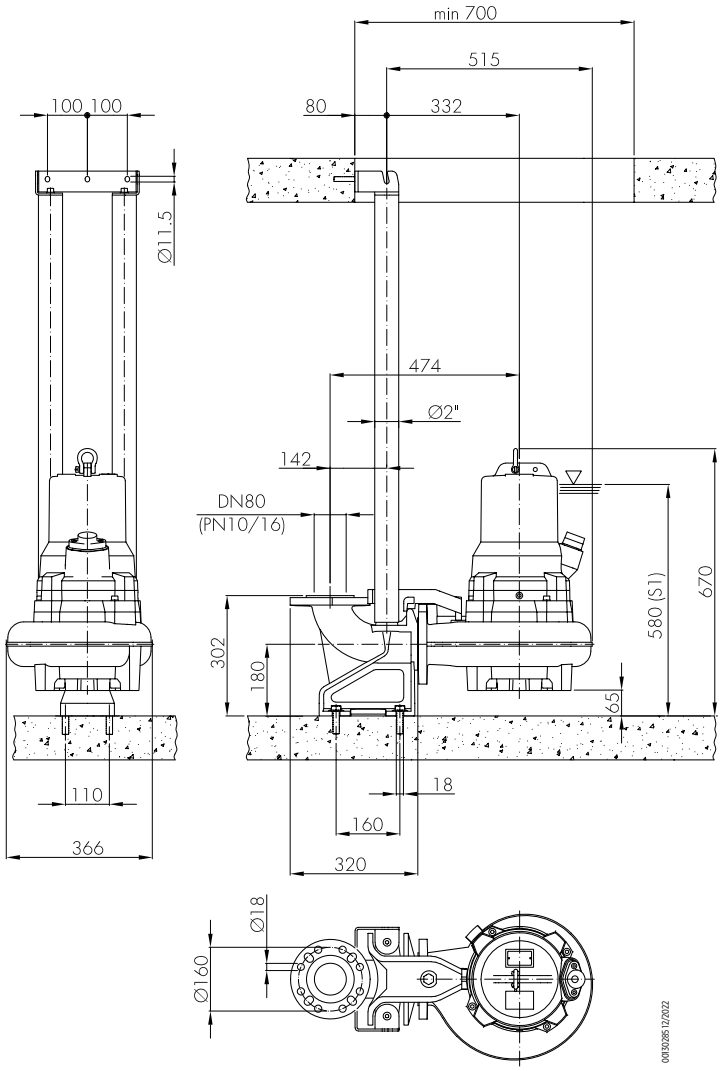
INSTALLATION

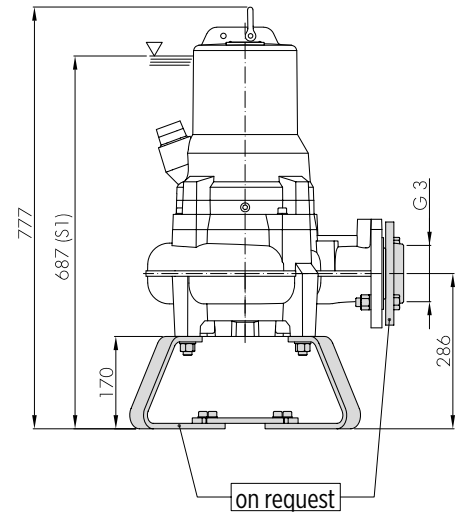
Permanent installation with coupling system

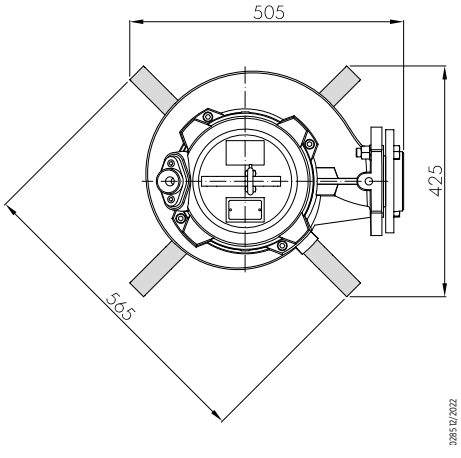
It is the recommended installation for the permanent pumping station. The electric pump is guided by two pipes and it is connected automatically to the coupling system. The quick connection ensures that the pump can be easily removed and re-installed.

Transportable installation

Transportable as emergency pump with connection to the hose and for free installation in the well.







Pumps with grinder unit 50 Hz

FGX Series



FGR Series



Everything you need
is your smartphone!





YouTube video

FGX Series – Submersible Grinder pumps

- Pump model:
  - 40FGX-52 (discharge port Ø40mm)
- Impeller with grinder unit for cutting threadlike and fibrous materials in the pumped liquid
- Available with or without adjustable float switch
- Double mechanical seal in oil chamber (pump side SiC/SiC)
- Dry chamber motor
- Cast iron components with cataphoresis coating for increased corrosion resistance
- Quick connectors for easy maintenance
- Control box with thermal protection required for three-phase motors
- Single-phase versions up to 1.1 kW with built-in thermal protector
- Control panel with motor protection, manual reset, and starting/ Starting capacitors
- Stainless steel handle
- Wide range of accessories available

Technical data

- Flow: up to 12.6 m^3/h
- Total Head: up to 21 m
- Motor power: 0.75 - 1.1 kW
- Minimum immersion depth: 353 mm
- Maximum immersion depth: 5 m

ACCESSORIES

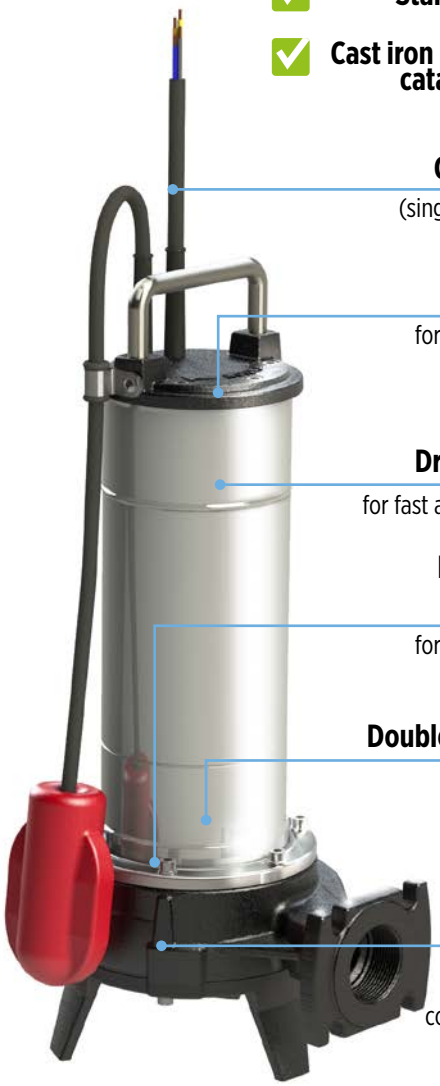
- Hose connection elbow
- Threaded elbow
- Threaded flange kit
- Coupling system
- Chain AISI316
- Shackle AISI316
- For more information about accessories see p. 94

RESIDENTIAL

INDUSTRY

Stainless Steel motor

Cast iron components with cataphoresis coating



Cable lenght 10 m
(single-phase pumps with plug)

Quick connectors
for an easy maintenance

Dry chamber motor
for fast and easy maintenance

Motor connection without tie bolds
for an easy maintenance

Double mechanical seal
(pump side SiC/SiC)

Grinder unit
to cut in small pieces threadlike materials contained in the liquids



Grinder unit

Pumping of clear non-loaded fluids

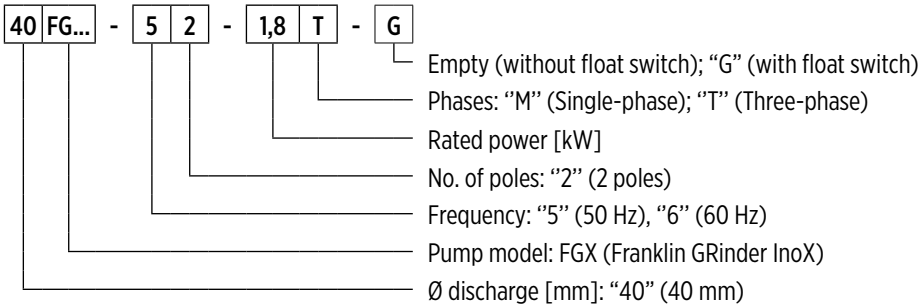
Extraction of water from ponds, streams or pits and for rainwater collection

Wastewater (food and paper industries)

Pumping of wastewater from residential buildings in areas not connected to the main sewer network

FGX Series – Submersible Grinder pumps

PRODUCT IDENTIFICATION CODE



00140111 03/2026

GENERAL FEATURES

Materials/Constr.design		
Impeller		Cast iron EN GJL200
External casing		Stainless steel AISI304
Pump body		Cast iron EN GJL200 with cataphoresis coating
Cover		Cast iron EN GJL200 with cataphoresis coating
Grinder unit		Hardened stainless steel
Mechanical seal	**motor side**	Graphite/Ceramic
	pump side	Silicon carbide (SiC/SiC)
Motor shaft		Stainless steel AISI416
Power cable	**Type**	10 m H07RN8-F
	Single-phase	4G1mm² with SHUKO plug (CEE7/VII), box with manual overload cut-out and with starting and Starting capacitors
	Three-phase	4G1mm²
Motor		
Constr.design		asynchronous squirrel cage-type in dry chamber
Type		2 poles; 50 Hz
Insulation class		F
Protection degree		IP68
Voltage	**Single-phase**	230 V ±6% built-in overheating protection, built in capacitor
	Three-phase	230V ±10%, 400V ±10%
Operating limits		
Maximum liquid temperature		+40 °C
pH of pumped liquid		6- 10
Liquid density		1,0 kg/dm³
Maximum immersion depth		5 m
Min. immersion depth for continuous service		353 mm
Max. number of starting/hour		20
Construction options		

- 60 Hz version
- Different voltages
- Food-grade white oil

40FGX-52

HYDRAULIC PERFORMANCE 50 HZ

Pump model	Q = Delivery							
	l/sec 0	0,5	1	1,5	2	2,5	3	3,5
	m^3/h 0	1,8	3,6	5,4	7,2	9	10,8	12,6
	US gpm 0	7,9	15,8	23,7	31,7	39,6	47,5	55,5
	H = Total meters head of water column [m]							
40FGX-52-0,75	18,5	**17,4**	**16,2**	**14**	**11,6**	**8,5**	**1,3**	
40FGX-52-1,1	21	**19,7**	**18,5**	**16,6**	**14,2**	**11,2**	**7,8**	**1**

Application range

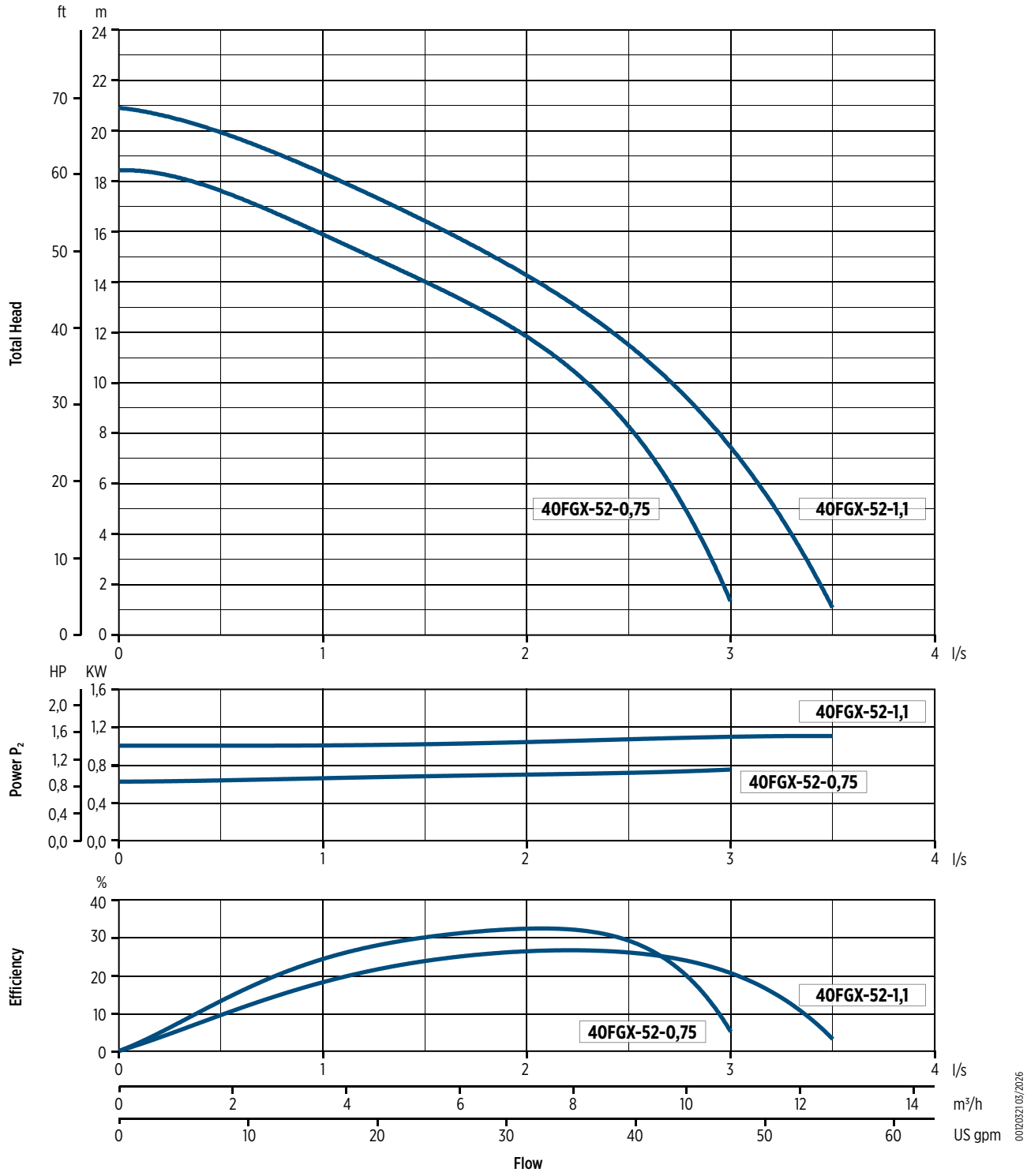
TECHNICAL DATA

Pump model	Motor absorbed power P_1	Rated power P_2		Voltage	Rated current	Phases	Power cable		Float switch	Starting capacitor	Discharge port	Weight [kg]
	[kW]	[kW]	[HP]	[V]	[A]		Length [m]	Type		[µF]		
40FGX-52-0,75M	0,9	0,75	1	230	4,8	1 ~	10	4G1	-	20	G1½	18
40FGX-52-0,75M-G	0,9	0,75	1	230	4,8	1 ~	10	4G1	•	20	G1½	18
40FGX-52-0,75T	0,9	0,75	1	400	1,8	3 ~	10	4G1	-	-	G1½	18
40FGX-52-1,1M	1,4	1,1	1,5	230	6	1 ~	10	4G1	-	25	G1½	20
40FGX-52-1,1M-G	1,4	1,1	1,5	230	6	1 ~	10	4G1	•	25	G1½	20
40FGX-52-1,1T	1,4	1,1	1,5	400	2,1	3 ~	10	4G1	-	-	G1½	20

"-" = not available
• = available

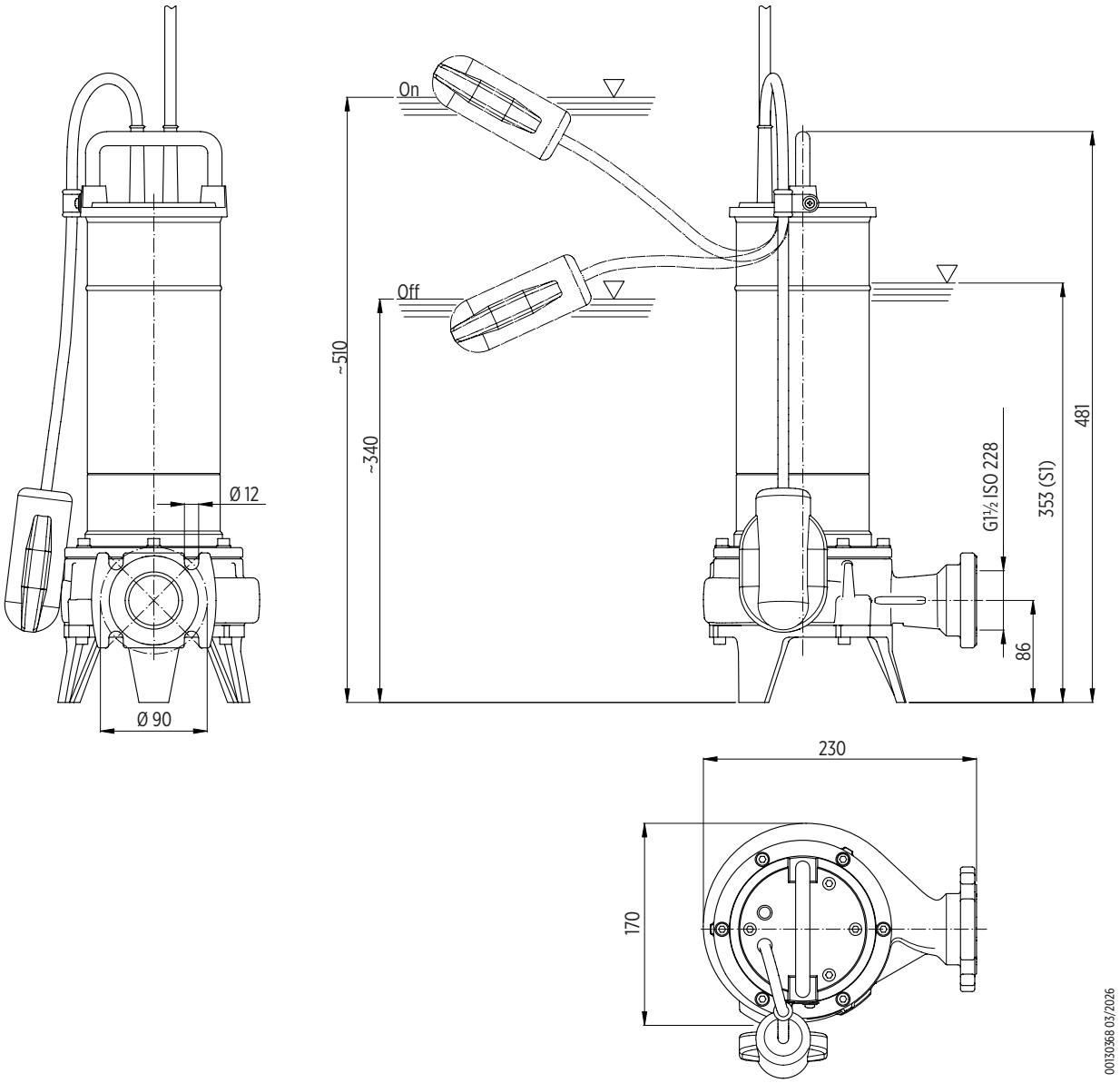
40FGX-52

PERFORMANCE CURVES AT 50 HZ



40FGX-52

DIMENSIONS



Package		
Pump model	Dimensions [mm]	Weight [kg]
40FGX-52-0,75	255x205x560	18,7
40FGX-52-1,1		20,7

Pallet			
Pump model	Dimensions [mm]	N° of pumps	Weight [kg]
40FGX-52-0,75	800x1200x700	15	300
40FGX-52-1,1			325

40FGX-52

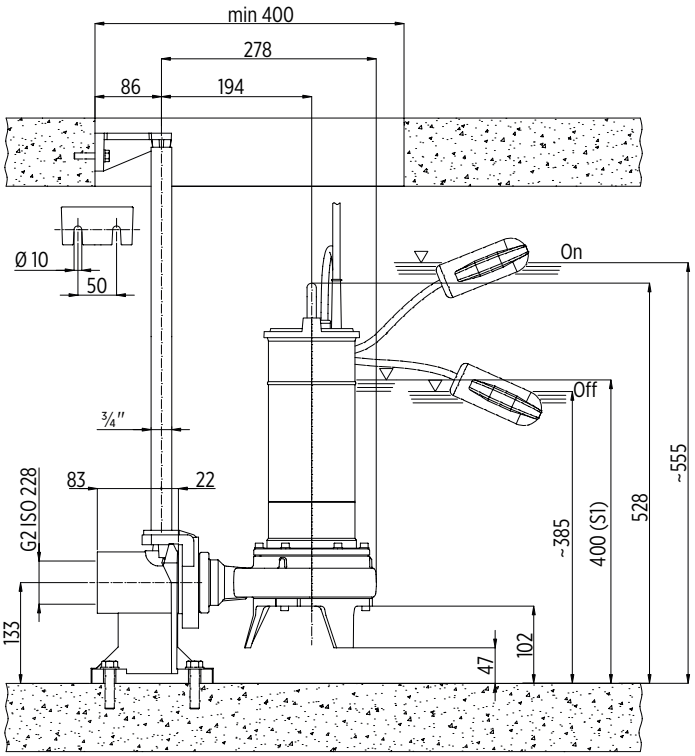
INSTALLATION

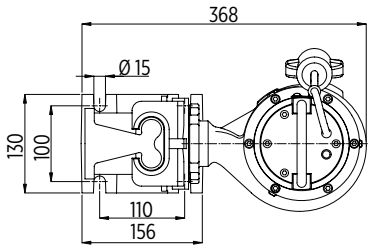
Permanent installation with coupling system

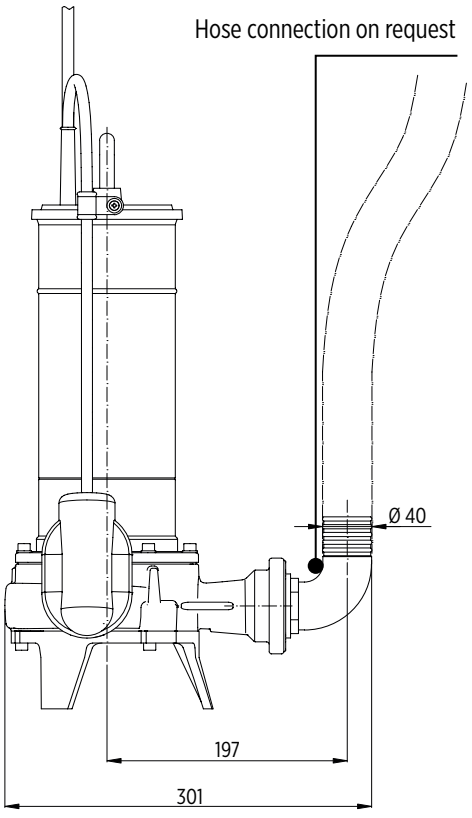
It is the recommended installation for the permanent pumping station. The electric pump is guided by two pipes and it is connected automatically to the coupling system. The quick connection ensures that the pump can be easily removed and re-installed.

Transportable installation

Transportable as emergency pump with connection to the hose and for free installation in the well.







00130369 03/2026

50FGR Series – Submersible Grinder pumps

- Pump model:
  - 50FGR-52 (discharge port Ø 50 mm)
- Impeller with grinder unit for cutting threadlike and fibrous materials in the pumped liquid
- Available with or without adjustable float switch
- Double mechanical seal
- Fully cast iron construction
- Single-phase version up to 1.1 kW with built-in thermal protector
- Control panel with motor protection, manual reset, and starting/ Starting capacitors
- Wide range of accessories available
- Stainless steel handle

Technical data

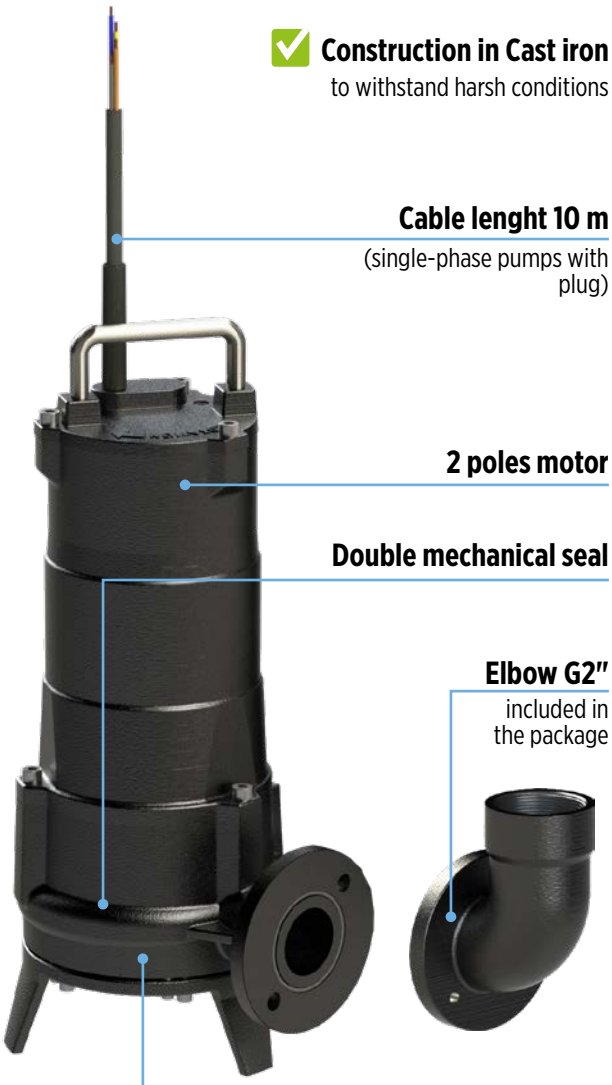
- Flow: up to 18 m^3/h
- Total Head: up to 34 m
- Motor power: 1.1 - 2.2 kW
- Minimum immersion depth:
  - 373 mm (50FGR-52-1,1M/T)
  - 440 mm (50FGR-52-1,6M/T, 50FGR-52-2,2T)
- Maximum immersion depth: 5 m

ACCESSORIES

- Threaded elbow (included)
- Threaded flange kit
- Coupling system
- Chain AISI316
- Shackle AISI316
- Sacrificial anodes belt
- For more information about accessories see p. 94

RESIDENTIAL

INDUSTRY





Pumping of clear non-loaded fluids

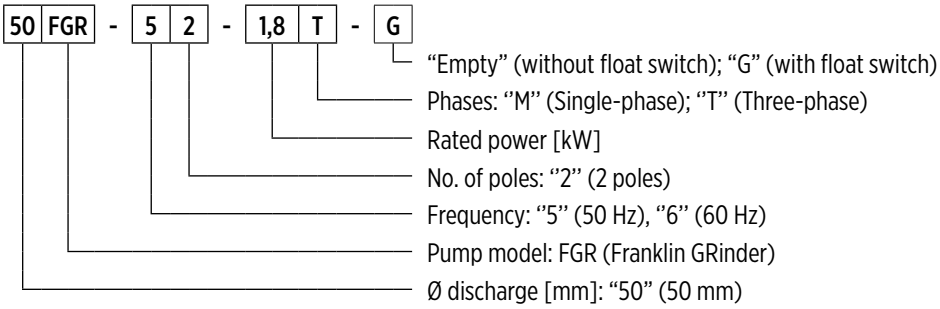
Extraction of water from ponds, streams or pits and for rainwater collection

Wastewater (food and paper industries)

Pumping of wastewater from residential buildings in areas not connected to the main sewer network

50FGR Series – Submersible Grinder pumps

PRODUCT IDENTIFICATION CODE



00140087 03/2026

GENERAL FEATURES

Materials/Constr.design		
Impeller		Cast iron EN GJL200
External casing		Cast iron EN GJL200
Pump body		Cast iron EN GJL200
Cover		Cast iron EN GJL200
Grinder unit		Stainless steel AISI431
Mechanical seal	**motor side**	Graphite/Alumina
	pump side	Silicon carbide (SiC/SiC)
Motor shaft		Stainless steel AISI431
Power cable	**Type**	10 m H07RN-F
	Single-phase	4G1mm² with SHUKO plug (CEE7/VII), box with manual overload cut-out and with starting and operating capacitors
	Single-phase	4G2,5mm² with SHUKO plug (CEE7/VII), box with manual overload cut-out and with starting and operating capacitors
	Three-phase	4G1,5mm²
Motor		
Constr.design		asynchronous squirrel cage-type oil filled
Type		2 poles; 50 Hz
Insulation class		F
Protection degree		IP68
Voltage	**Single-phase**	230V ±6% built-in overheating protection (up to 1,1 kW)
	Three-phase	230V ±10%, 400V ±10%
Operating limits		
Maximum liquid temperature		+40 °C
pH of pumped liquid		6- 10
Liquid density		1,0 kg/dm³
Maximum immersion depth		5 m
Min. immersion depth for continuous service	**50FGR-52-1,1M/T**	373 mm
	50FGR-52-1,6M/T 50FGR-52-2,2T	440 mm
Max. number of starting/hour		20
Construction options		

- 60 Hz version
- Different voltages
- Food-grade white oil

50FGR-52

HYDRAULIC PERFORMANCE 50 HZ

Pump model	Q = Delivery										
	l/sec 0	0,5	1	1,5	2	2,5	3	3,5	4	4,5	5
	m^3/h 0	1,8	3,6	5,4	7,2	9	10,8	12,6	14,4	16,2	18
	US gpm 0	7,9	15,8	23,7	31,7	39,6	47,5	55,5	63,4	71,3	79,2
	H = Total meters head of water column [m]										
50FGR-52-1,1	21	**19**	**17**	**15,8**	**14**	**12**	**9,5**	**8,8**	**7,8**	**5,8**	**2**
50FGR-52-1,6	27	**25**	**21**	**20,5**	**19**	**18**	**15,5**	**14,5**	**13**	**10**	**5**
50FGR-52-2,2	34	**32**	**29,5**	**27,5**	**25,7**	**23,8**	**22**	**20**	**17,5**	**15**	**10**

Application range

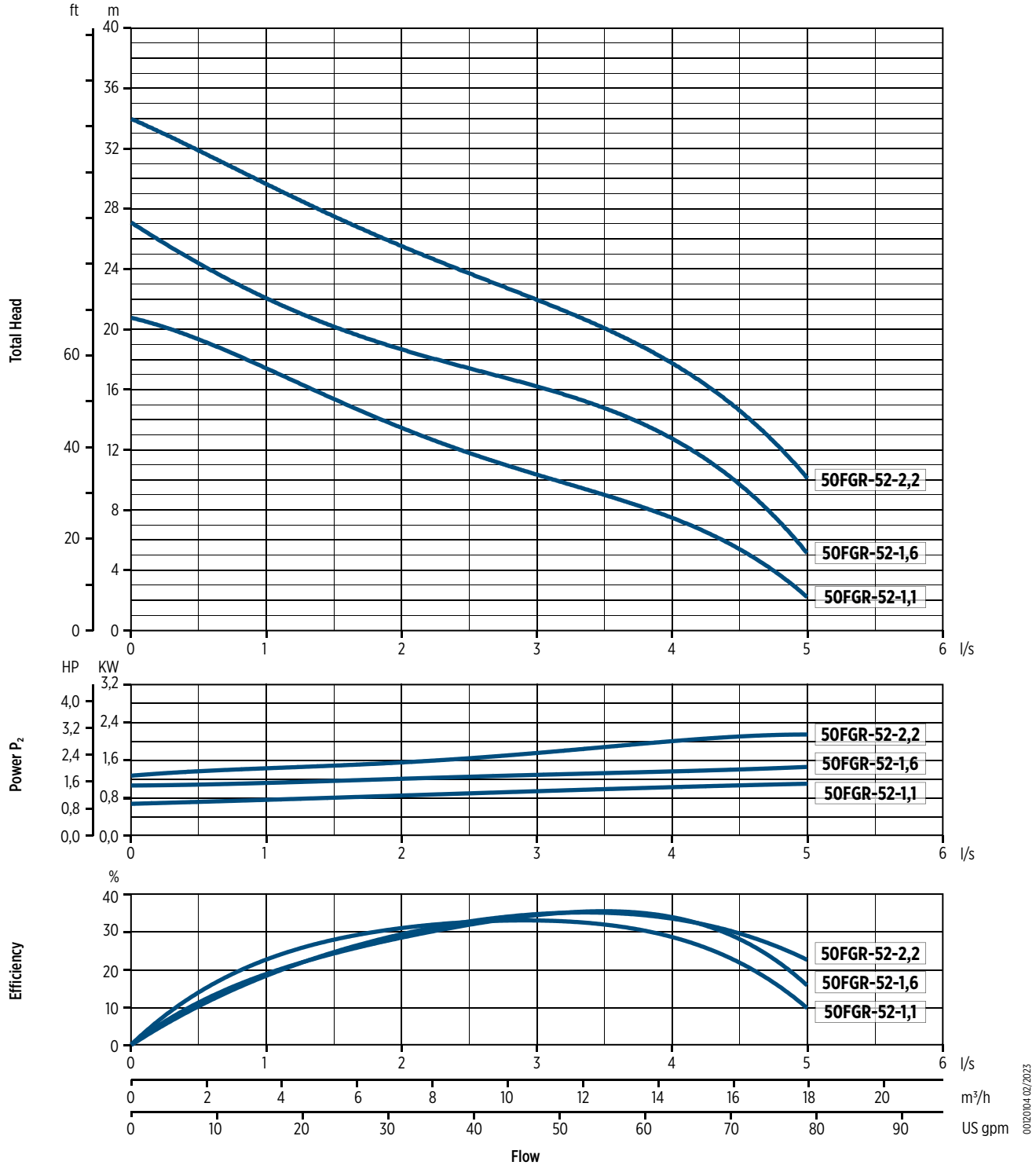
TECHNICAL DATA

Pump model	Motor absorbed power P_1	Rated power P_2		Voltage	Rated current	Phases	Power cable		Float switch	Starting capacitor	Discharge port	Weight [kg]
	[kW]	[kW]	[HP]	[V]	[A]		Length [m]	Type		[µF]		
50FGR-52-1,1M	1,4	1,1	1,5	230	7	1 ~	10	4G1,5	-	30	G2 (Ø50)	34
50FGR-52-1,1M-G	1,4	1,1	1,5	230	7	1 ~	10	4G1,5	•	30	G2 (Ø50)	34
50FGR-52-1,1T	1,4	1,1	1,5	400	11	3 ~	10	4G2,5	-	-	G2 (Ø50)	34
50FGR-52-1,1T-G	1,4	1,1	1,5	400	11	3 ~	10	4G2,5	•	-	G2 (Ø50)	34
50FGR-52-1,6M	2,3	1,6	2,1	230	3	1 ~	10	4G1,5	-	40	G2 (Ø50)	40
50FGR-52-1,6M-G	2,3	1,6	2,1	230	3	1 ~	10	4G1,5	•	40	G2 (Ø50)	40
50FGR-52-1,6T	2,3	1,6	2,1	400	4	3 ~	10	4G1,5	-	-	G2 (Ø50)	40
50FGR-52-1,6T-G	2,3	1,6	2,1	400	4	3 ~	10	4G1,5	•	-	G2 (Ø50)	40
50FGR-52-2,2T	3,1	2,2	3	400	5	3 ~	10	4G1,5	-	-	G2 (Ø50)	42

"-" = not available
• = available

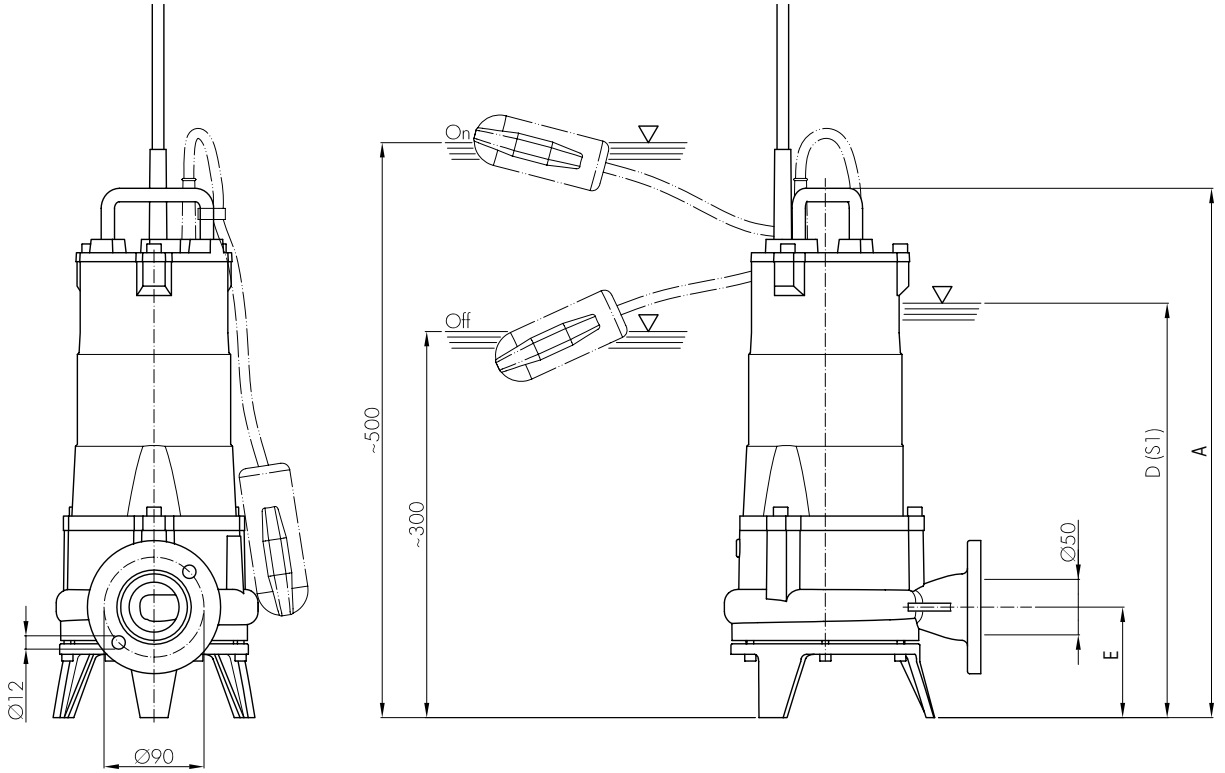
50FGR-52

PERFORMANCE CURVES AT 50 HZ

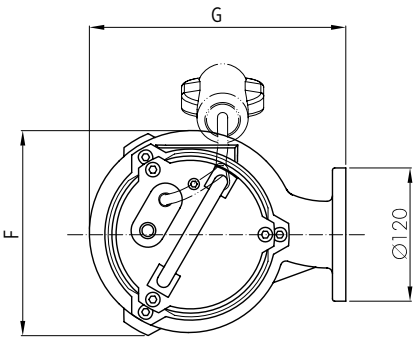


50FGR-52

DIMENSIONS



Pump model	Dimensions [mm]				
	A	D	E	F	G
50FGR-52-1,1	477	373	100	185	231
50FGR-52-1,6	550	440	110	220	276
50FGR-52-2,2	550	440	110	220	276



Package		
Pump model	Dimensions [mm]	Weight [kg]
50FGR-52-1,1	290x245x585	35
50FGR-52-1,6	300x260x585	41
50FGR-52-2,2		43

00130294 02/2023

50FGR-52

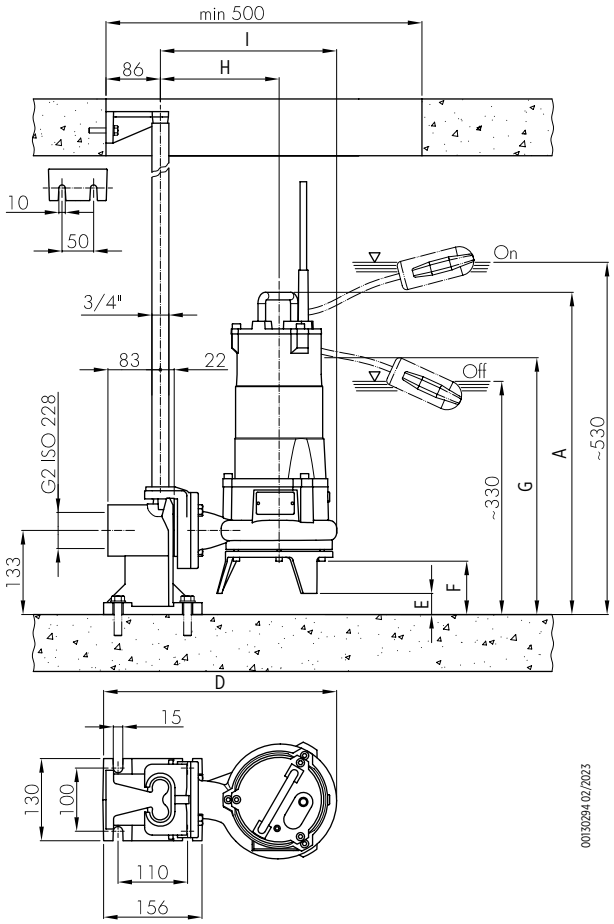
INSTALLATION

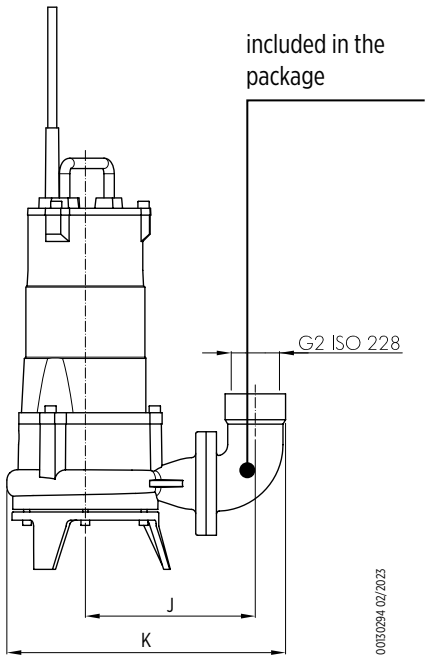
Permanent installation with coupling system

It is the recommended installation for the permanent pumping station. The electric pump is guided by two pipes and it is connected automatically to the coupling system. The quick connection ensures that the pump can be easily removed and re-installed.

Transportable installation

Transportable as emergency pump with connection to the hose and for free installation in the well.





Pump model	Installation dimensions [mm]								
	A	D	E	F	G	H	I	J	K
50FGR-52-1,1	510	370	34	85	407	193	279	197	232
50FGR-52-1,6	574	414	24	76	464	215	324	224	368
50FGR-52-2,2	574	414	24	76	464	215	324	224	368

D.C. motor pumps 50 Hz

FLV Series



Everything you need
is your smartphone!





YouTube video

FLV Series – D.C. motor submersible wastewater pumps

RESIDENTIAL

- Pump models – discharge Ø 40 mm:
  - 40FLV-24 (24V)
  - 40FLV-12 (12V)
- Vortex impeller (V)
- Available with or without suction strainer
- Mechanical seal in Graphite/Ceramic
- DC permanent magnet motor in dry chamber
- Stainless steel handle
- 12 V model supplied with 10 m cable and clamp terminals

Technical data

- Flow: up to 20 m^3/h
- Total Head: up to 12 m
- Motor power: 0.3 - 0.75 kW
- Minimum immersion depth:
  - 300 mm (40FLV-24-0,3, 40FLV-12-0,3,40FLV-24-0,5)
  - 350 mm (40FLV-24-0,75)
- Maximum immersion depth: 2 m
- Free passage: 20 mm

ACCESSORIES

- Hose connection elbow
- Chain AISI316
- Shackle AISI316

For more information about accessories see p. 94

Easy to install and silent



Cable length 5 m

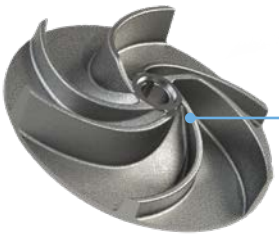
DC permanent magnet motor

Available with or without suction strainer

Drainage

Domestic / Industrial grey water

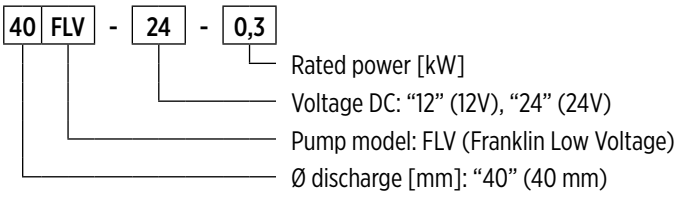
Pumping water from road drainage wells, basements, and off-grid sites without mains power



Vortex impeller (V)

FLV Series – D.C. motor submersible wastewater pumps

PRODUCT IDENTIFICATION CODE



0014008803/2026

GENERAL FEATURES

Materials/Constr.design		
Impeller		Cast iron EN GJL200
External casing		Stainless steel AISI304
Pump body		Cast iron EN GJL200
Mechanical seal	**motor side 40FLV-24-0,3, 40FLV-24-0,5, 40FLV-24-0,75**	Seal ring
	motor side 40FLV-24-0,3, 40FLV-24-0,5, 40FLV-24-0,75	Graphite/Alumina
	pump side 40FLV-12-0,3	Silicon carbide (SiC/SiC)
Motor shaft		Stainless steel AISI416
Power cable		5 m H07RN-F type, 2x6mm²
Motor		
Constr.design		D.C. permanent magnet in dry chamber
Insulation class		F
Protection degree		IP68
Main voltage values and relative tolerance in relation to the rated voltage value:		24V C.C. +10% / -5% 12V C.C. +10% / -5%
Operating limits		
Maximum liquid temperature		+40 °C
pH of pumped liquid		6 - 10
Liquid density		1,0 kg/dm³
Free passage		20 mm
Min. immersion depth for continuous service	**40FLV-24-0,3, 40FLV-12-0,3,40FLV-24-0,5**	300 mm
	40FLV-24-0,75	350 mm
Max. number of starting/hour		20
Construction options		

- Mechanical seal in Silicon carbide (SiC/SiC)
- Model 40FLV-12-0,3 with 10 m 1x16mm² cable and battery clamps
- Inlet with strainer (free passage 8 mm)

40FLV

HYDRAULIC PERFORMANCE 50 HZ

Pump model	Q = Delivery											
	l/sec 0	0,5	1	1,5	2	2,5	3	3,5	4	4,5	5	5,5
	m³/h 0	1,8	3,6	5,4	7,2	9	10,8	12,6	14,4	16,2	18	19,8
	US gpm 0	7,9	15,8	23,7	31,7	39,6	47,5	55,5	63,4	71,3	79,2	87,2
	H = Total meters head of water column [m]											
40FLV-24-0,3	8	**7**	**6,2**	**5,3**	**4,3**	**3,2**	**2,1**	**1**				
40FLV-24-0,5	10,9	**9,7**	**8**	**7,1**	**6,8**	**6**	**5**	**3,9**	**2,9**	**1,5**		
40FLV-24-0,75	12	**11**	**10**	**9**	**8**	**7**	**5,8**	**5,1**	**4,5**	**3,9**	**3**	**2**
40FLV-12-0,3	7,5	**7**	**6**	**5**	**4**	**3,1**	**2,5**	**2**	**0,8**			

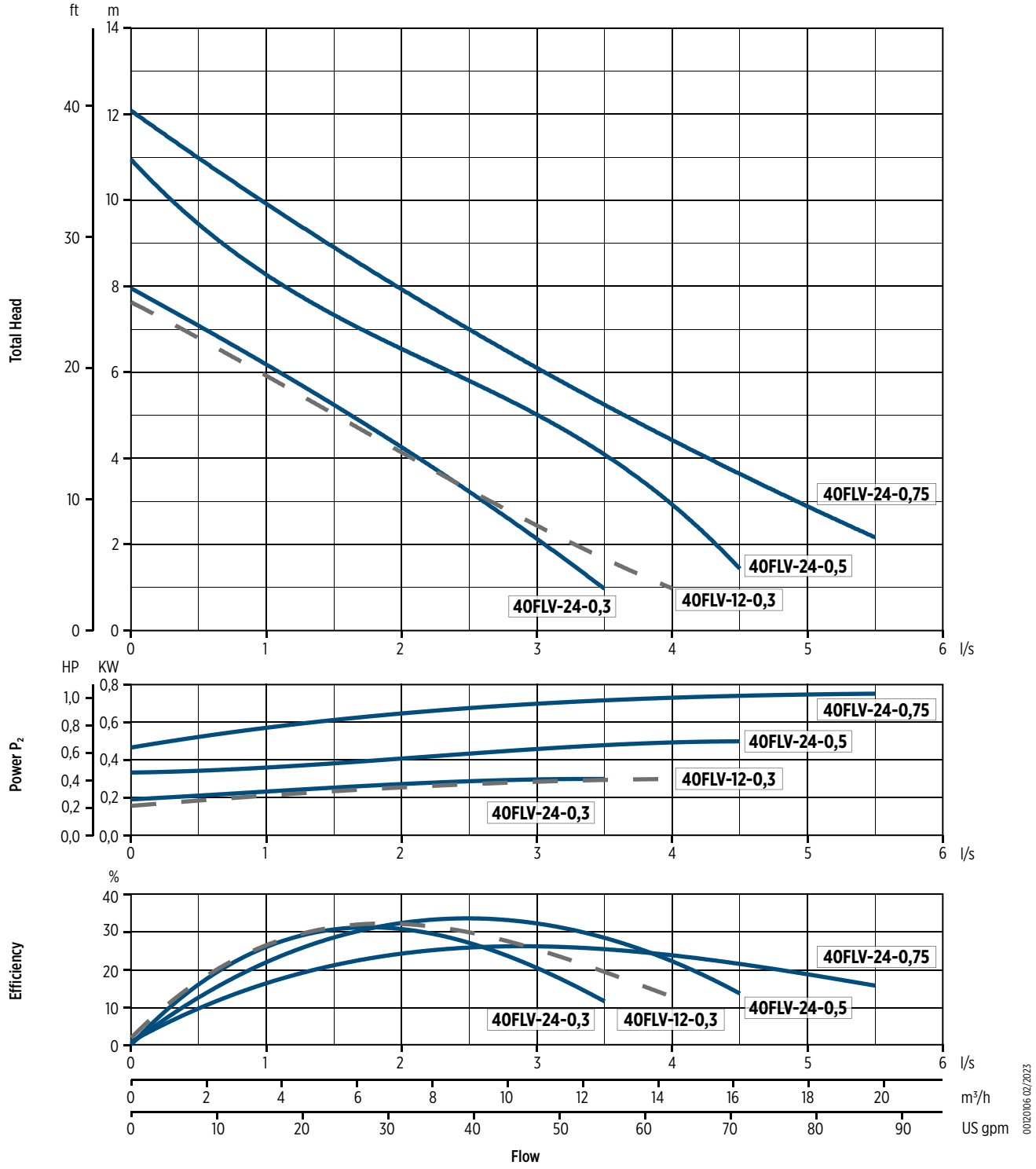
Application range

TECHNICAL DATA

Pump model	Motor absorbed power P_1	Rated power P_2		Voltage	Rated current	Power cable		Discharge port	Weight [kg]
	[kW]	[kW]	[HP]	[V]	[A]	Length [m]	Type		
40FLV-24-0,3	0,4	0,3	0,4	24CC	17	5	2X6	G1½	11
40FLV-24-0,5	0,62	0,5	0,7	24CC	26	5	2X6	G1½	12
40FLV-24-0,75	0,84	0,75	1	24CC	35	5	2X6	G1½	17
40FLV-12-0,3	0,4	0,3	0,4	12CC	34	5	2X6	G1½	11

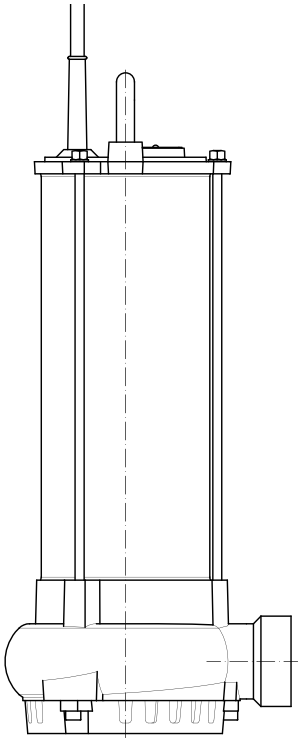
40FLV

PERFORMANCE CURVES AT 50 HZ

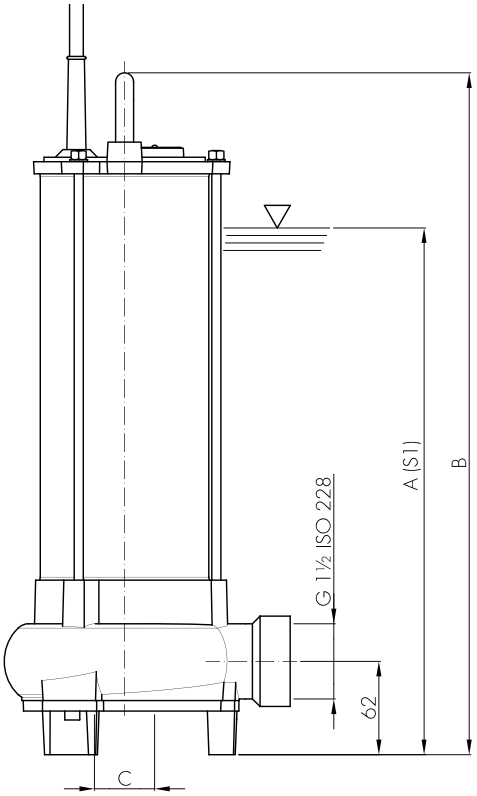


40FLV

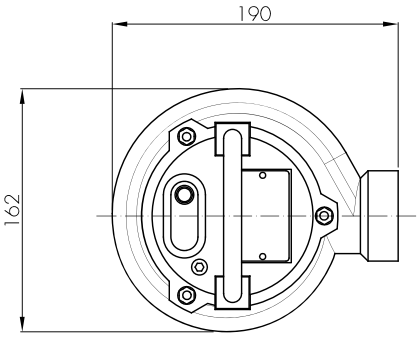
DIMENSIONS



Version with filter on request



Dimensions [mm]			
Pump model	A	B	C
40FLV-24-0,3	300	402	30
40FLV-24-0,5	300	402	30
40FLV-24-0,75	350	453	40
40FLV-12-0,3	300	402	30



00013029S 02/2023

Package		
Pump model	Dimensions [mm]	Weight [kg]
40FLV-24-0,3	220x180x450	11,5
40FLV-24-0,5		12,5
40FLV-24-0,75	220x200x450	17,7
40FLV-12-0,3	220x180x450	11,5

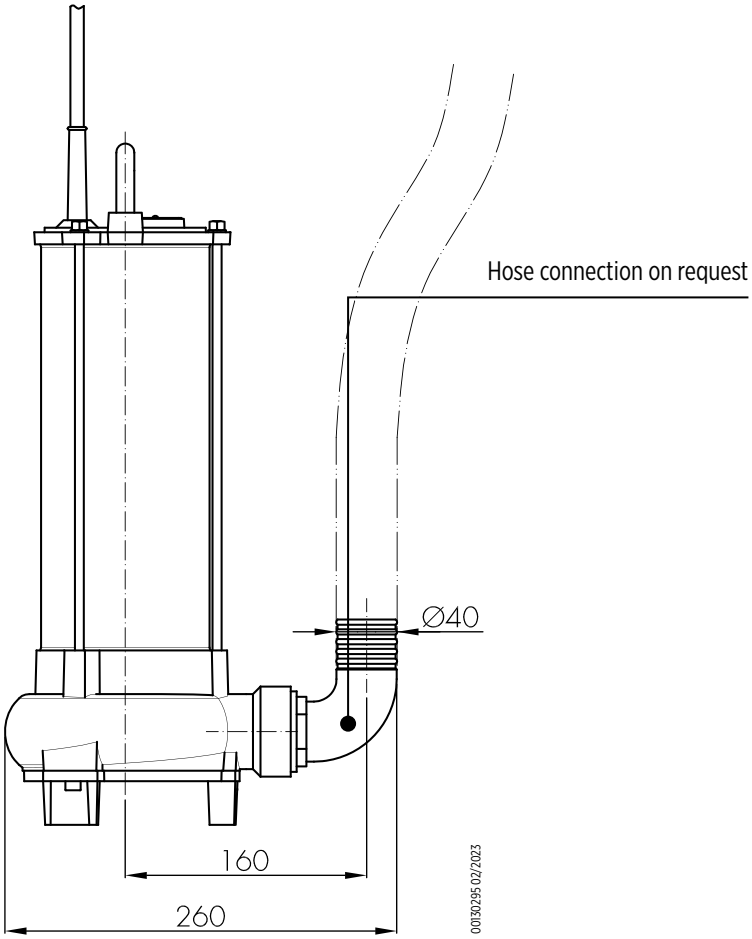
Pallet			
Pump model	Dimensions [mm]	N° of pumps	Weight [kg]
40FLV-24-0,3	800x1200x800	32	400
40FLV-24-0,5		32	440
40FLV-24-0,75		24	460
40FLV-12-0,3		32	400

40FLV

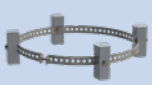
INSTALLATION

Transportable installation

Transportable as emergency pump with connection to the hose and for free installation in the well.



Accessories

Accessories type		FWX Series		FWC Series				FGX Series	FGR Series	FLV Series
		40FWX	50FWX	50FWC	65FWC	80FWC	100FWC	40FGX	50FGR	40FLV
Hose connection		-	G2"M - Ø50 908616B	G2"M - Ø50 908616B	-	-	-	-	G2"M - Ø50 908616B	-
Hose connection elbow		G1"1/2M - Ø40mm 8640XB	-	-	-	-	-	G1"1/2M - Ø40mm 8640XB	-	G1"1/2 M - Ø40mm 8640XB
Threaded elbow		Ø50 - G2"F 908658	Ø50 - G2"F 908658	Ø50 - G2"F 908658 (included)	-	-	-	Ø50 - G2"F 908658	Ø50 - G2" F 908658 (included)	-
Threaded flange kit		G2"F 908719	G2"F 908719	G2" F 908719	-	-	-	G2"F 908719	G2" F 908719	-
Base frame		-	-	-	-	DN80 & DN100 308603	DN80 & DN100 308603	-	-	-
Competitor replacement adapter		-	DN50 - DN50 908639	DN50 - DN50 908639	DN65 - DN65 908641	DN80 - DN80 908644	DN100 - DN100 908646	-	-	-
Storz coupling		-	DN52(C)/ G2"M 208630B	DN52(C)/ G2" M 208630B	-	-	-	-	-	-
Coupling system		Ø50 - 2"F 958601	Ø50 - 2"F 958601	Ø50 - G2" F 958601	DN65 - G2"1/2 F 908634	DN80 - DN80 908622	DN100 - DN100 908624	Ø50 - G2" F 958601	Ø50 - G2" F 958601	G1"1/2 - G2" F 958603
Chain AISI316		5m x Ø5mm 353910B	5m x Ø5mm 353910B	5m x Ø5mm 353910B	5m x Ø5mm 353910B	5m x Ø6mm 353911B	5m x Ø6mm 353911B	5m x Ø5mm 353910B	5m x Ø5mm 353910B	5m x Ø5mm 353910B
Shackle AISI316		Ø6mm 353901B	Ø6mm 353901B	Ø6mm 353901B	Ø6mm 353901B	Ø10mm 353902B	Ø10mm 353902B	Ø6mm 353901B	Ø6mm 353901B	Ø6mm 353901B
Sacrificial anodes belt		-	-	908712	908712	-	-	-	908712	-

Accessories

Accessories type		5m	10m	15m	20m
Float switch for clear water		902604B	902601B	902612B	902603B
Float switch for sewage		902609B	902605B	902606B	902607B

CATALOG REVISION CHANGES NOTICE

Rev. No.	Changes	Page
01	40FGR Technical data correction	84
02	Model correction: from “50FWC-V-54-1,5” to “50FWC-V-54-1,1”	38-42
03	Deleted sentence “Hose connection on request” from 50FWC and 50FGR	30, 36, 42, 92
	40FGR General Features data table correction about power cable single-phase	82
	50FGR General Features data table correction about power cable single-phase	88
	50FWC-V-52-1,6M power cable sigle-phase correction to “4G2,5mm^2, capacitor box and SCHUKO plug (CEE 7/VII)”	38
	50FWC V and 50FWC M Technical data correction from “0,75 HP” to “1,2 HP”	28, 34
	50FGR (50FGR-52-1,1T, 50FGR-52-1,1T-G, 50FGR-52-1,6M, 50FGR-52-1,6M-G) Technical data correction: Motor absorbed Power P1 and Rated Power P2	90
	50FGR Technical data correction - Starting capacitor section	90
	32FWS V, 40FWS V, 50FWS V General Features motor voltage single-phase correction	8, 14, 20
04	Added ED-EGT/EGF drainage pump models	5-16
	“EDV Hydraulic Performance 50 Hz ≈ 2900 1/min” section removed	10
	“EGN - Submersible Drainage Pumps for Clean Water” section removed	All
	Updated tables	6, 8, 10, 14, 15, 16
	Product identification code section modified	6
	EGN model removed	All
	EDV model removed	All
	“HH” (High Head version) deleted from FWS-FWC series Product identification code	18
	50FWC V General Features update: voltage single-phase	38
	50FWC M General Features update: voltage single-phase	44
	50FWC V4 General Features update: voltage single-phase	50
	65FWC V4 General Features update: voltage single-phase	68
	50FGR Technical Data table update	102
05	Product identification code section modified	6
	ED General Features update: power cable, motor standard voltage	6
	ED dimensions and weights data table update	8
	ED Hydraulic Performance three-phase data table deleted	10
07	Deleted FWS Series and 40 FGR model	-
	Revised section structures	All
	Added FWX Series	19-28
	Added FGX Series	75-80-95-96
	Added accessories section	93-94



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