



Franklin Electric

SUBMERSIBLE PUMPS FOR SEWAGE

ED-EGT/EGF, FWS-FWC, FGR AND FLV SERIES



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ED-EGT/EGF Series - Drainage pumps 50 Hz



ED – STAINLESS STEEL DRAINAGE SUBMERSIBLE PUMPS FOR DIRTY WATER

FEATURES & BENEFITS

APPLICATIONS



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

FOR CLEAN AND DIRTY WATER, SOLIDS UP TO 35 MM

- Containing solids up to 35 mm grain size
- Stainless steel pump casing and impeller
- Vertical delivery port
- Double mechanical seal in oil chamber
- Dry winding motor, designed in accordance with: EN 60034-1; EN 60335-1, EN 60335-2-41

PUMP IDENTIFICATION CODE

ED	7	T	400	50
				Motor frequency
				Motor voltage
				Empty for single phase
				Nominal power
				Pump model

GENERAL FEATURES

Model	ED
Max. head	13
Flow [m³/h]	up to 26 m³/h
Liquid temperature range [°C]	up to 35 °C
Minimum immersion depth	248 mm
Maximum immersion depth:	5 m
Maximum solids size:	35 mm
Power cable:	
Single-phase	H07RN-F, 3G1 mm², length 10 m (5 m for ED5), with plug Cel-UnaL 47166 / Schuko
Three-phase	H07RN-F, 4G1 mm², length 10 m (5 m for ED5), without plug
Motor power [kW]:	0.55 - 0.9 kW
Motor type:	2-pole induction motor, 50 Hz (n ≈ 2900 rpm)
Motor standard voltage:	
Single-phase	230 V ± 10 %; with float switch and 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

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DESIGN FEATURES

Power cable with plug
on single-phase pumps

Handle in
polypropylene, with
frame in stainless steel

Easy inspection of
the capacitor area

Easy adjustment of the float switch:
to allow the adjustment of start/
stop pump levels

Ring against accidental
extraction of the cable

G 1 ½ vertical, upward
delivery port for
installation in small pits,
without the need for an
elbow on the pump

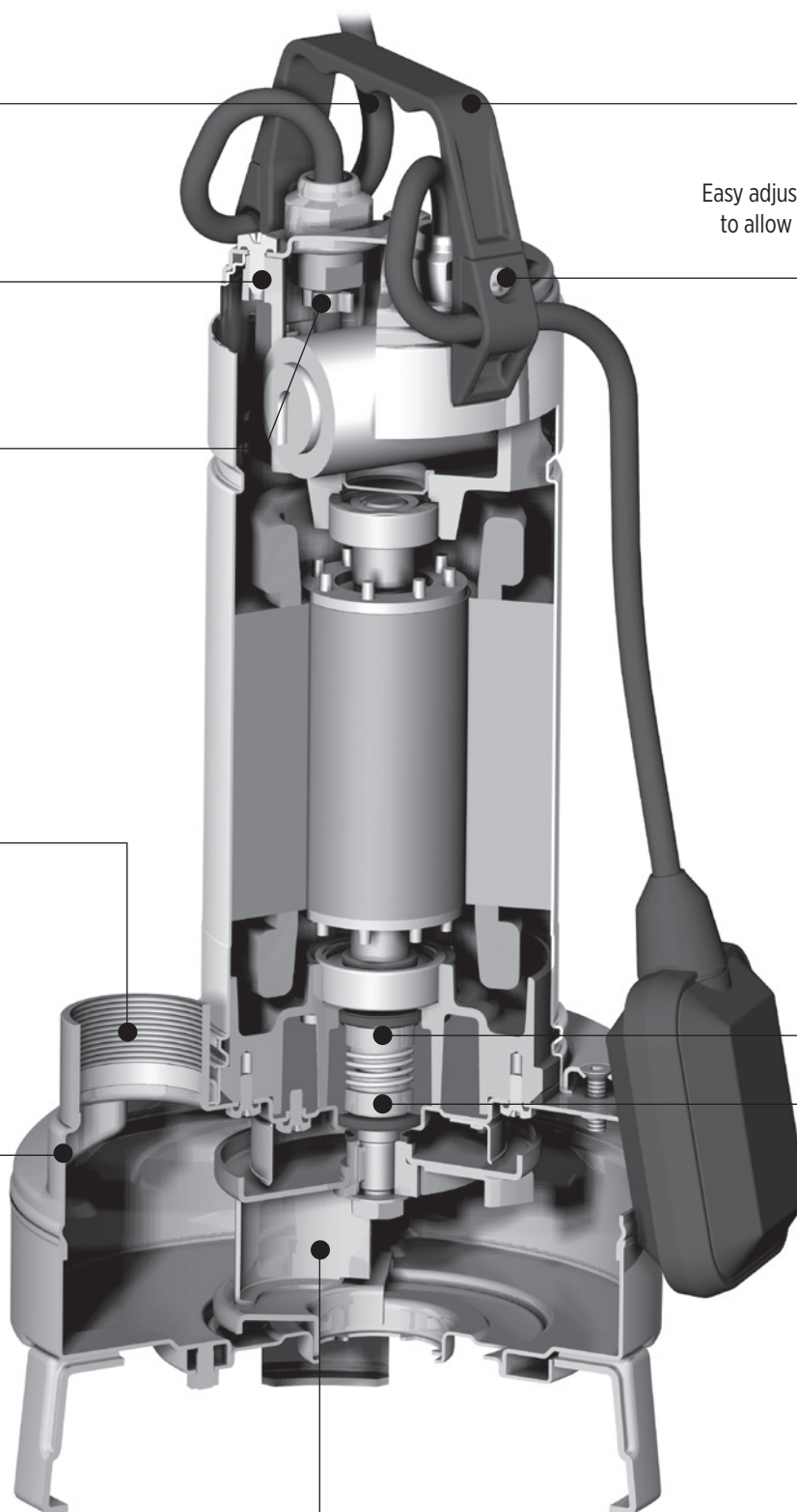
The double shaft
seal with oil chamber
separates the motor
from the water and
provides further
protection against
accidental operation
when dry

Totally in stainless steel
all parts in contact with
the pumped liquid both
internal and external are
in stainless steel AISI 304

Shaft in chrome-nickel
stainless steel

ED

The two-passage impeller
construction is particularly
suitable for liquids
containing solids up to 35
mm grain size.



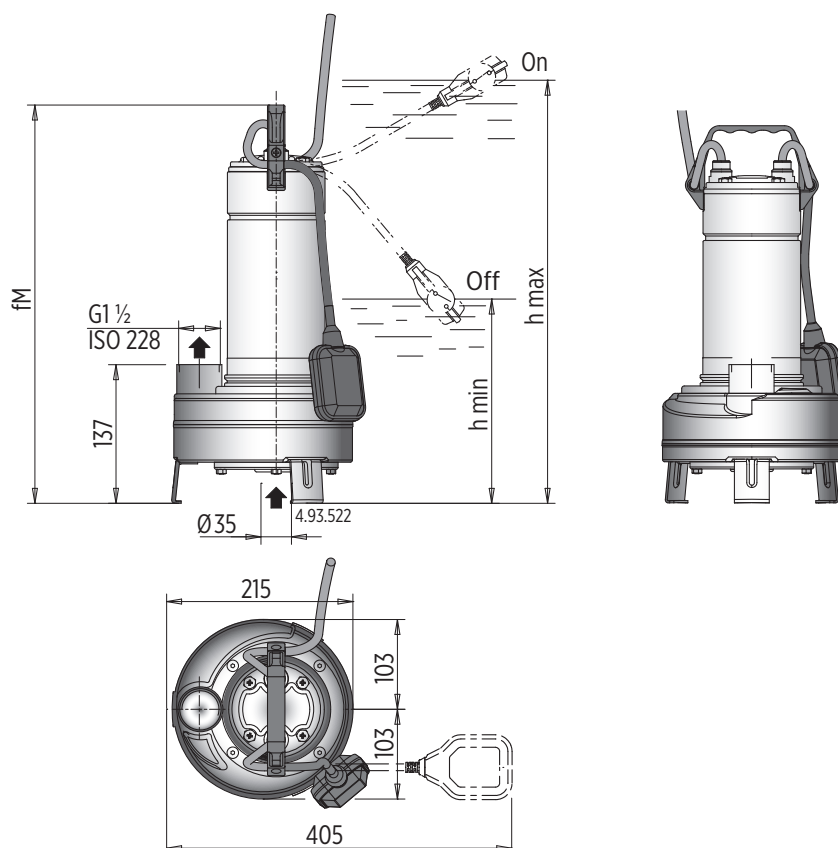
SPARE PARTS AND MATERIALS

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 mechanical seal / Lower mechanical seal	Ceramic alumina / Carbon / NBR	-	-
Seal lubrication oil	Oil for food / Pharmaceutical machinery	-	-

DIMENSIONS AND WEIGHTS

Pump model	Dimensions [mm]			h min	
	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

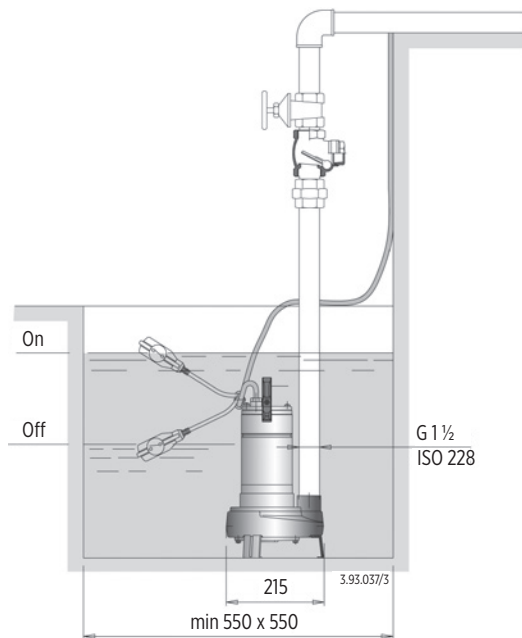
DIMENSIONAL DRAWINGS



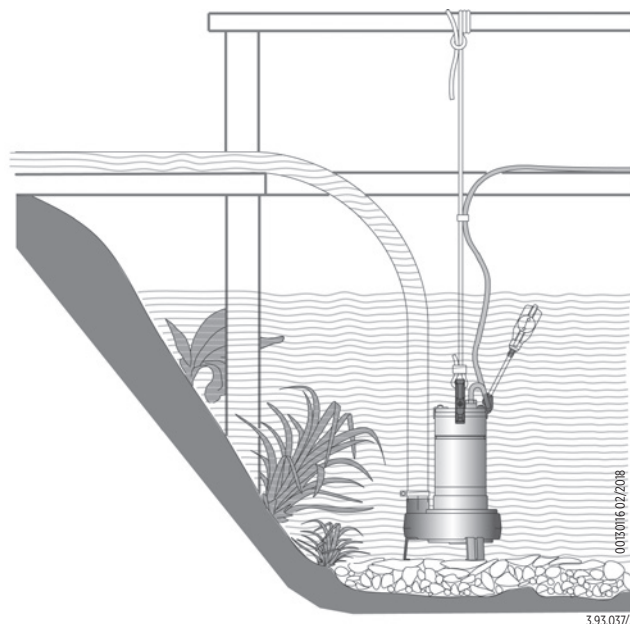
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INSTALLATION

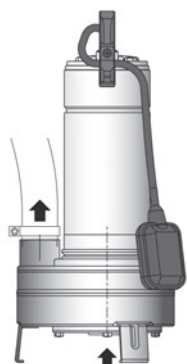
STATIONARY INSTALLATION



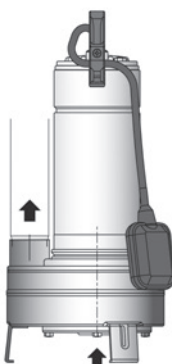
TRANSPORTABLE INSTALLATION



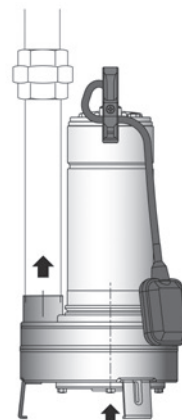
CONNECTION EXAMPLES



Pump with hosetail seat and clamp
(locally available)



Pump with pipe screwed into
the delivery port



Pump with pipe and union
(locally available)

0013015 02/2018

ED HYDRAULIC PERFORMANCE AT 50 HZ ≈ 2900 1/MIN

Pump model	1x230 V	Capacitor			P ₁	P ₂		Q = Delivery									
								l/min 0	50	100	150	200	250	300	350	400	433
								m ³ /h 0	3	6	9	12	15	18	21	24	26
	[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	4

P₁ : Max absorbed power

P₂ : Motor nominal power

Density ρ= 1000 Kg/m³

Viscosity kinematic ν = max 20 mm²/sec

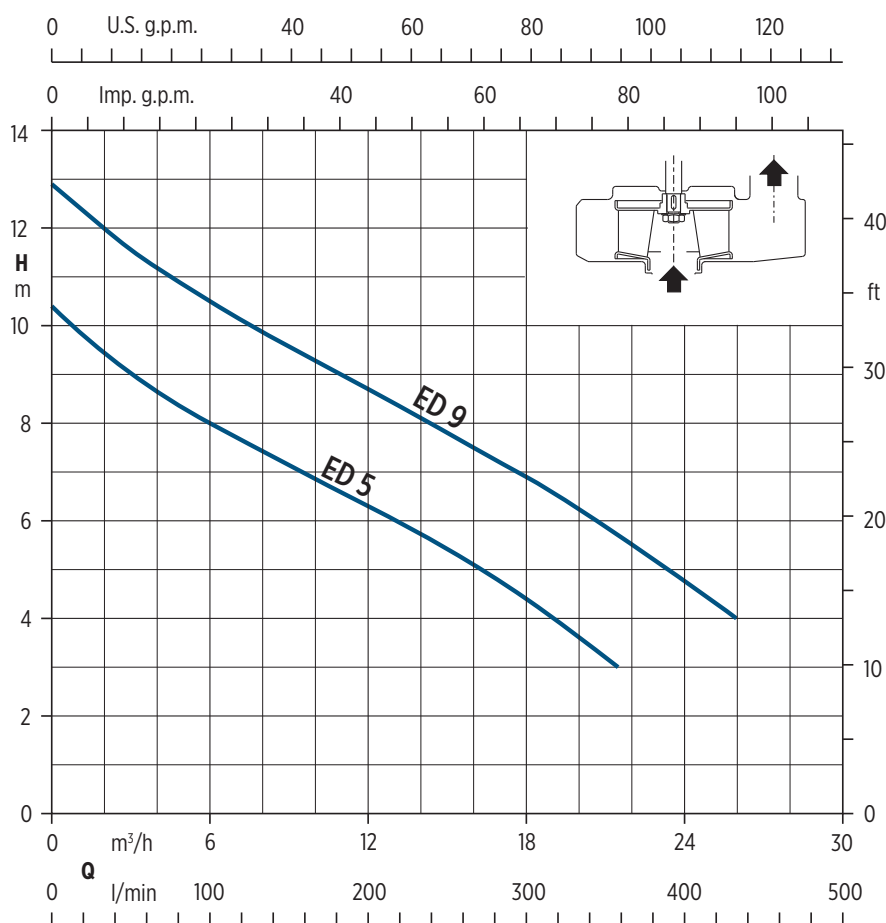
Pump model	3x230 V	3x400 V	P ₁	P ₂		Q = Delivery									
						l/min 0	50	100	150	200	250	300	350	400	433
						m ³ /h 0	3	6	9	12	15	18	21	24	26
	[A]	[kW]	[kW]	[HP]	H = Total meters head of water column [m]										
ED 5 T	2.8	1.6	1	0.55	0.75	10.4	9	8	7.1	6.3	5.4	4.4	3.2	-	-
ED 9 T	4	2.3	1.45	0.9	1.2	12.9	11.6	10.5	9.5	8.7	7.8	6.9	5.9	4.7	4
P ₁ : Max absorbed power			P ₂ : Motor nominal power			Density ρ= 1000 Kg/m ³					Viscosity kinematic ν = max 20 mm ² /sec				

P₁ : Max absorbed power

P₂ : Motor nominal power

Density ρ= 1000 Kg/m³

Viscosity kinematic ν = max 20 mm²/sec



0012024 02/2018

EGT/EGF - SUBMERSIBLE DRAINAGE PUMP FOR DIRTY WATER

FEATURES & BENEFITS

APPLICATIONS



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



Draining rooms, tank drainage



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

FOR DIRTY WATER, SOLIDS UP TO 50 mm

- Containing solids up to 50 mm grain size, for liquids which are compatible with the pump materials
- Free-flow (Vortex) impeller construction
- Cast iron pump casing and impeller with epoxy cataphoresis treatment
- Vertical delivery port (G 2")
- Double mechanical seal in oil chamber, to protect against dry-running
- Silicon carbide mechanical seal version on request
- Dry winding motor, designed in accordance with: EN 60034-1; EN 60335-1, EN 60335-2-41

PUMP IDENTIFICATION CODE

	7	T	400	50	F	SIC
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Mechanical seal version: Silicon carbide / Silicon carbide (on request)

F for pump with float switch (Empty without float switch)

Motor frequency

Motor voltage

Empty for single phase

Nominal power

Pump model

EGT: with vertical threaded delivery port G 2"

EGF: with horizontal flanged and threaded delivery port G 2" - DN50

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GENERAL FEATURES

Model		EGT	EGF
Max. head		15	
Flow [m ³ /h]		up to 26 m ³ /h	
Liquid temperature range [°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 mm ² , length 10 m, with plug Cel-UnaL 47166	
	Three-phase	H07RN-F, 4G1 mm ² , length 10 m (5 m for ED5), without plug	
Motor power [kW]:		0.55 - 1.5 kW	
Motor type:		2-pole induction motor, 50 Hz (n ≈ 2900 rpm)	
Motor standard voltage:	Single-phase	230 V ± 10 %; with float switch and thermal protector 400 V ± 10 %	
	Three-phase		
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	

DESIGN FEATURES

Cable length 10 m, pump single-phase with plug

Handle in polypropylene, with frame in stainless steel

Easy inspection of the capacitor area

Easy adjustment of the float switch to allow the adjustment of start/stop pump levels

Ring against accidental extraction of the cable

Relief valve: the pump is fitted to a relief valve for air release around the impeller granting a proper pump priming also after long standstill periods

The double shaft seal with oil chamber separates the motor from the water and provides further protection against accidental operation when dry

Maximum flexibility of connection:

- Flange DN 50 PN 10 EN 1092-2
- N. 4 M8 holes on Ø 90 for duck foot coupling SA-G2"
- G 2" ISO 228

Chamber with food / Pharmaceutical machinery oil

Impeller with epoxy cataphoresis treatment for a greater protection against corrosion

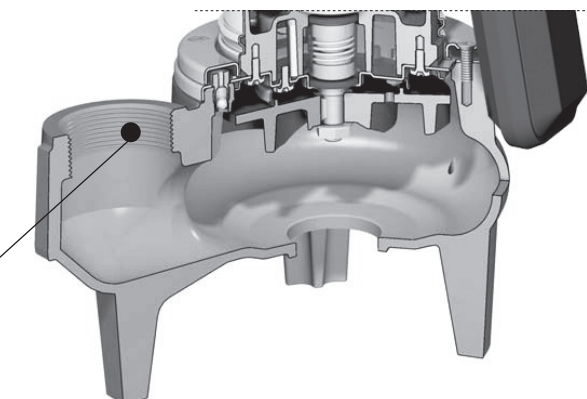
Shaft in chrome-nickel stainless steel

Pump casing with epoxy cataphoresis treatment joined to the external paint for a greater protection against the corrosion

The free-flow impeller (vortex) construction is particularly suitable for liquids containing solids up to 50 mm grain size

EGT

G 2" vertical, upward delivery port for installation in small pits, without the need for an elbow on the pump.



SPARE PARTS AND 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 mechanical seal / Lower mechanical seal	Ceramic alumina / Carbon / NBR	-	-
Seal lubrication oil	Oil for food / Pharmaceutical machinery	-	-

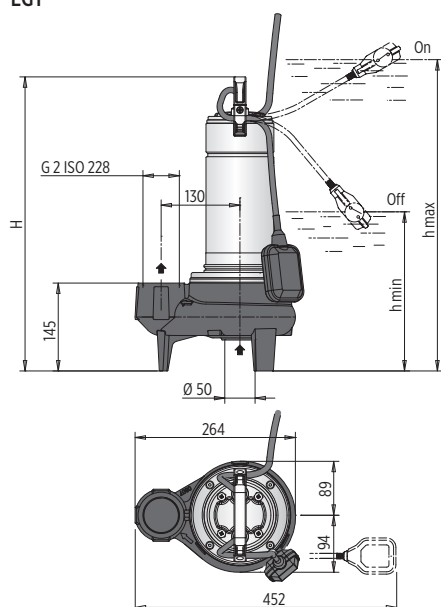
DIMENSIONS AND WEIGHTS

Pump model	Dimensions [mm]			h min	
	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	-

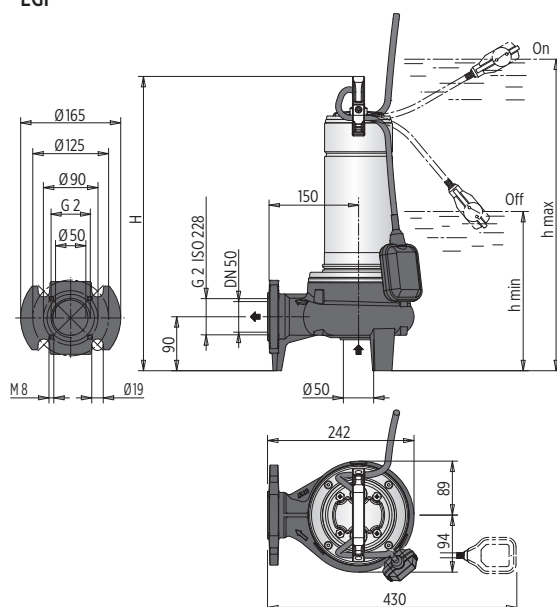
Pump model	Dimensions [mm]			h min	
	H	h max	h min	Single-phase	Three-phase
EGF 7 (T)	460	535	275	16.2	15.2
EGF 9 (T)	485	560	300	18	16
EGF 11 (T)	505	580	320	20.5	19
EGF 15 T	505	580	320	-	20.5
EGF 15	535	610	350	22	-

DIMENSIONAL DRAWINGS

EGT



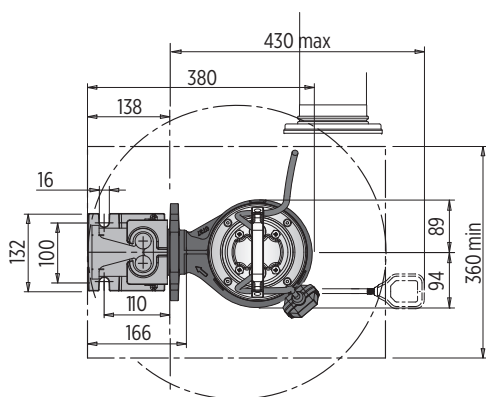
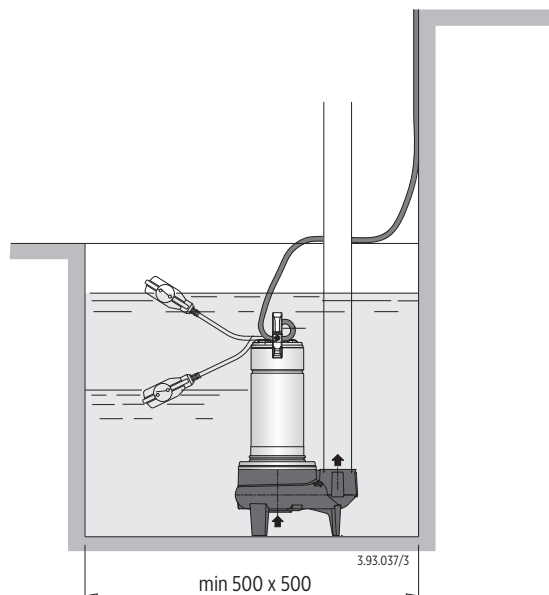
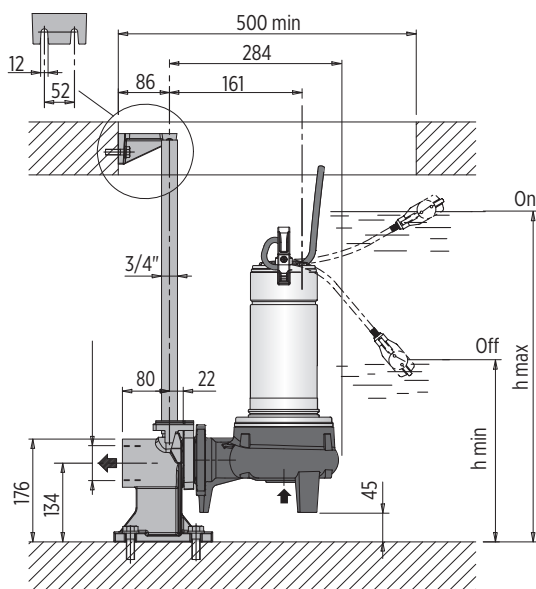
EGF



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INSTALLATION

STATIONARY INSTALLATION

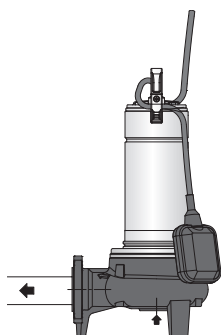


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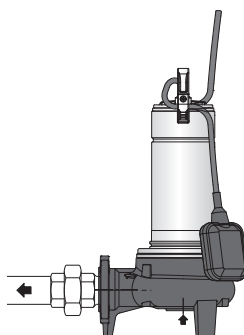
Pump model	EGT	
	Dimensions [mm]	
	h max	h min
EGT 7 (T)	535	275
EGT 9 (T)	560	300
EGT 11 (T)	580	320
EGT 15 T	580	320
EGT 15	610	350

Pump model	EGF	
	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

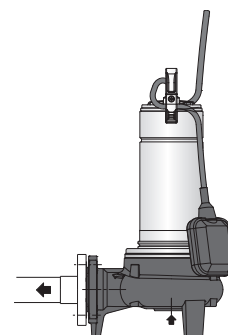
CONNECTION EXAMPLES



Pump with threaded ports:
pipes screwed into the ports



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



Pump with DN 50 flanged ports:
pipes with counter-flanges

0013012EN 02/2018

EGT/EGF HYDRAULIC PERFORMANCE AT 50 HZ \approx 2900 1/MIN

Pump model	1x230 V	Capacitor		P ₁	P ₂		Q = Delivery											
							l/min 0	50	100	150	200	250	300	350	400	500	550	600
							m³/h 0	3	6	9	12	15	18	21	24	30	33	36
	[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

P₁ : Max absorbed power

P₂ : Motor nominal power

Density $\rho = 1000 \text{ Kg/m}^3$

Viscosity kinematic $\nu = \text{max } 20 \text{ mm}^2/\text{sec}$

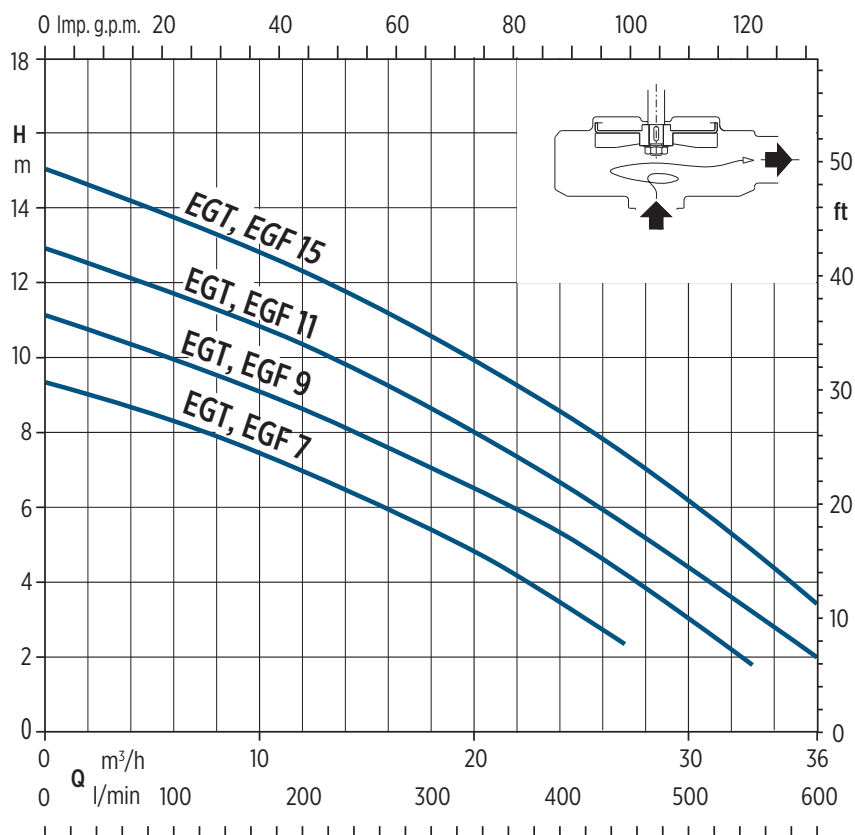
Pump model	3x230 V	3x400 V	P ₁	P ₂		Q = Delivery													
						l/min 0	50	100	150	200	250	300	350	400	500	550	600		
						m³/h 0	3	6	9	12	15	18	21	24	30	33	36		
	[A]	[kW]	[kW]	[HP]	H = Total meters head of water column [m]														
EGT/F 7 T	3.1	1.8	1.1	0.75	1	9.3	8.8	8.3	7.7	7	6.2	5.3	4.3	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		

P₁ : Max absorbed power

P₂ : Motor nominal power

Density $\rho = 1000 \text{ Kg/m}^3$

Viscosity kinematic $\nu = \text{max } 20 \text{ mm}^2/\text{sec}$



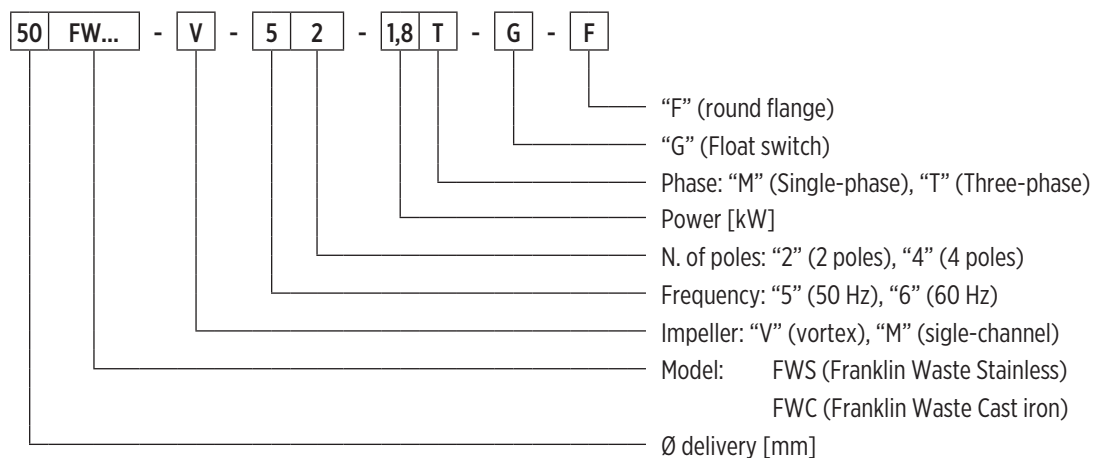
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FWS-FWC Series - Wastewater lift pumps 50 Hz



FWS-FWC SERIES - WASTEWATER LIFT PUMPS 50 HZ

PUMP IDENTIFICATION CODE



00140066 11/2022

32FWS V SERIES 50 HZ

FEATURES & BENEFITS

APPLICATIONS



Pumping of clear non-loaded fluids



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



Wastewater

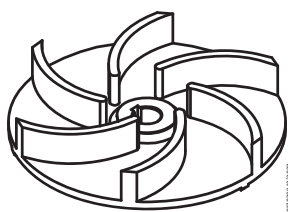


MARKETS



STAINLESS STEEL AND CAST IRON SUBMERSIBLE WASTEWATER LIFT PUMPS

Submersible electric pump particularly suitable for the emptying of basements, garages, cellars and flooded premises.



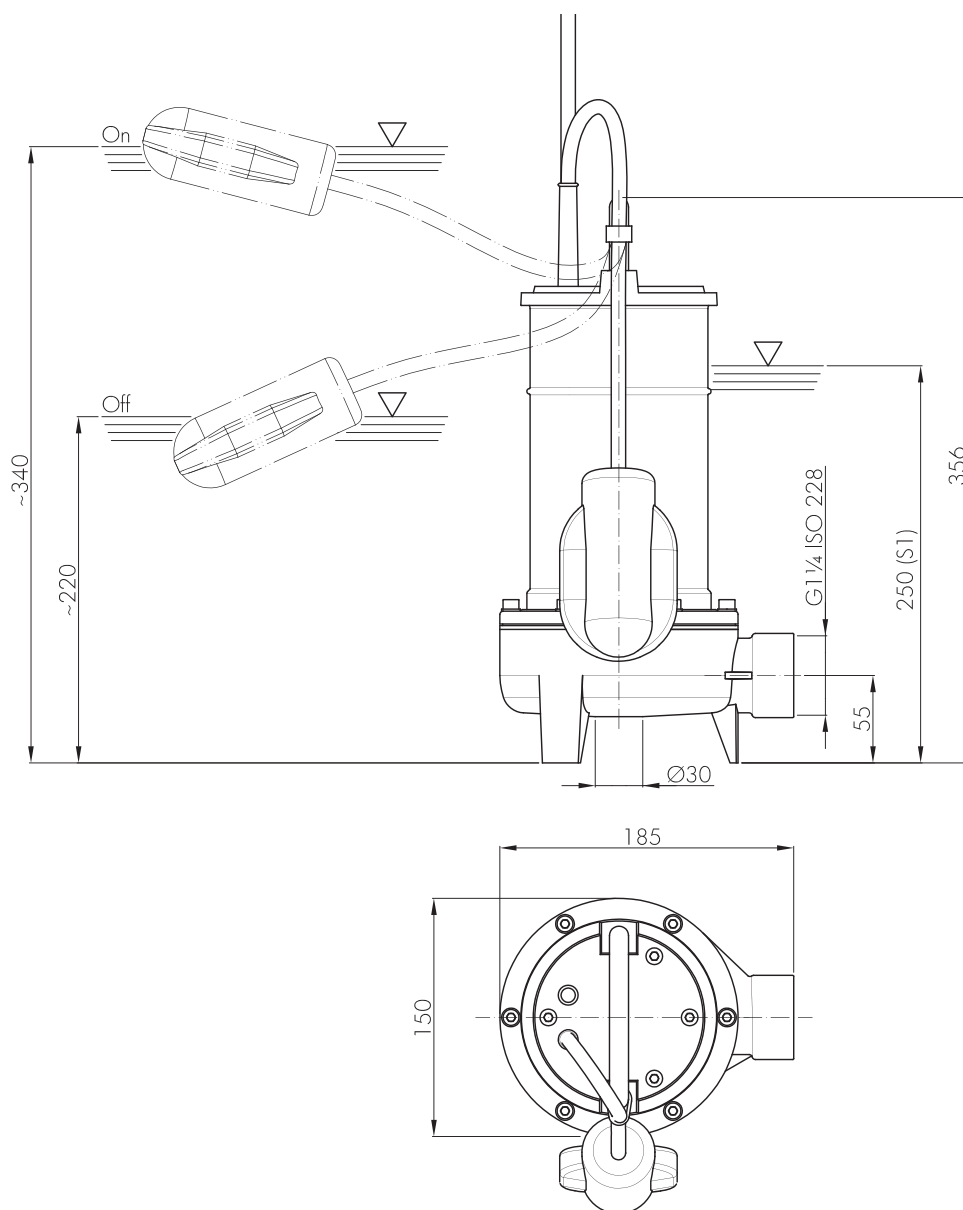
VORTEX IMPELLER

GENERAL FEATURES

Materials/Constr.design		
Vortex impeller		Cast iron EN GJL200
External casing		Stainless steel AISI304
Pump body		Cast iron EN GJL200
Cover		Cast iron EN GJL200
Mechanical seal	motor side	Seal ring
	pump side	Graphite/Alumina
Motor shaft		Stainless steel AISI416
Power cable		10 m H07RN-F type, 3G1 mm ² and SCHUKO plug
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, built in capacitor, float switch as optional
Limits of use		
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		250 mm
Free passage		30 mm
Max. number of starting/hour		20
Construction options		

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

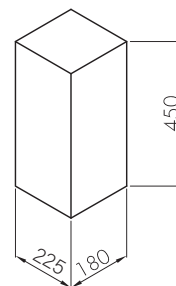
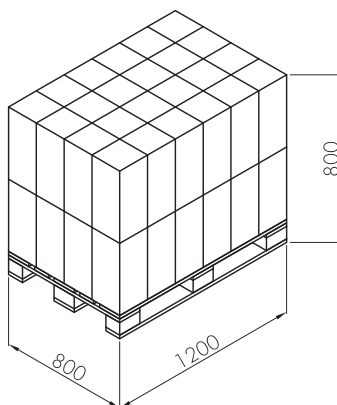
DIMENSIONAL DRAWINGS



00130276 12/2022

Packaging		
Pump model	Dimensions [mm]	Weight [kg]
32 FWS V	225x180x450	11,5

Pallet		
Dimensions [mm]	N° of pumps	Weight [kg]
1200x800x800	32	400



00130288 02/2023

TECHNICAL DATA

Pump model	Motor absorbed power P ₁	Rated power P ₂		Voltage	Rated current	Phase	Power cable		Float switch	Running capacitor	Delivery port	Weight [kg]
	[kW]	[kW]	[HP]	[V]	[A]		Length [m]	Type		[μF]		
32FWS-V-52-0,3M	0,57	0,3	0,4	230	2,8	1 ~	10	3G1	-	8	G1¼	11
32FWS-V-52-0,3M-G	0,57	0,3	0,4	230	2,8	1 ~	10	3G1	•	8	G1¼	11

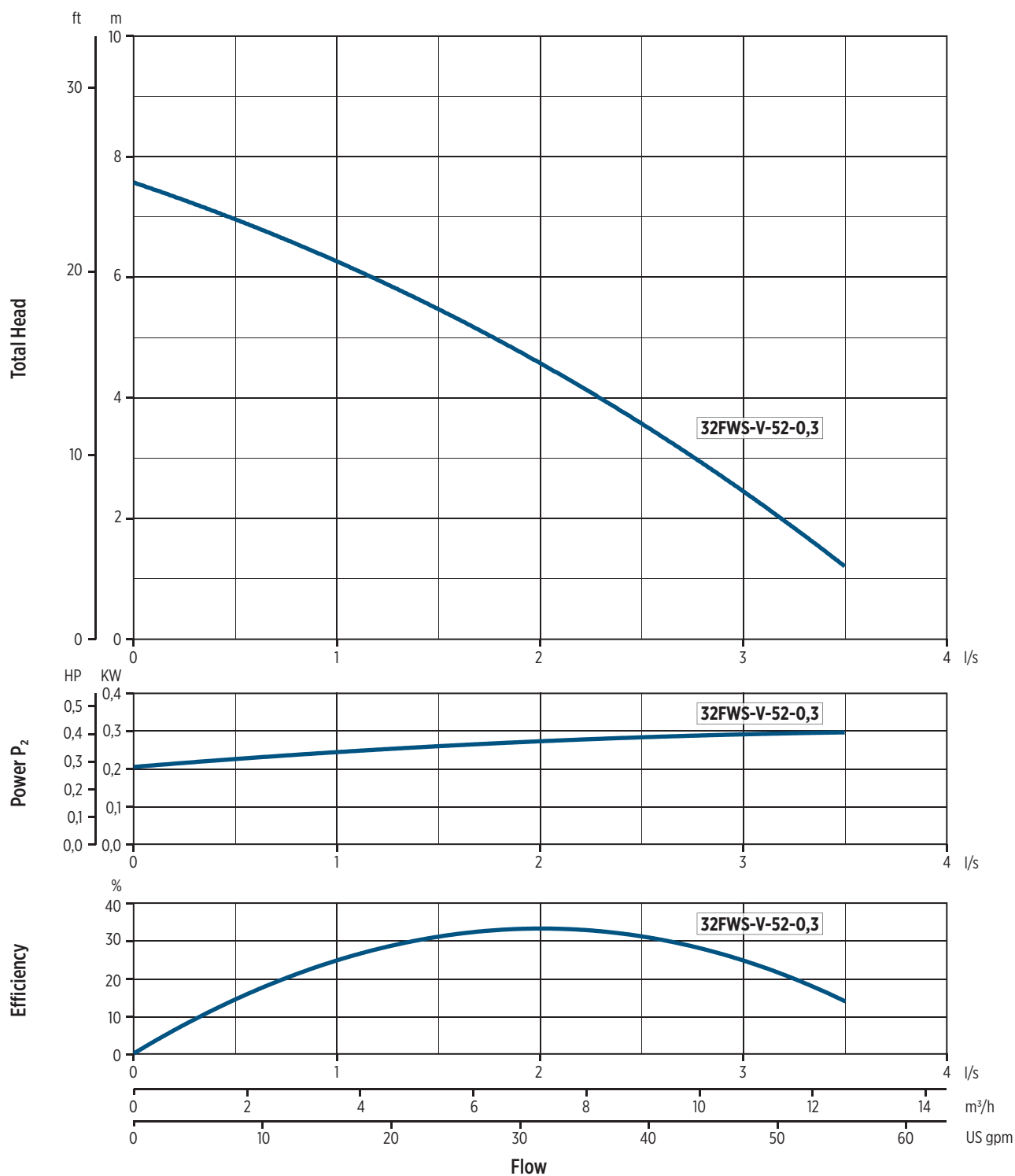
“-” = not available

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HYDRAULIC PERFORMANCE AT 50 HZ

Pump model	Phase	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]							
32FWS-V-52-0,3	1 ~	7,6	6,9	6,3	5,5	4,6	3,5	2,5	1,2

PERFORMANCE CURVES AT 50 HZ



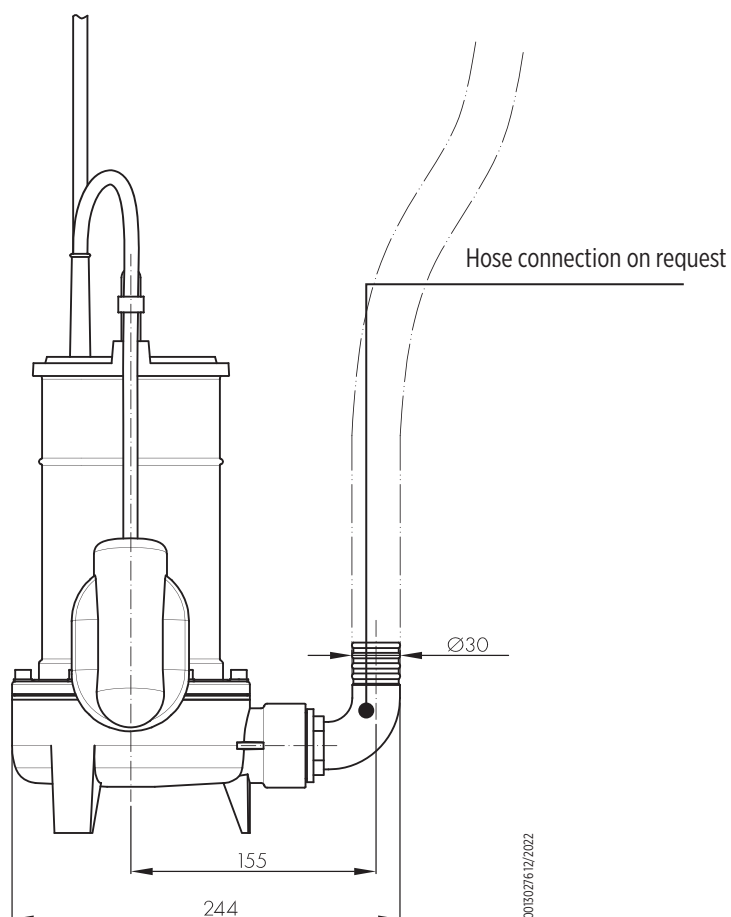
0020092 12/2022

INSTALLATION

INSTALLATION INSTRUCTIONS

TRANSPORTABLE INSTALLATION

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



40FWS V SERIES 50 HZ

FEATURES & BENEFITS

APPLICATIONS



Pumping of clear non-loaded fluids



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



Wastewater

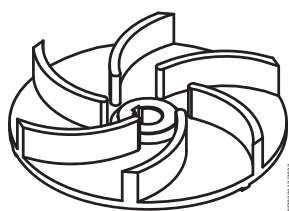


MARKETS



STAINLESS STEEL AND CAST IRON SUBMERSIBLE WASTEWATER LIFT PUMPS

Submersible electric pump particularly suitable for the emptying of basements, garages, cellars and flooded premises.



VORTEX IMPELLER

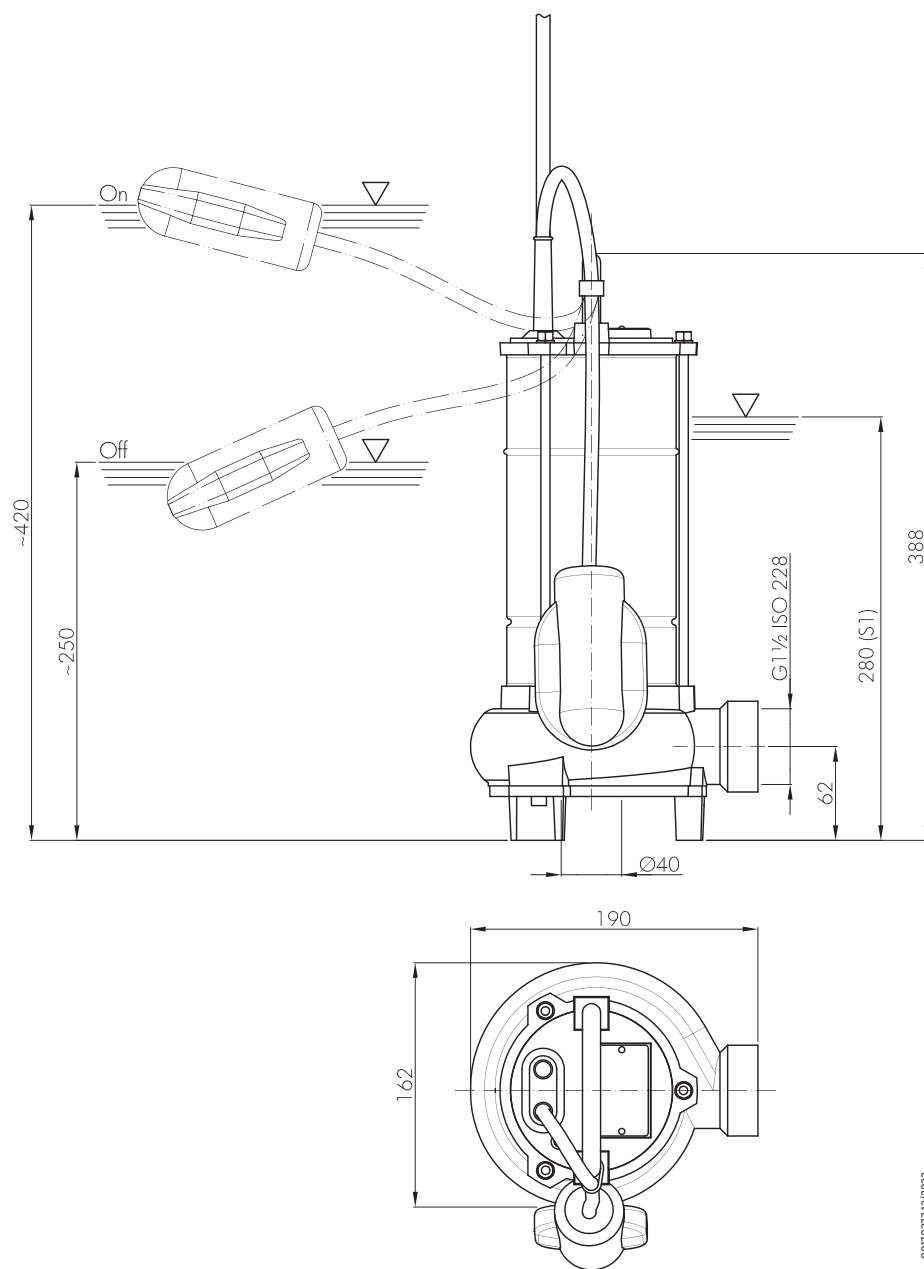
000088 10/2022

GENERAL FEATURES

		Materials/Constr.design
Vortex impeller		Cast iron EN GJL200
External casing		Stainless steel AISI304
Pump body		Cast iron EN GJL200
Cover		Cast iron EN GJL200
Mechanical seal	motor side	Seal ring
	pump side	Graphite/Alumina
Motor shaft		Stainless steel AISI416
Power cable	Type	10 m H07RN-F type
	Single-phase	3G1mm ² with SCHUKO plug (CEE 7/VII)
	Three-phase	4G1 mm ²
Motor		
Constr.design		asynchronous squirrel cage-type oil filled
Type		2 poles; 50 Hz
Insulation class		F
Protection degree		IP68
Voltage	Single-phase	230 V ±6% built-in overheating protection, built in capacitor, float switch as optional
	Three-phase	230V ±10%, 400V ±10%
Limits of use		
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		280 mm
Free passage		20 mm
Max. number of starting/hour		20
Construction options		

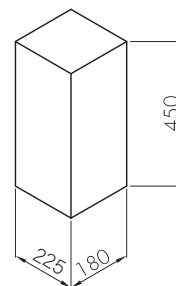
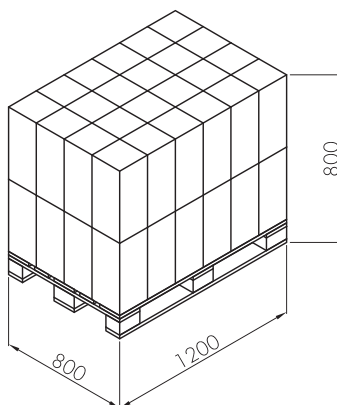
- 60 Hz version
- Different voltages
- Food-grade white oil
- Silicon carbide (SiC/SiC) mechanical seal

DIMENSIONAL DRAWINGS



Packaging		
Pump model	Dimensions [mm]	Weight [kg]
40 FWS V	225x180x450	13,5

Pallet		
Dimensions [mm]	N° of pumps	Weight [kg]
1200x800x800	32	460



00130288 02/2023

TECHNICAL DATA

Pump model	Motor absorbed power P_1	Rated power P_2		Voltage	Rated current	Phase	Power cable		Float switch	Running capacitor	Delivery port	Weight [kg]
	[kW]	[kW]	[HP]	[V]	[A]		Length [m]	Type		[μ F]		
40FWS-V-52-0,37M	0,58	0,37	0,5	230	3	1 ~	10	3G1	-	8	G1½	13
40FWS-V-52-0,37M-G	0,58	0,37	0,5	230	3	1 ~	10	3G1	•	8	G1½	13
40FWS-V-52-0,6M	0,72	0,6	0,8	230	3,7	1 ~	10	3G1	-	10	G1½	13
40FWS-V-52-0,6M-G	0,72	0,6	0,8	230	3,7	1 ~	10	3G1	•	10	G1½	13
40FWS-V-52-0,7M	0,88	0,7	0,95	230	4,8	1 ~	10	3G1	-	14	G1½	14
40FWS-V-52-0,7M-G	0,88	0,7	0,95	230	4,8	1 ~	10	3G1	•	14	G1½	14
40FWS-V-52-0,7T	0,88	0,7	0,95	400	1,8	3 ~	10	4G1	-	-	G1½	14
40FWS-V-52-0,7T-G	0,88	0,7	0,95	400	1,8	3 ~	10	4G1	•	-	G1½	14

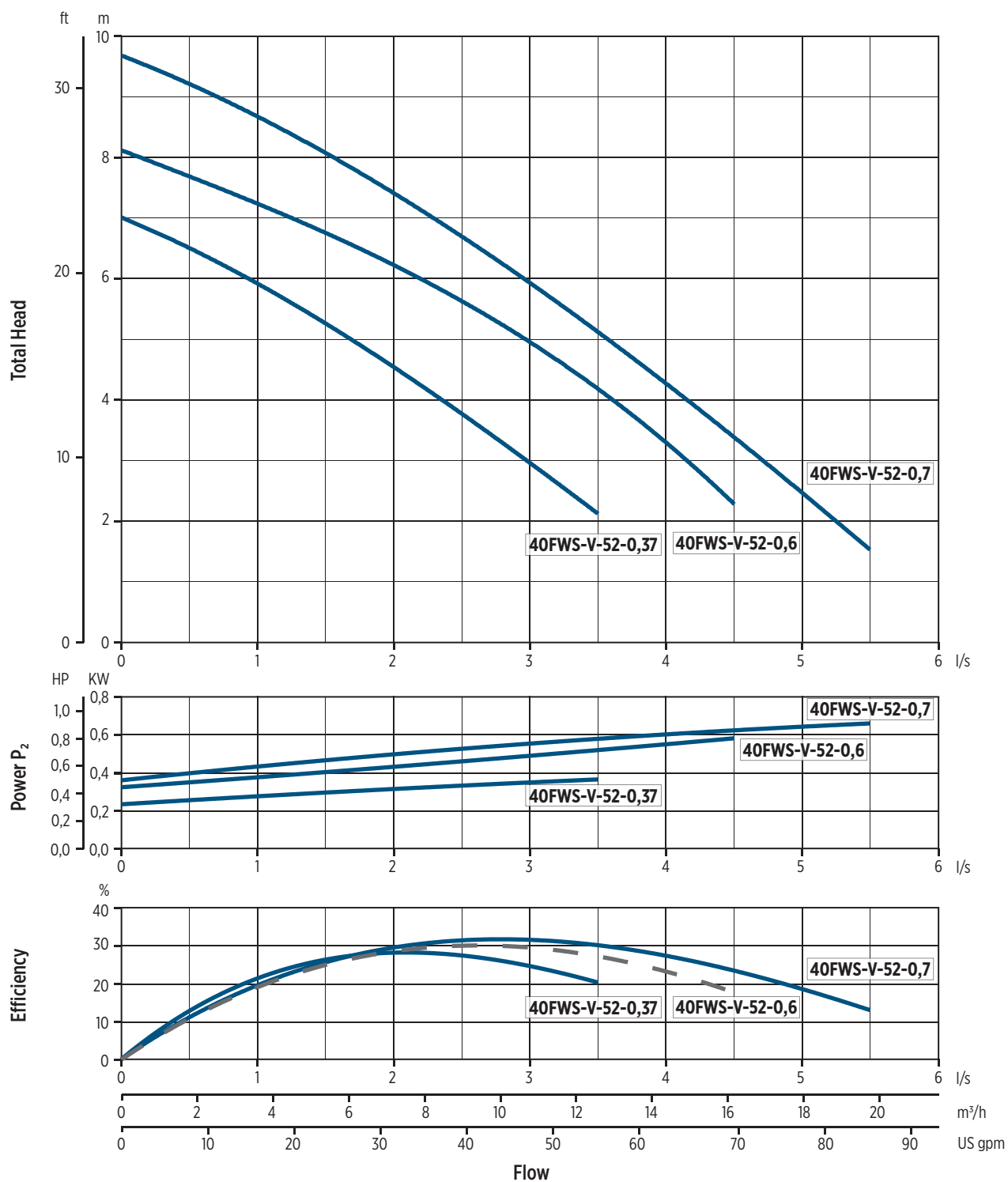
“-” = not available

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HYDRAULIC PERFORMANCE AT 50 HZ

Pump model	Phase	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]											
40FWS-V-52-0,37	1 ~	7	6,5	6	5,2	4,5	3,8	3	2,1				
40FWS-V-52-0,6	1 ~	8,1	7,8	7,1	6,8	6,2	5,7	5	4,1	3,3	2,3		
40FWS-V-52-0,7	1 ~	9,8	9	8,7	8,1	7,5	6,8	5,9	5	4,2	3,5	2,5	1,5
	3 ~	9,8	9	8,7	8,1	7,5	6,8	5,9	5	4,2	3,5	2,5	1,5

PERFORMANCE CURVES AT 50 HZ



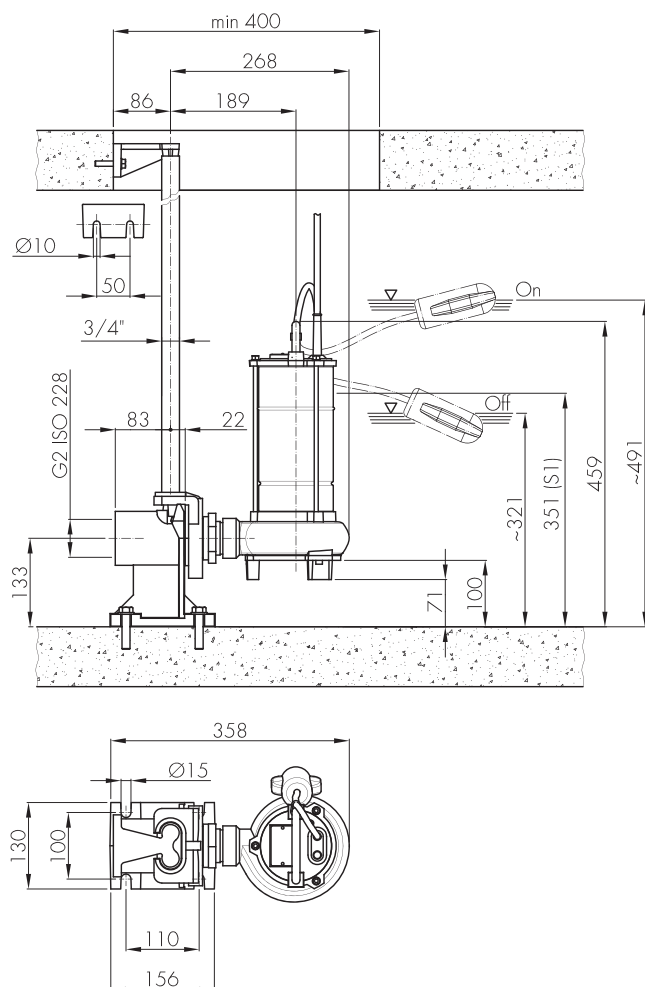
002009312/2022

INSTALLATION

INSTALLATION INSTRUCTIONS

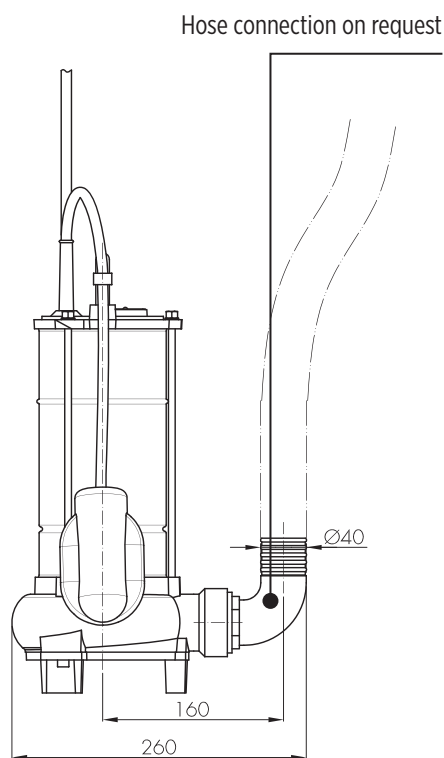
PERMANENT INSTALLATION WITH COUPLING SYSTEM

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.



00130277 12/2022

50FWS V SERIES 50 HZ

FEATURES & BENEFITS

APPLICATIONS



Pumping of clear non-loaded fluids



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



Wastewater

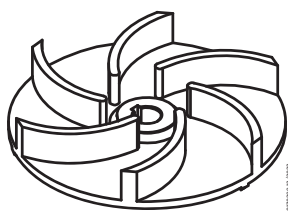


MARKETS



STAINLESS STEEL AND CAST IRON SUBMERSIBLE WASTEWATER LIFT PUMPS

Submersible electric pump particularly suitable for the emptying of basements, garages, cellars and flooded premises.



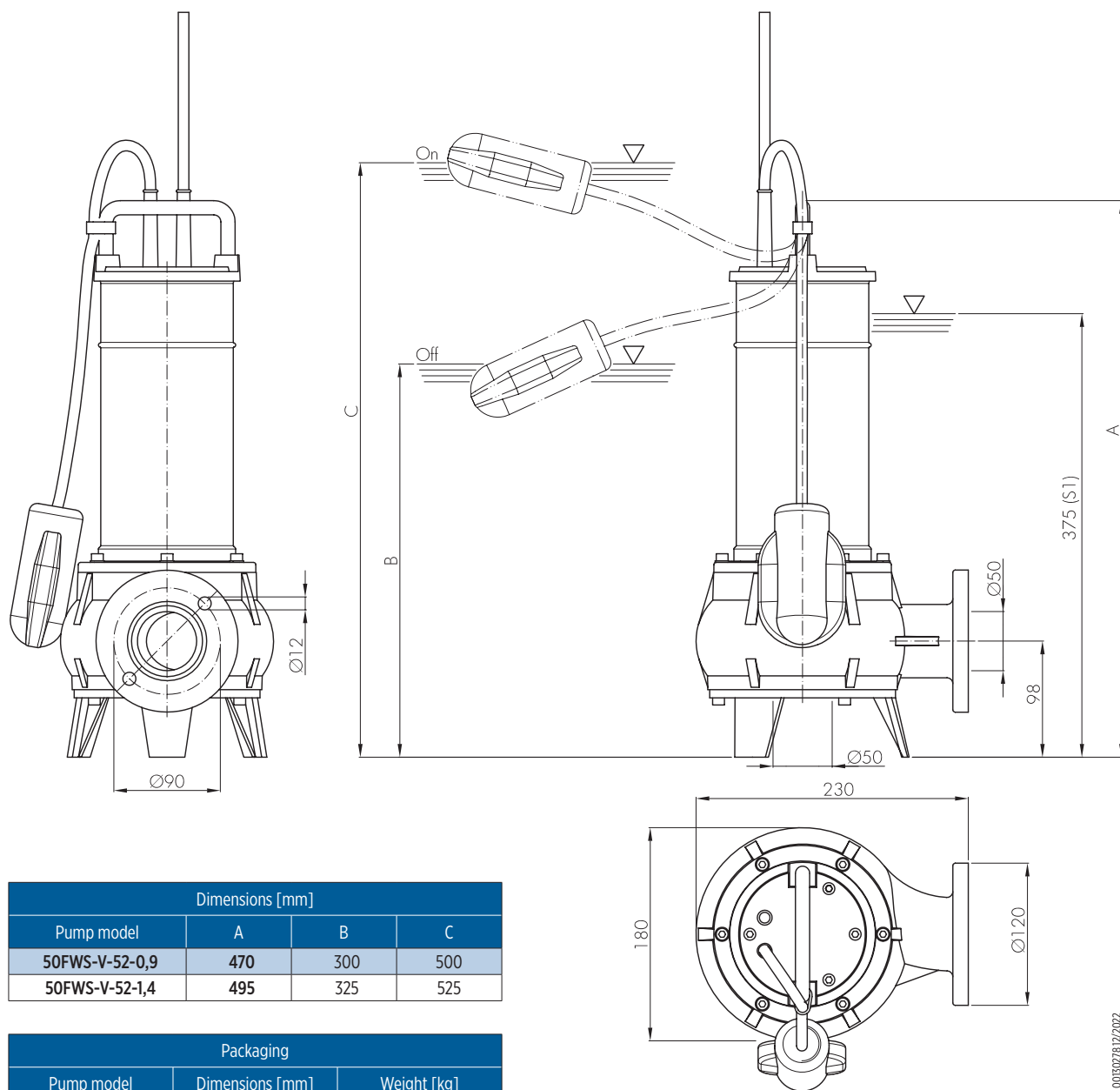
VORTEX IMPELLER

GENERAL FEATURES

Materials/Constr.design		
Vortex impeller		Cast iron EN GJL200
External casing		Stainless steel AISI304
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 AISI416
Power cable	Type	10 m H07RN-F type
	Single-phase	3G1 mm ² with SCHUKO plug (CEE 7/VII)
	Three-phase	4G1 mm ²
Motor		
Constr.design		asynchronous squirrel cage-type in dry chamber
Type		2 poles; 50 Hz
Insulation class		F
Protection degree		IP68
Voltage	Single-phase	230V ±6% built-in overheating protection, built in capacitor, float switch as optional
	Three-phase	230V ±10%, 400V ±10%
Limits of use		
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		375 mm
Free passage		50 mm
Max. number of starting/hour		20
Construction options		

- 60 Hz version
- Different voltages
- External capacitor with 4G1mm² cable

DIMENSIONAL DRAWINGS



Dimensions [mm]			
Pump model	A	B	C
50FWS-V-52-0,9	470	300	500
50FWS-V-52-1,4	495	325	525

Packaging		
Pump model	Dimensions [mm]	Weight [kg]
50FWS-V-52-0,9	255x205x560	18,7
50FWS-V-52-1,4	255x205x560	19,7

TECHNICAL DATA

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

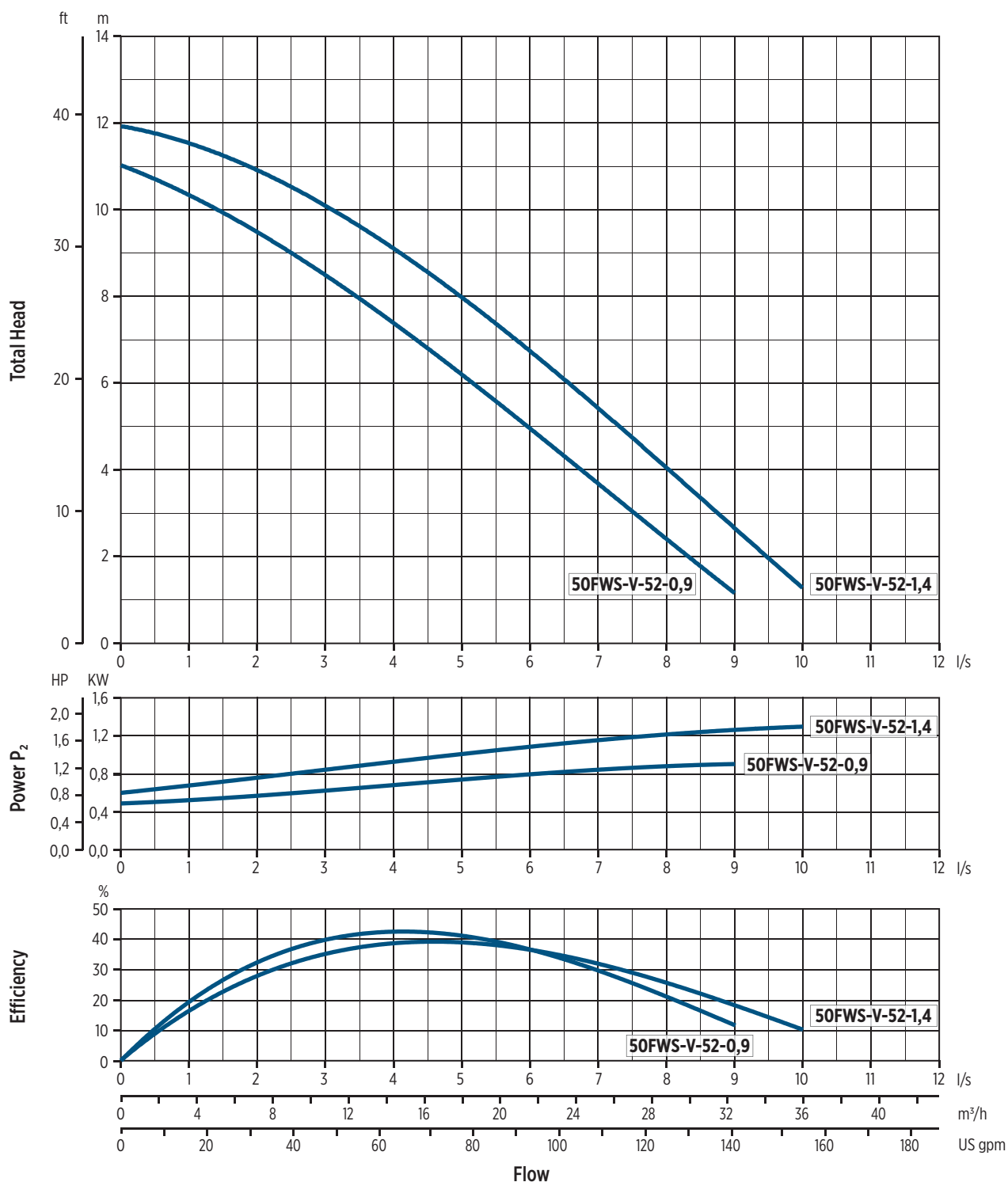
"-" = not available

• = available

HYDRAULIC PERFORMANCE AT 50 HZ

Pump model	Phase	Q = Delivery														
		l/sec 0	1	1,5	2	2,5	3	3,5	4	4,5	5	6	7	8	9	10
		m³/h 0	3,6	5,4	7,2	9	10,8	12,6	14,4	16,2	18	21,6	25,2	28,8	32,4	36
		US gpm 0	15,8	23,7	31,7	39,6	47,5	55,5	63,4	71,3	79,2	92,1	110,9	126,8	142,6	158,5
		H = Total meters head of water column [m]														
50FWS-V-52-0,9	1 ~	11	10,3	9,9	9,4	8,9	8,5	7,9	7,4	6,8	6,2	4,9	3,7	2,3	1,2	
	3 -	11	10,3	9,9	9,4	8,9	8,5	7,9	7,4	6,8	6,2	4,9	3,7	2,3	1,2	
50FWS-V-52-1,4	1 ~	12	11,5	11,2	10,8	10,5	10,1	9,7	9,2	8,6	8	6,7	5,4	4	2,7	1,3
	3 -	12	11,5	11,2	10,8	10,5	10,1	9,7	9,2	8,6	8	6,7	5,4	4	2,7	1,3

HYDRAULIC PERFORMANCE AT 50 HZ



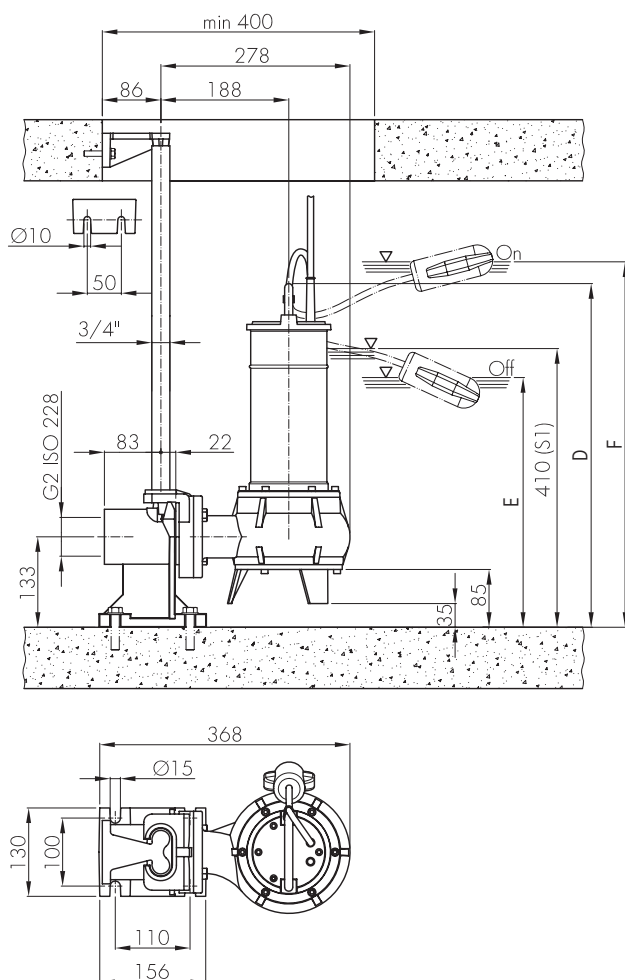
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INSTALLATION

INSTALLATION INSTRUCTIONS

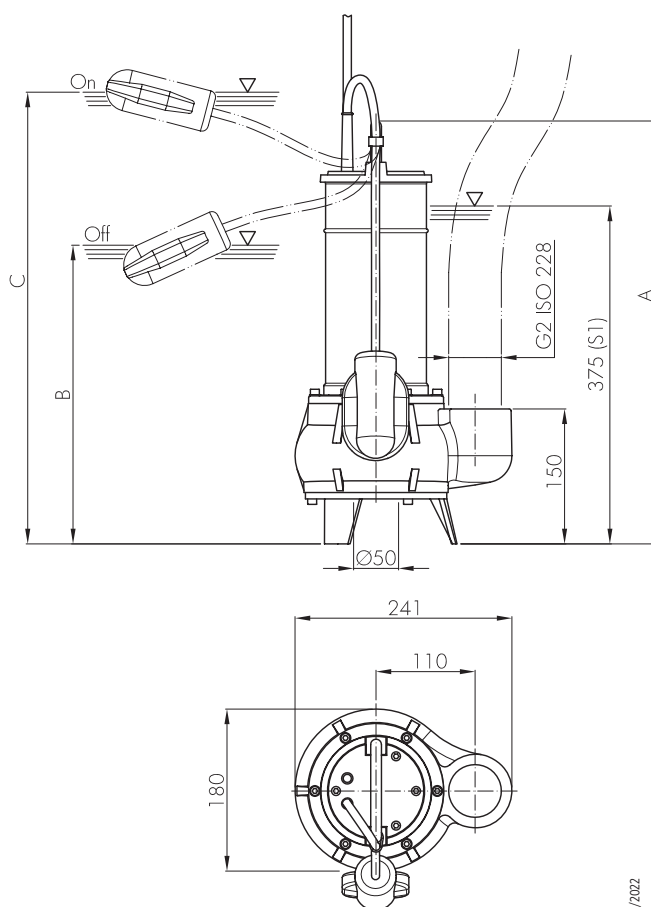
PERMANENT INSTALLATION WITH COUPLING SYSTEM

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.



0030278 12/2022

Installation Dimensions [mm]						
Pump model	A	B	C	D	E	F
50FWS-V-52-0,9	470	300	500	505	335	535
50FWS-V-52-1,4	495	325	525	530	360	560

50FWC V SERIES 50 HZ

FEATURES & BENEFITS

APPLICATIONS



Pumping of clear non-loaded fluids



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



Wastewater

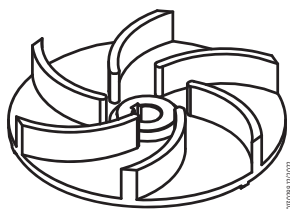


MARKETS



CAST IRON SUBMERSIBLE WASTEWATER LIFT PUMPS

Submersible electric pumps suitable for pumping screened waste water, draining the sewage of blocks of flats and houses and flooded premises in general.



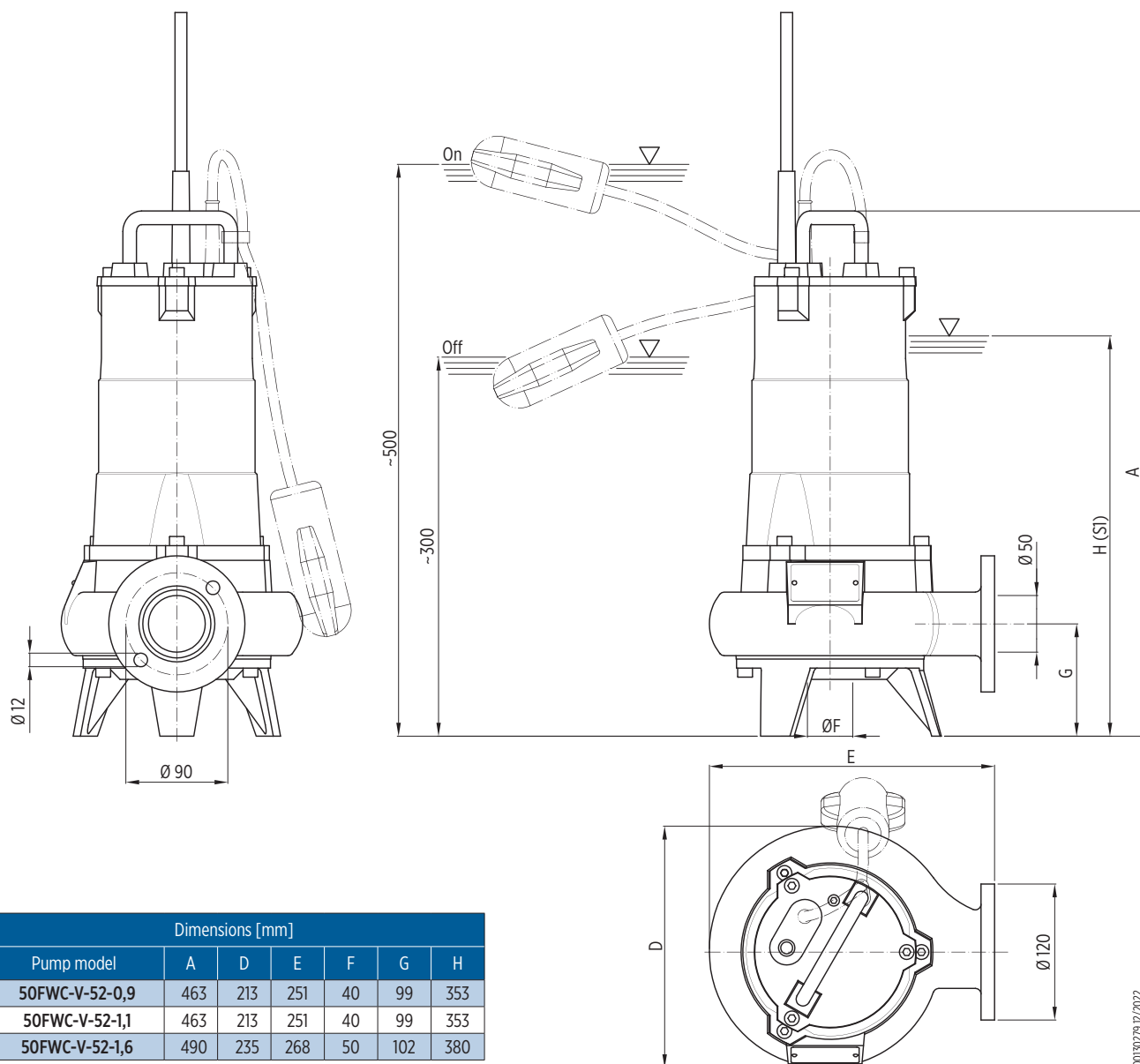
VORTEX IMPELLER

GENERAL FEATURES

		Materials/Constr.design
Vortex impeller		Cast iron EN GJL200
External casing		Cast iron EN GJL200
Pump body		Cast iron EN GJL200
Cover		Cast iron EN GJL200
Mechanical seal		Silicon carbide (SiC/SiC)
Motor shaft		Stainless steel AISI416
Power cable	Type	10 m H07RN-F type
	Single-phase	4G1,5mm ² , capacitor box and SCHUKO plug (CEE 7/VII)
	Single-phase 50FWC-V-52-1,6M	4G2,5mm ² , capacitor box and SCHUKO plug (CEE 7/VII)
	Three-phase	4G1,5mm ²
		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), float switch as optional capacitor box and SCHUKO plug (CEE 7/VII)
	Three-phase	230V ±10%, 400V ±10%
		Limits of use
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		
50FWC-V-52-0,9M/T, 50FWC-V-52-1,1M/T		353 mm
50FWC-V-52-1,6M/T		380 mm
Free passage	50FWC-V-52-0,9M/T, 50FWC-V-52-1,1M/T	40 mm
	50FWC-V-52-1,6M/T	50 mm
Max. number of starting/hour		20
		Construction options

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

DIMENSIONAL DRAWINGS



00130279 12/2022

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

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

TECHNICAL DATA

Pump model	Motor absorbed power P_1	Rated power P_2		Voltage	Rated current	Phase	Power cable		Float switch	Running capacitor	Delivery 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

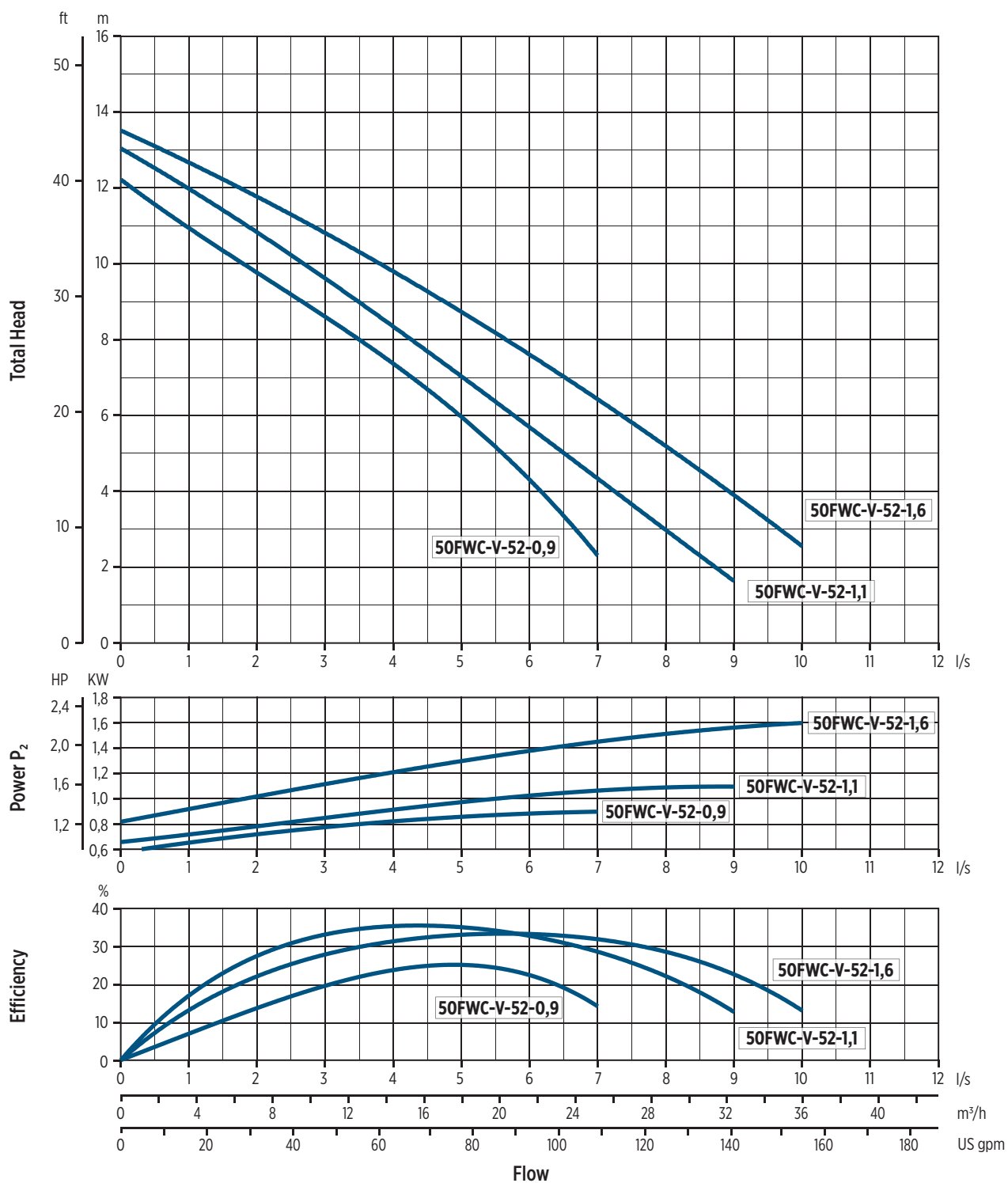
“-” = not available

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HYDRAULIC PERFORMANCE AT 50 HZ

Pump model	Phase	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	1 ~	12,2	11	9,8	8,5	7,4	6	4,3	2,3			
	3 ~	12,2	11	9,8	8,5	7,4	6	4,3	2,3			
50FWC-V-52-1,1	1 ~	13	12	11	9,5	8,3	7	5,7	4,4	3	1,6	
	3 ~	13	12	11	9,5	8,3	7	5,7	4,4	3	1,6	
50FWC-V-52-1,6	1 ~	14	12,5	11,5	10,5	9,6	8,7	7,8	6,8	5,5	4	2,1
	3 ~	14	12,5	11,5	10,5	9,6	8,7	7,8	6,8	5,5	4	2,1

HYDRAULIC PERFORMANCE AT 50 HZ



0020095 12/2022

INSTALLATION

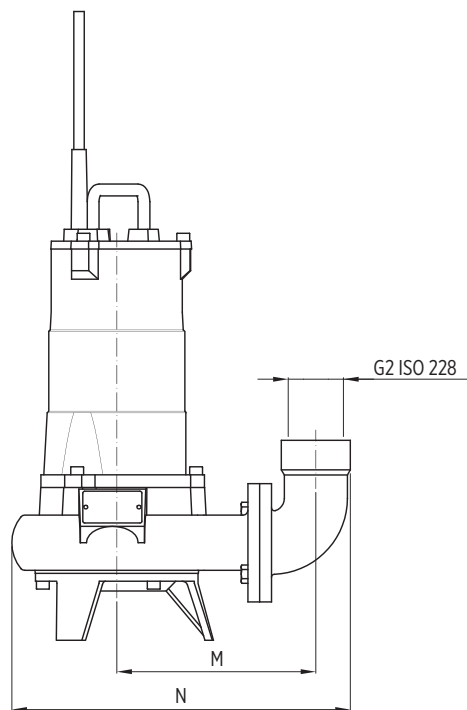
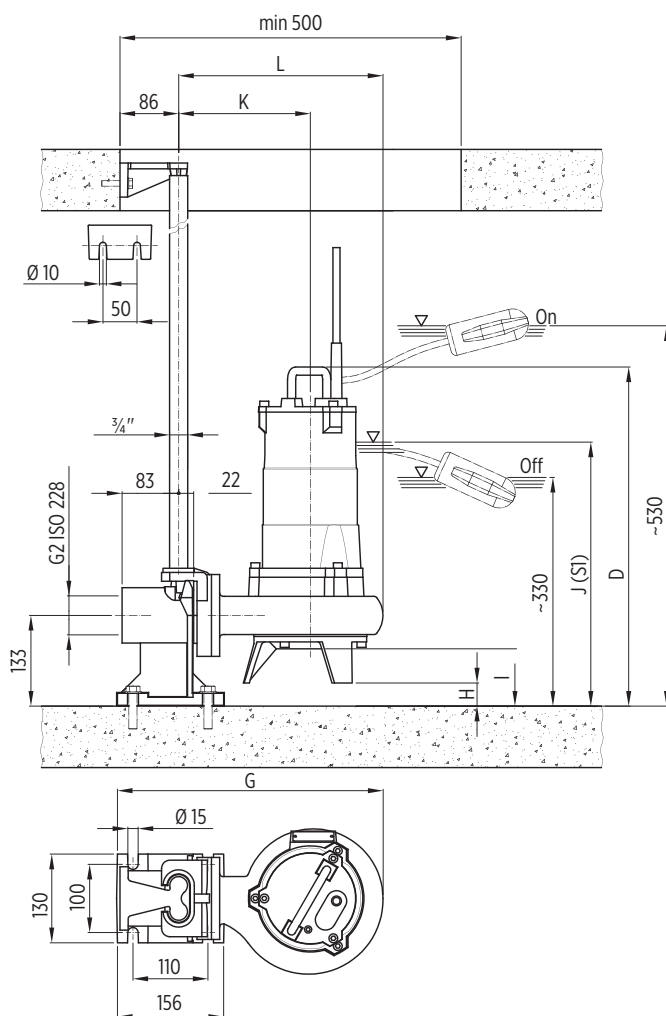
INSTALLATION INSTRUCTIONS

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.



00150279/12/2022

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 M SERIES 50 HZ

FEATURES & BENEFITS

APPLICATIONS



Pumping of clear non-loaded fluids



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



Wastewater



MARKETS



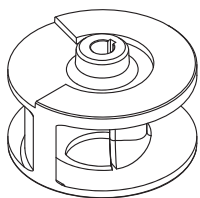
RESIDENTIAL



COMMERCIAL

CAST IRON SUBMERSIBLE WASTEWATER LIFT PUMPS

Submersible electric pumps suitable for pumping screened waste water, draining the sewage of blocks of flats and houses and flooded premises in general.



00012017/2/2022

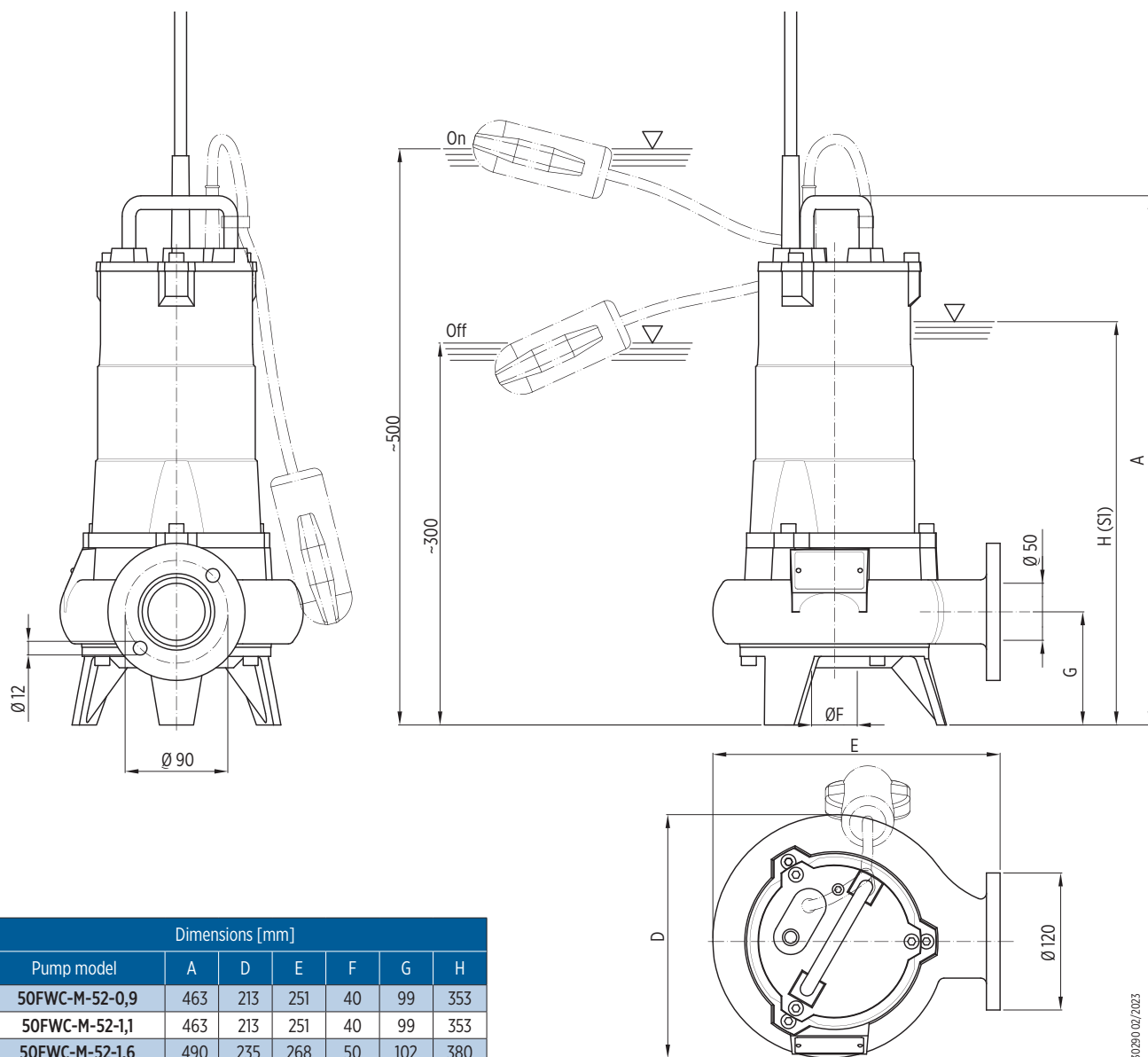
SINGLE-CHANNEL IMPELLER

GENERAL FEATURES

		Materials/Constr.design
Vortex impeller		Cast iron EN GJL200
Pump body		Cast iron EN GJL200
External casing		Cast iron EN GJL200
Cover		Cast iron EN GJL200
Mechanical seal		Silicon carbide (SiC/SiC)
Motor shaft		Stainless steel AISI416
Power cable	Type	10 m H07RN-F type
	Single-phase	4G1,5mm ² , capacitor box and SCHUKO plug (CEE 7/VII)
	Single-phase 50FWC-M-52-1,6M	4G2,5mm ² , capacitor box and SCHUKO plug (CEE 7/VII)
	Three-phase	4G1,5mm ²
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, float switch as optional capacitor box and SCHUKO plug (CEE 7/VII)
	Three-phase	230V ±10%, 400V ±10%
Limits of use		
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		
50FWC-M-52-0,9M/T, 50FWC-M-52-1,1M/T		353 mm
50FWC-M-52-1,6M/T, 50FWC-M-52-1,6T-HH		380 mm
Free passage	50FWC-M-52-0,9M/T, 50FWC-M-52-1,1M/T	40 mm
	50FWC-M-52-1,6M/T, 50FWC-M-52-1,6T-HH	50 mm
Max. number of starting/hour		20
Construction options		

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

DIMENSIONAL DRAWINGS



00150250 02/2023

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

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

TECHNICAL DATA

Pump model	Motor absorbed power P_1	Rated power P_2		Voltage	Rated current	Phase	Power cable		Float switch	Running capacitor	Delivery 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-HH	2,2	1,6	2,1	400	4,2	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

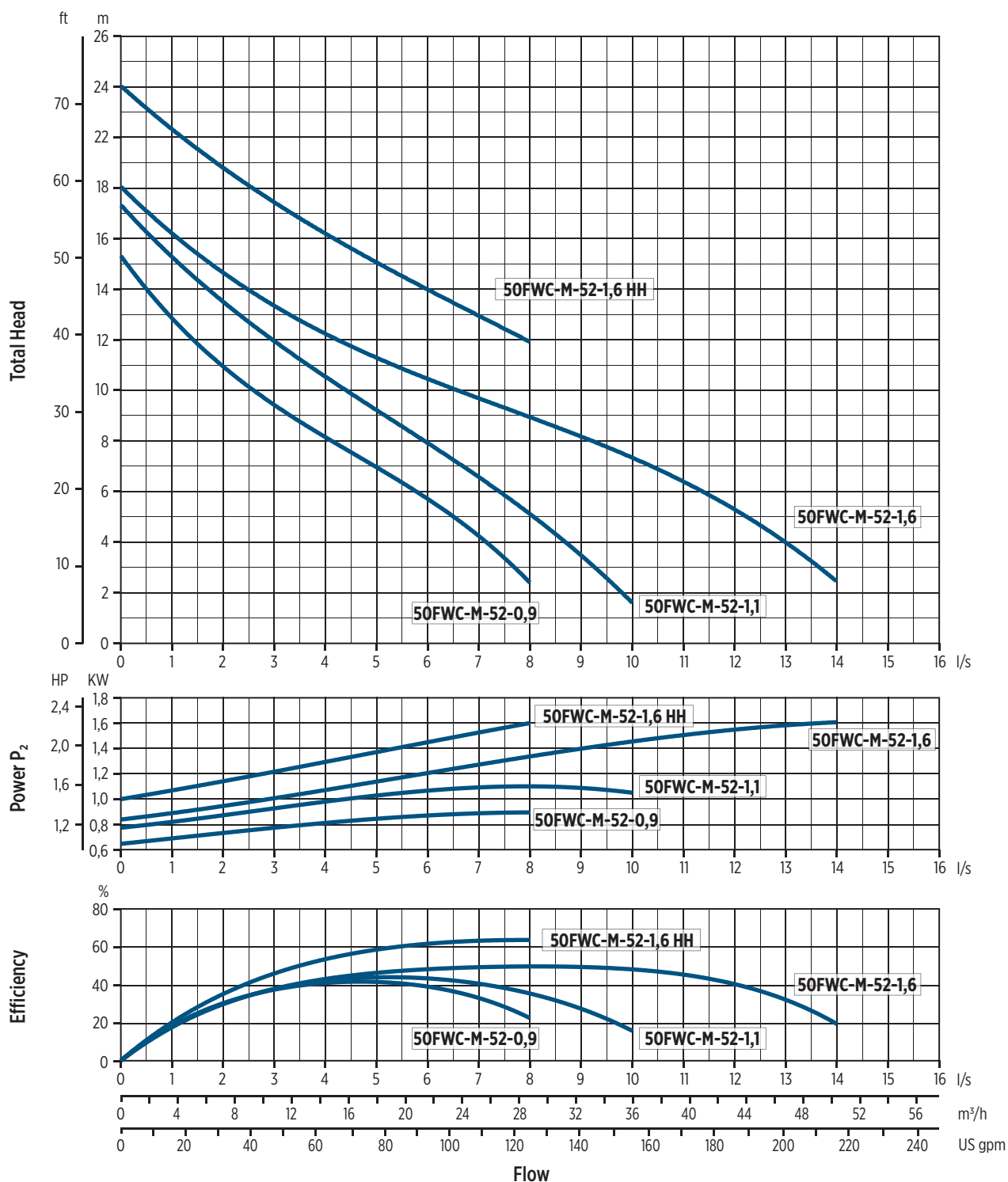
“-” = not available

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HYDRAULIC PERFORMANCE AT 50 HZ

Pump model	Phase	Q = Delivery													
		l/sec 0	1	2	3	4	5	6	7	8	9	10	12	13	14
		m3/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	1 ~	15,5	12,5	11	9,5	8,3	7	5,6	4,1	2,5					
	3 ~	15,5	12,5	11	9,5	8,3	7	5,6	4,1	2,5					
50FWC-M-52-1,1	1 ~	17,5	15	13,5	12	10,5	9,4	8	6,5	5	3,4	1,7			
	3 ~	17,5	15	13,5	12	10,5	9,4	8	6,5	5	3,4	1,7			
50FWC-M-52-1,6	1 ~	19	17	15,5	14	13	12	11	10	9,4	8,6	7,7	5,8	4,2	2,5
	3 ~	19	17	15,5	14	13	12	11	10	9,4	8,6	7,7	5,8	4,2	2,5
	3 ~ HH	24	22	20,5	19	17,5	16,5	15,2	14	13					

HYDRAULIC PERFORMANCE AT 50 HZ



002003 02/2023

INSTALLATION

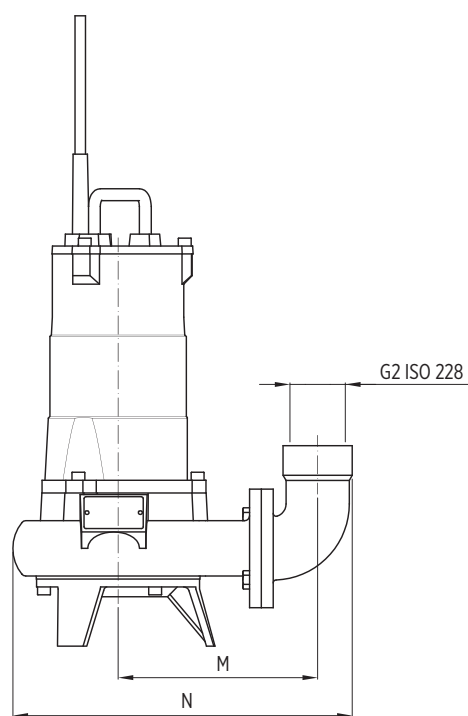
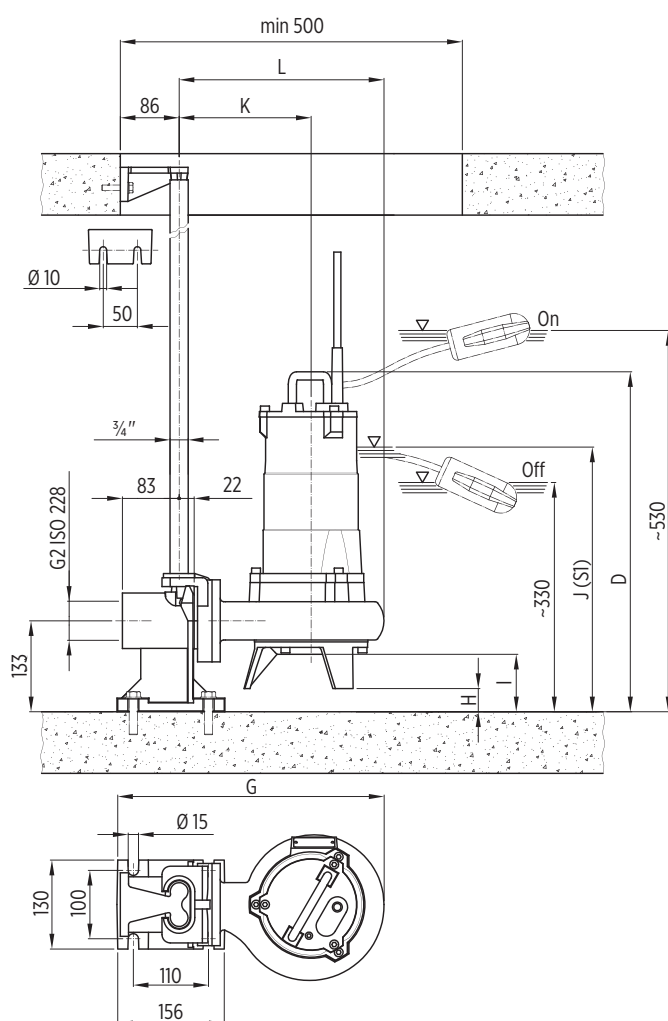
INSTALLATION INSTRUCTIONS

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.



00130290 02/2023

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 V4 SERIES 50 HZ

FEATURES & BENEFITS

APPLICATIONS



Pumping of clear non-loaded fluids



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



Wastewater

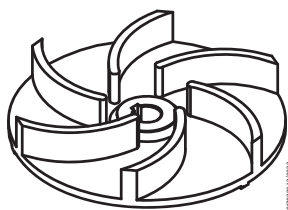


MARKETS



CAST IRON SUBMERSIBLE WASTEWATER LIFT PUMPS

Submersible electric pumps suitable for pumping screened waste water, draining the sewage of blocks of flats and houses and flooded premises in general.



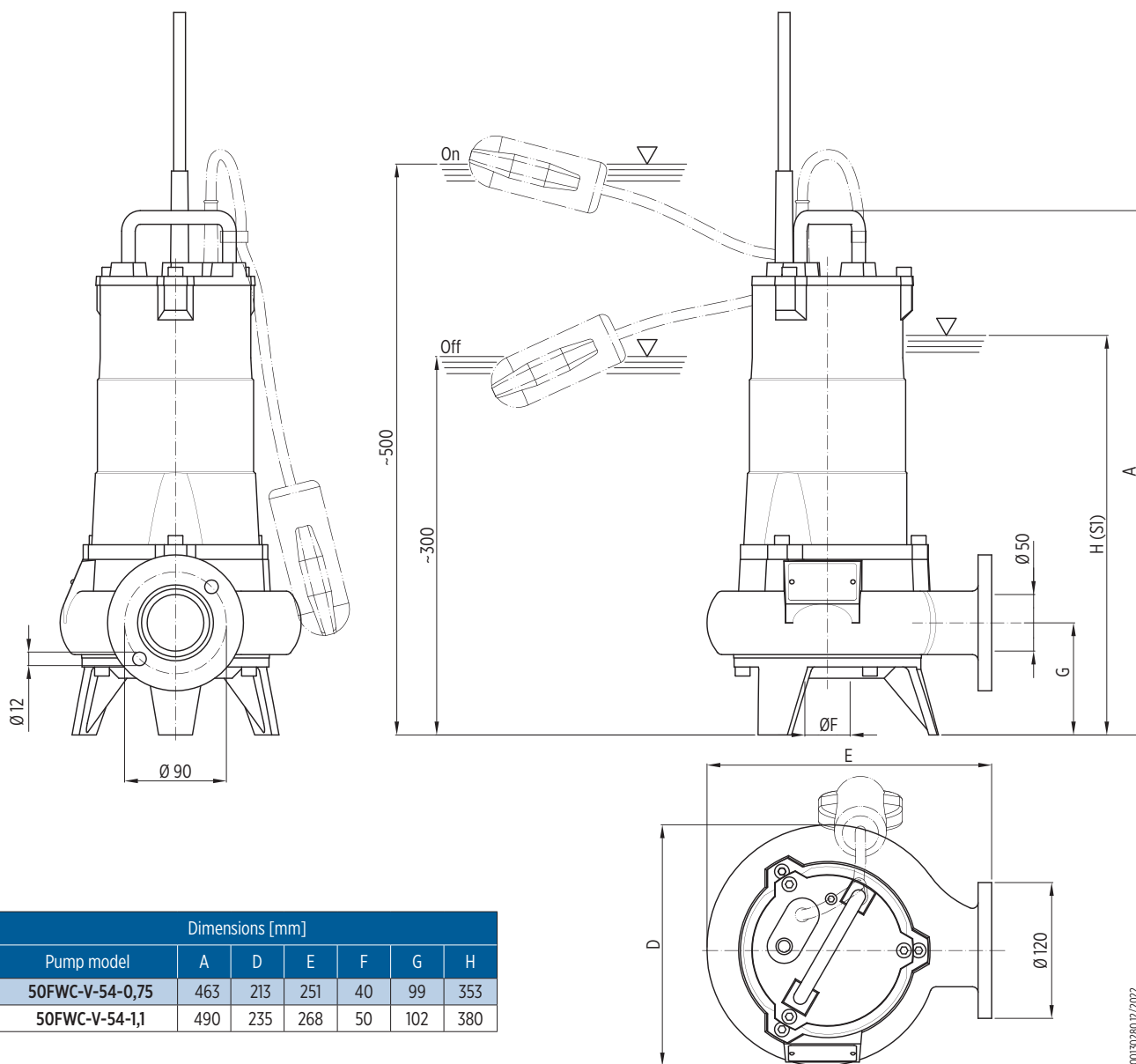
VORTEX IMPELLER

GENERAL FEATURES

		Materials/Constr.design
Vortex impeller		Cast iron EN GJL200
Pump body		Cast iron EN GJL200
External casing		Cast iron EN GJL200
Cover		Cast iron EN GJL200
Mechanical seal		Silicon carbide (SiC/SiC)
Motor shaft		Stainless steel AISI416
Power cable	Type	10 m H07RN-F type
	Single-phase	4G1,5mm ² , capacitor box and SCHUKO plug (CEE 7/VII)
	Three-phase	4G1,5mm ²
		Motor
Constr.design		asynchronous squirrel cage-type oil filled
Type		4 poles; 50 Hz
Insulation class		F
Protection degree		IP68
Voltage	Single-phase	230V ±6% built-in overheating protection (up to 1,1 kW), float switch as optional capacitor box and SCHUKO plug (CEE 7/VII)
	Three-phase	230V ±10%, 400V ±10%
		Limits of use
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		
50FWC-V-54-0,75M/T		353 mm
50FWC-V-54-1,1M/T		380 mm
Free passage	50FWC-V-54-0,75M/T	40 mm
	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

DIMENSIONAL DRAWINGS



00130280 12/2022

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

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

TECHNICAL DATA

Pump model	Motor absorbed power P_1	Rated power P_2		Voltage	Rated current	Phase	Power cable		Float switch	Running capacitor	Delivery 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

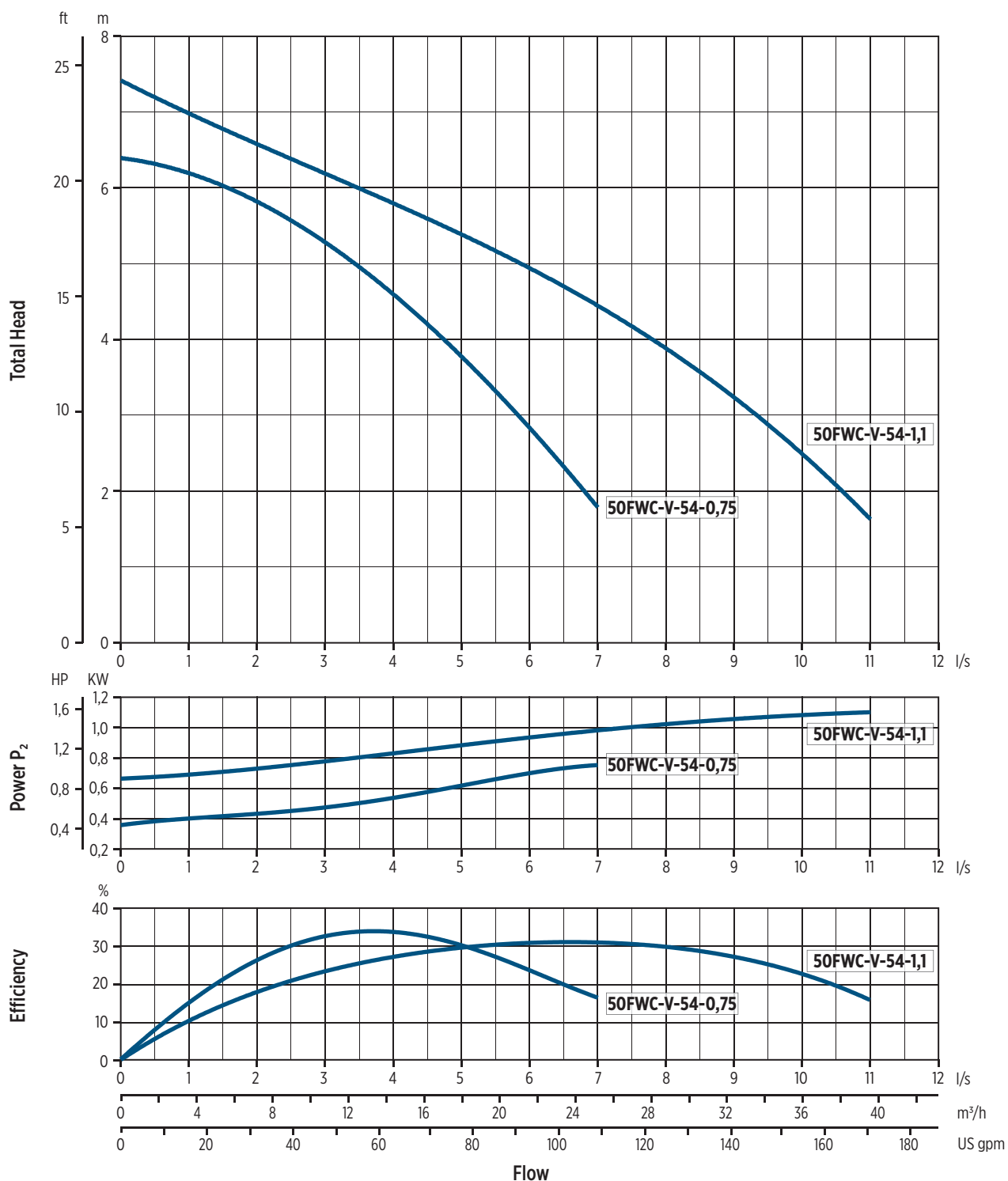
“-” = not available

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HYDRAULIC PERFORMANCE AT 50 HZ

Pump model	Phase	Q = Delivery											
		l/sec 0	1	2	3	4	5	6	7	8	9	10	11
		m3/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	1 ~	6,4	6,2	5,8	5,3	4,6	3,8	2,8	1,8				
	3 ~	6,4	6,2	5,8	5,3	4,6	3,8	2,8	1,8				
50FWC-V-54-1,1	1 ~	7,4	7	6,6	6,2	5,8	5,4	4,9	4,4	3,9	3,3	2,5	1,6
	3 ~	7,4	7	6,6	6,2	5,8	5,4	4,9	4,4	3,9	3,3	2,5	1,6

HYDRAULIC PERFORMANCE AT 50 HZ



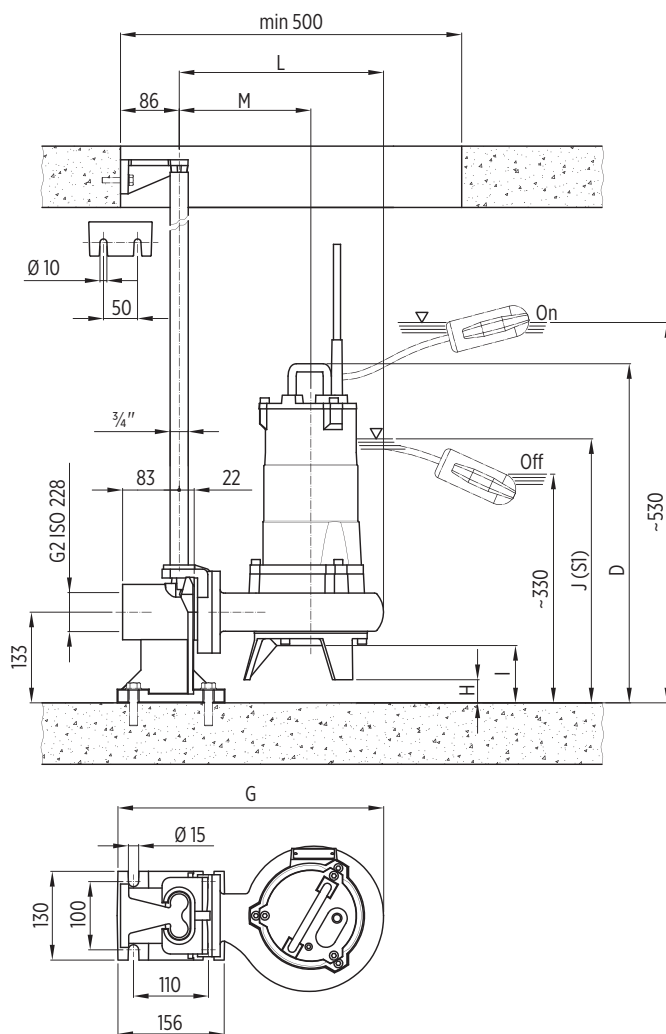
0020096 05/2023

INSTALLATION

INSTALLATION INSTRUCTIONS

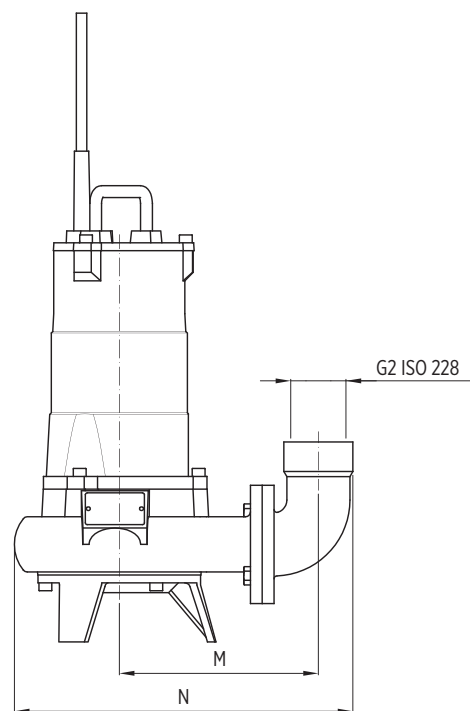
PERMANENT INSTALLATION WITH COUPLING SYSTEM

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.



001302860 12/2022

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

65FWC V SERIES 50 HZ

FEATURES & BENEFITS

APPLICATIONS



Domestic / industrial grey water



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



Wastewater



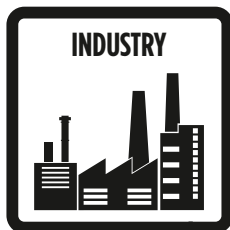
MARKETS



RESIDENTIAL



COMMERCIAL



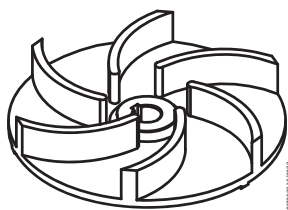
INDUSTRY



AGRICULTURE

CAST IRON SUBMERSIBLE WASTEWATER LIFT PUMPS

Submersible electric pumps particularly suitable for pumping industrial sewage, screened waste water and mud in the pumping stations. They can be used also to lift clear and dirty water and rain water.



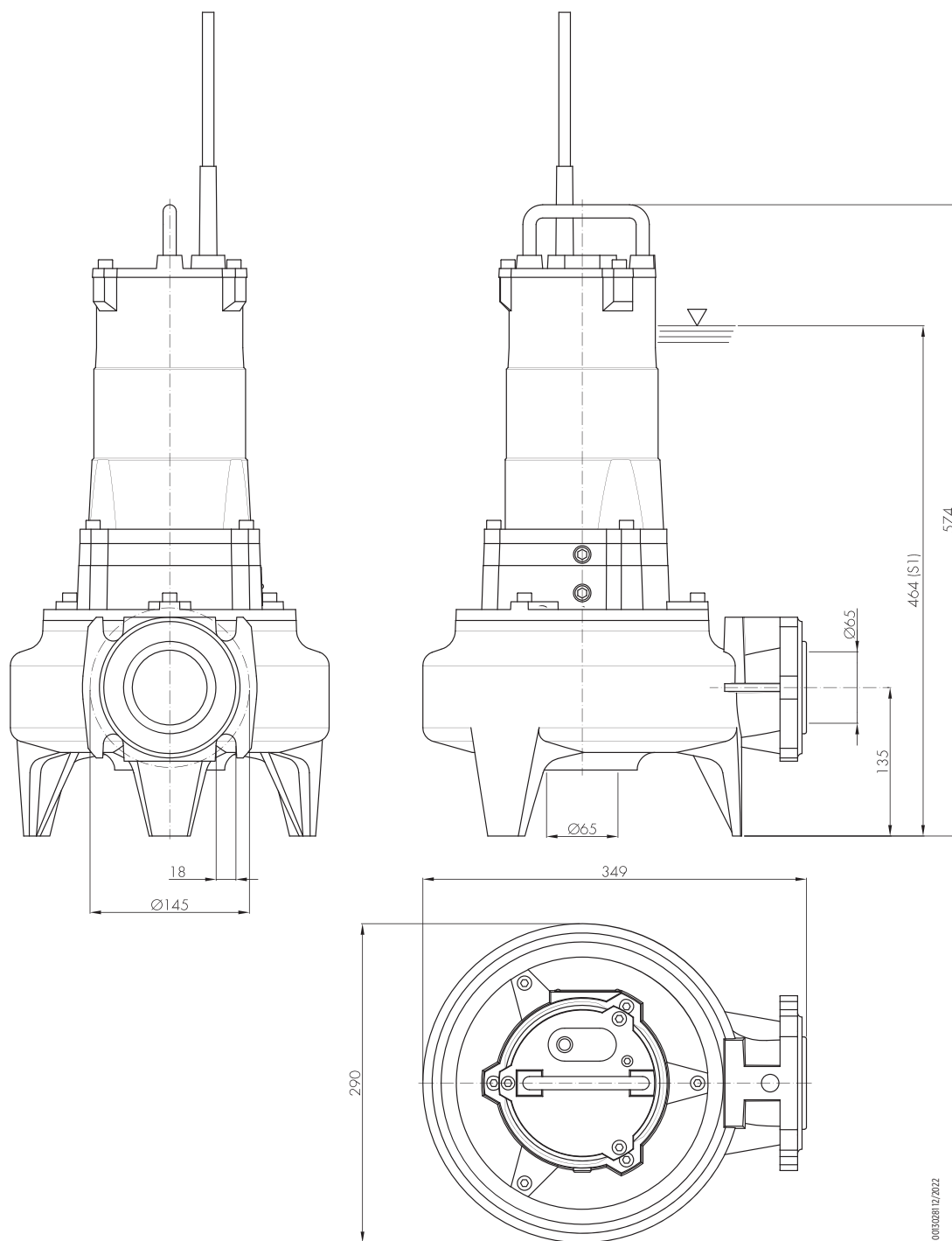
VORTEX IMPELLER

GENERAL FEATURES

		Materials/Constr.design
Vortex 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		10 m H07RN-F type, 4G1,5mm ²
Motor		
Constr.design		asynchronous squirrel cage-type oil filled
Type		2 poles; 50 Hz
Insulation class		F
Protection degree		IP68
Voltage	Three-phase	230V ±10%, 400V ±10%
Limits of use		
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		464 mm
Free passage		65 mm
Max. number of starting/hour		20
Construction options		

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

DIMENSIONAL DRAWINGS



0000281 12/2022

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

TECHNICAL DATA

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

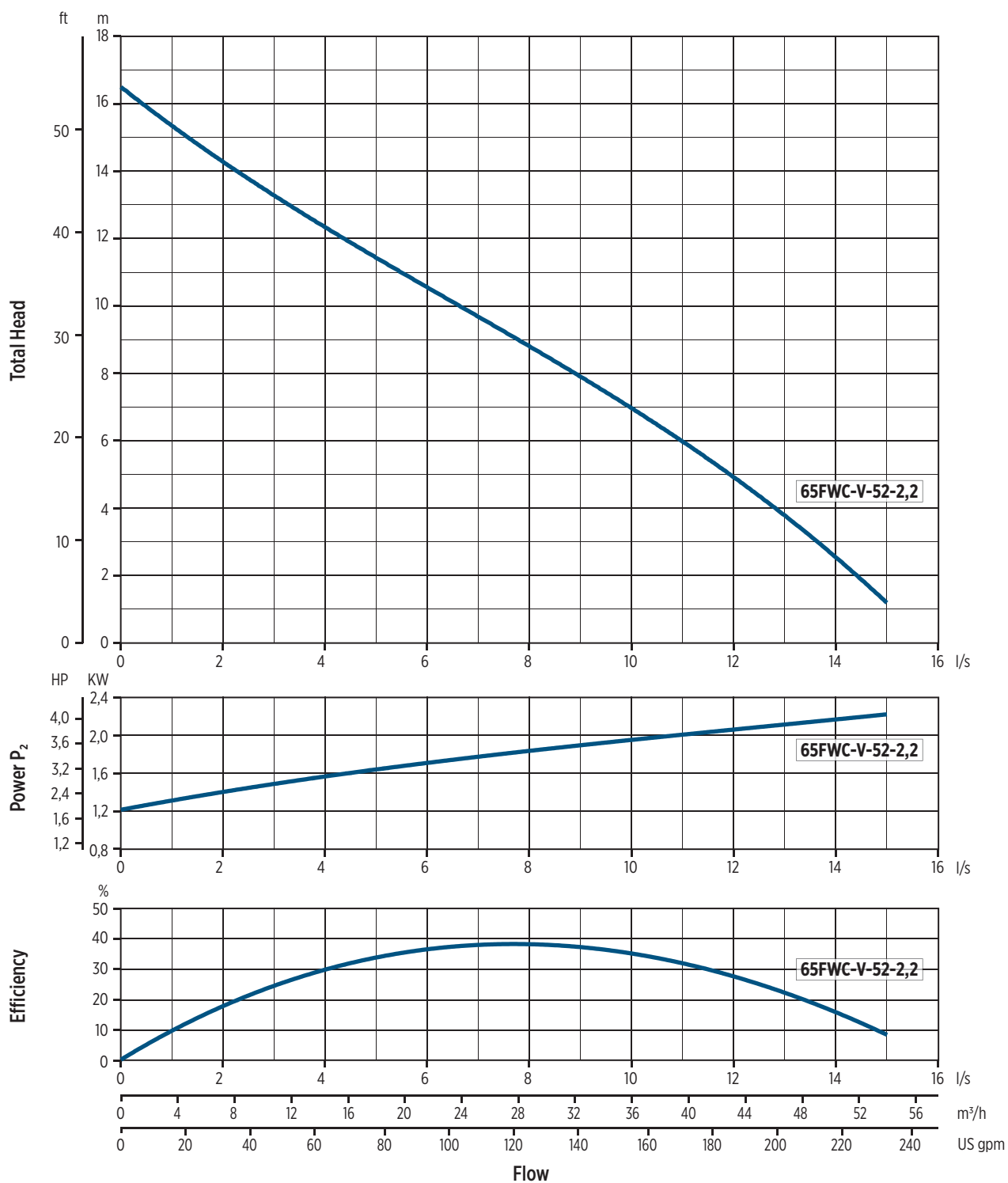
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HYDRAULIC PERFORMANCE AT 50 HZ

Pump model	Phase	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	3 ~	16,5	12,5	10,2	9	8	6,8	6	5,3	3,7	2	1,5

HYDRAULIC PERFORMANCE AT 50 HZ



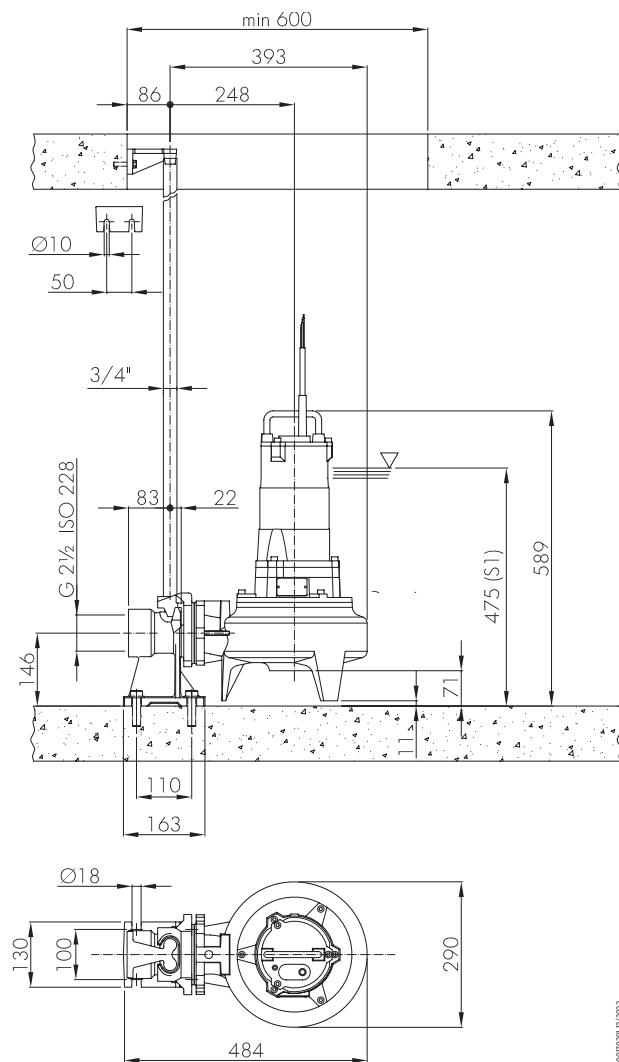
002009712/2022

INSTALLATION

INSTALLATION INSTRUCTIONS

PERMANENT INSTALLATION WITH COUPLING SYSTEM

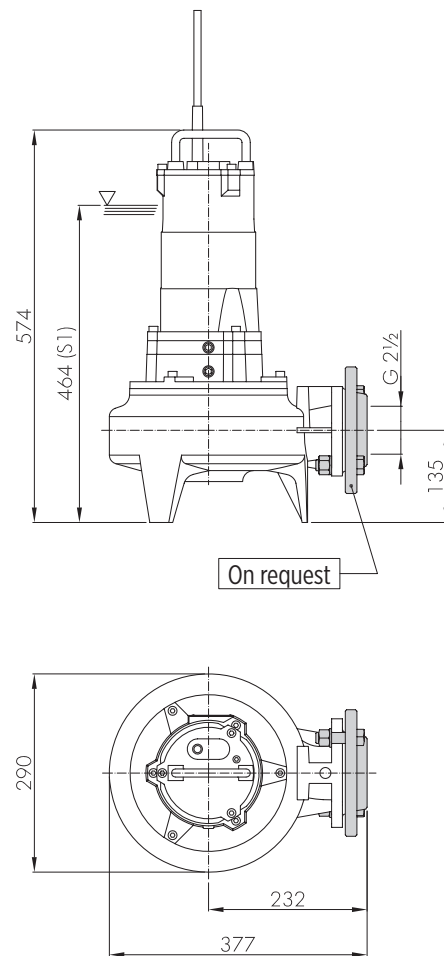
It is the recommended installation for the permanent pumping station. The electric pump is guided by two pipes and it is connected automatically to the coupling system. The quick connection ensures that the pump can be easily removed and re-installed.



0010238 12/2022

TRANSPORTABLE INSTALLATION

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



0010238 12/2022

65FWC M SERIES 50 HZ

FEATURES & BENEFITS

APPLICATIONS



Domestic / industrial grey water



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



Wastewater

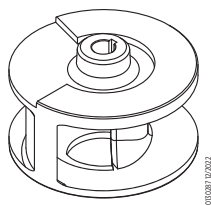


MARKETS



CAST IRON SUBMERSIBLE WASTEWATER LIFT PUMPS

Submersible electric pumps suitable for pumping screened waste water, draining the sewage of blocks of flats and houses and flooded premises in general.



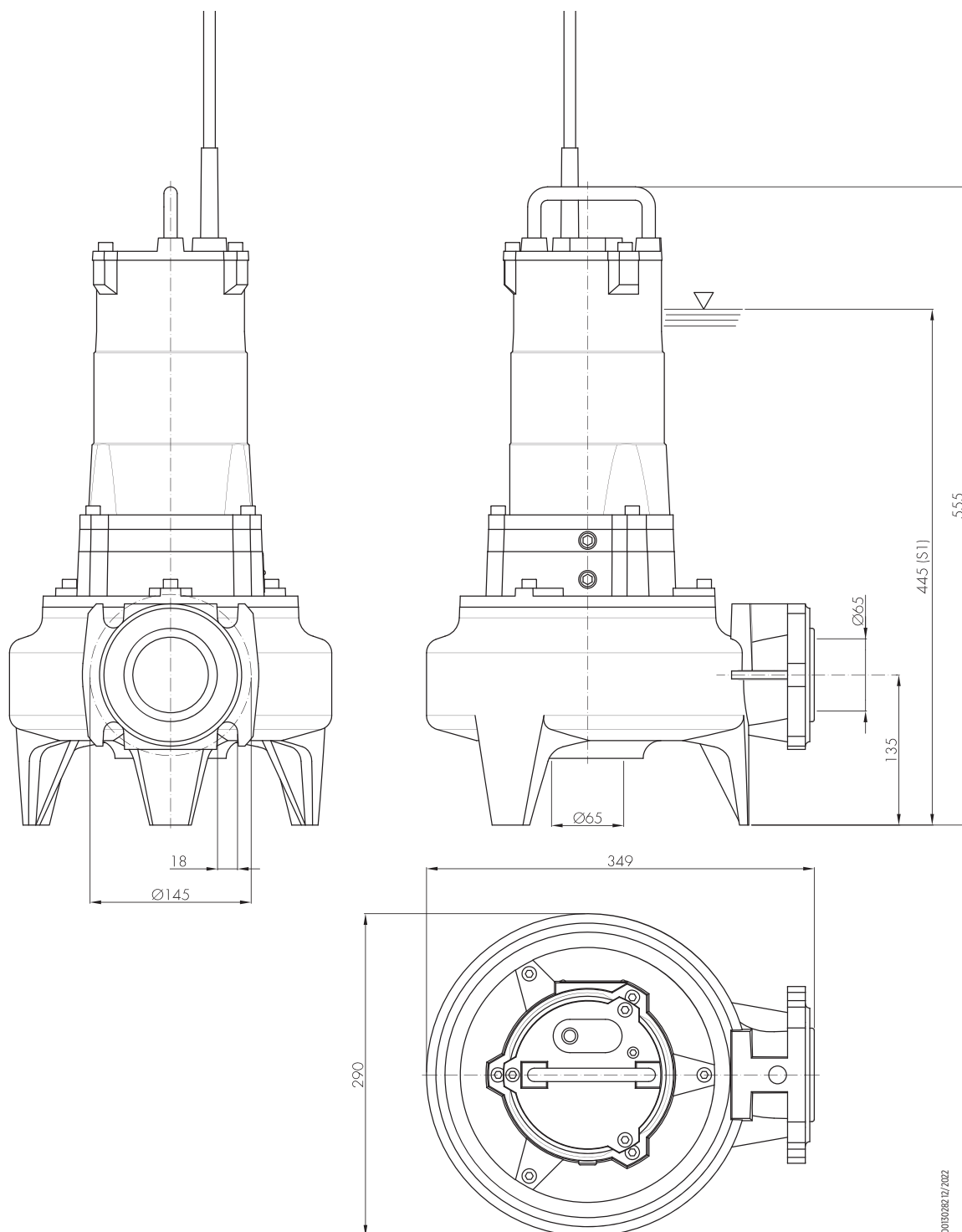
SINGLE-CHANNEL IMPELLER

GENERAL FEATURES

		Materials/Constr.design
Single-channel 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		10 m H07RN-F type, 4G1,5mm ²
Motor		
Constr.design		asynchronous squirrel cage-type oil filled
Type		2 poles; 50 Hz
Insulation class		F
Protection degree		IP68
Voltage	Three-phase	230V ±10%, 400V ±10%
Limits of use		
Maximum liquid temperature		6 - 10
pH of pumped liquid		1,0 kg/dm ³
Liquid density		5 m
Maximum immersion depth:		445 mm
Min. immersion depth for continuous service		50 mm
Free passage		20
Max. number of starting/hour		20
Construction options		

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

DIMENSIONAL DRAWINGS



00130282 12/2022

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

TECHNICAL DATA

Pump model	Motor absorbed power P ₁	Rated power P ₂		Voltage	Rated current	Phase	Power cable		Float switch	Running capacitor	Delivery 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

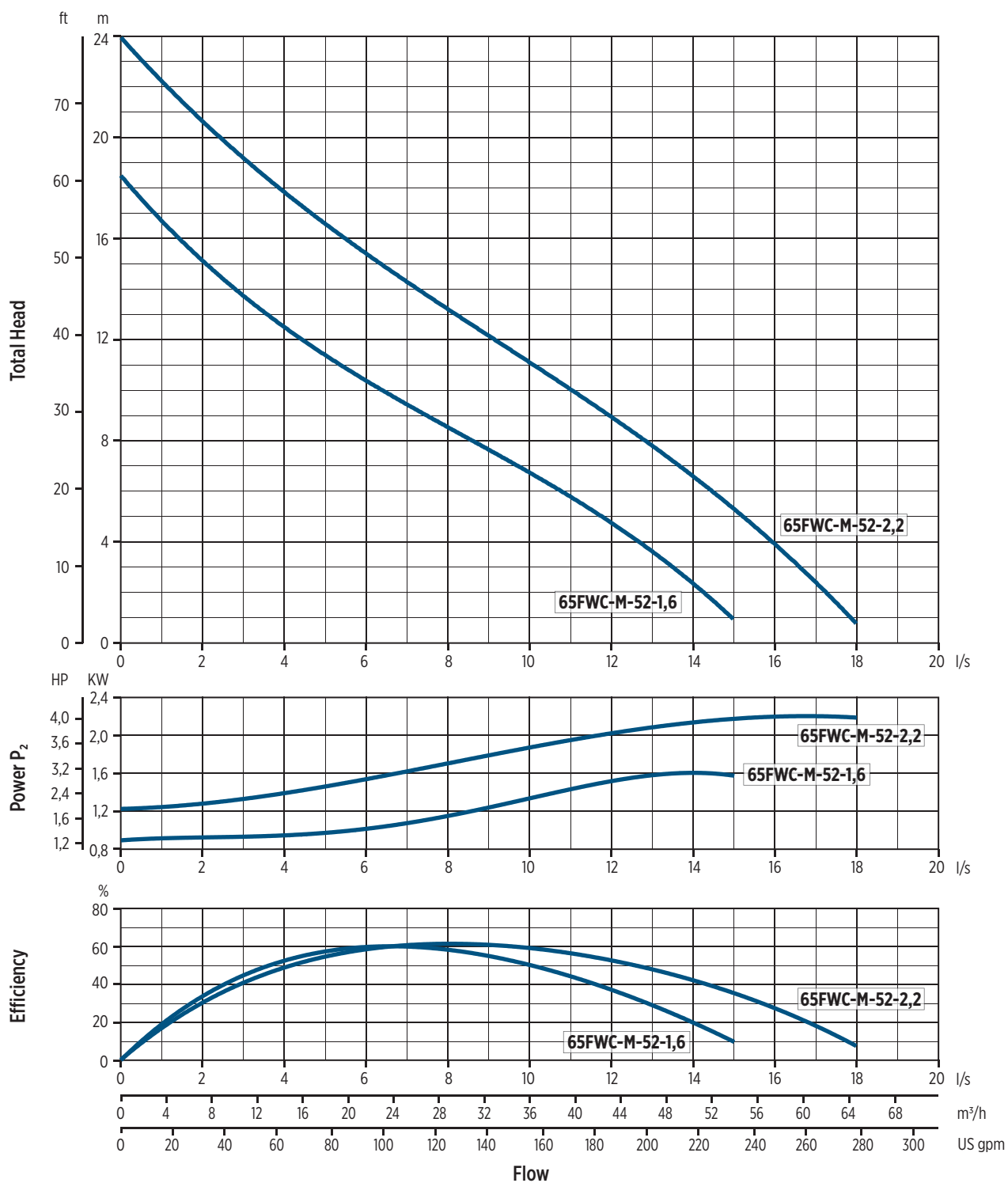
“-” = not available

• = available

HYDRAULIC PERFORMANCE AT 50 HZ

Pump model	Phase	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	3 ~	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	3 ~	24	17,8	15,3	13,2	12	11,3	10,2	9,1	7,9	6,6	5,1	3,6	1

HYDRAULIC PERFORMANCE AT 50 HZ



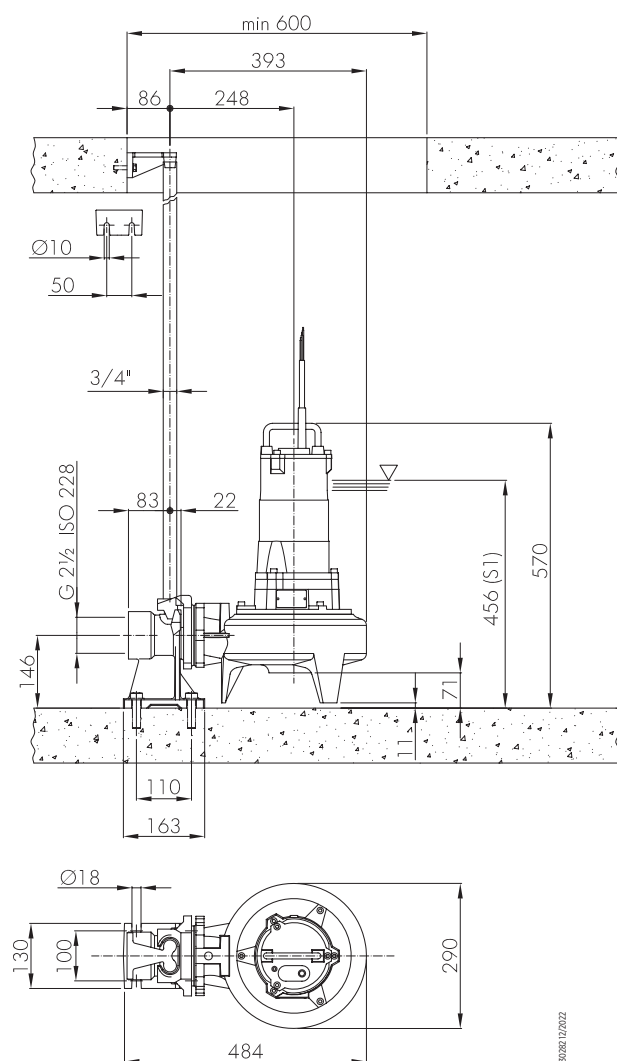
0020098 12/2022

INSTALLATION

INSTALLATION INSTRUCTIONS

PERMANENT INSTALLATION WITH COUPLING SYSTEM

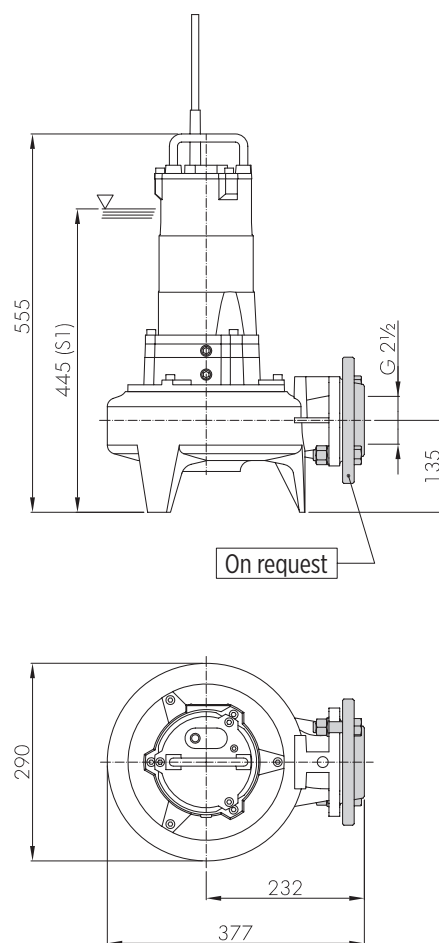
It is the recommended installation for the permanent pumping station. The electric pump is guided by two pipes and it is connected automatically to the coupling system. The quick connection ensures that the pump can be easily removed and re-installed.



00102062 12/2022

TRANSPORTABLE INSTALLATION

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



00102062 12/2022

65FWC V4 SERIES 50 HZ

FEATURES & BENEFITS

APPLICATIONS



Domestic / industrial grey water



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



Wastewater

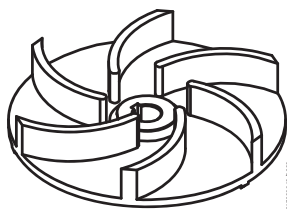


MARKETS



CAST IRON SUBMERSIBLE WASTEWATER LIFT PUMPS

Submersible electric pumps particularly suitable for pumping industrial sewage, screened waste water and mud in the pumping stations. They can be used also to lift clear and dirty water and rain water.



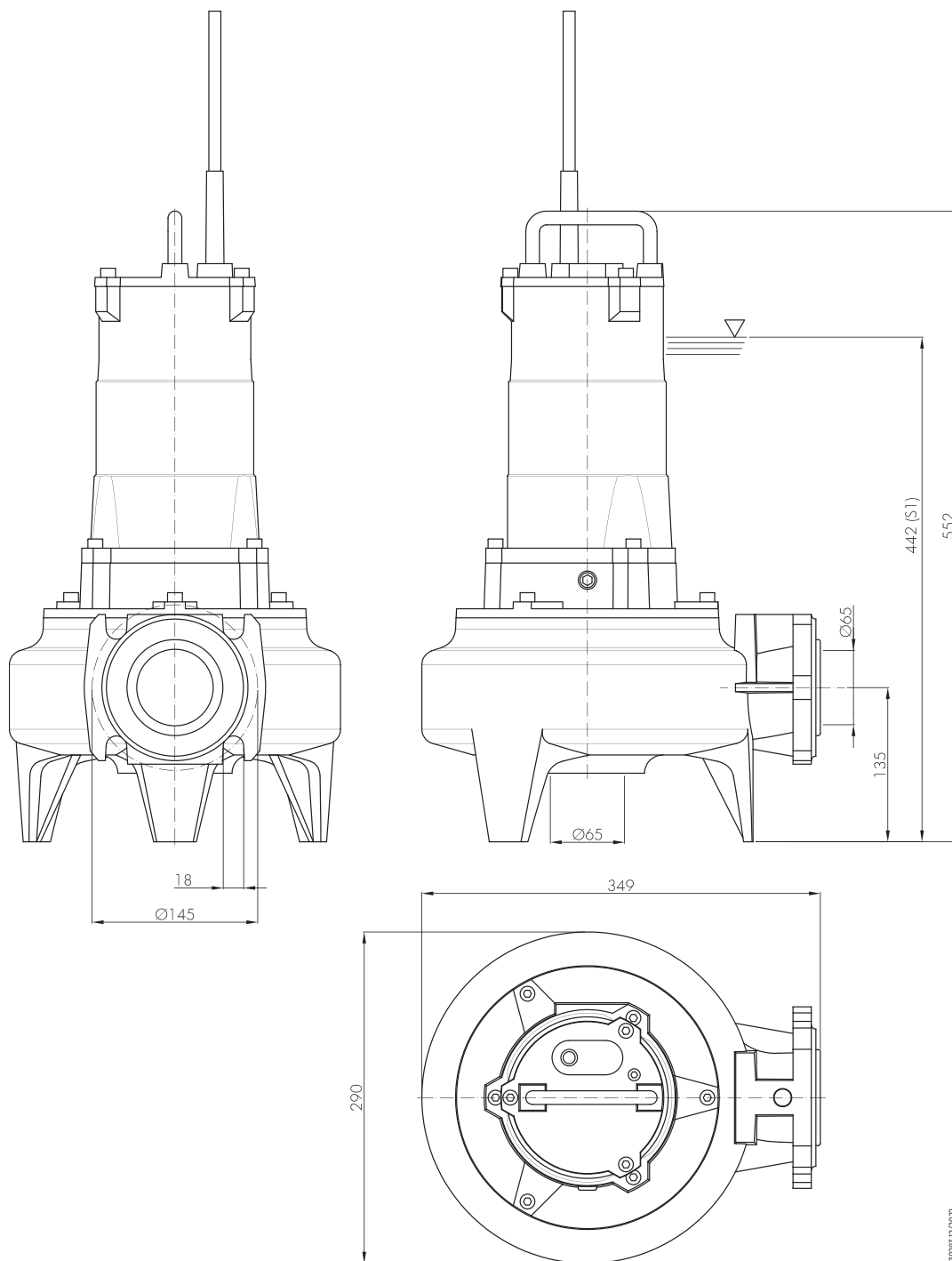
VORTEX IMPELLER

GENERAL FEATURES

		Materials/Constr.design
Vortex impeller		Cast iron EN GJL200
Pump body		Cast iron EN GJL200
External casing		Cast iron EN GJL200
Cover		Cast iron EN GJL200
Mechanical seal		Silicon carbide (SiC/SiC)
Motor shaft		Stainless steel AISI420
Power cable	Type	10 m H07RN-F type
	Single-phase	4G1,5mm ² , capacitor box and SCHUKO plug (CEE 7/VII)
	Three-phase	4G1,5mm ²
		Motor
Constr.design		asynchronous squirrel cage-type oil filled
Type		4 poles; 50 Hz
Insulation class		F
Protection degree		IP68
Voltage	Single-phase	230V ±6% built-in overheating protection capacitor box and SCHUKO plug (CEE 7/VII)
	Three-phase	230V ±10%, 400V ±10%
		Limits of use
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		442 mm
Free passage		60 mm
Max. number of starting/hour		20
		Construction options

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

DIMENSIONAL DRAWINGS



00130283 12/2022

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

TECHNICAL DATA

Pump model	Motor absorbed power P_1	Rated power P_2		Voltage	Rated current	Phase	Power cable		Float switch	Running capacitor	Delivery 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

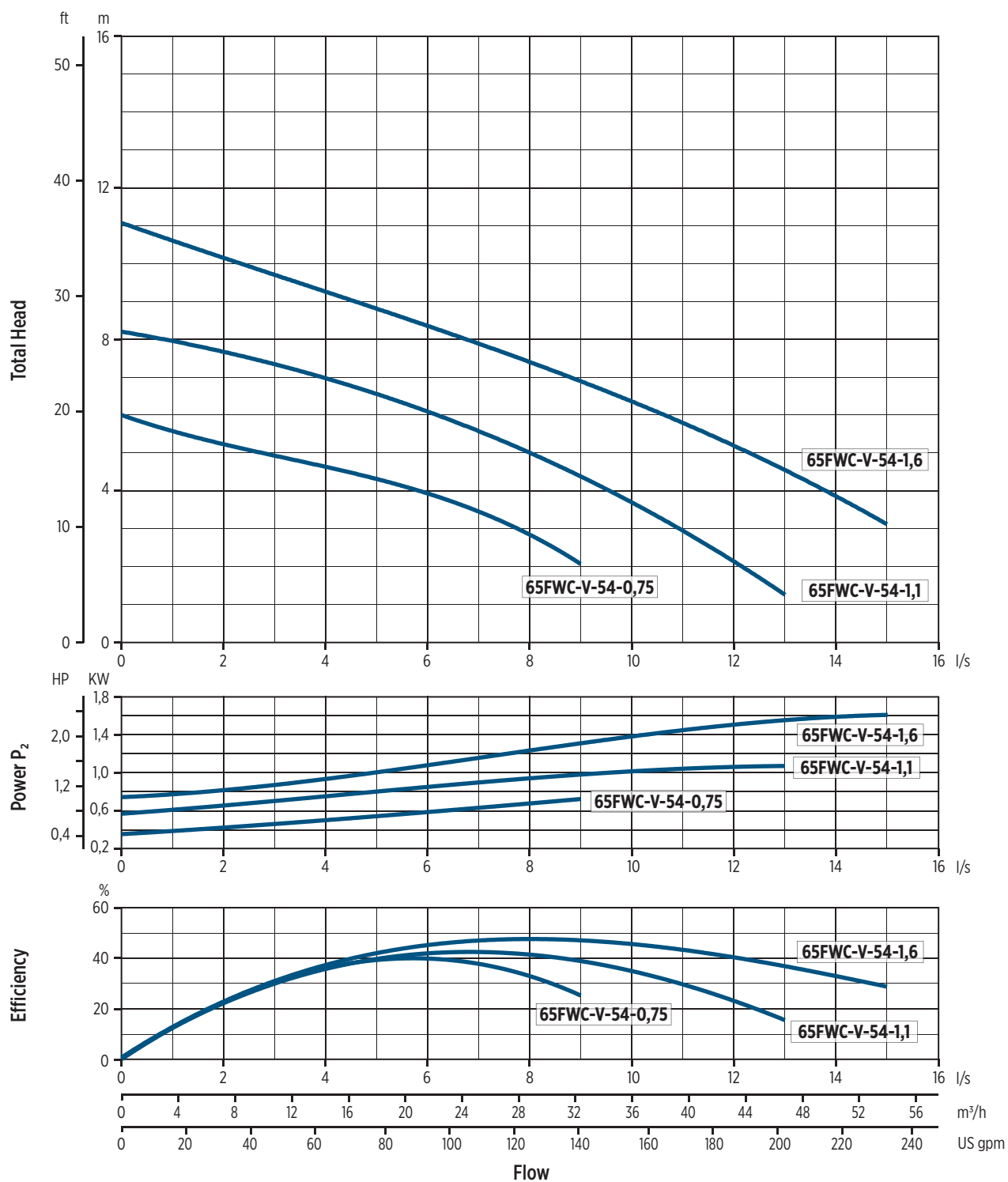
“-” = not available

• = available

HYDRAULIC PERFORMANCE AT 50 HZ

Pump model	Phase	Q = Delivery										
		l/sec 0	4	6	8	9	10	11	12	13	14	15
		m³/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	1 ~	6	4.7	3.8	3	2						
	3 ~	6	4.7	3.8	3	2						
65FWC-V-54-1,1	1 ~	8.2	7	6.1	5	4.3	3.7	3	2.2	1.2		
	3 ~	8.2	7	6.1	5	4.3	3.7	3	2.2	1.2		
65FWC-V-54-1.6	3 ~	11	9.5	8.5	7.2	6.6	6.1	5.9	5.4	4.9	4	2.8

HYDRAULIC PERFORMANCE AT 50 HZ



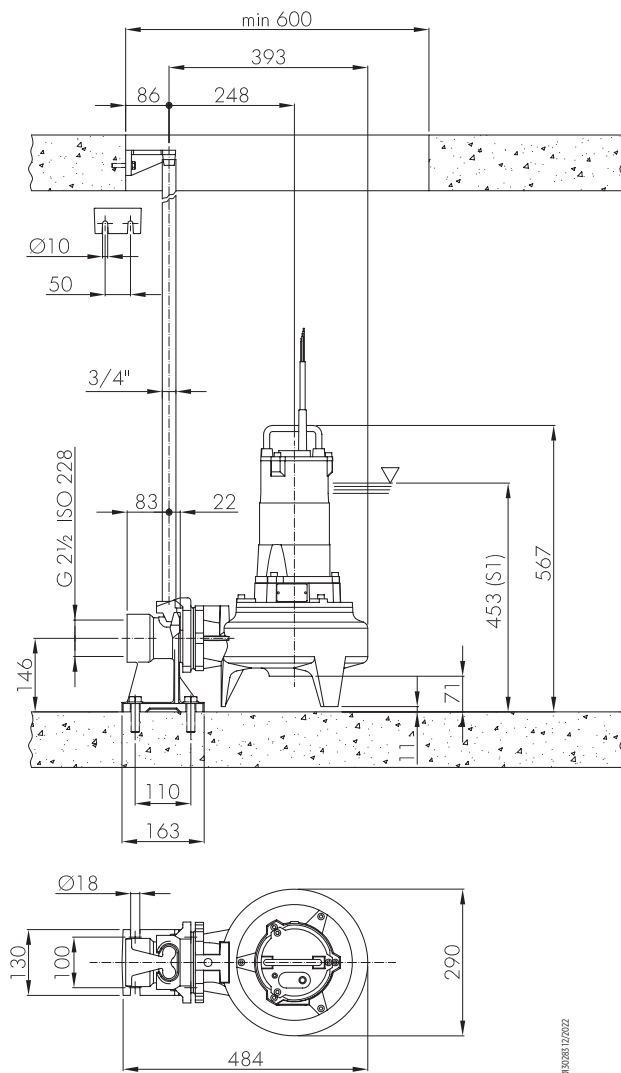
0020099.12/2022

INSTALLATION

INSTALLATION INSTRUCTIONS

PERMANENT INSTALLATION WITH COUPLING SYSTEM

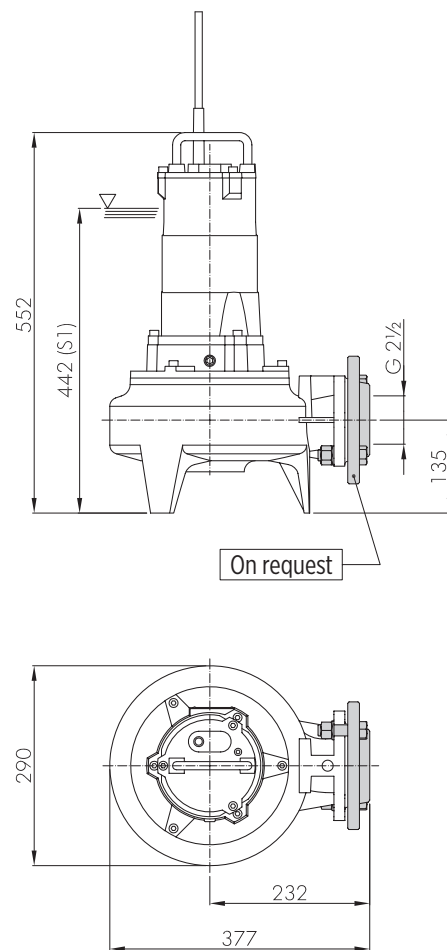
It is the recommended installation for the permanent pumping station. The electric pump is guided by two pipes and it is connected automatically to the coupling system. The quick connection ensures that the pump can be easily removed and re-installed.



00130285 12/2022

TRANSPORTABLE INSTALLATION

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



00130285 12/2022

80FWC M4 SERIES 50 HZ

FEATURES & BENEFITS

APPLICATIONS

Domestic / industrial grey
water

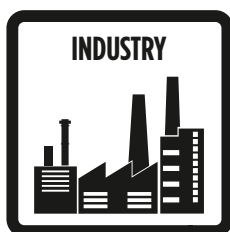
Extraction of water from ponds, streams or pits and for rainwater collection



Wastewater

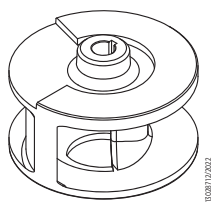


MARKETS



CAST IRON SUBMERSIBLE WASTEWATER LIFT PUMPS

Submersible electric pumps particularly suitable for pumping industrial sewage, screened waste water and mud in the pumping stations. They can be used also to lift clear and dirty water and rain water.



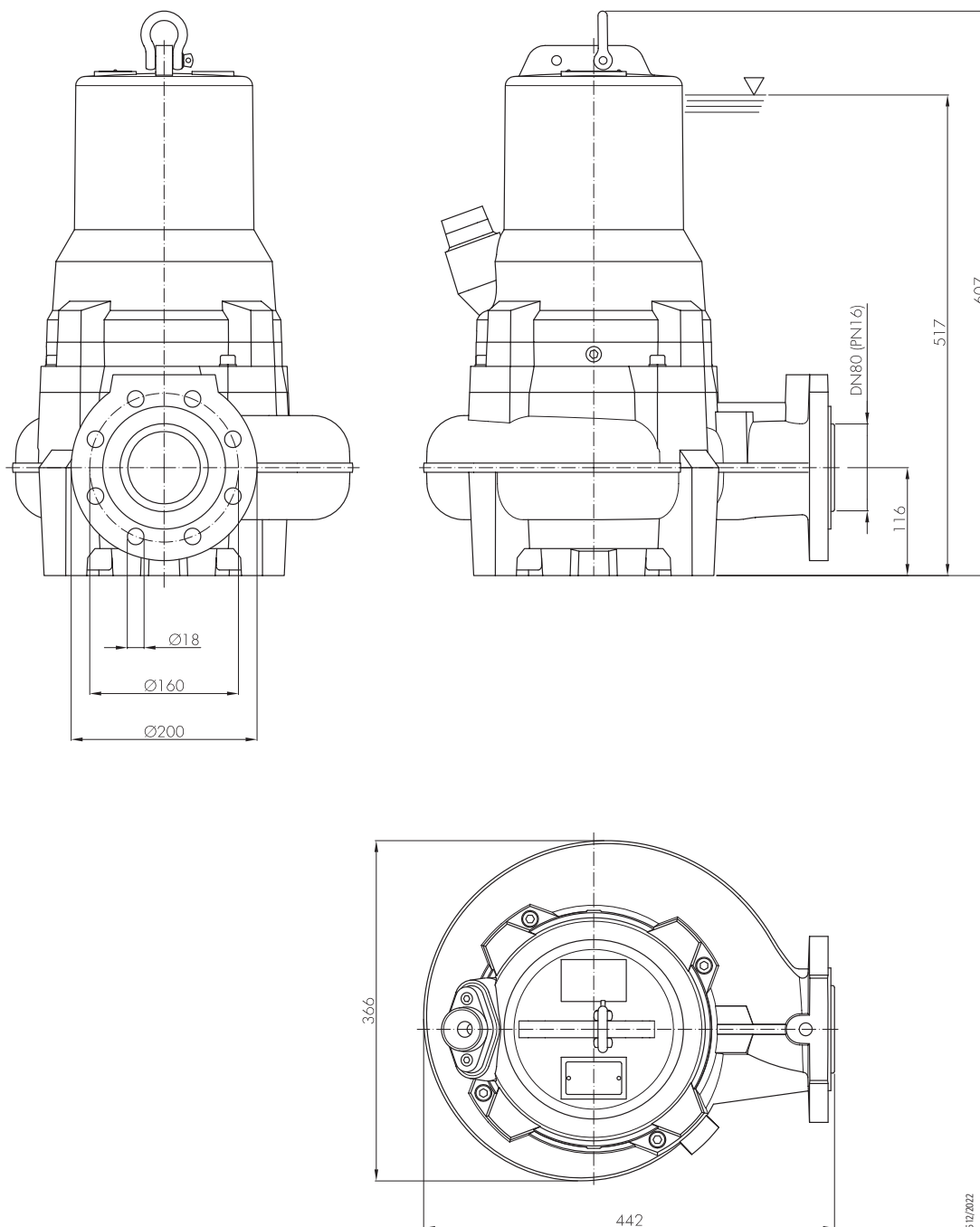
SINGLE-CHANNEL IMPELLER

GENERAL FEATURES

		Materials/Constr.design
Single-channel impeller		Cast iron EN GJS400
External casing		Cast iron EN GJL250
Pump body		Cast iron EN GJL250
Cover		Cast iron EN GJL250
Mechanical seal	Mechanical seal	Graphite/Alumina
	pump side	Silicon carbide (SiC/SiC)
Motor shaft		Stainless steel AISI420
Power cable	Type	10 m S1RN8-F type
	80FWC-M-54-2,2T, 80FWC-M-54-3,1T	4G1,5+3x1mm ²
	80FWC-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 in the winding
		Conductivity in the oil chamber
Limits of use		
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

DIMENSIONAL DRAWINGS



00130285 12/2022

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

TECHNICAL DATA

Pump model	Motor absorbed power P_1	Rated power P_2		Voltage	Rated current	Phase	Power cable		Float switch	Delivery 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

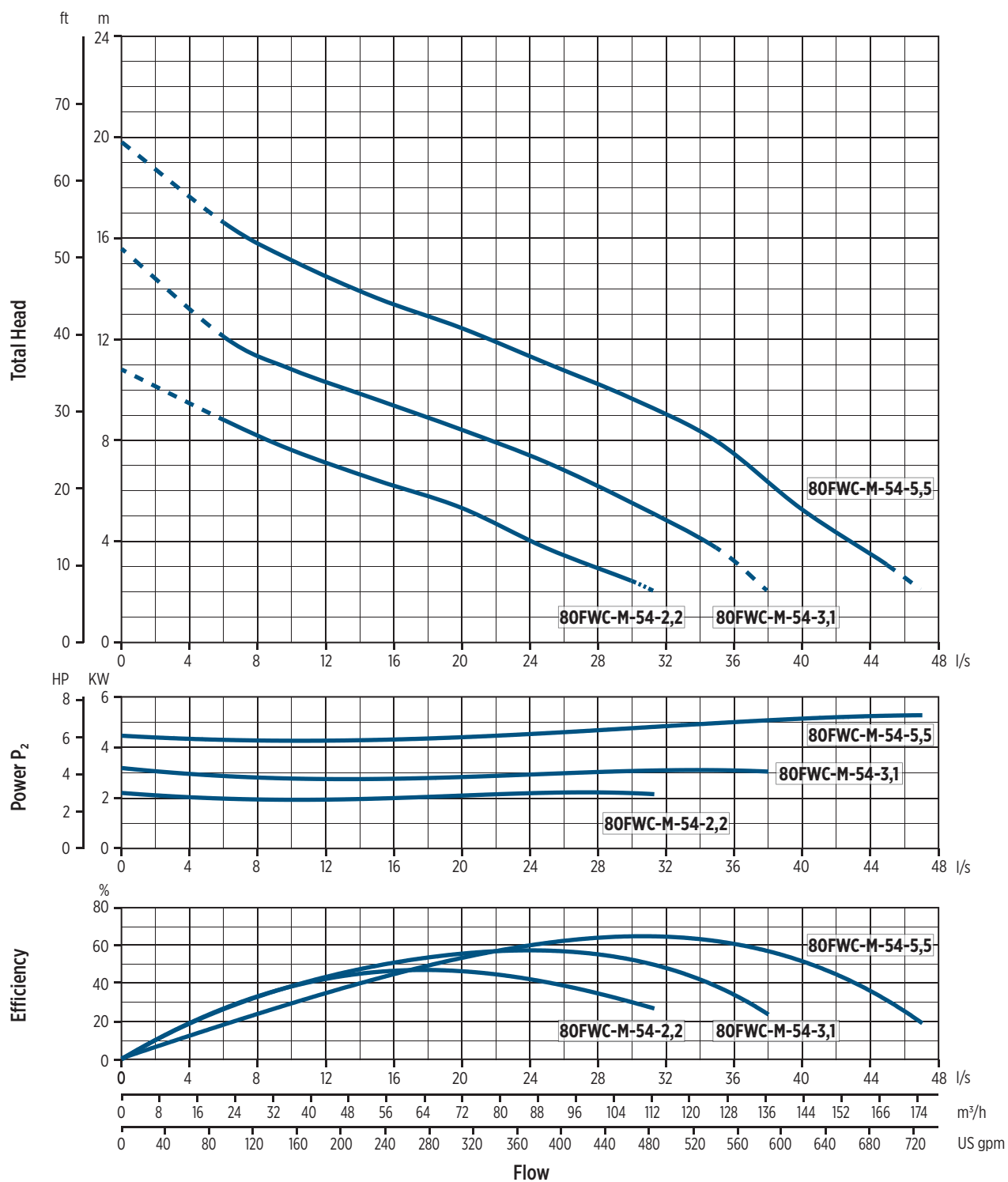
"-" = not available

• = available

HYDRAULIC PERFORMANCE AT 50 HZ

Pump model	Phase	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	3 ~	10,8	8,8	7,6	6,4	5,3	3,7	2,4	2					
80FWC-M-54-3,1T	3 ~	15,6	12,1	10,8	9,6	8,4	7,1	5,5	5,2	3,7	2			
80FWC-M-54-5,5T	3 ~	19,8	16,6	15,1	13,6	12,4	11	9,6	9,2	7,9	6,6	5,2	3	2

HYDRAULIC PERFORMANCE AT 50 HZ



002020/01/12/2022

INSTALLATION

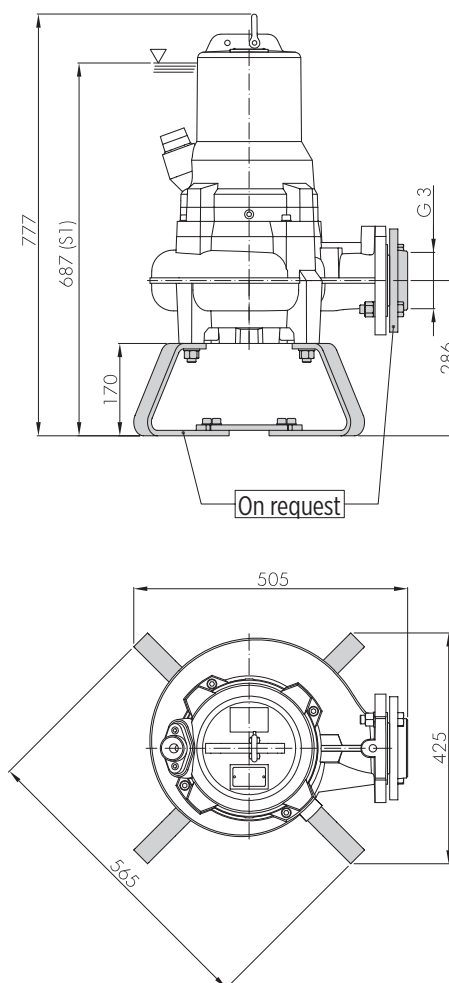
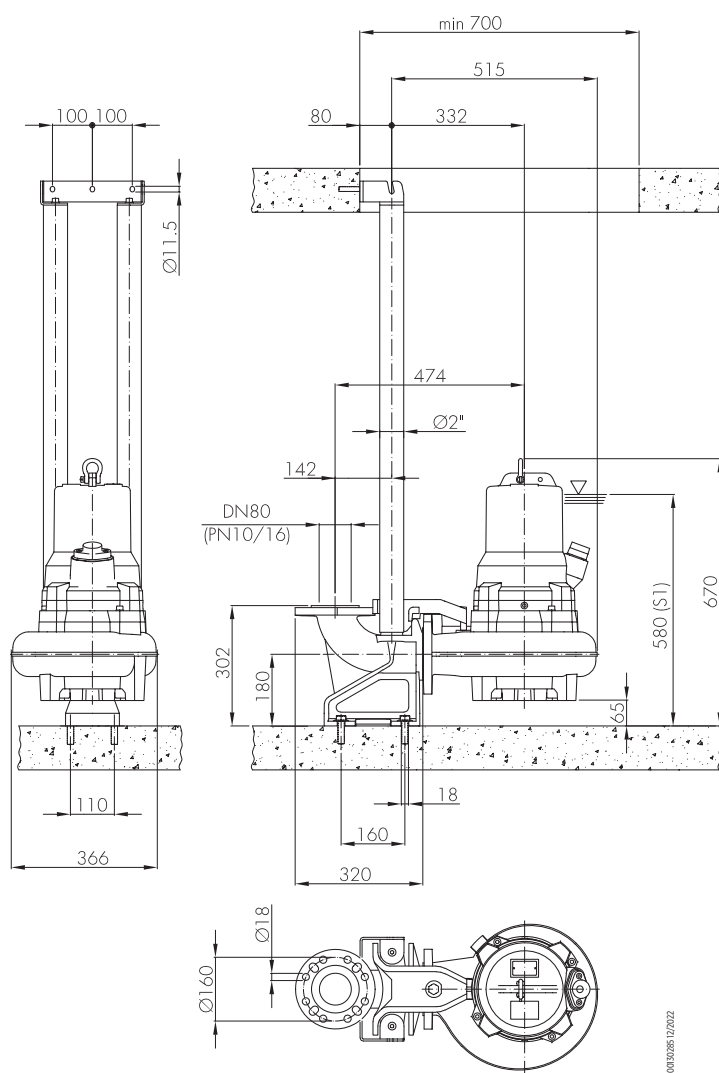
INSTALLATION INSTRUCTIONS

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 V4 SERIES 50 HZ

FEATURES & BENEFITS

APPLICATIONS



Domestic / industrial grey water



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



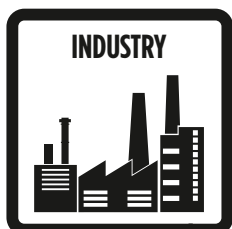
Wastewater



For liquids with an high solid content or with filamentous particles

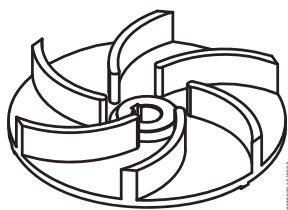


MARKETS



CAST IRON SUBMERSIBLE WASTEWATER LIFT PUMPS

Submersible electric pumps particularly suitable for pumping industrial sewage, screened waste water and mud in the pumping stations. They can be used also to lift clear and dirty water and rain water.



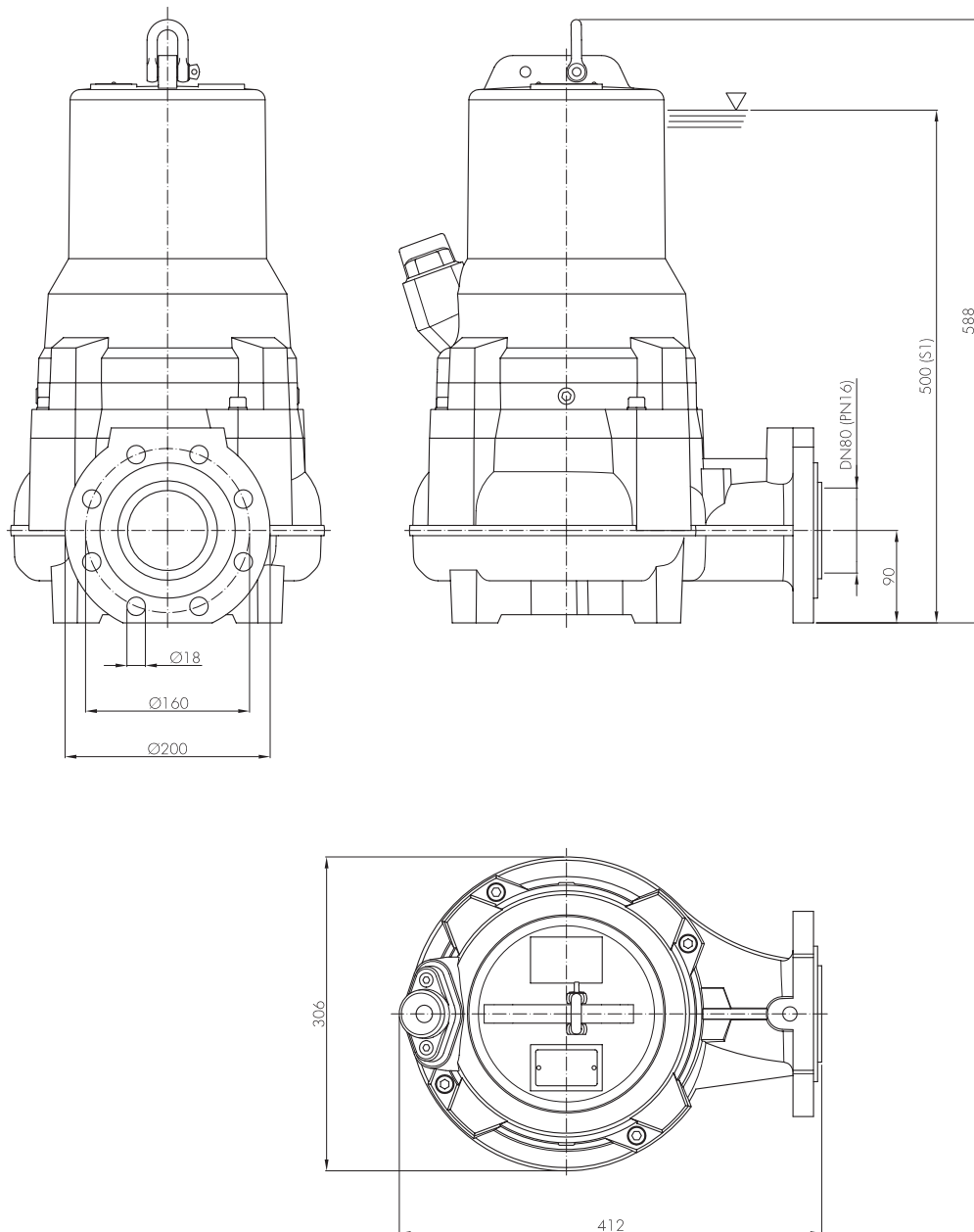
VORTEX IMPELLER

GENERAL FEATURES

Materials/Constr.design		
Vortex impeller		Cast iron EN GJL250
External casing		Cast iron EN GJL250
Pump body		Cast iron EN GJL250
Cover		Cast iron EN GJL250
	Mechanical seal	Graphite/Alumina
	pump side	Silicon carbide (SiC/SiC)
Motor shaft		Stainless steel AISI420
Power cable	Type	10 m SIRN8-F type
	80FWC-V-54-1,6T, 80FWC-V-54-2,2T, 80FWC-V-54-3,1T	4G1,5+3x1mm ²
	80FWC-V-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 in the winding
		Conductivity in the oil chamber
Limits of use		
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		500 mm
Free passage		80 mm
Max. number of starting/hour		20
Construction options		

- 60 Hz version
- Different voltages

DIMENSIONAL DRAWINGS



0030284 12/2022

Packaging		
Pump model	Dimensions [mm]	Weight [kg]
80FWC-M-54-2,2T	475x370x985	99
80FWC-M-54-3,1T	475x370x985	102
80FWC-M-54-5,5T	475x370x985	114
80FWC-V-54-1,6T	420x325x675	85
80FWC-V-54-2,2T	420x325x675	87
80FWC-V-54-3,1T	420x325x675	91
80FWC-V-54-5,5T	420x325x675	102

TECHNICAL DATA

Pump model	Motor absorbed power P ₁	Rated power P ₂		Voltage	Rated current	Phase	Power cable		Float switch	Delivery 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

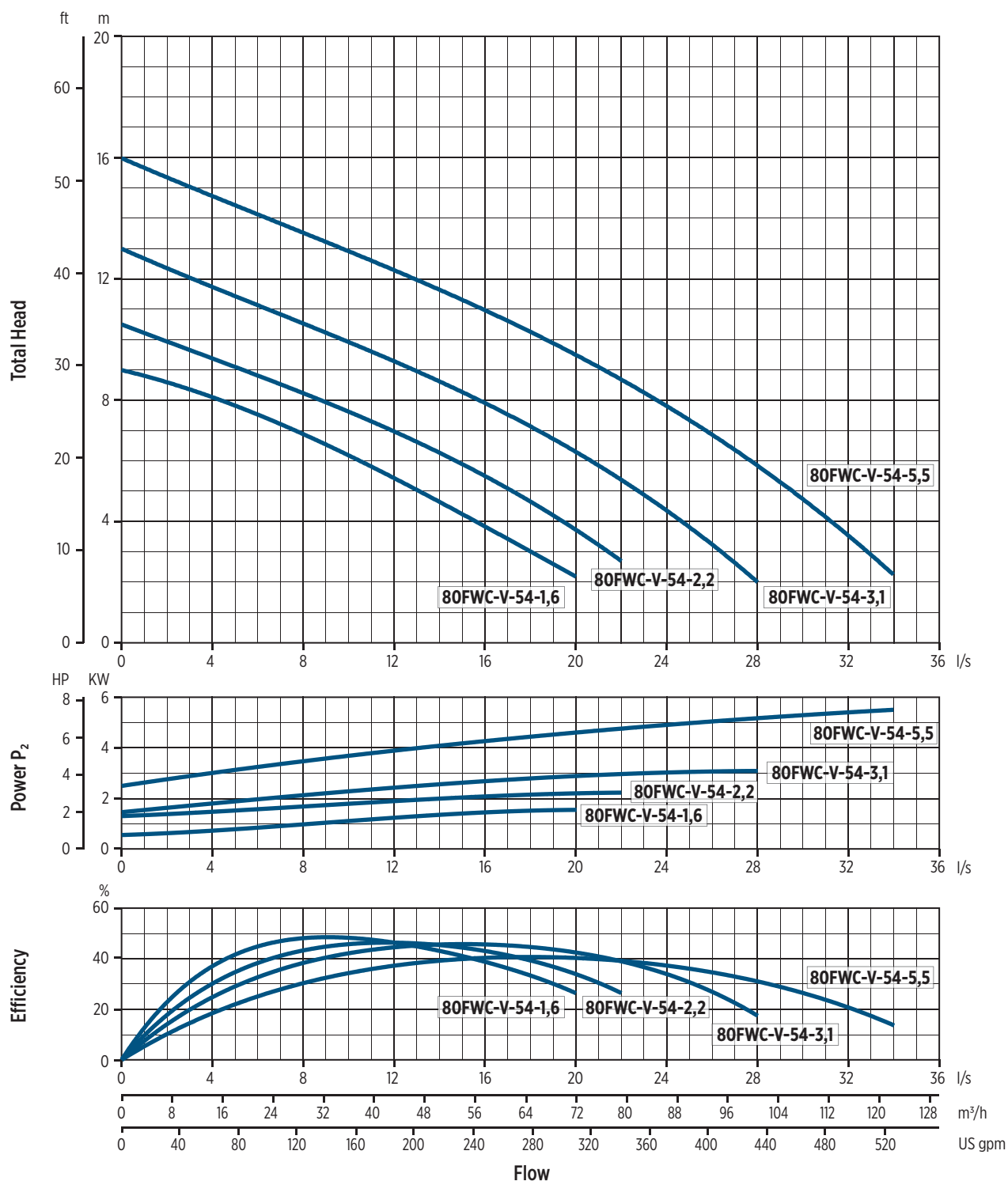
"-" = not available

• = available

HYDRAULIC PERFORMANCE AT 50 HZ

Pump model	Phase	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	3 ~	9	7,5	6,9	6,2	5,4	4,7	3,8	3	2,2							
80FWC-V-54-2,2T	3 ~	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	3 ~	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	3 ~	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

HYDRAULIC PERFORMANCE AT 50 HZ



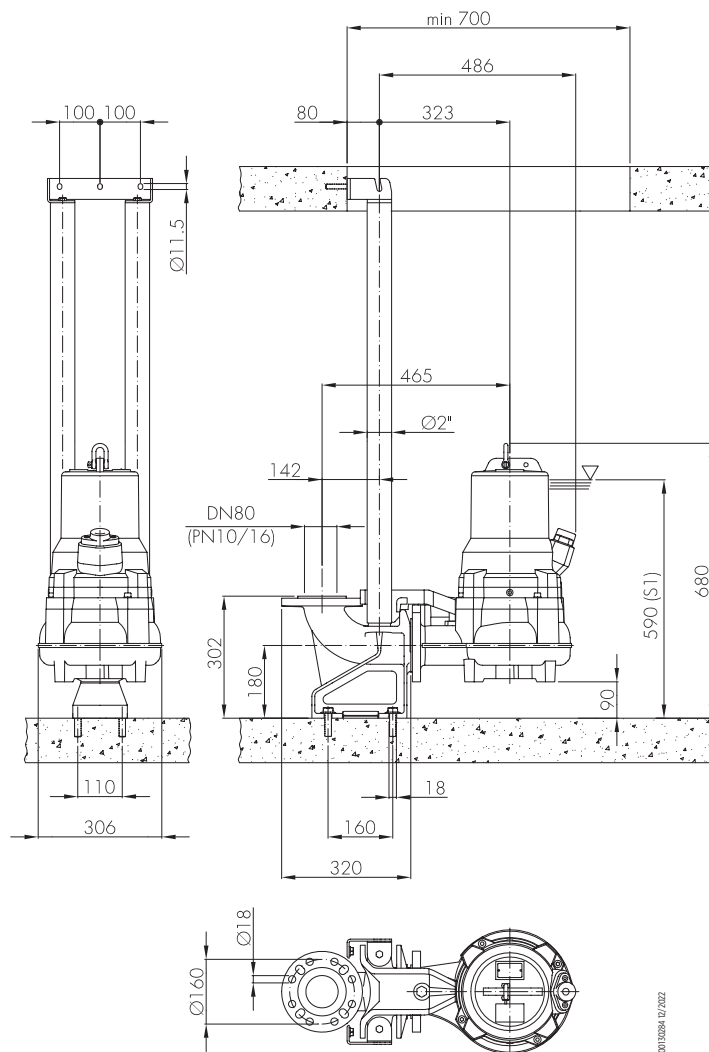
00200012/2022

INSTALLATION

INSTALLATION INSTRUCTIONS

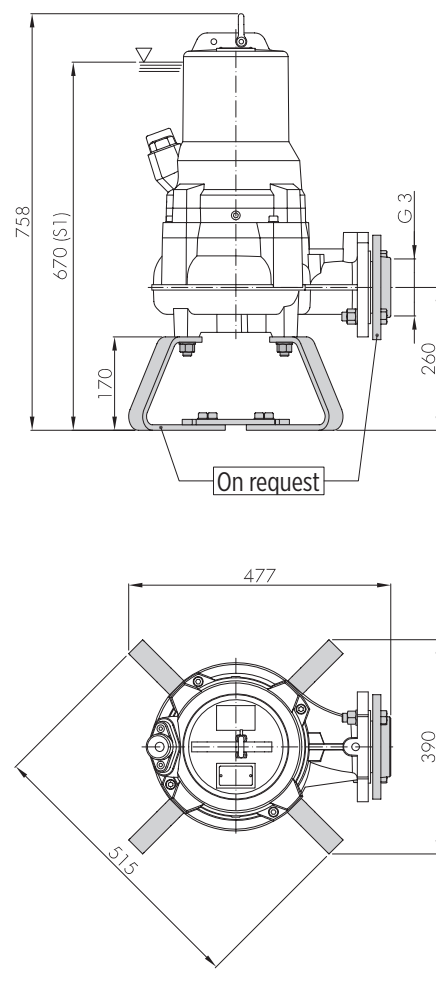
PERMANENT INSTALLATION WITH COUPLING SYSTEM

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 M4 SERIES 50 HZ

FEATURES & BENEFITS

APPLICATIONS



Domestic / industrial grey water



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



Wastewater

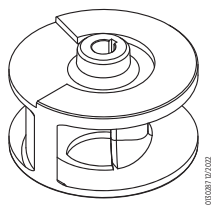


MARKETS



CAST IRON SUBMERSIBLE WASTEWATER LIFT PUMPS

Submersible electric pumps particularly suitable for pumping industrial sewage, screened waste water and mud in the pumping stations. They can be used also to lift clear and dirty water and rain water.



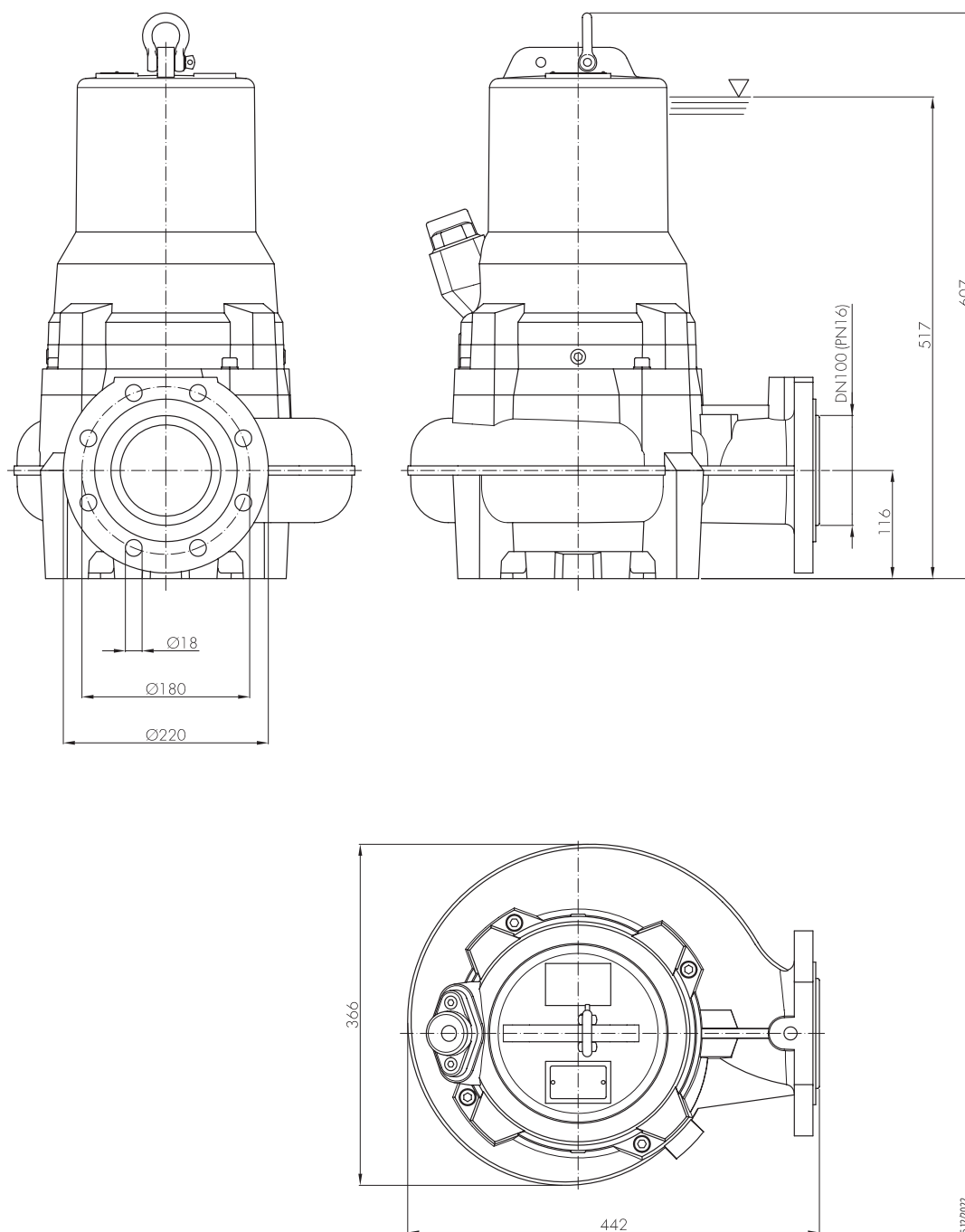
SINGLE-CHANNEL IMPELLER

GENERAL FEATURES

Materials/Constr.design		
Vortex impeller		Cast iron EN GJS400
External casing		Cast iron EN GJL250
Pump body		Cast iron EN GJL250
Cover		Cast iron EN GJL250
	Mechanical seal	Graphite/Alumina
	pump side	Silicon carbide (SiC/SiC)
Motor shaft		Stainless steel AISI420
Power cable	Type	10 m S1RN8-F type
	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 in the winding
		Conductivity in the oil chamber
Limits of use		
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

DIMENSIONAL DRAWINGS



00130286 12/2022

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

TECHNICAL DATA

Pump model	Motor absorbed power P ₁	Rated power P ₂		Voltage	Rated current	Phase	Power cable		Float switch	Delivery 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

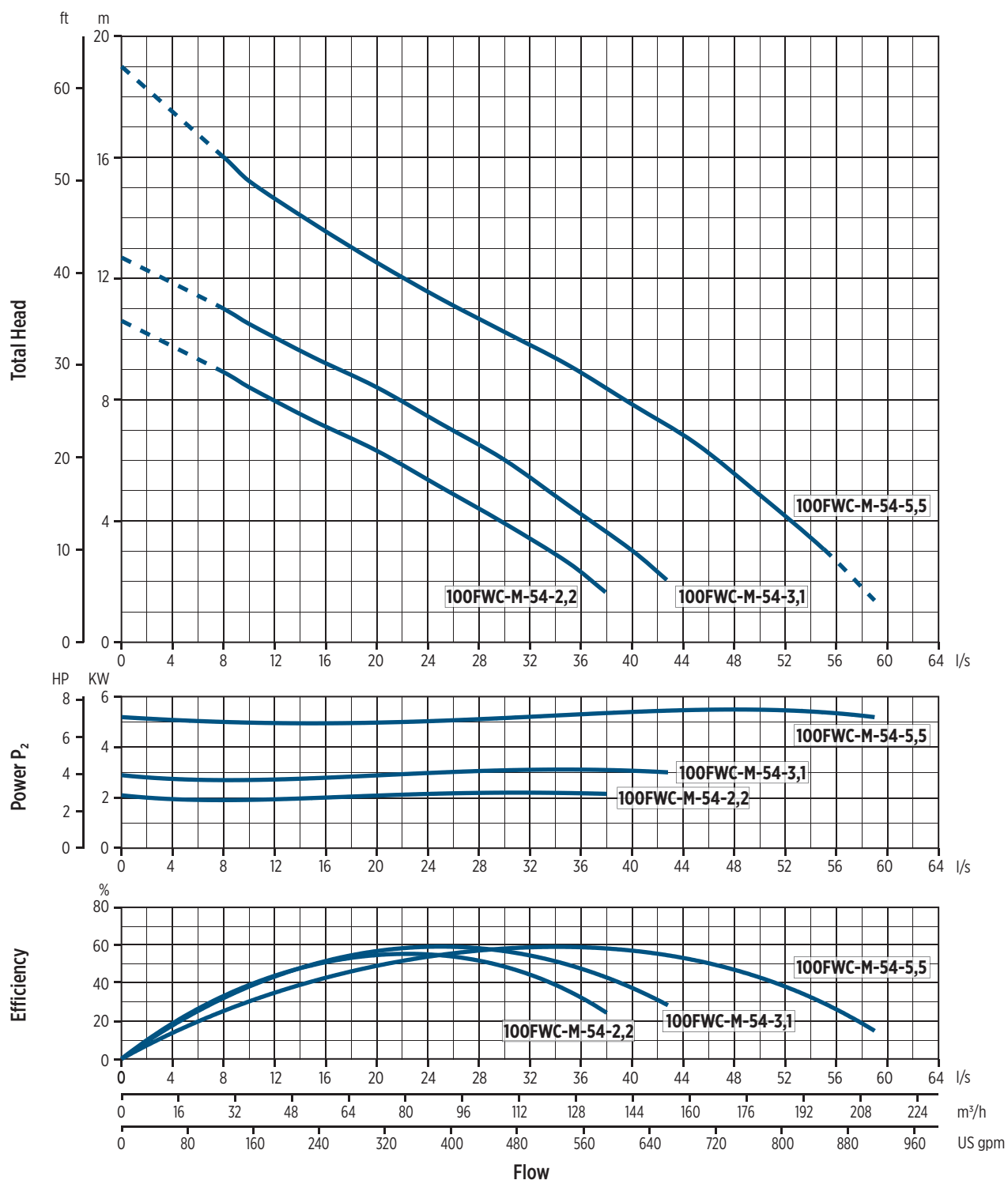
"-" = not available

• = available

HYDRAULIC PERFORMANCE AT 50 HZ

Pump model	Phase	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	3 ~	10,6	8,9	8,4	7,3	6,3	5,1	3,9	2,6	1,6						
100FWC-M-54-3,1T	3 ~	12,7	11	10,5	9,4	8,4	7,2	6	4,5	3,6	3	2				
100FWC-M-54-5,5T	3 ~	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

HYDRAULIC PERFORMANCE AT 50 HZ



002002 12/2022

INSTALLATION

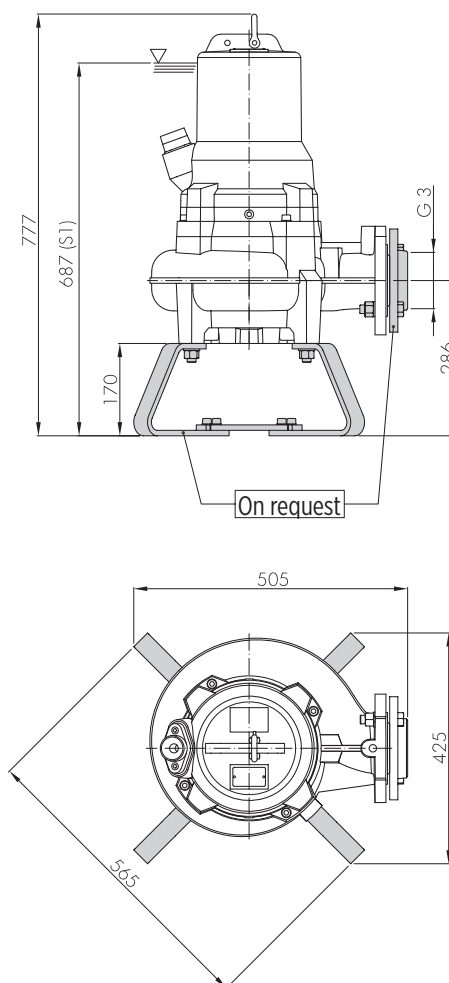
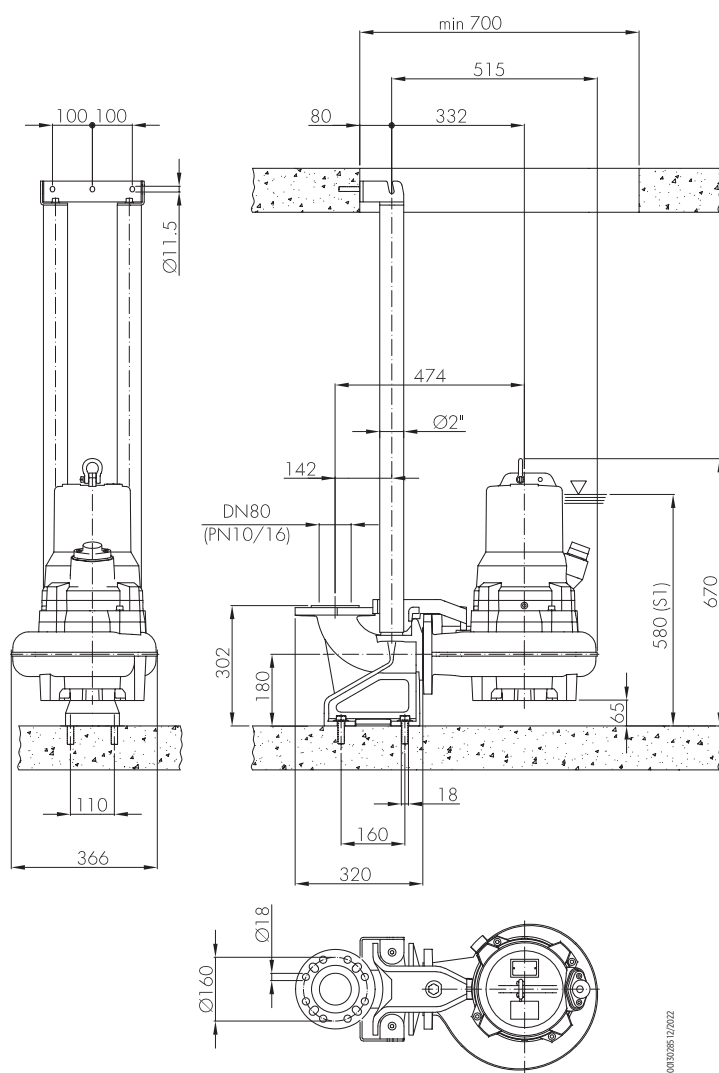
INSTALLATION INSTRUCTIONS

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.

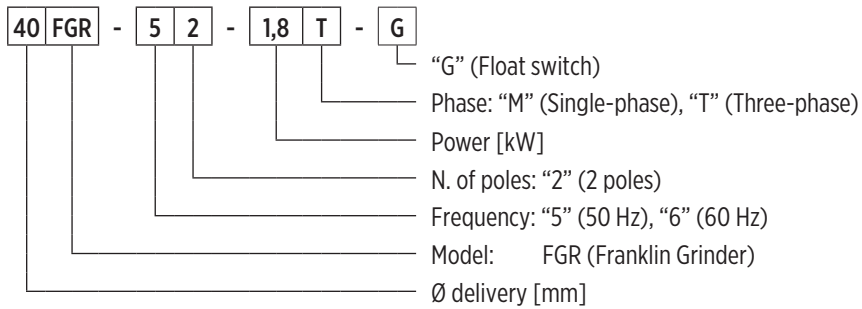


FGR Series - Pumps with grinder unit 50 Hz



FGR SERIES - PUMPS WITH GRINDER UNIT 50 HZ

PUMP IDENTIFICATION CODE



00140087 01/2023

40FGR SERIES 50 HZ

FEATURES & BENEFITS

APPLICATIONS



Pumping of clear non-loaded fluids



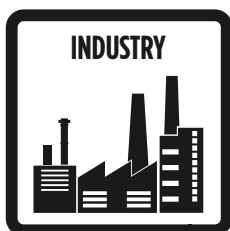
Extraction of water from ponds, streams or pits and for rainwater collection



Wastewater

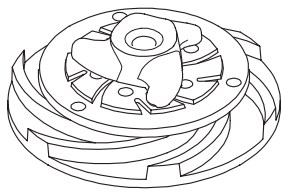


MARKETS



CAST IRON SUBMERSIBLE WASTEWATER LIFT PUMPS WITH GRINDER UNIT

These series of grinder pumps are particularly used in civil and industrial sewage plants. They have been designed to pump the liquid at high head with very low capacity. The cutter unit, in a special hard stainless steel, cuts into small pieces threadlike materials contained in the liquids. As the risk of clogging is avoided small diameter pipes are used. These pumps can be used to lift the sewage of blocks of flats and villas, small isolated areas far from the sewer systems; the sewage of hotels and campsites, in the food and paper industry and in those particular situations where the installation is often expensive by using a gravity system.



IMPELLER WITH GRINDER UNIT

GENERAL FEATURES

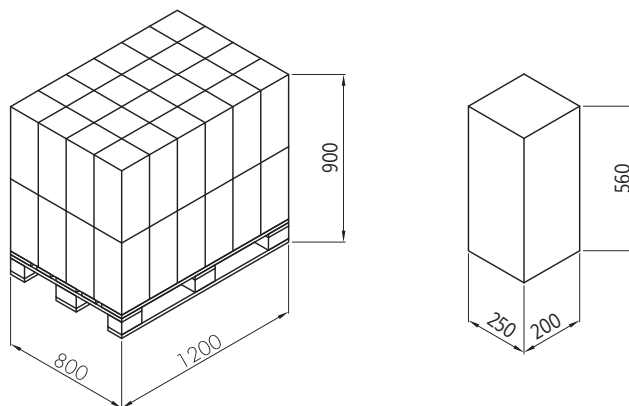
Materials/Constr.design		
Impeller with grinder unit		Cast iron EN GJL200
External casing		Stainless steel AISI304
Pump body		Cast iron EN GJL200
Cover		Cast iron EN GJL200
Grinder unit		Hardened stainless steel
Mechanical seal	motor side	Seal ring
	pump side	Silicon carbide (SiC/SiC)
Motor shaft		Stainless steel AISI416
Power cable	Type	10 m H07RN-F type
	Single-phase	4G1mm ² with SHUKO plug (CEE7/VII), box with manual overload cut-out and with starting and operating capacitors.
	Three-phase	4G1mm ²
Motor		
Constr.design		asynchronous squirrel cage-type in dry chamber
Type		2 poles; 50 Hz
Insulation class		F
Protection degree		IP68
Voltage	Single-phase	230V ±6% built-in overheating protection, float switch as optional
	Three-phase	230V ±10%, 400V ±10%
Limits of use		
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		303 mm
Max. number of starting/hour		20
Construction options		

- 60 Hz version
- Different voltages

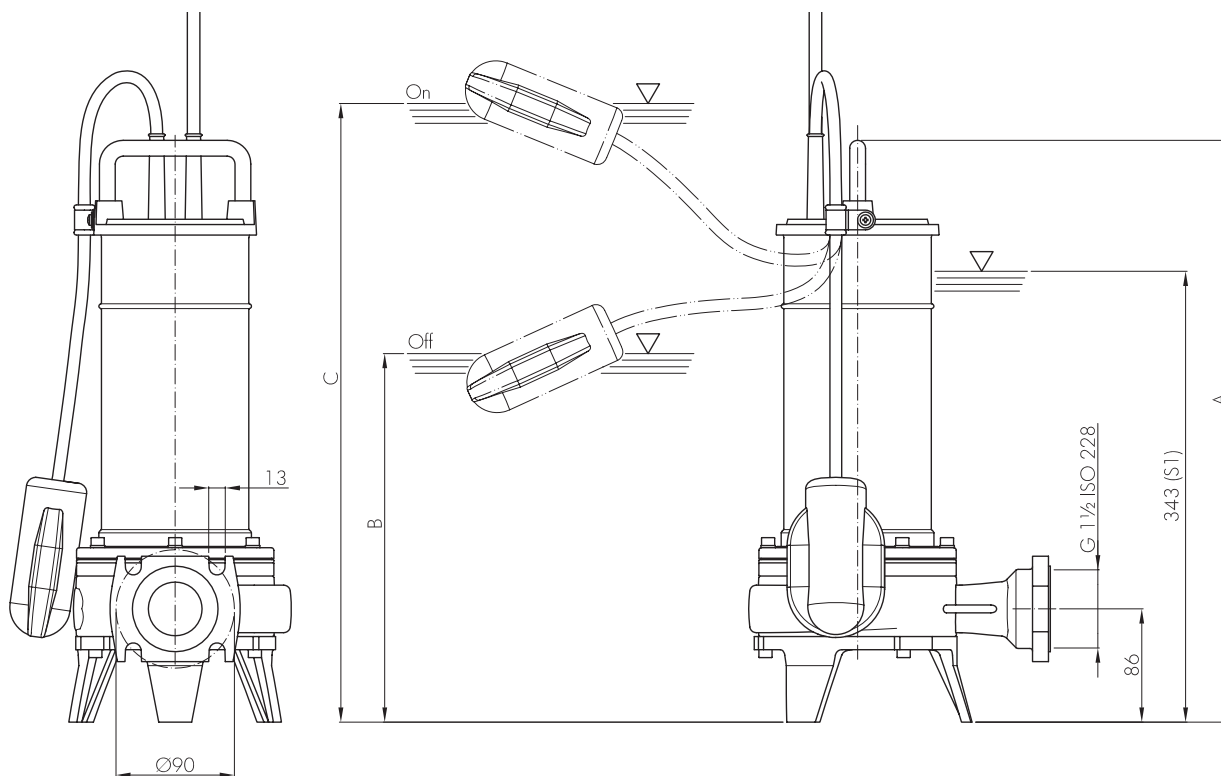
DIMENSIONAL DRAWINGS

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

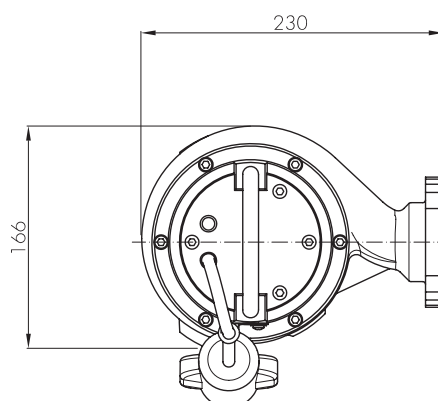
Pallet			
Pump model	Dimensions [mm]	N° of pumps	Weight [kg]
40FGR-52-0,75	800x1200x900	32	600
40FGR-52-1,1	800x1200x900	32	670



001029102/2023



Dimensions [mm]			
Pump model	A	B	C
40FGR-52-0,75	438	280	470
40FGR-52-1,1	463	305	495



001029102/2023

TECHNICAL DATA

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

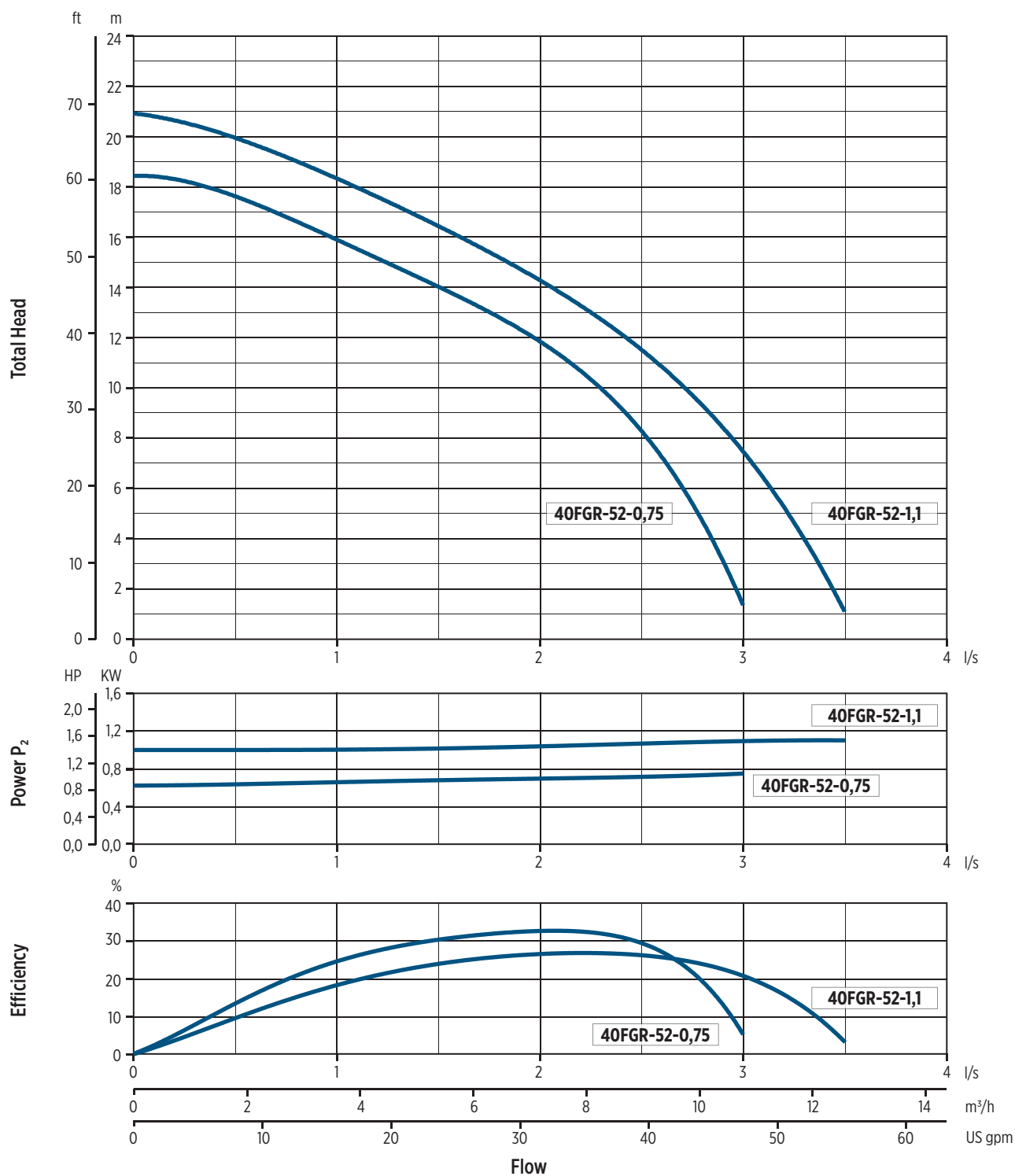
"-" = not available

• = available

HYDRAULIC PERFORMANCE AT 50 HZ

Pump model	Phase	Q = Delivery							
		l/sec 0	0,5	1	1,5	2	2,5	3	3,5
		m3/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]									
40FGR-52-0,75	1 ~	18,5	17,4	16,2	14	11,6	8,5	1,3	
	3 ~	18,5	17,4	16,2	14	11,6	8,5	1,3	
40FGR-52-1,1	1 ~	21	19,7	18,5	16,6	14,2	11,2	7,8	1
	3 ~	21	19,7	18,5	16,6	14,2	11,2	7,8	1

PERFORMANCE CURVES AT 50 HZ



002003 02/2023

INSTALLATION

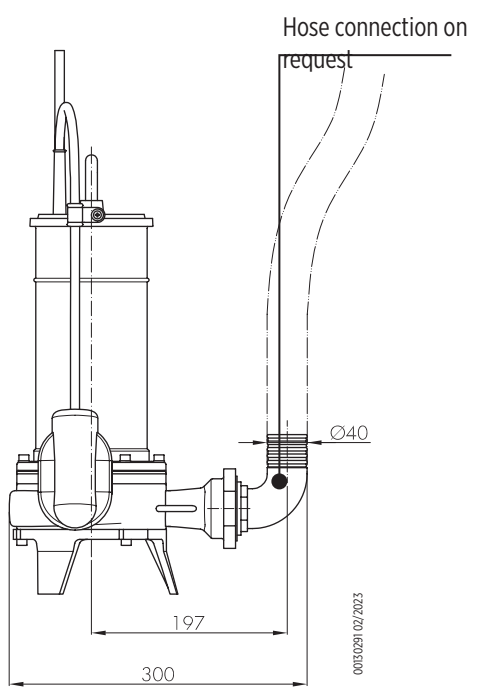
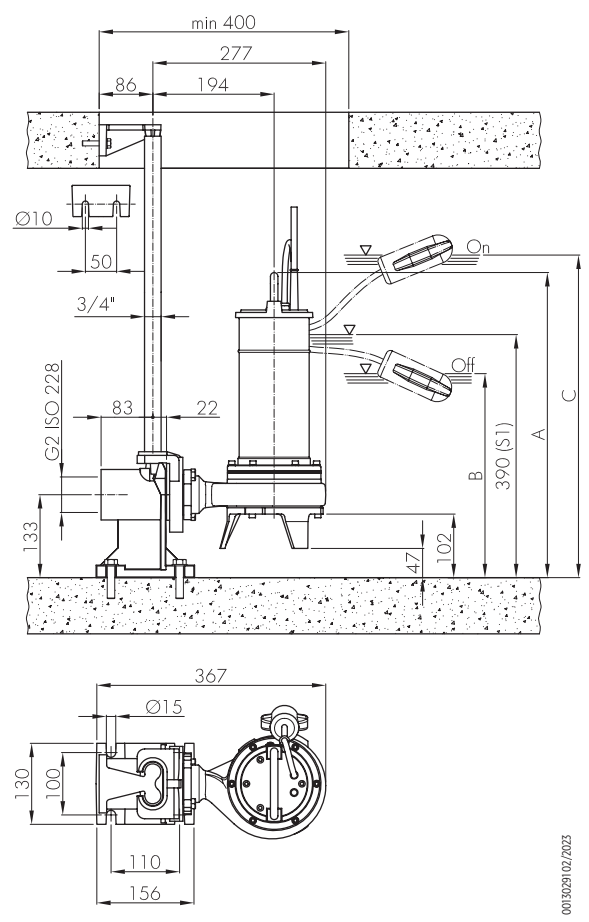
INSTALLATION INSTRUCTIONS

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	B	C
40FGR-52-0,75	485	330	515
40FGR-52-1,1	510	355	540

50FGR SERIES 50 HZ

FEATURES & BENEFITS

APPLICATIONS



Pumping of clear non-loaded fluids



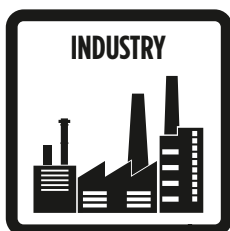
Extraction of water from ponds, streams or pits and for rainwater collection



Wastewater

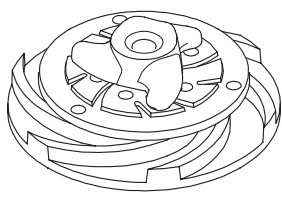


MARKETS



CAST IRON SUBMERSIBLE WASTEWATER LIFT PUMPS WITH GRINDER UNIT

These series of grinder pumps are particularly used in civil and industrial sewage plants. They have been designed to pump the liquid at high head with very low capacity. The cutter unit, in a special hard stainless steel, cuts into small pieces threadlike materials contained in the liquids. As the risk of clogging is avoided small diameter pipes are used. These pumps can be used to lift the sewage of blocks of flats and villas, small isolated areas far from the sewer systems; the sewage of hotels and campsites, in the food and paper industry and in those particular situations where the installation is often expensive by using a gravity system.



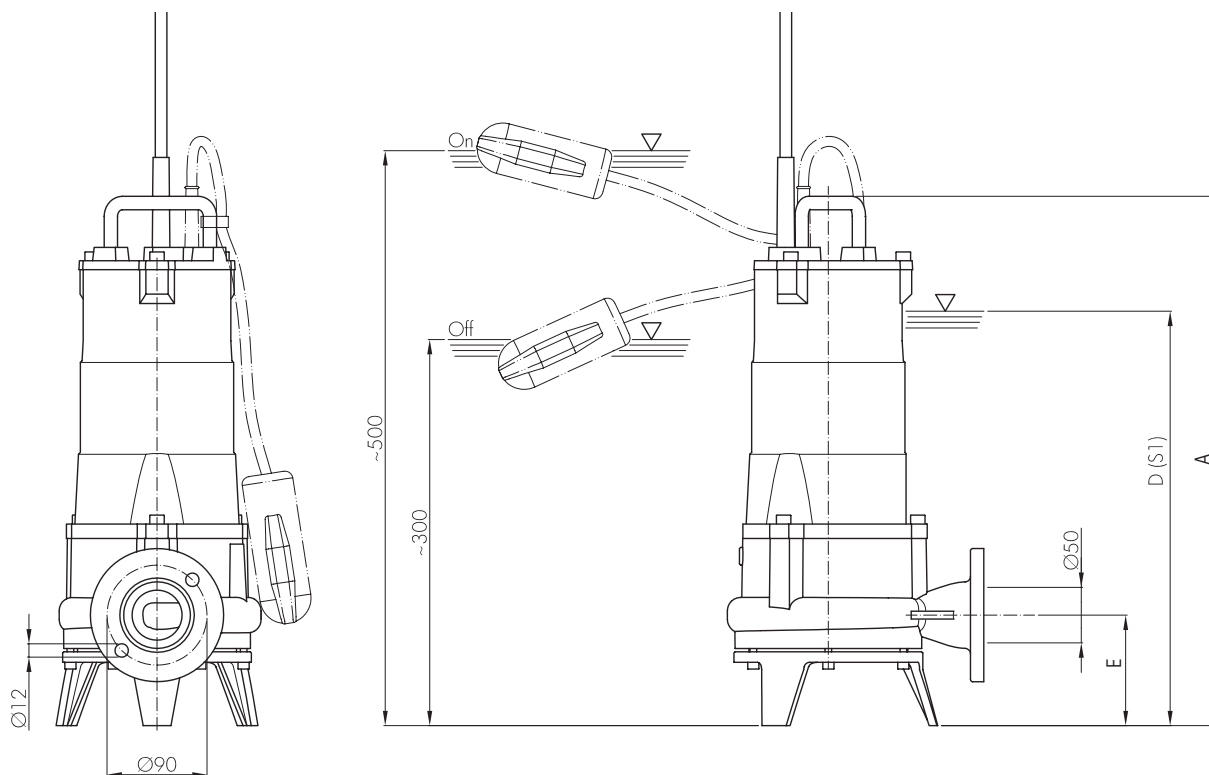
IMPELLER WITH GRINDER UNIT

GENERAL FEATURES

Materials/Constr.design		
Impeller with grinder unit		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 type
	Single-phase	4G1mm ² with SHUKO plug (CEE7/VII), box with manual overload cut-out and with starting and operating capacitors.
	Single-phase 50FGR-52-1,6M	4G2,5mm ² with SHUKO plug (CEE7/VII), box with manual overload cut-out and with starting and operating capacitors.
	Three-phase	4G1,5mm ²
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), float switch as optional
	Three-phase	230V ±10%, 400V ±10%
Limits of use		
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		
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		

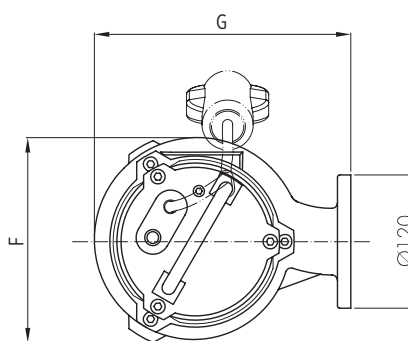
- 60 Hz version
- Different voltages
- Food-grade white oil

DIMENSIONAL DRAWINGS



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

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



00150294 02/2023

TECHNICAL DATA

Pump model	Motor absorbed power P_1	Rated power P_2		Voltage	Rated current	Phase	Power cable		Float switch	Running capacitor	Delivery 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

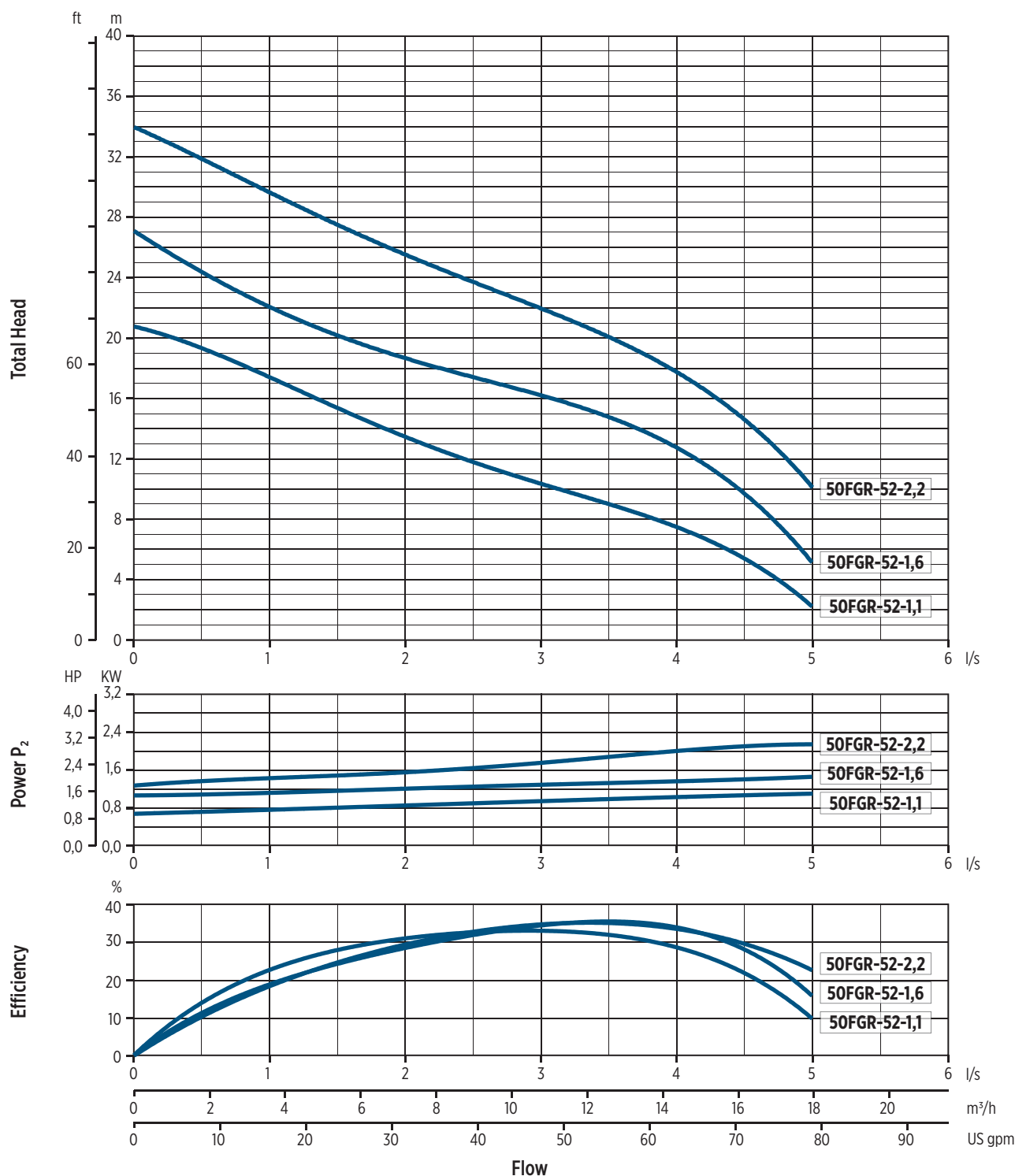
“-” = not available

• = available

HYDRAULIC PERFORMANCE AT 50 HZ

Pump model	Phase	Q = Delivery										
		l/sec 0	0,5	1	1,5	2	2,5	3	3,5	4	4,5	5
		m³/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	1 ~	21	19	17	15,8	14	12	9,5	8,8	7,8	5,8	2
	3 ~	21	19	17	15,8	14	12	9,5	8,8	7,8	5,8	2
50FGR-52-1,6	1 ~	27	25	21	20,5	19	18	15,5	14,5	13	10	5
	3 ~	27	25	21	20,5	19	18	15,5	14,5	13	10	5
50FGR-52-2,2	3 ~	34	32	29,5	27,5	25,7	23,8	22	20	17,5	15	10

PERFORMANCE CURVES AT 50 HZ

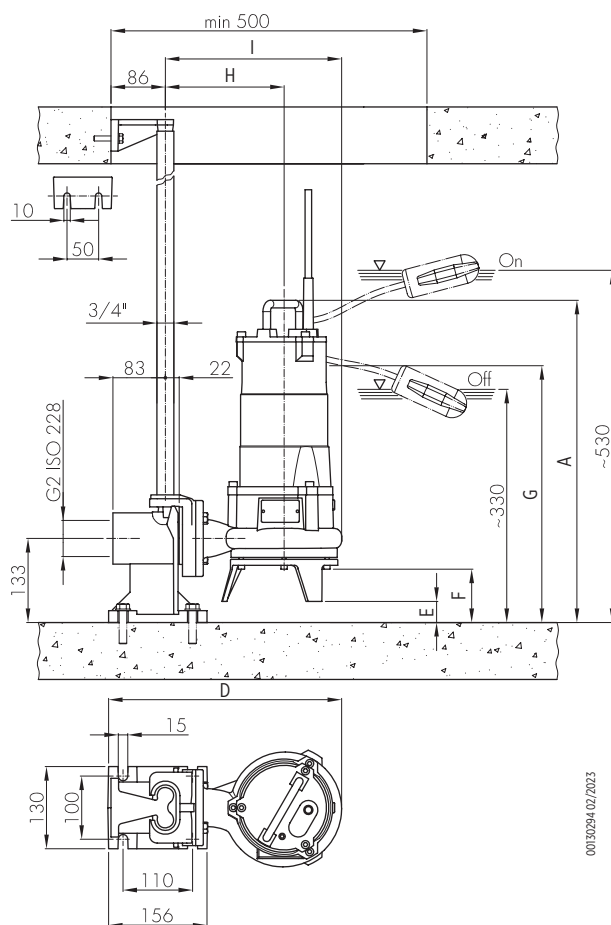


INSTALLATION

INSTALLATION INSTRUCTIONS

PERMANENT INSTALLATION WITH COUPLING SYSTEM

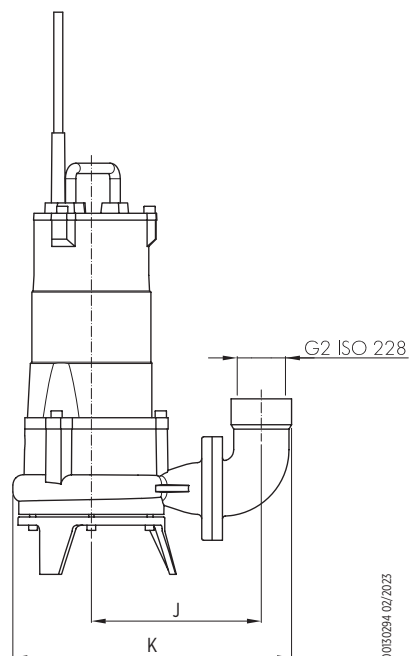
It is the recommended installation for the permanent pumping station. The electric pump is guided by two pipes and it is connected automatically to the coupling system. The quick connection ensures that the pump can be easily removed and re-installed.



00130294 02/2023

TRANSPORTABLE INSTALLATION

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



00130294 02/2023

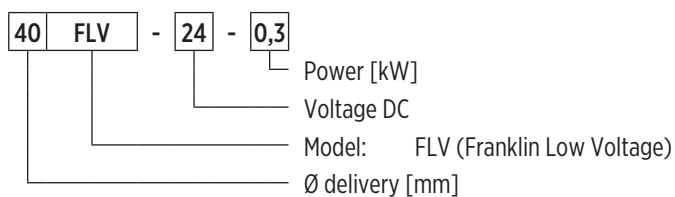
Pump model	Installation Dimensions [mm]								
	A	D	E	F	G	H	I	J	K
50FGR-52-1,1	510	370	34	85	407	193	279	197	232
50FGR-52-1,6	574	414	24	76	464	215	324	224	368
50FGR-52-2,2	574	414	24	76	464	215	324	224	368

FLV Series - D.C. motor submersible waste water lift pumps 50 Hz



D.C. MOTOR SUBMERSIBLE WASTE WATER LIFT PUMPS

PUMP IDENTIFICATION CODE



00140088 01/2023

40FLV SERIES

FEATURES & BENEFITS

APPLICATIONS



drainage



Domestic / industrial
grey water

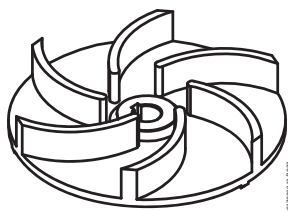


MARKETS



D.C. MOTOR SUBMERSIBLE WASTE WATER LIFT PUMPS

The D.C. electric submersible pumps are suitable for the drainage of water from road drain wells, basements and from sites where the electric current is not available. Easy to install and silent, this model offer the maximum safety.



VORTEX IMPELLER

GENERAL FEATURES

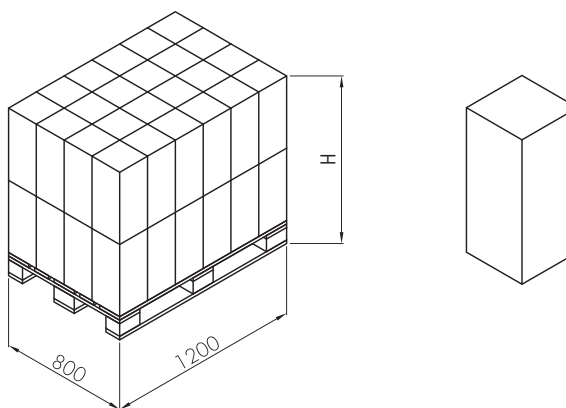
Materials/Constr.design		
Vortex impeller		Cast iron EN GJL200
External casing		Stainless steel AISI304
Pump body		Cast iron EN GJL200
Cover		Cast iron EN GJL200
Mechanical seal	motor side 40FLV-24-0,3, 40FLV-24-0,5, 40FLV-24-0,75	Seal ring
	pump side 40FLV-24-0,3, 40FLV-24-0,5, 40FLV-24-0,75	Graphite/Alumina
	pump side 40FLV-12-0,3	Silicon carbide (SiC/SiC)
Motor shaft		Stainless steel AISI416
Power cable		5 m H07RN-F type, 2x6mm ²
Motor		
Constr.design		D.C. permanent magnet in dry chamber
Type		-
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%
Limits of use		
Maximum liquid temperature		+40 °C
pH of pumped liquid		6 - 10
Liquid density		1,0 kg/dm ³
Maximum immersion depth:		2 m
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)

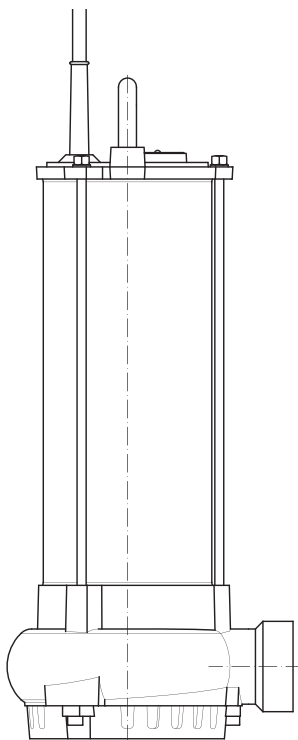
DIMENSIONAL DRAWINGS

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

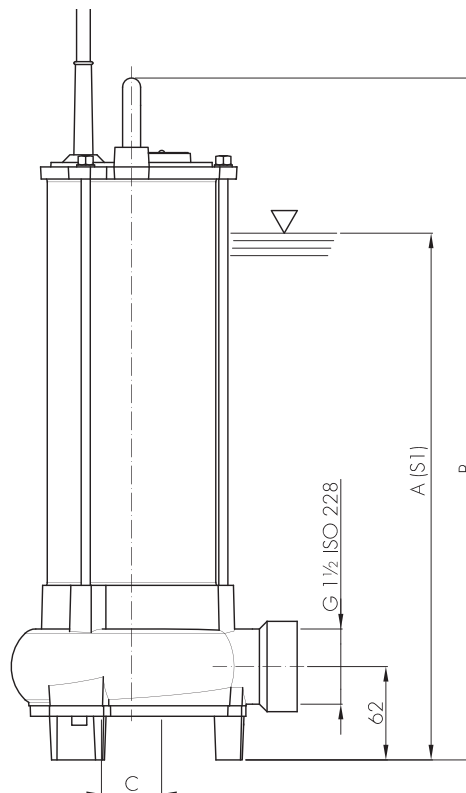
Pallet			
Pump model	Dimensions [mm]	N° of pumps	Weight [kg]
40FLV-24-0,3	800x1200x800	32	400
40FLV-24-0,5	800x1200x800	32	440
40FLV-24-0,75	800x1200x900	24	460
40FLV-12-0,3	800x1200x800	32	400



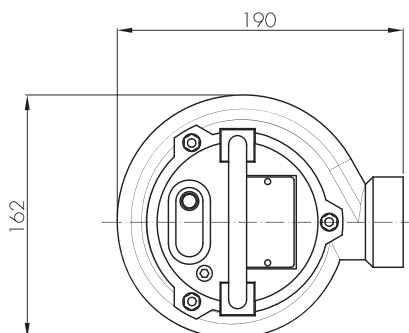
00130295 02/2023



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



00130295 02/2023

TECHNICAL DATA

Pump model	Motor absorbed power P_1	Rated power P_2		Voltage	Rated current	Power cable		Delivery 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

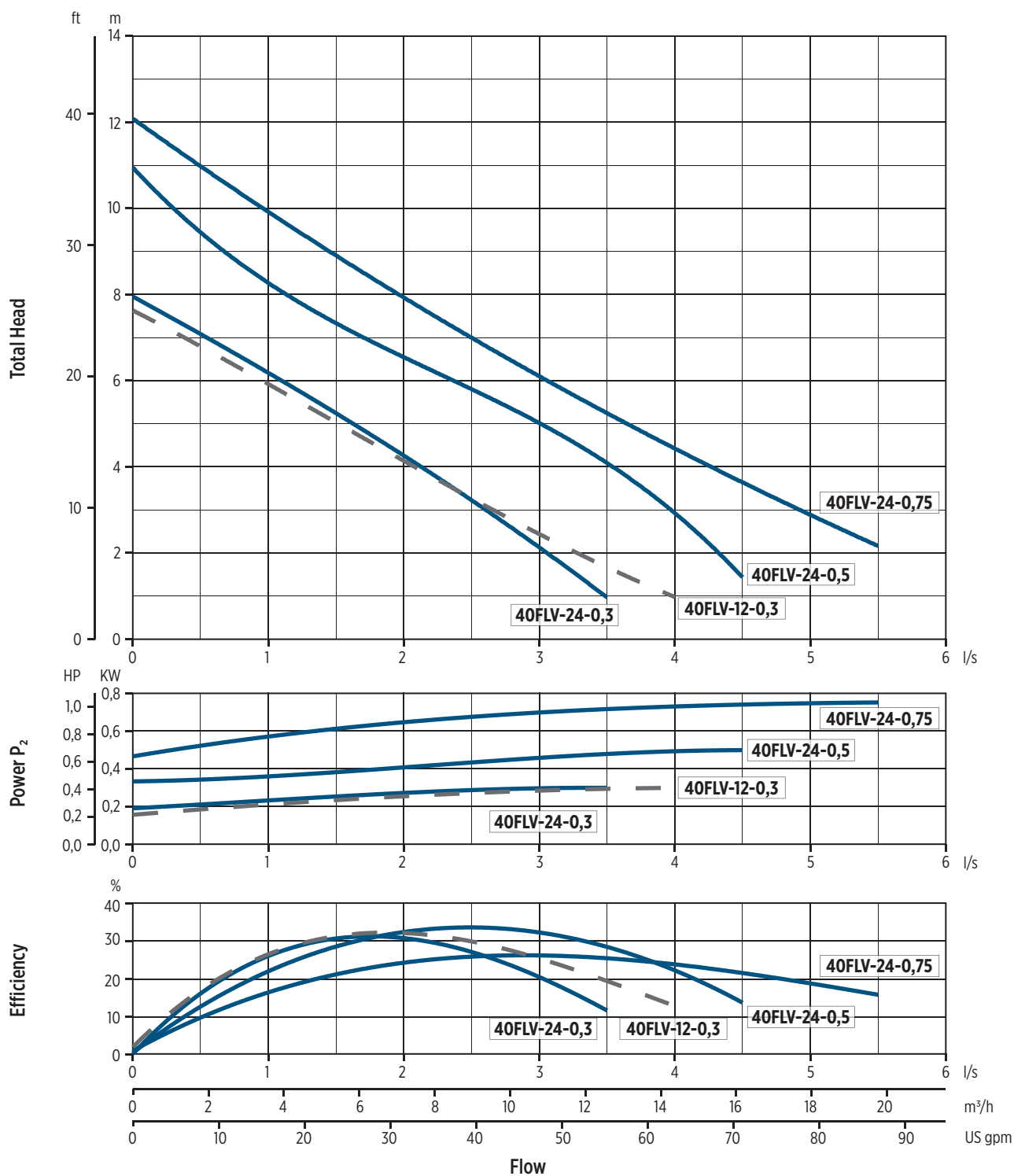
“-” = not available

• = available

HYDRAULIC PERFORMANCE AT 50 HZ

Pump model	Voltage	Q = Delivery											
		l/sec 0	0,5	1	1,5	2	2,5	3	3,5	4	4,5	5	5,5
		m ³ /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
	[V]	H = Total meters head of water column [m]											
	40FLV-24-0,3	24CC	8	7	6,2	5,3	4,3	3,2	2,1	1			
	40FLV-24-0,5	24CC	10,9	9,7	8	7,1	6,8	6	5	3,9	2,9	1,5	
	40FLV-24-0,75	24CC	12	11	10	9	8	7	5,8	5,1	4,5	3,9	3
	40FLV-12-0,3	12CC	7,5	7	6	5	4	3,1	2,5	2	0,8		

PERFORMANCE CURVES AT 50 HZ

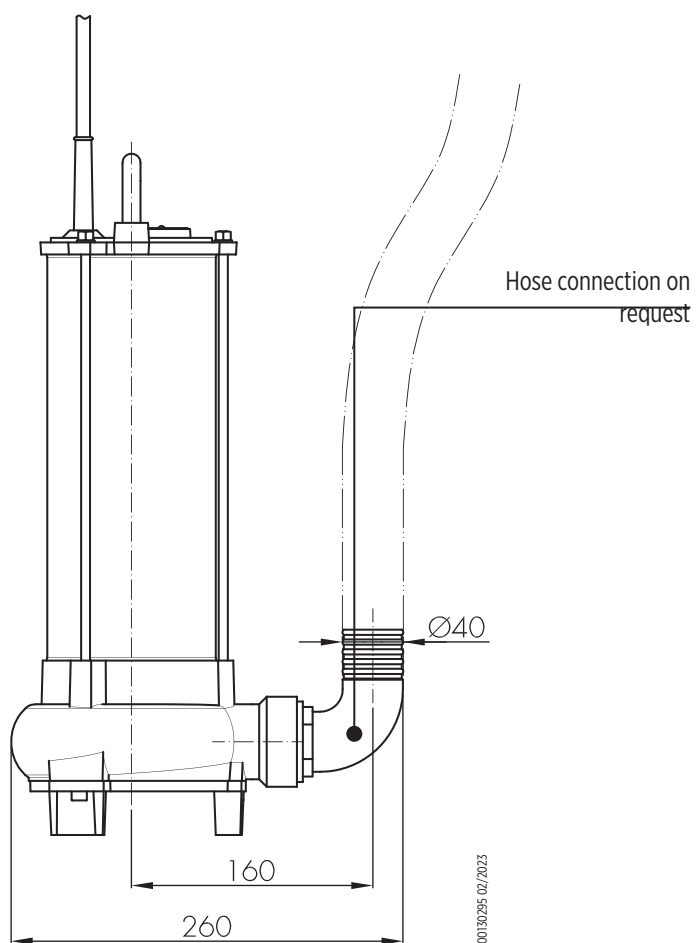


INSTALLATION

INSTALLATION INSTRUCTIONS

TRANSPORTABLE INSTALLATION

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



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 single-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 - Running 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 \approx 2900 l/min" section removed	10
	"EGN - Submersible Drainage Pumps for Clean Water" section removed	Tutte
	Updated tables	6, 8, 10, 14, 15, 16
	Pump Identification Code section modified	6
	EGN model removed	All
	EDV model removed	All
	"HH" (High Head version) deleted from FWS-FWC series pump 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
	Pump Identification Code section modified	6
05	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



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