



Franklin Electric

SUBMERSIBLE PUMPS FOR SEWAGE

FWS-FWC, FGR AND FLV SERIES



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NOTE: Franklin Electric reserves the right to amend specification without prior notice.

For the most up-to-date product information, visit franklinwater.eu.



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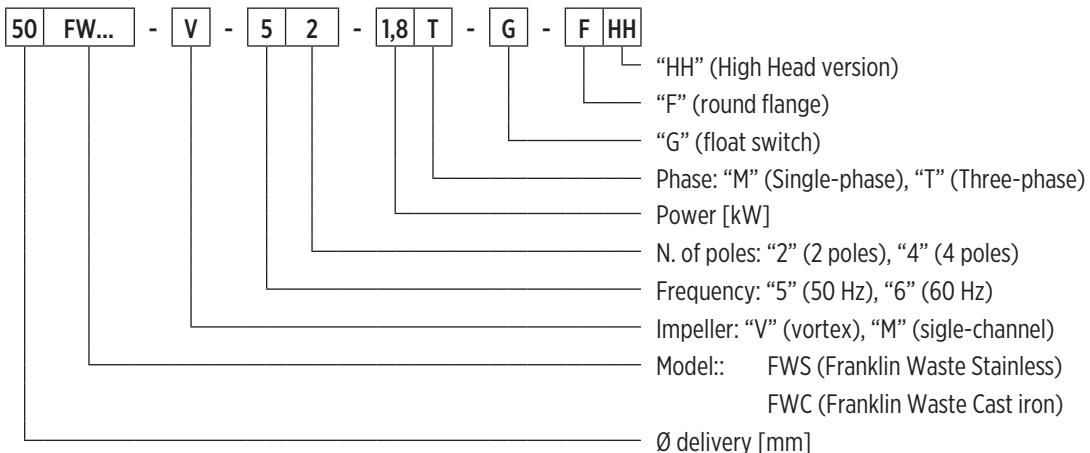
FWS-FWC Series - Wastewater lift pumps

50 Hz



FWS-FWC SERIES - WASTEWATER LIFT PUMPS 50 Hz

PUMP IDENTIFICATION CODE



00140865 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

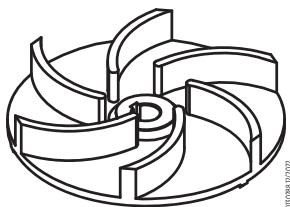


MARKETS



STAINLESS STEEL AND CAST IRON SUBMERSIBLE WASTEWATER LIFT PUMPS

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



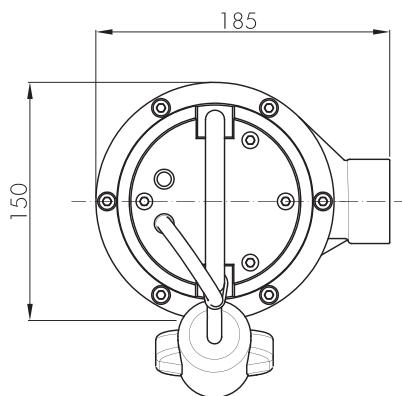
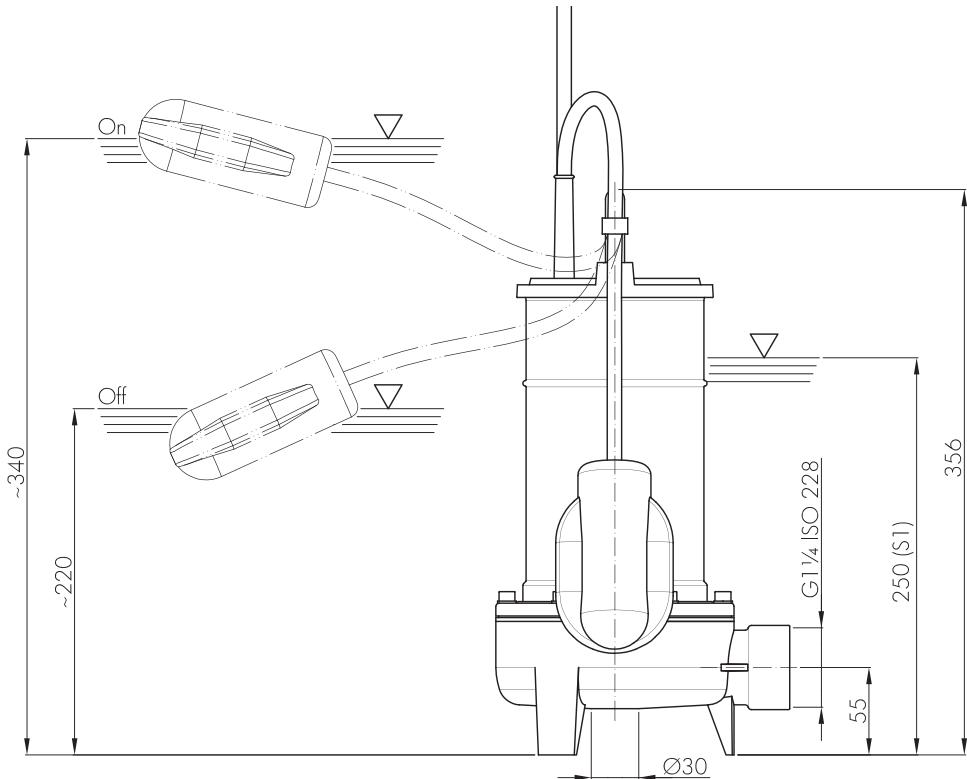
VORTEX IMPELLER

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, 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 continuos service		250 mm
Free passage		30 mm
Max. number of starting/hour		20
Construction options		
<ul style="list-style-type: none"> ■ 60 Hz version ■ Different voltages ■ Food-grade white oil 		



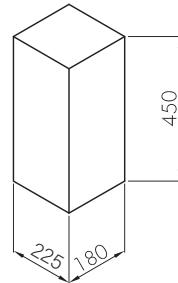
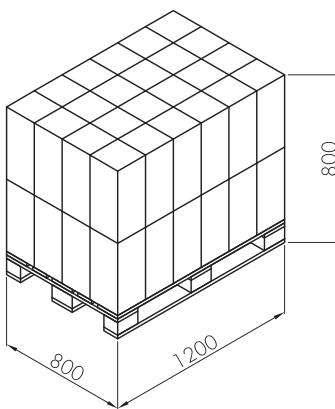
DIMENSIONAL DRAWINGS



00150276 12/2022

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

Pallet		
Dimensions [mm]	Nº of pumps	Weight [kg]
1200x800x800	32	400



00150288 02/2023



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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	G1½	11
32FWS-V-52-0,3M-G	0,57	0,3	0,4	230	2,8	1~	10	3G1	•	8	G1½	11

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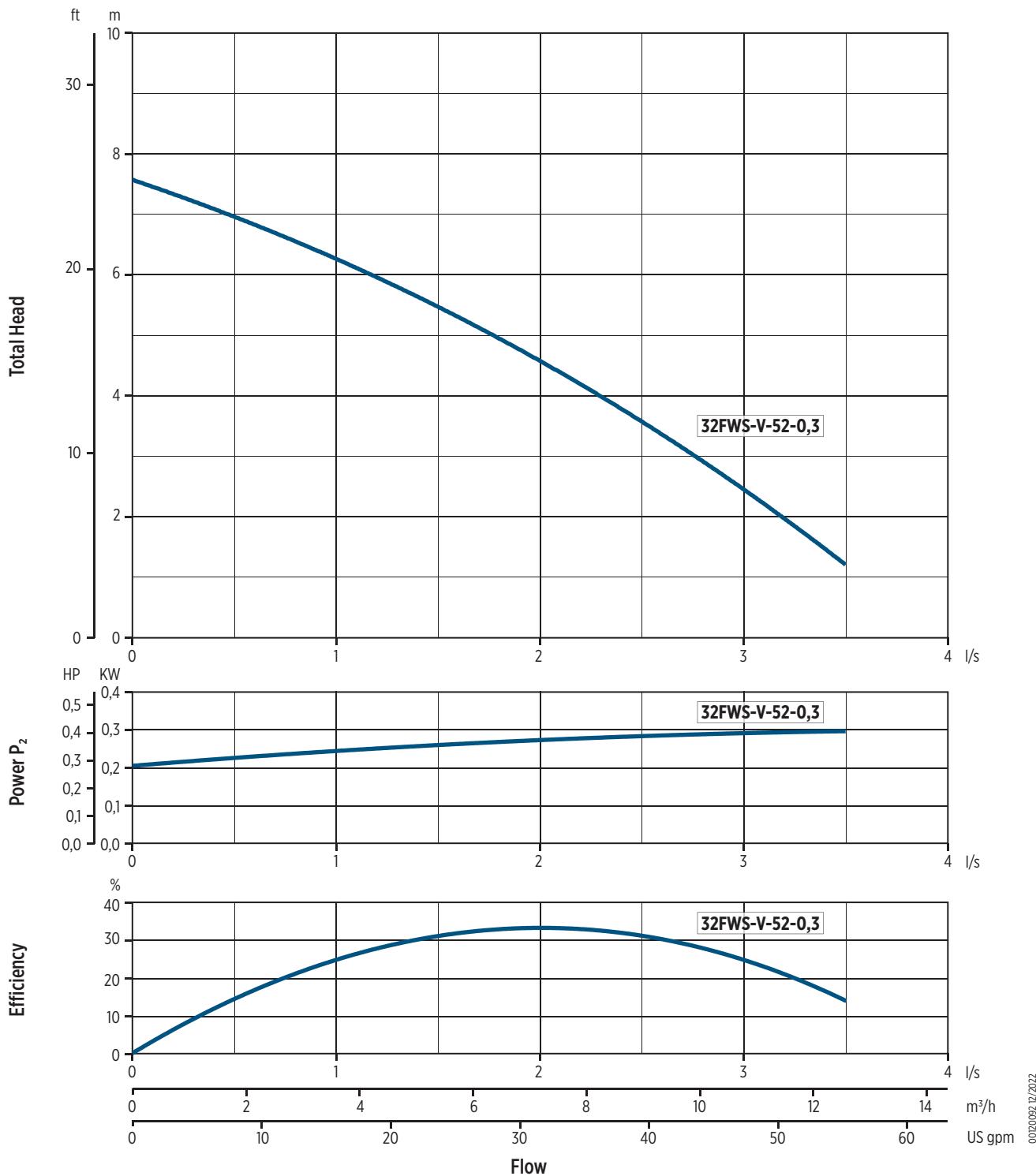
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HYDRAULIC PERFORMANCE AT 50 HZ

Pump model	Phase	Q = Delivery							
		I/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



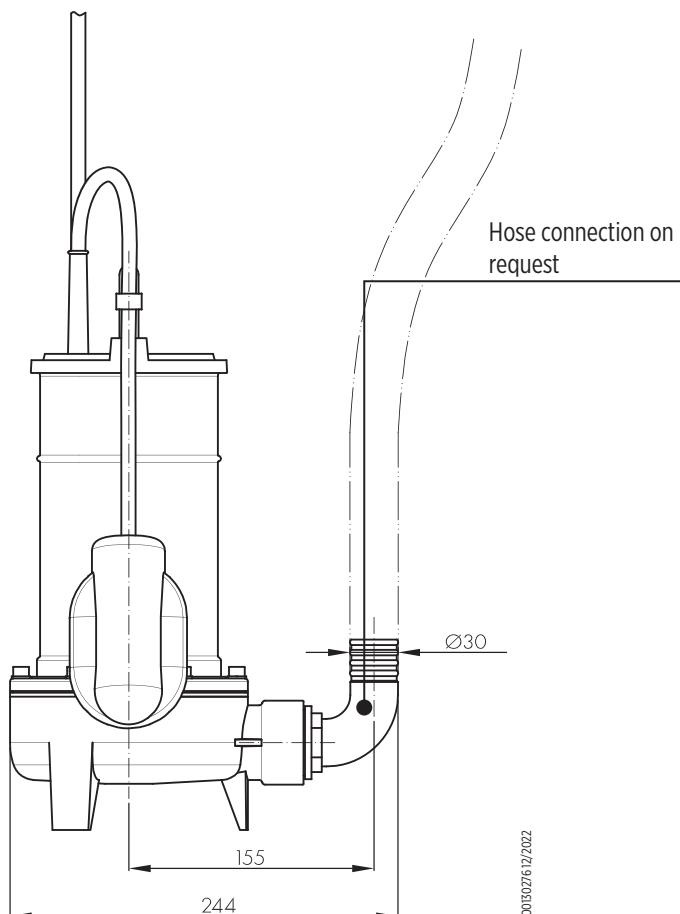
PERFORMANCE CURVES AT 50 HZ



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

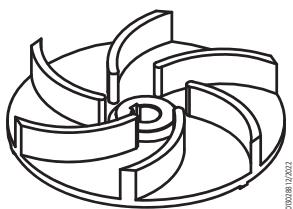


MARKETS



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

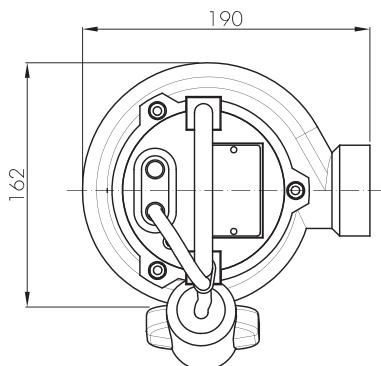
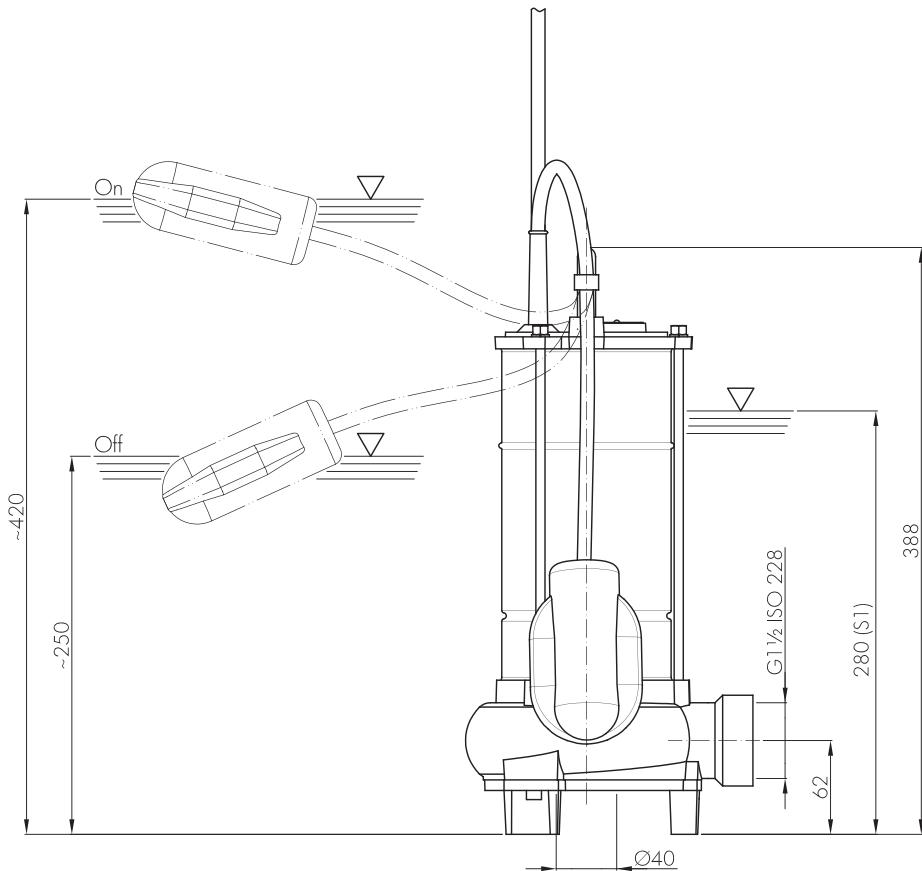
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GENERAL FEATURES

		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, 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 continuos service		280 mm
Free passage		20 mm
Max. number of starting/hour		20
Construction options		
<ul style="list-style-type: none"> ■ 60 Hz version ■ Different voltages ■ Food-grade white oil ■ Silicon carbide (SiC/SiC) mechanical seal 		



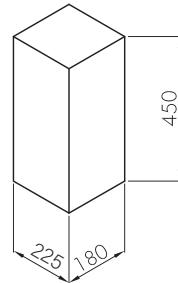
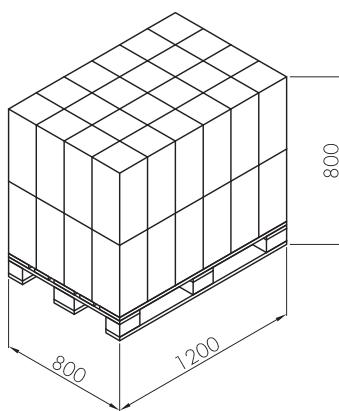
DIMENSIONAL DRAWINGS



001302714/2022

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

Pallet		
Dimensions [mm]	Nº of pumps	Weight [kg]
1200x800x800	32	460



00130288 02/2023



Franklin Electric

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]					
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	

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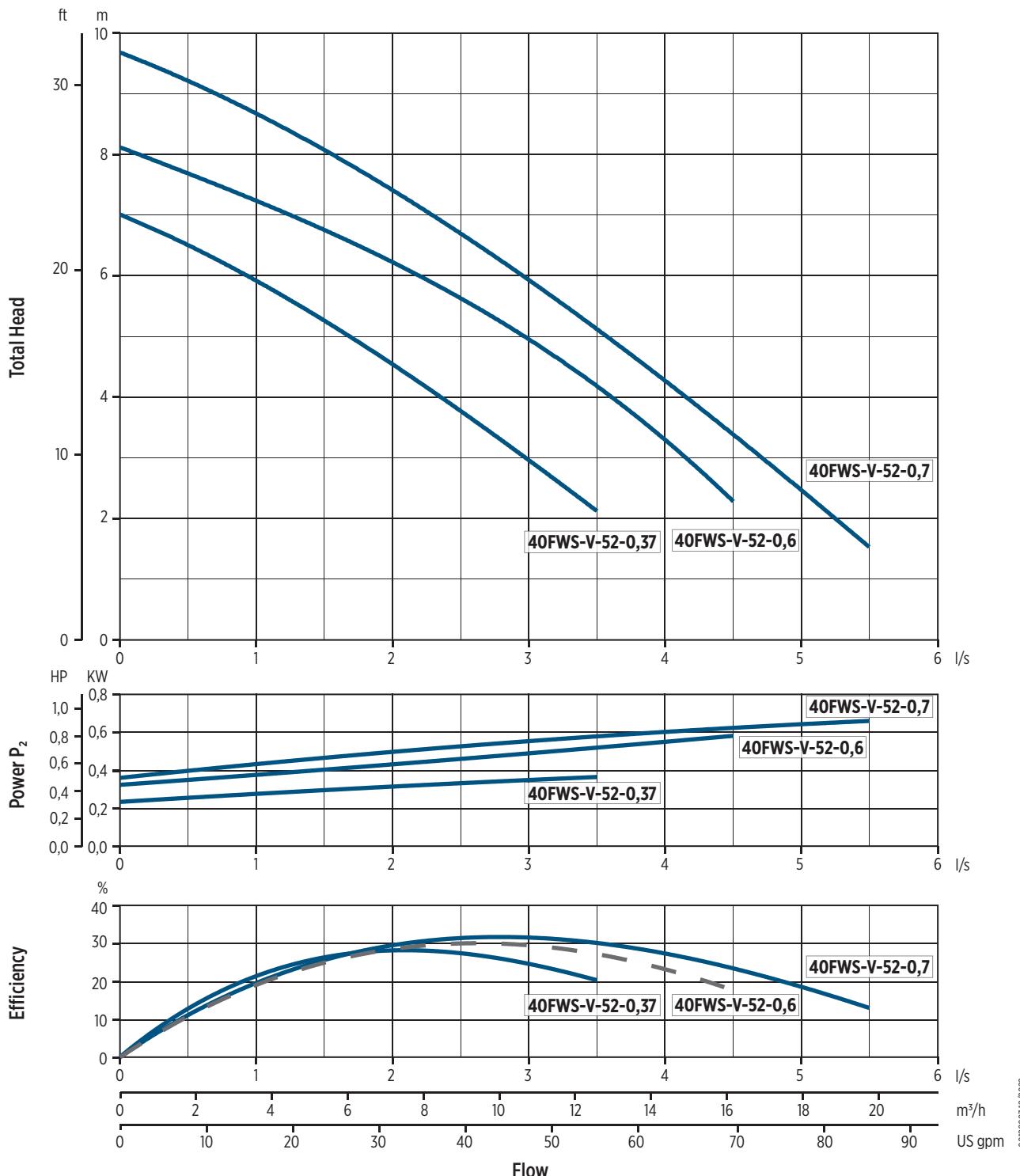
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HYDRAULIC PERFORMANCE AT 50 HZ

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



Franklin Electric

The hydraulic characteristics are guaranteed, according to ISO standard 9906:2012, grade 3B

INSTALLATION

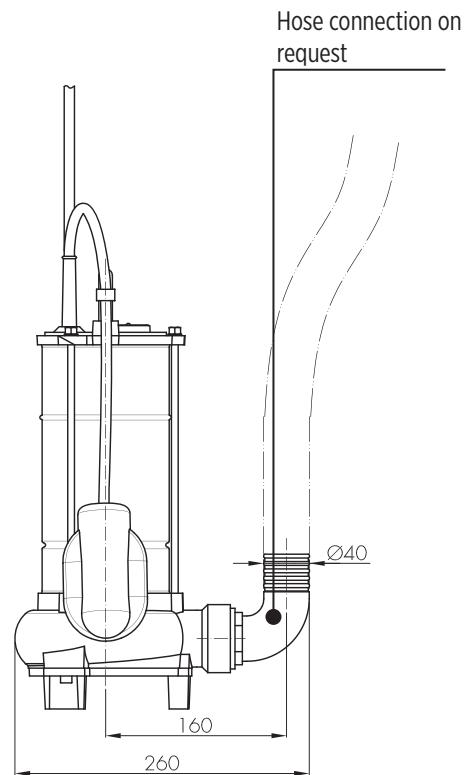
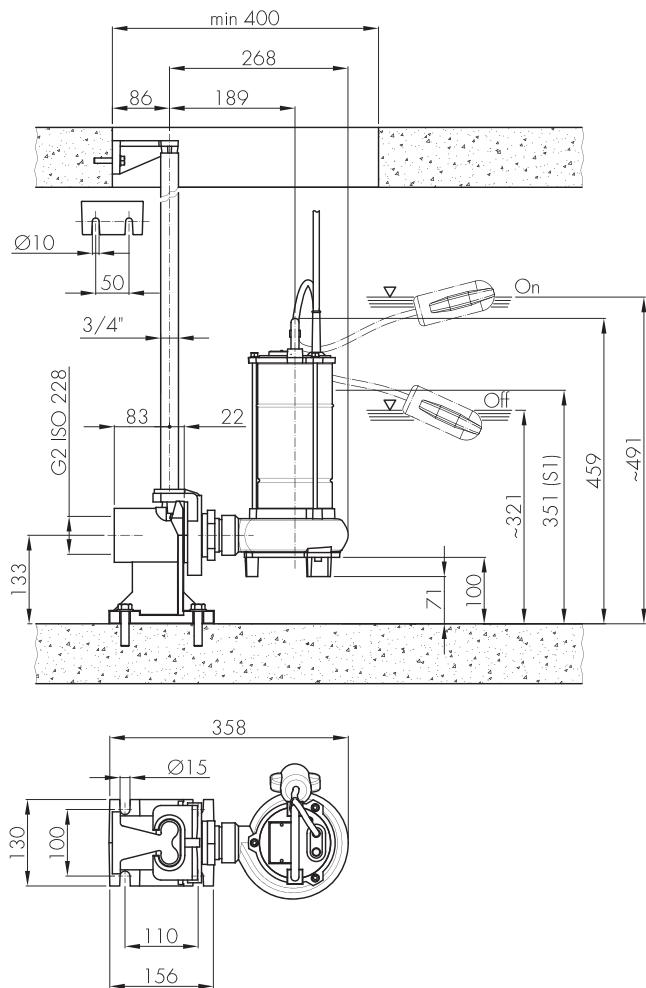
INSTALLATION INSTRUCTIONS

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.



0013027712/2022

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

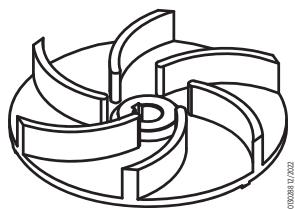


MARKETS



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

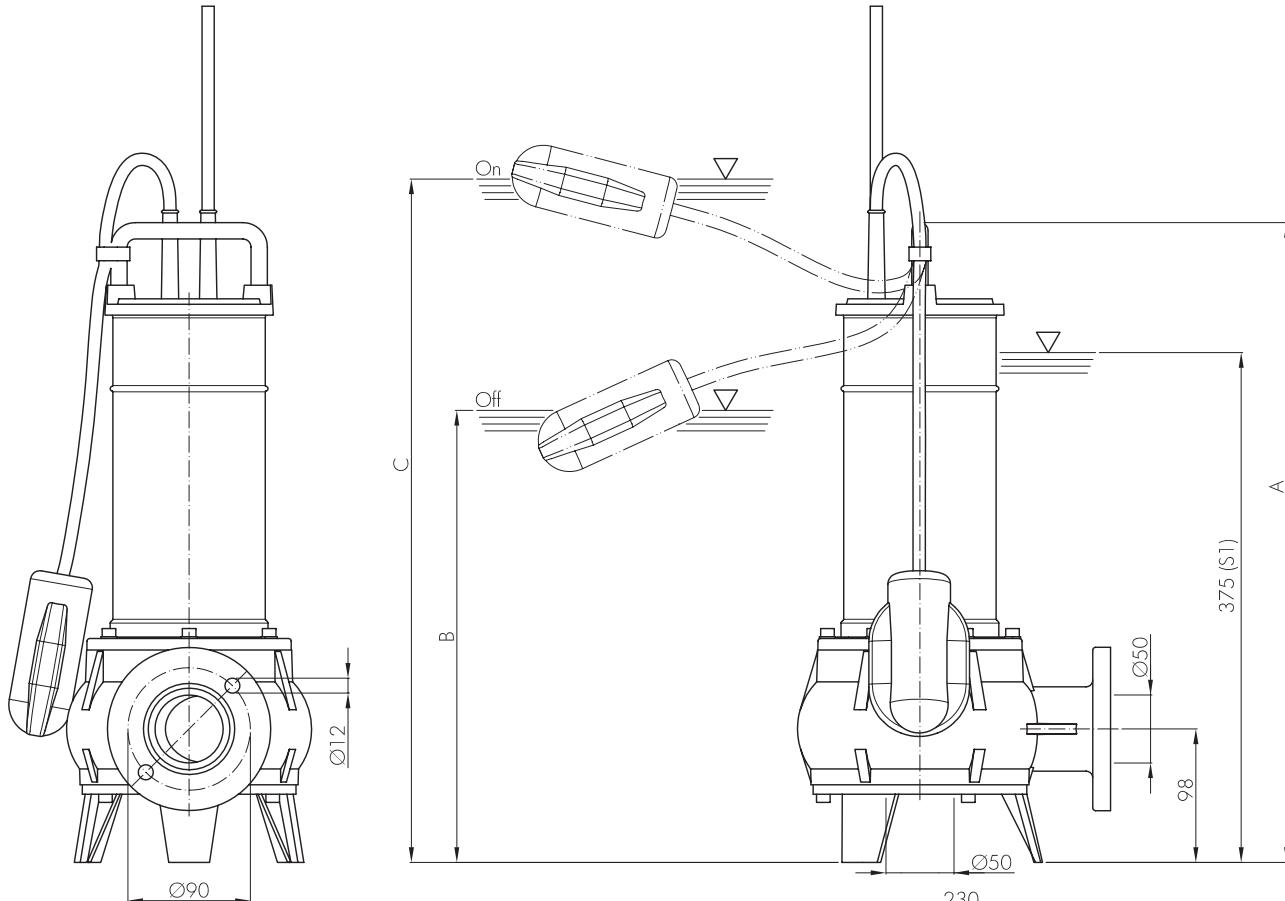
GENERAL FEATURES

		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, 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 continuos 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

003027822022

TECHNICAL DATA

Pump model	Motor absorbed power P ₁ [kW]	Rated power P ₂		Voltage [V]	Rated current [A]	Phase	Power cable		float switch	Running capacitor [μF]	Delivery port	Weight [kg]
		[kW]	[HP]				length [m]	Type				
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

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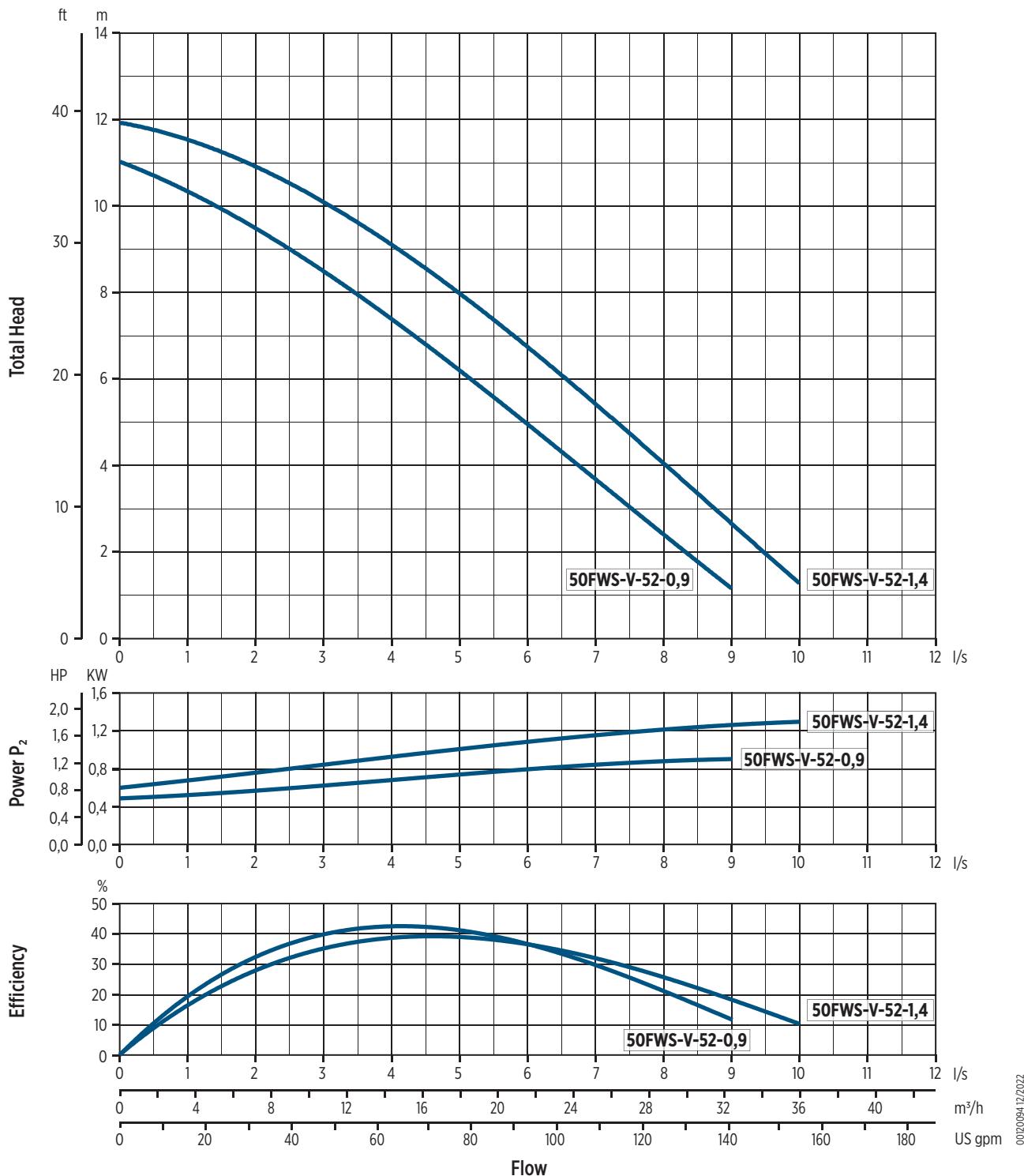
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HYDRAULIC PERFORMANCE AT 50 HZ

Pump model	Phase	Q = Delivery														
		I/sec 0	1	1,5	2	2,5	3	3,5	4	4,5	5	6	7	8	9	10
		m ³ /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



The hydraulic characteristics are guaranteed, according to ISO standard 9906:2012, grade 3B



Franklin Electric

INSTALLATION

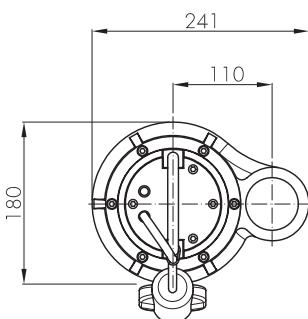
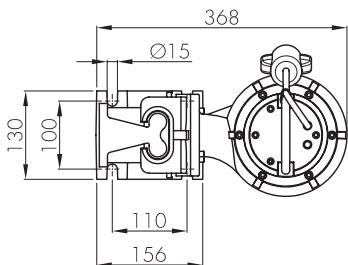
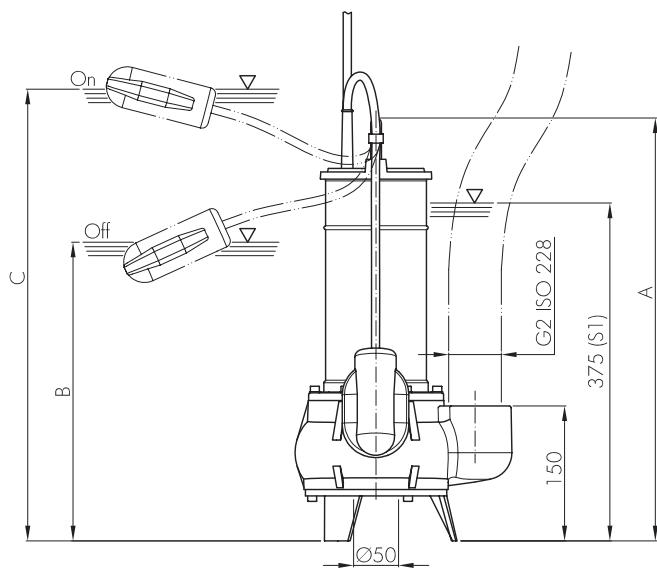
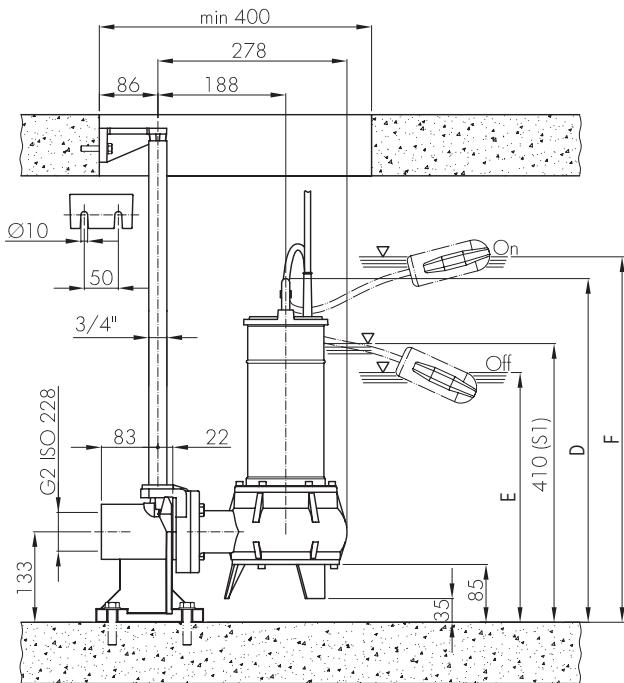
INSTALLATION INSTRUCTIONS

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.



00130278 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

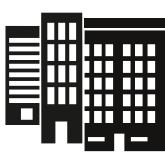


MARKETS

RESIDENTIAL

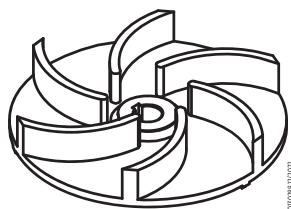


COMMERCIAL



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.



VORTEX IMPELLER

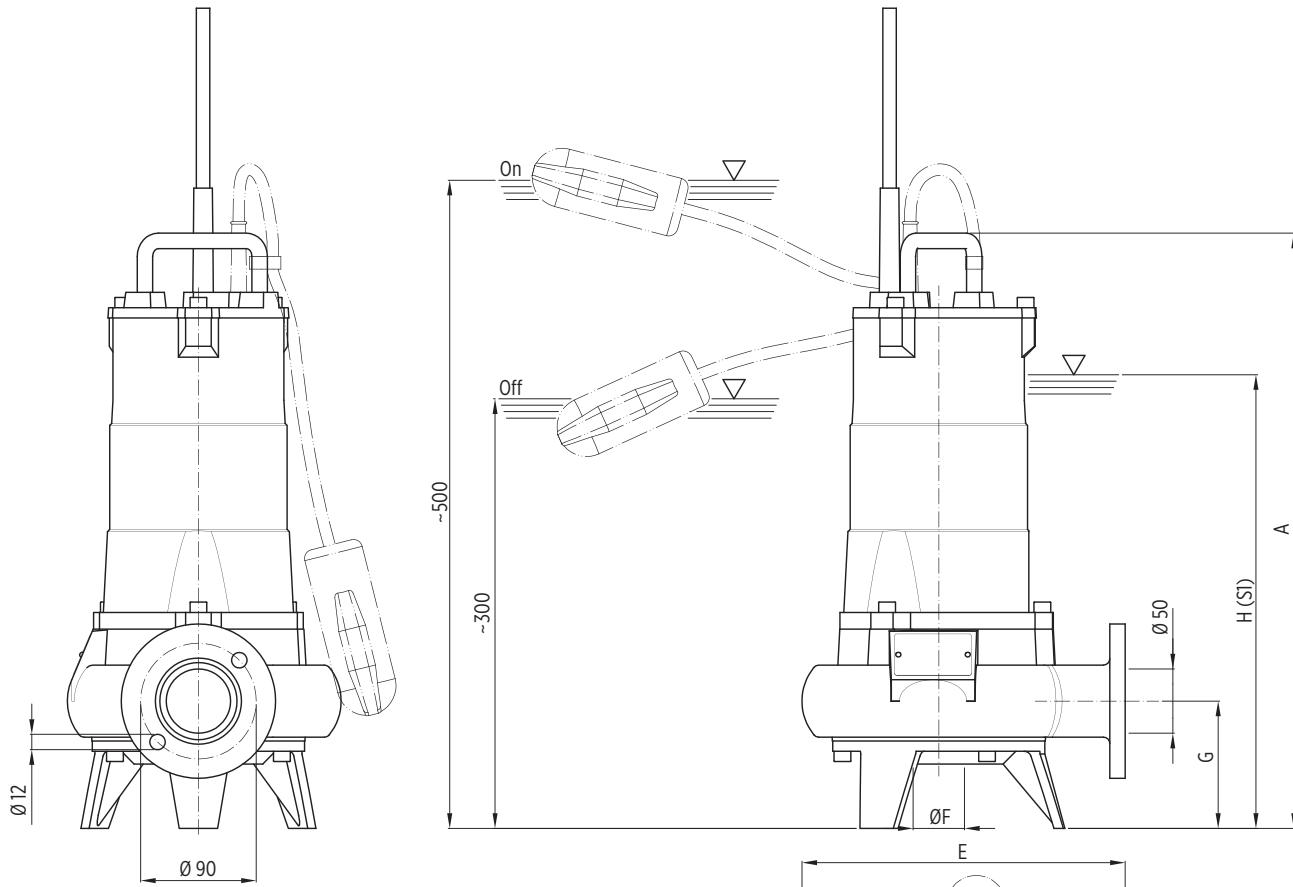
GENERAL FEATURES

		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	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		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 continuos 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		

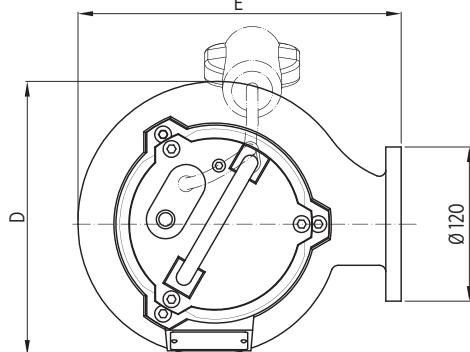
- 60 Hz version
- Different voltages
- Food-grade white oil



DIMENSIONAL DRAWINGS



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



00130279 2/2022

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	0,75	230	5,8	1 ~	10	4G1,5	-	25	G2 (Ø50)	29	
50FWC-V-52-0,9M-G	1,3	0,9	0,75	230	5,8	1 ~	10	4G1,5	•	25	G2 (Ø50)	29	
50FWC-V-52-0,9T	1,3	0,9	0,75	400	2	3 ~	10	4G1,5	-	-	G2 (Ø50)	29	
50FWC-V-52-0,9T-G	1,3	0,9	0,75	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

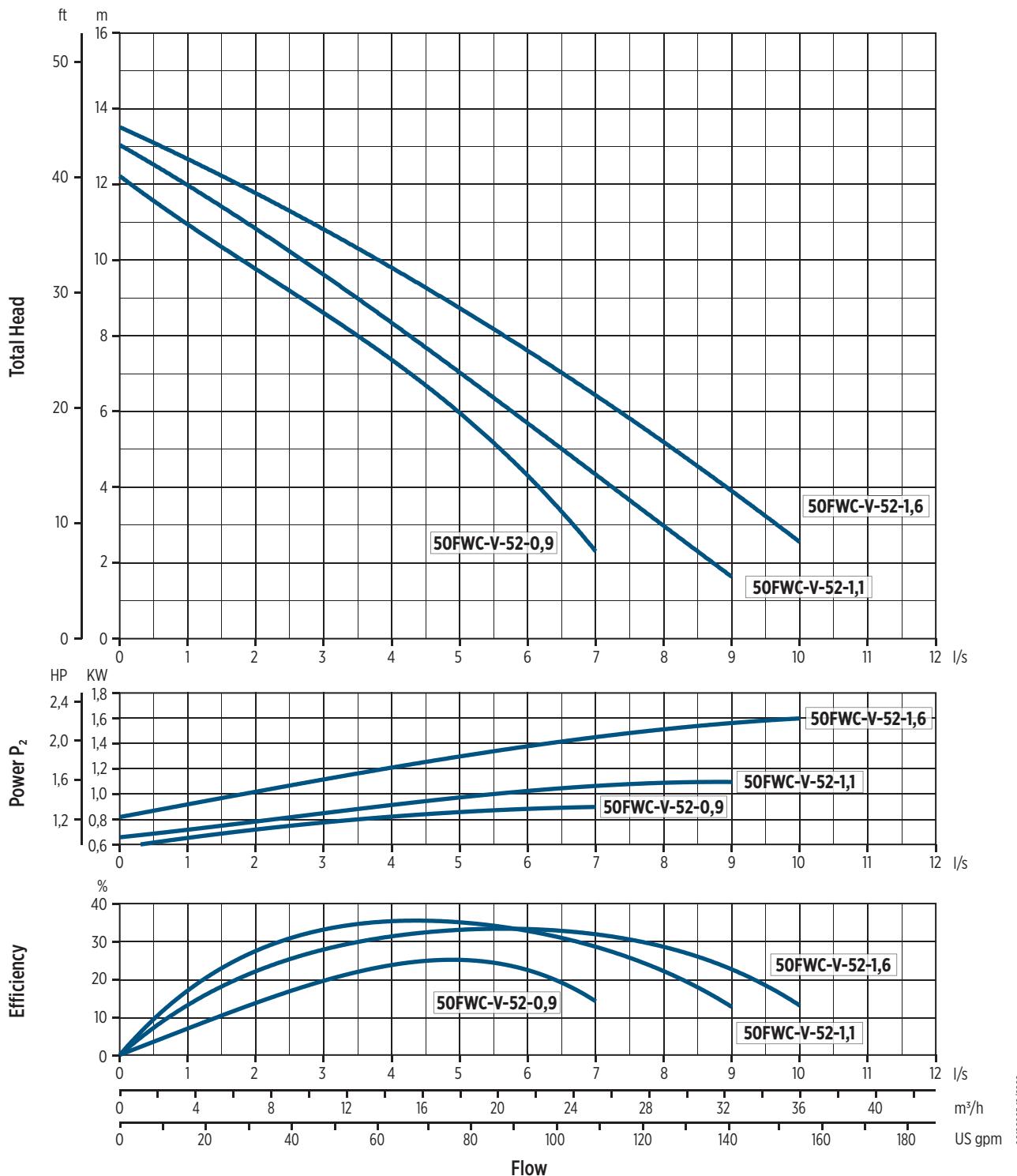
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HYDRAULIC PERFORMANCE AT 50 HZ

Pump model	Phase	Q = Delivery										
		l/sec 0	1	2	3	4	5	6	7	8	9	10
		m ³ /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
50FWC-V-52-0,9	1 ~	H = Total meters head of water column [m]										
	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	
	3 ~	14	12,5	11,5	10,5	9,6	8,7	7,8	6,8	5,5	4	



HYDRAULIC PERFORMANCE AT 50 HZ



0020095 12/2022

The hydraulic characteristics are guaranteed, according to ISO standard 9906:2012, grade 3B



Franklin Electric

INSTALLATION

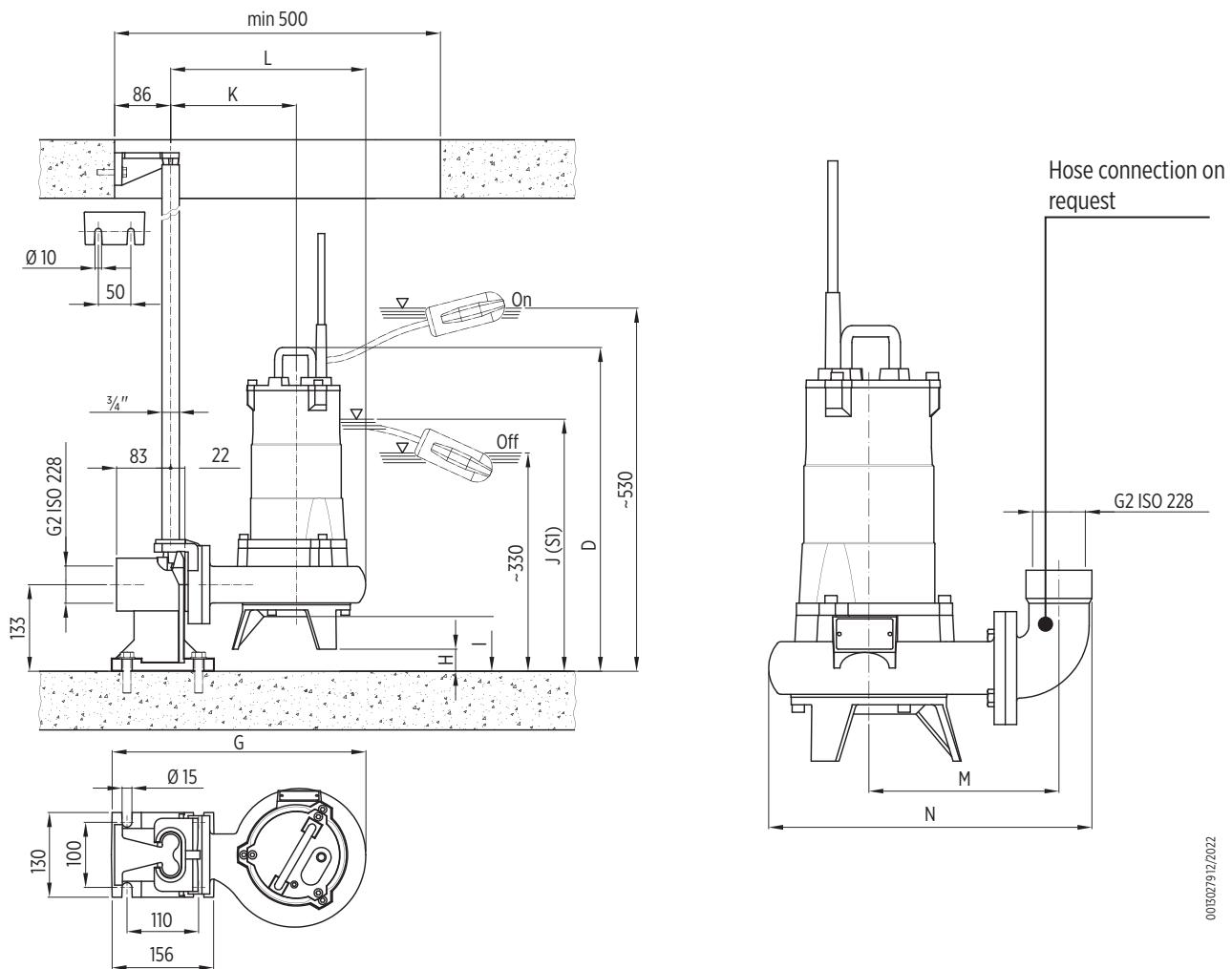
INSTALLATION INSTRUCTIONS

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.



0030279/12/2022

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**

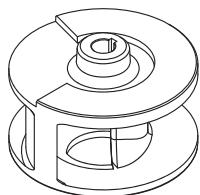
RESIDENTIAL



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.



SINGLE-CHANNEL IMPELLER

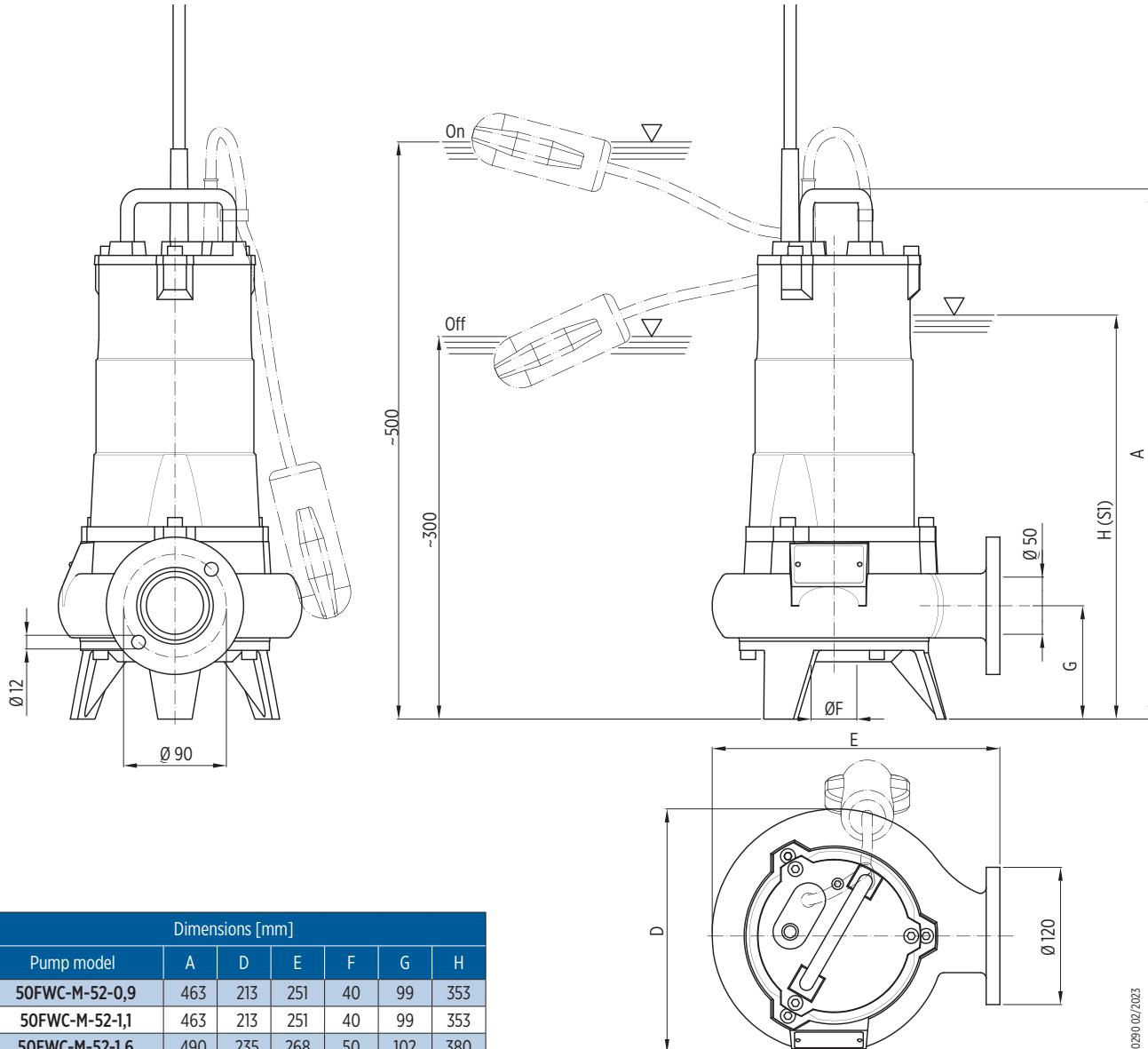
GENERAL FEATURES

		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		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
	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 continuos 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



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	0,75	230	5,8	1 ~	10	4G1,5	-	25	G2 (Ø50)	30	
50FWC-M-52-0,9M-G	1,3	0,9	0,75	230	5,8	1 ~	10	4G1,5	•	25	G2 (Ø50)	30	
50FWC-M-52-0,9T	1,3	0,9	0,75	400	2	3 ~	10	4G1,5	-	-	G2 (Ø50)	30	
50FWC-M-52-0,9T-G	1,3	0,9	0,75	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

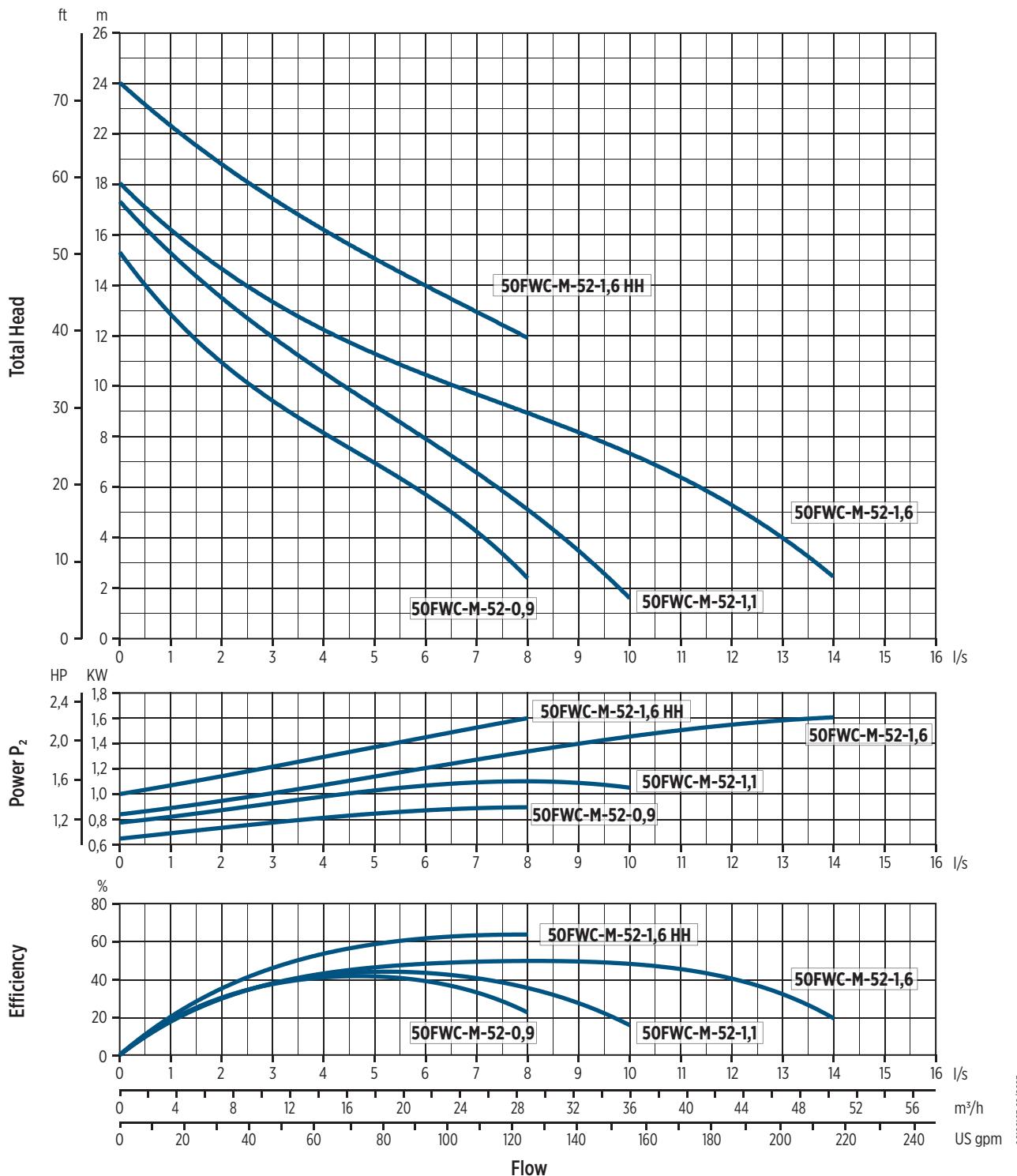
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HYDRAULIC PERFORMANCE AT 50 Hz

Pump model	Phase	Q = Delivery													
		I/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	
	3 ~	19	17	15,5	14	13	12	11	10	9,4	8,6	7,7	5,8	4,2	
	3 ~ HH	24	22	20,5	19	17,5	16,5	15,2	14	13					



HYDRAULIC PERFORMANCE AT 50 Hz



The hydraulic characteristics are guaranteed, according to ISO standard 9906:2012, grade 3B



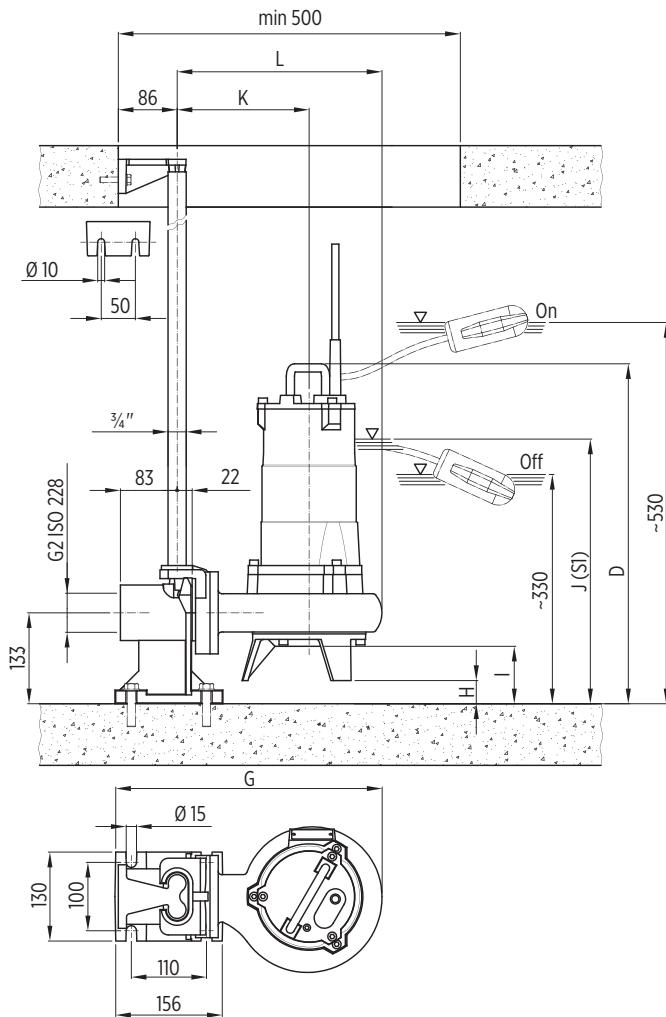
Franklin Electric

INSTALLATION

INSTALLATION INSTRUCTIONS

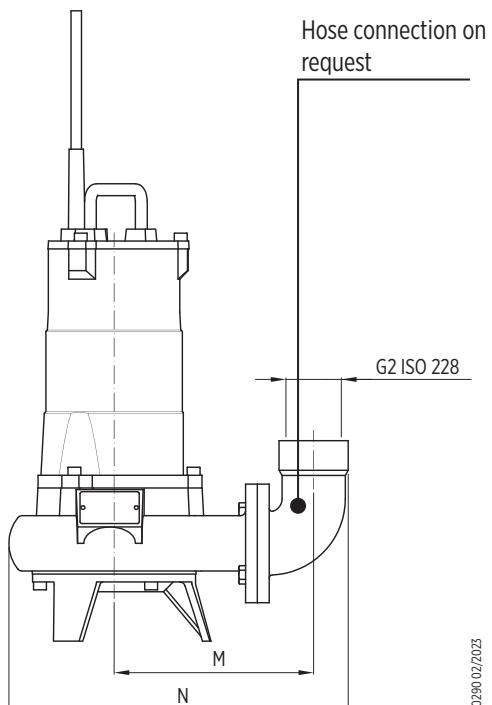
PERMANENT INSTALLATION WITH COUPLING SYSTEM

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

RESIDENTIAL

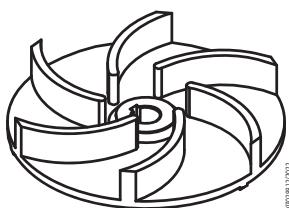


COMMERCIAL



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.



VORTEX IMPELLER

003908/12/2022

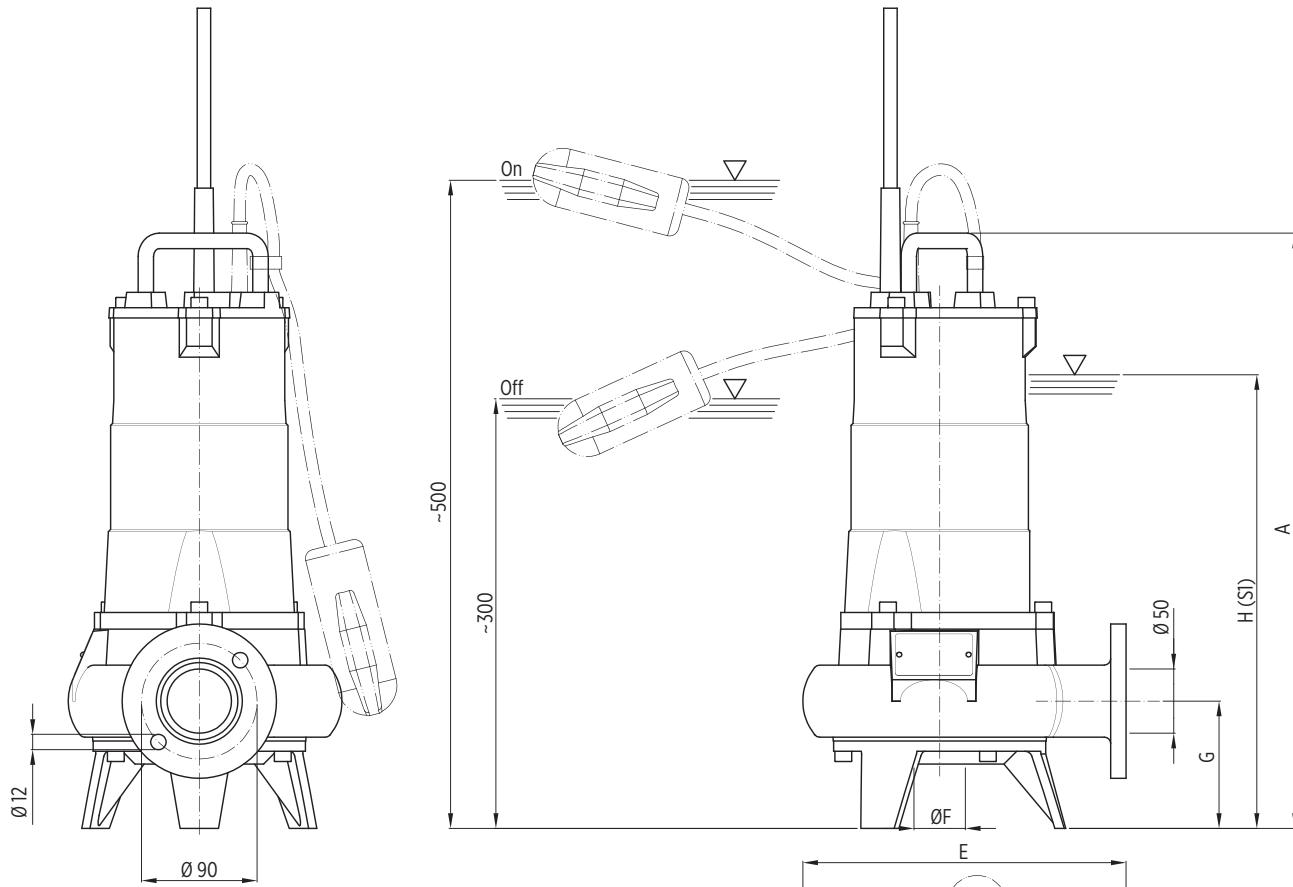
GENERAL FEATURES

		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)
	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
	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 continuos service		
50FWC-V-54-0,75M/T		353 mm
50FWC-V-54-1,5M/T		380 mm
Free passage	50FWC-V-54-0,75M/T	40 mm
	50FWC-V-54-1,5M/T	50 mm
Max. number of starting/hour		20
		Construction options

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

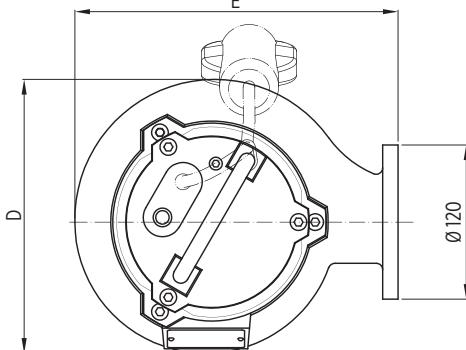


DIMENSIONAL DRAWINGS



Dimensions [mm]						
Pump model	A	D	E	F	G	H
50FWC-V-54-0,75	463	213	251	40	99	353
50FWC-V-54-1,5	490	235	268	50	102	380

Packaging		
Pump model	Dimensions [mm]	Weight [kg]
50FWC-V-54-0,75	290x245x585	30
50FWC-V-54-1,5	300x260x585	34



00130280 02/2022

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-54-1,5M	1,5	1,1	1,5	230	7,7	1 ~	10	4G1,5	-	20	G2 (Ø50)	33	
50FWC-V-54-1,5M-G	1,5	1,1	1,5	230	7,7	1 ~	10	4G1,5	•	20	G2 (Ø50)	33	
50FWC-V-54-1,5T	1,5	1,1	1,5	400	2,8	3 ~	10	4G1,5	-	-	G2 (Ø50)	33	
50FWC-V-54-1,5T-G	1,5	1,1	1,5	400	2,8	3 ~	10	4G1,5	•	-	G2 (Ø50)	33	

“-” = not available

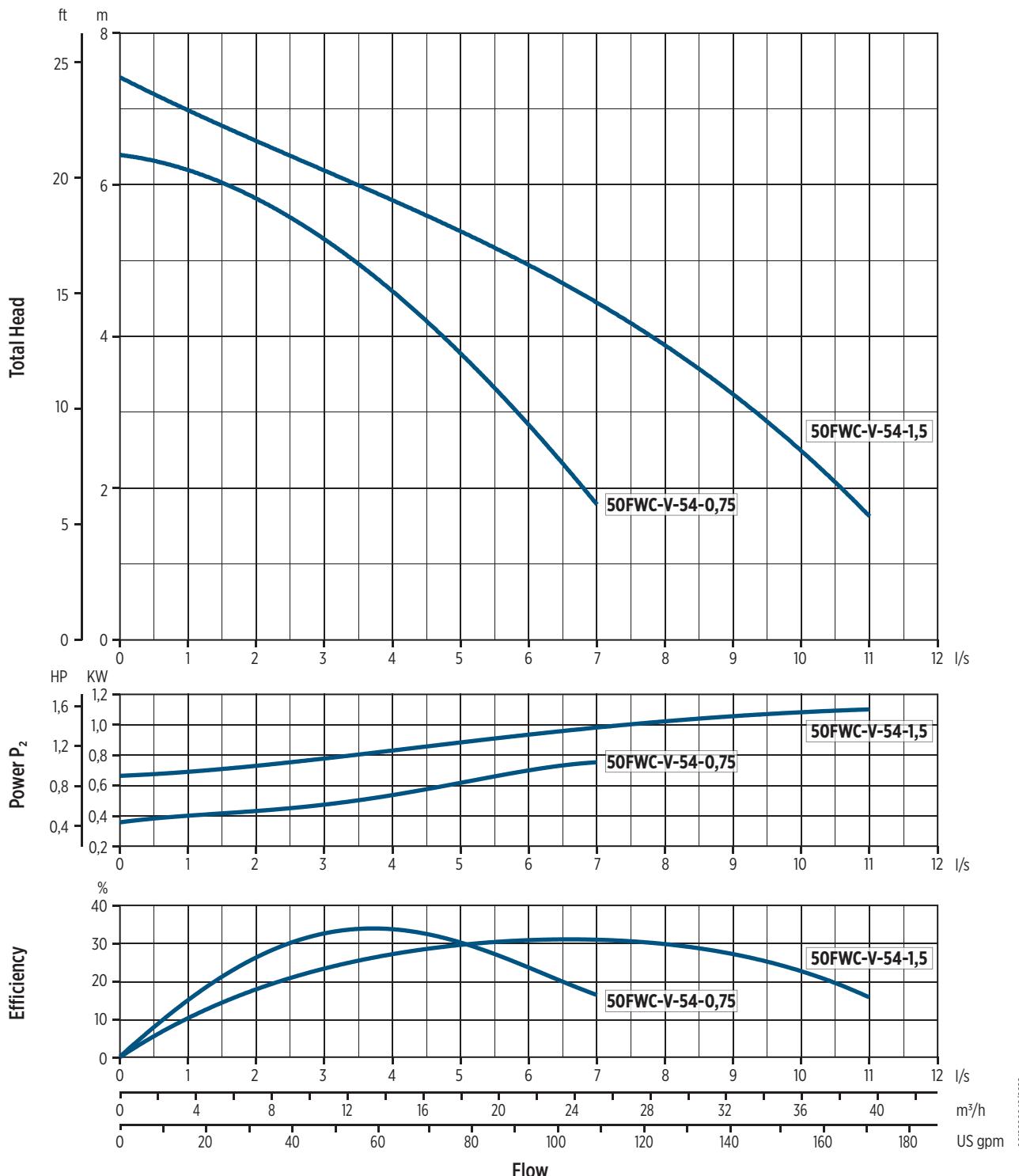
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HYDRAULIC PERFORMANCE AT 50 Hz

Pump model	Phase	Q = Delivery											
		l/sec 0	1	2	3	4	5	6	7	8	9	10	11
		m ³ /h 0	3,6	7,2	10,8	14,4	18	21,6	25,2	28,8	32,4	36	39,6
50FWC-V-54-0,75	1 ~	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
	3 ~	6,4	6,2	5,8	5,3	4,6	3,8	2,8	1,8				
50FWC-V-54-1,5	1 ~	6,4	6,2	5,8	5,3	4,6	3,8	2,8	1,8				
	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



The hydraulic characteristics are guaranteed, according to ISO standard 9906:2012, grade 3B



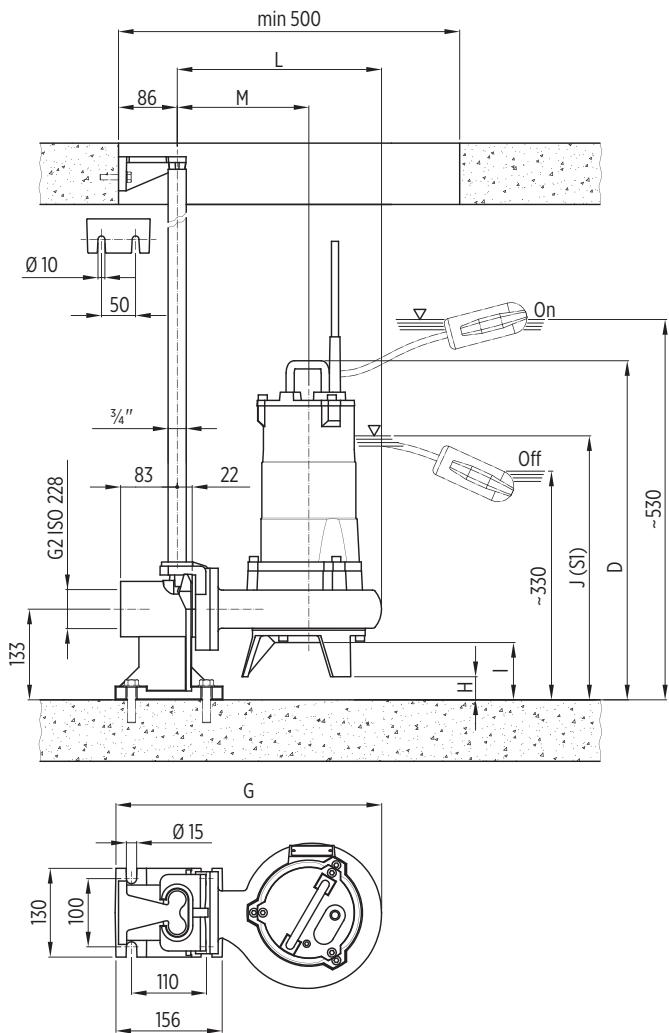
Franklin Electric

INSTALLATION

INSTALLATION INSTRUCTIONS

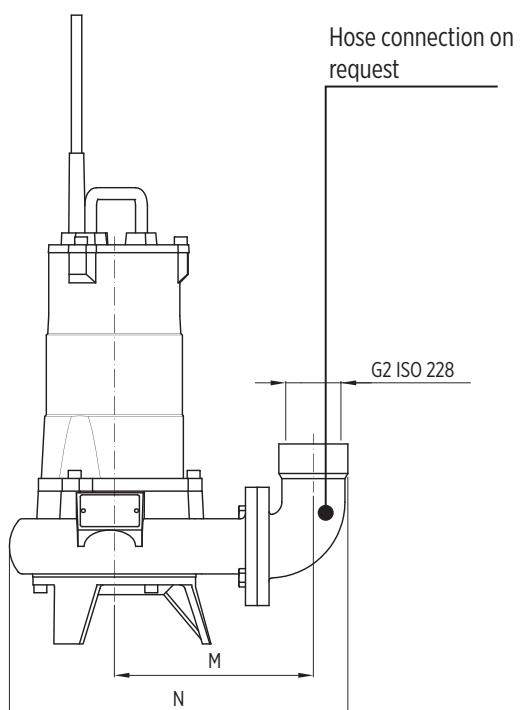
PERMANENT INSTALLATION WITH COUPLING SYSTEM

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.



00130280/12/2022

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-54-1,5	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



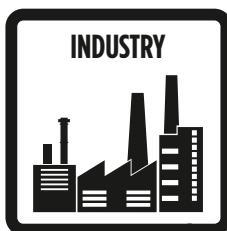
MARKETS



RESIDENTIAL



COMMERCIAL



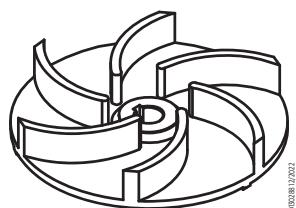
INDUSTRY



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.



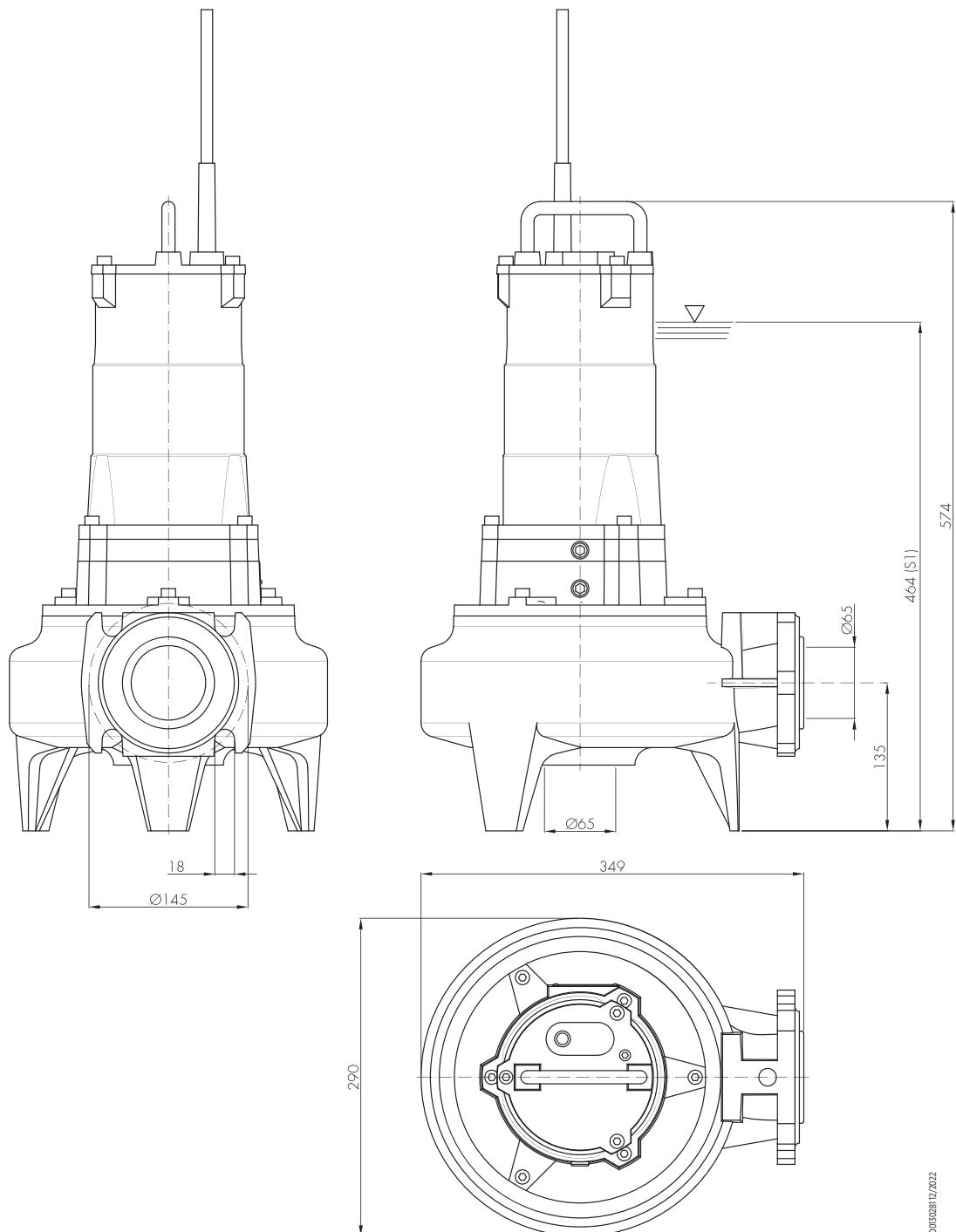
VORTEX IMPELLER

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 continuos service		464 mm
Free passage		65 mm
Max. number of starting/hour		20
Construction options		
<ul style="list-style-type: none"> ■ 60 Hz version ■ Different voltages ■ Food-grade white oil 		



DIMENSIONAL DRAWINGS



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

“-” = not available

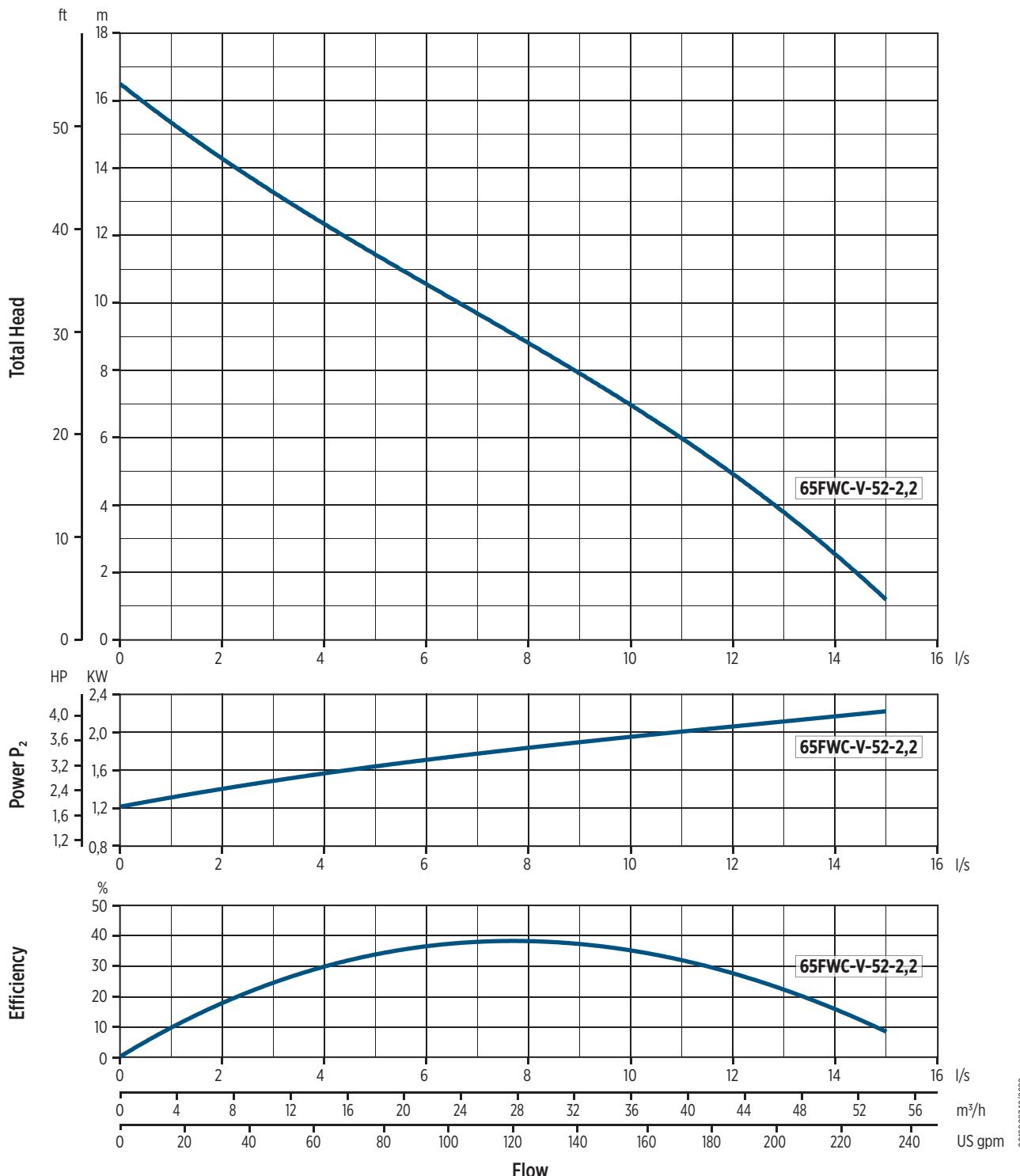
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HYDRAULIC PERFORMANCE AT 50 HZ

Pump model	Phase	Q = Delivery										
		l/sec 0	4	6	8	9	10	11	12	13	14	15
		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
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

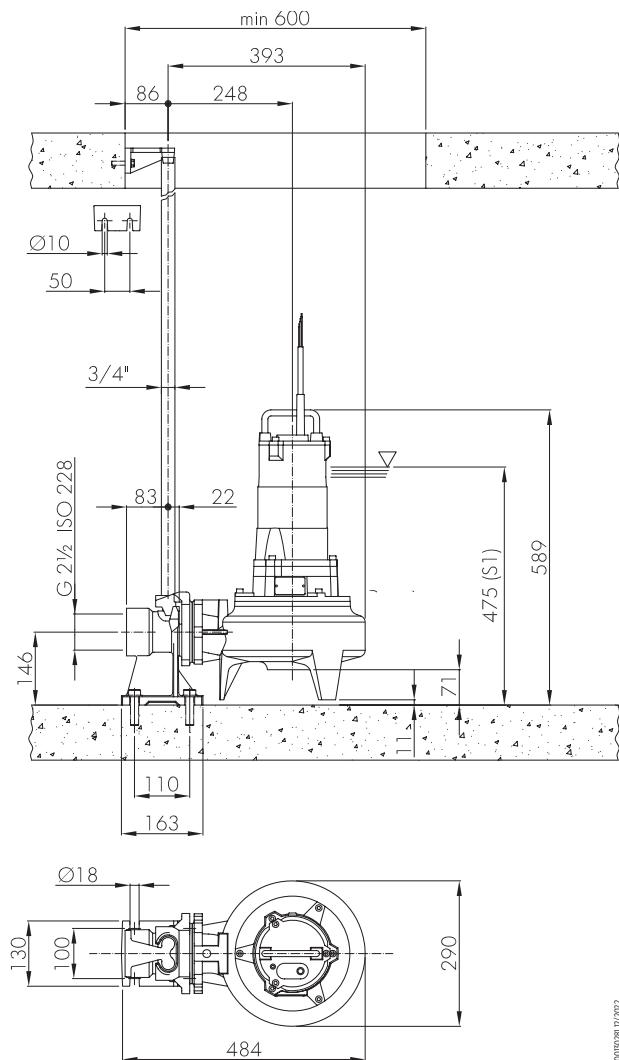


INSTALLATION

INSTALLATION INSTRUCTIONS

PERMANENT INSTALLATION WITH COUPLING SYSTEM

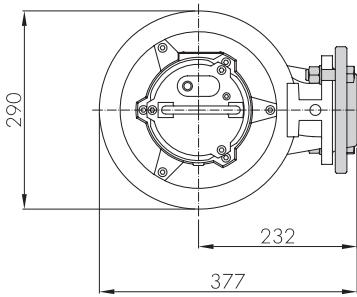
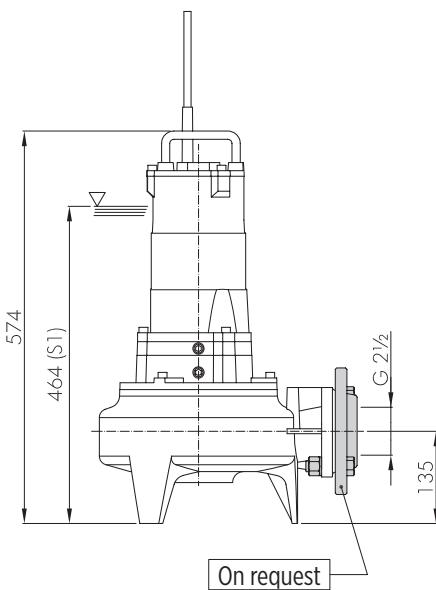
It is the recommended installation for the permanent pumping station. The electric pump is guided by two pipes and it is connected automatically to the coupling system. The quick connection ensures that the pump can be easily removed and re-installed.



0039281 07/2022

TRANSPORTABLE INSTALLATION

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



0039281 07/2022

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



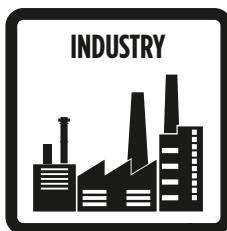
MARKETS



RESIDENTIAL



COMMERCIAL



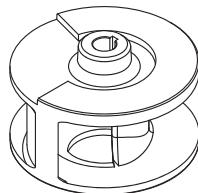
INDUSTRY



AGRICULTURE

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

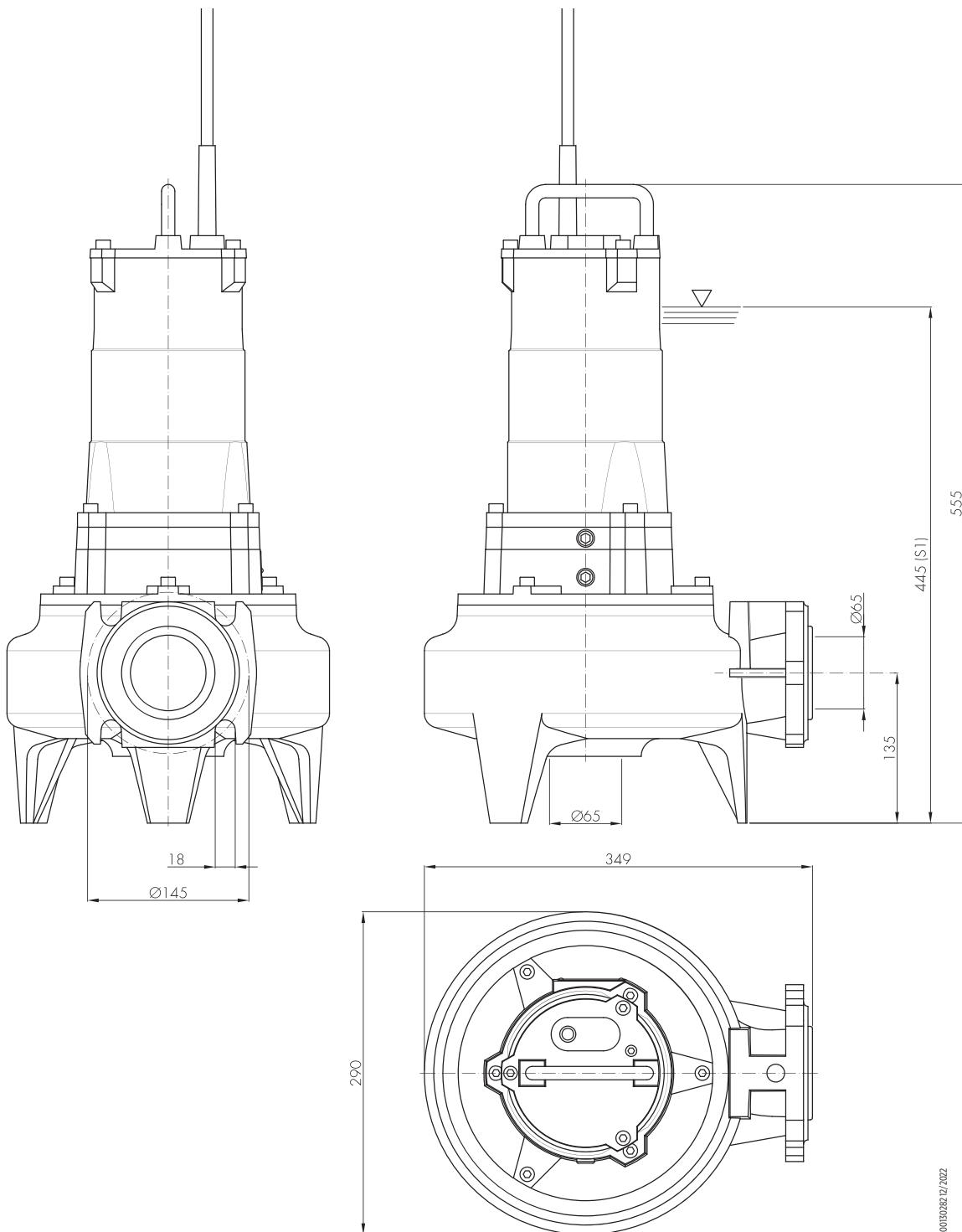
001081712022

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		+40 °C
pH of pumped liquid		6 - 10
Liquid density		1,0 kg/dm ³
Maximum immersion depth:		5 m
Min. immersion depth for continuos service		445 mm
Free passage		50 mm
Max. number of starting/hour		20
Construction options		
<ul style="list-style-type: none"> ■ 60 Hz version ■ Different voltages ■ Food-grade white oil 		



DIMENSIONAL DRAWINGS



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		[μ F]		
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

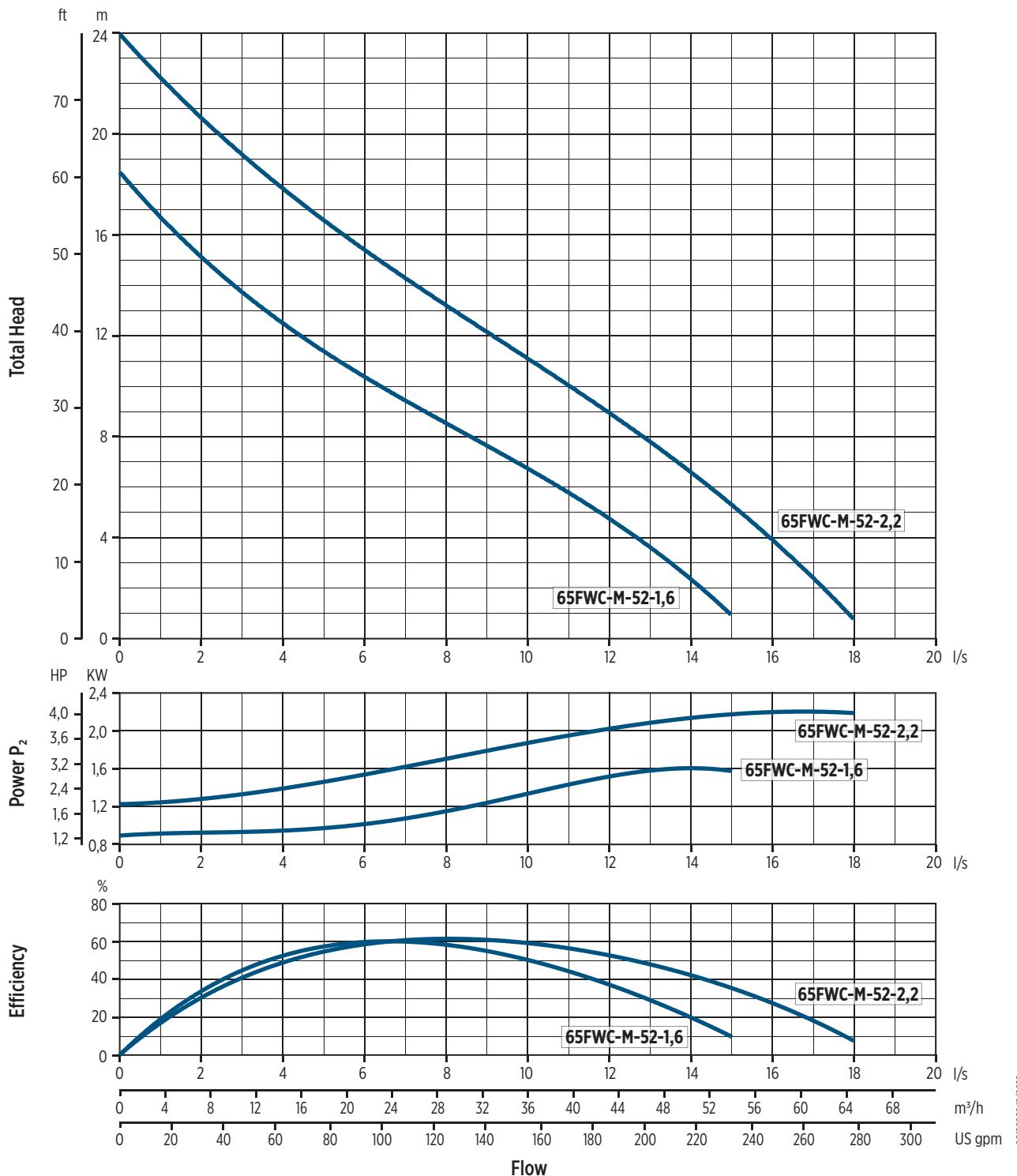
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HYDRAULIC PERFORMANCE AT 50 Hz

Pump model	Phase	Q = Delivery											
		l/sec 0	4	6	8	9	10	11	12	13	14	15	16
		m³/h 0	14,4	21,6	28,8	32,4	36	39,6	43,2	46,8	50,4	54	57,6
		US gpm 0	63,4	92,1	126,8	142,6	158,5	174,3	190,2	206	221,9	237,7	253,6
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

The hydraulic characteristics are guaranteed, according to ISO standard 9906:2012, grade 3B



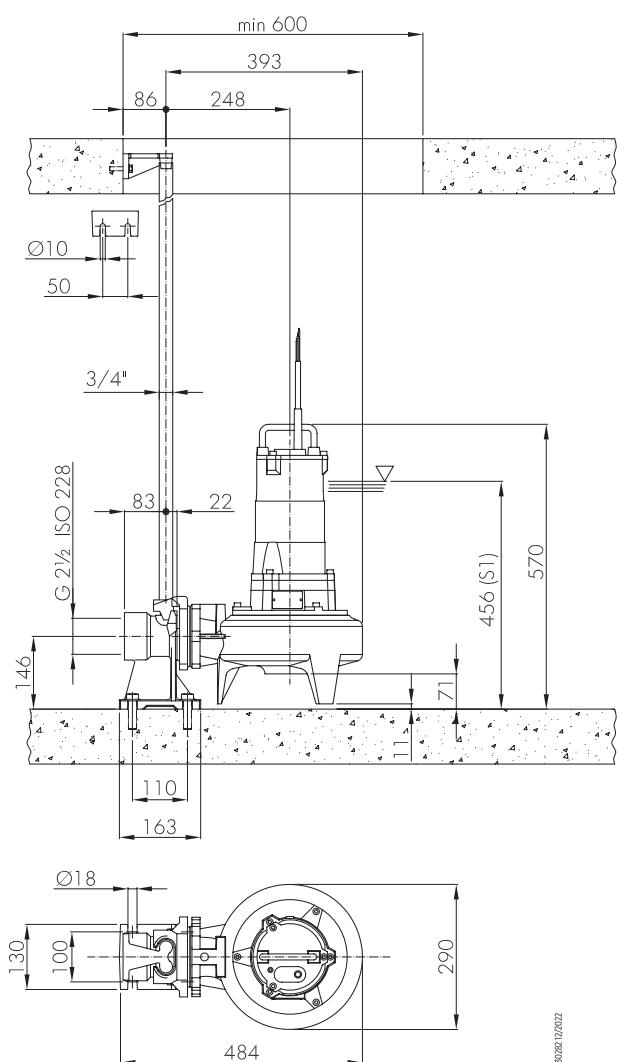
Franklin Electric

INSTALLATION

INSTALLATION INSTRUCTIONS

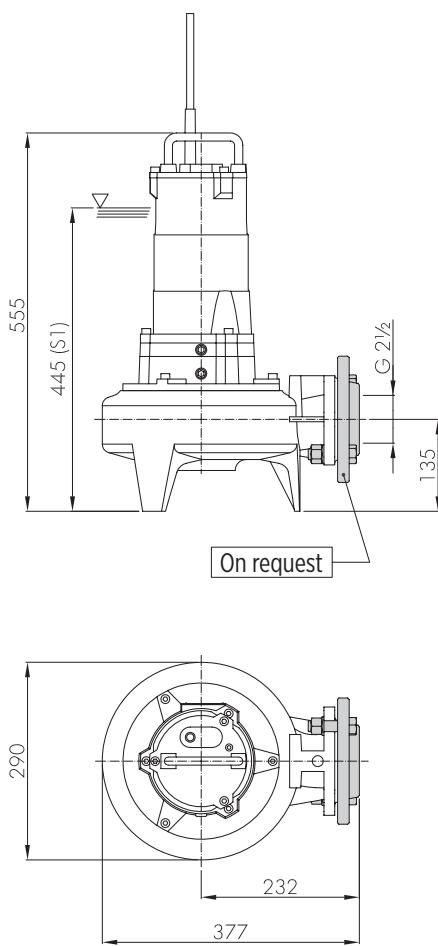
PERMANENT INSTALLATION WITH COUPLING SYSTEM

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.



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



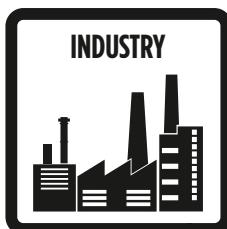
MARKETS



RESIDENTIAL



COMMERCIAL



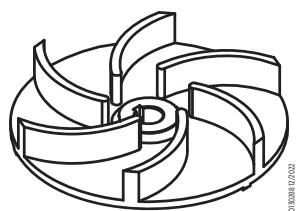
INDUSTRY



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

0010308 02/2022

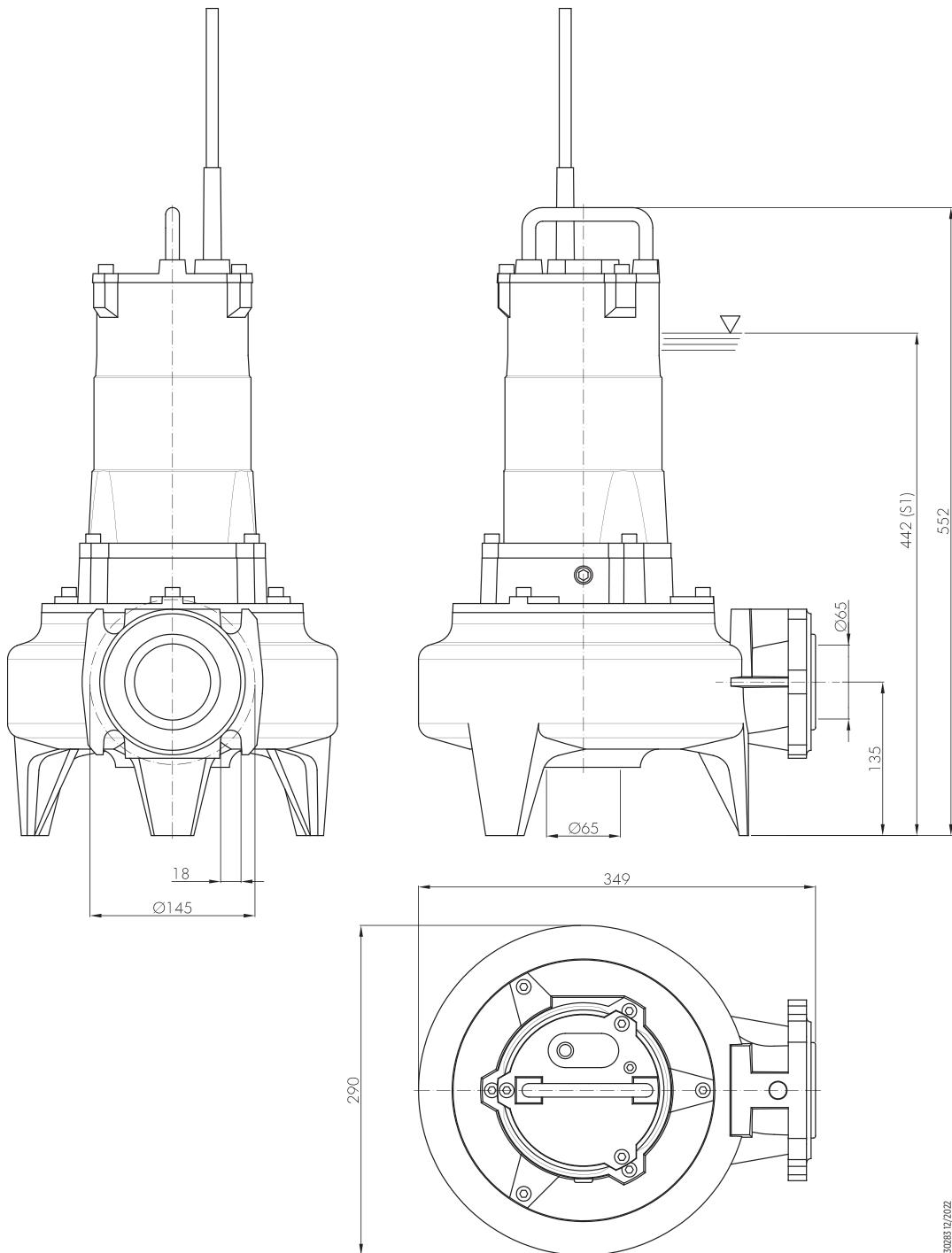
GENERAL FEATURES

		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 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
	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 continuos 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



001502033 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

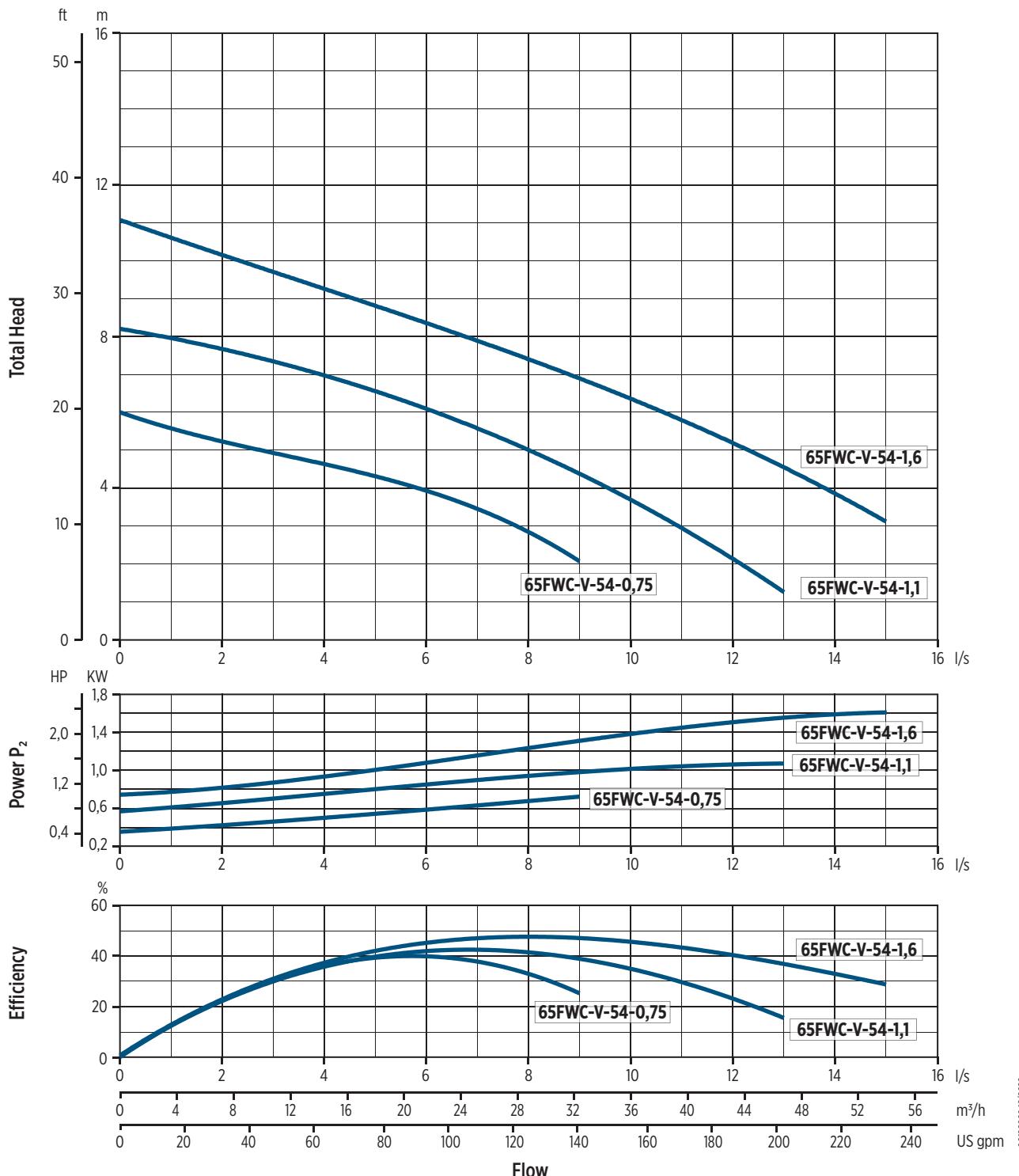
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HYDRAULIC PERFORMANCE AT 50 Hz

Pump model	Phase	Q = Delivery										
		I/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	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



The hydraulic characteristics are guaranteed, according to ISO standard 9906:2012, grade 3B



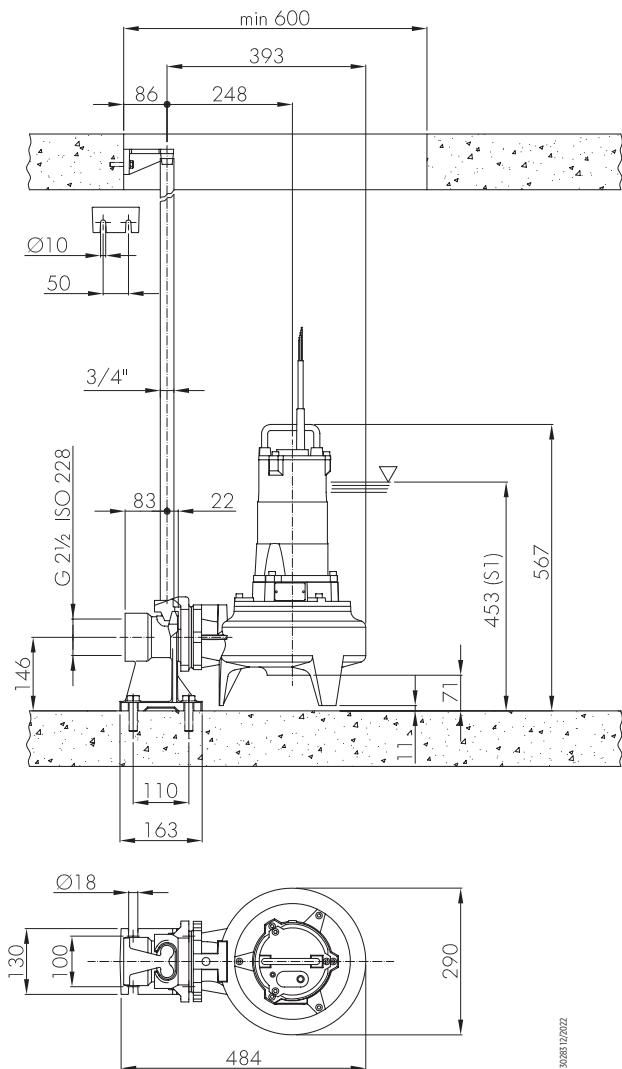
Franklin Electric

INSTALLATION

INSTALLATION INSTRUCTIONS

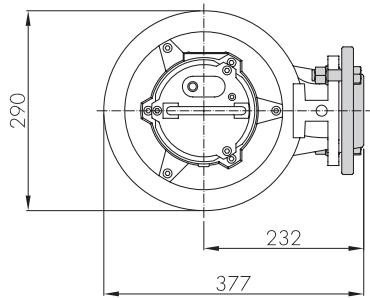
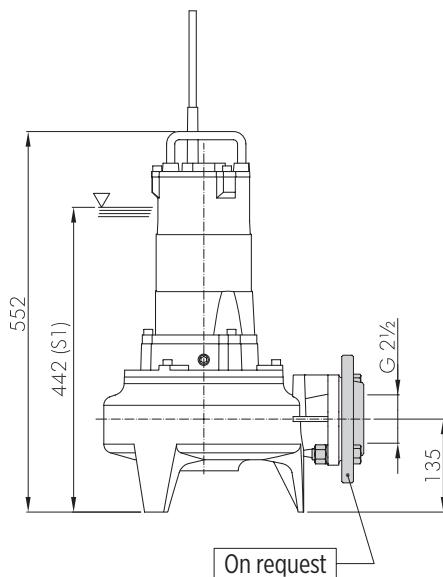
PERMANENT INSTALLATION WITH COUPLING SYSTEM

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.



0035028312/2022

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



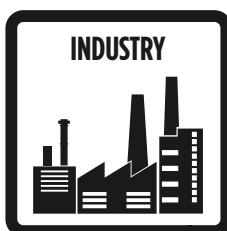
MARKETS



RESIDENTIAL



COMMERCIAL



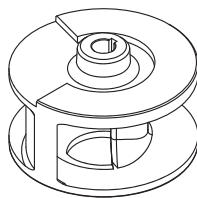
INDUSTRY



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.



SINGLE-CHANNEL IMPELLER

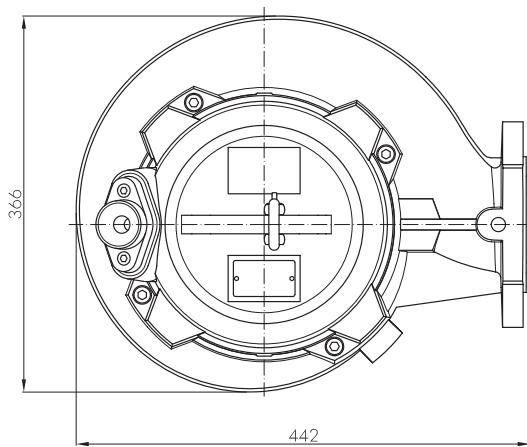
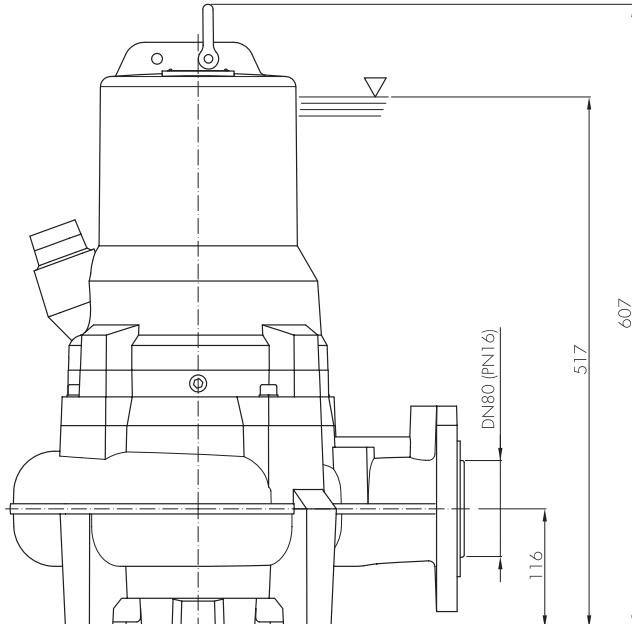
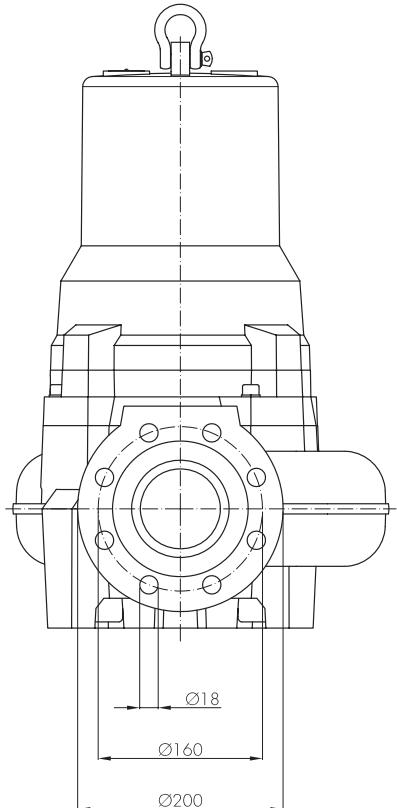
GENERAL FEATURES

		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	motor side	Graphite/Alumina
	pump side	Silicon carbide (SiC/SiC)
Motor shaft		Stainless steel AISI420
Power cable	Type	10 m SIRN8-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 continuos 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 [kW]	Rated power P ₂		Voltage [V]	Rated current [A]	Phase	Power cable		float switch	Delivery port	Weight [kg]
		[kW]	[HP]				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

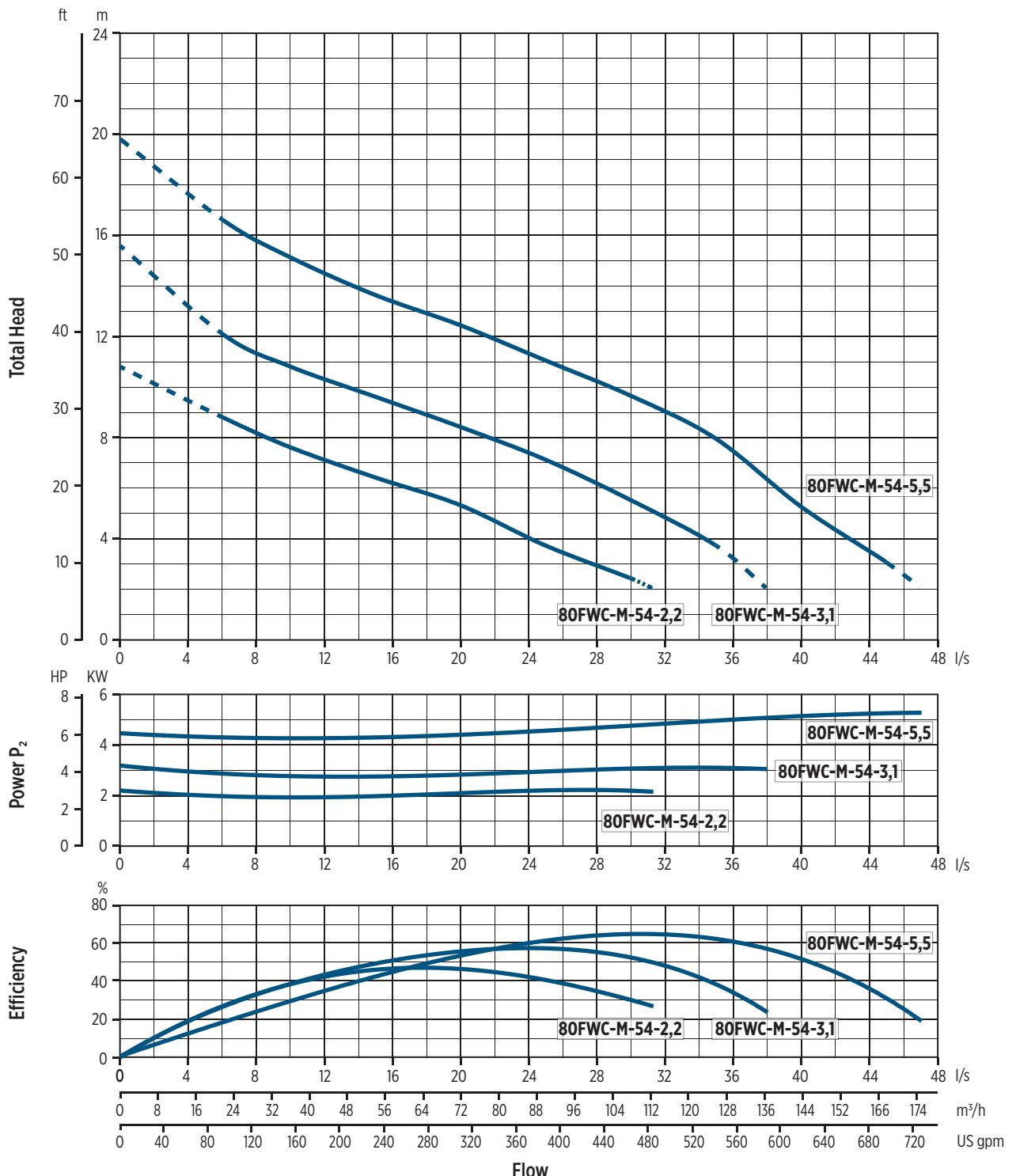
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HYDRAULIC PERFORMANCE AT 50 HZ

Pump model	Phase	Q = Delivery											
		l/sec 0	6	10	15	20	25	30	35	38	40	42,8	45
		m ³ /h 0	21,6	36	54	72	90	108	126	136,8	144	154,1	162
		US gpm 0	92,1	158,5	237,7	317	396,2	475,5	554,8	602,3	634	678,4	713,3
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



The hydraulic characteristics are guaranteed, according to ISO standard 9906:2012, grade 3B



Franklin Electric

INSTALLATION

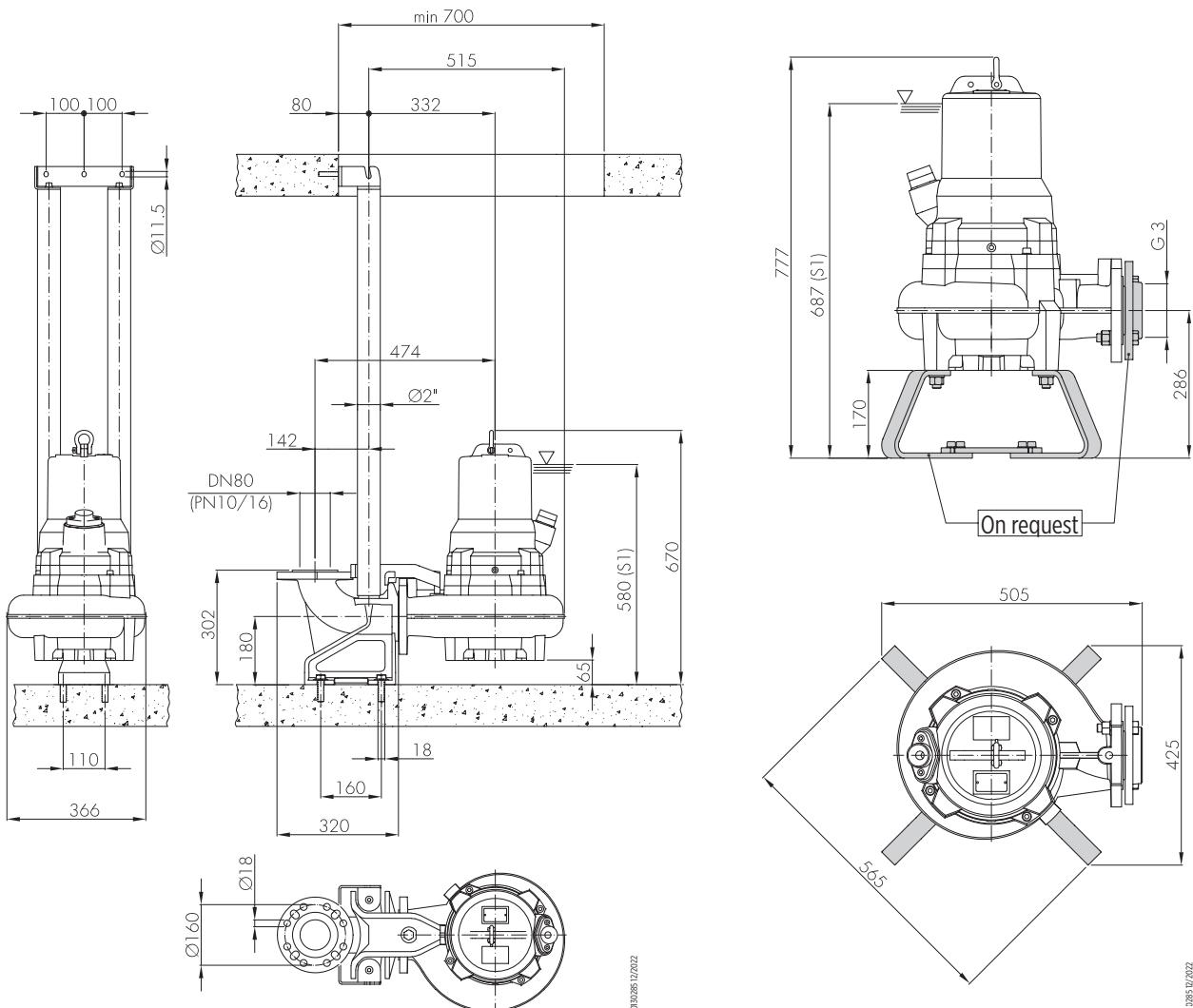
INSTALLATION INSTRUCTIONS

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



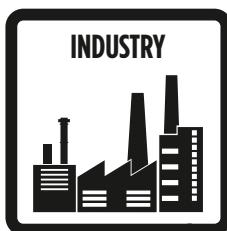
MARKETS



RESIDENTIAL



COMMERCIAL



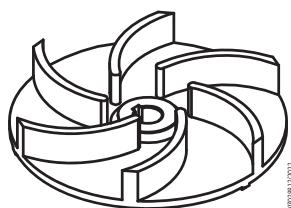
INDUSTRY



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.



003908/02/2022

VORTEX IMPELLER

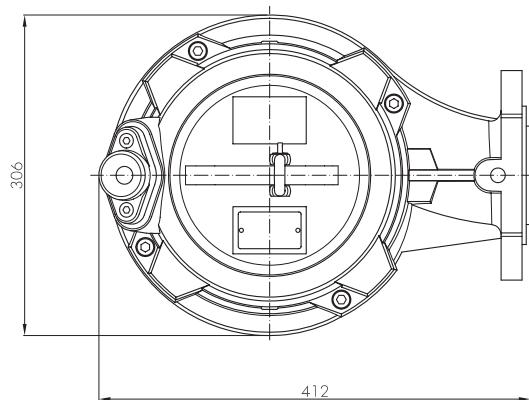
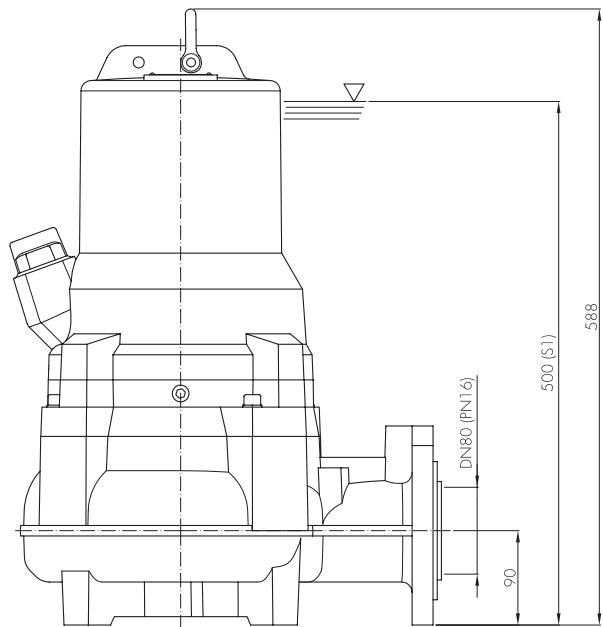
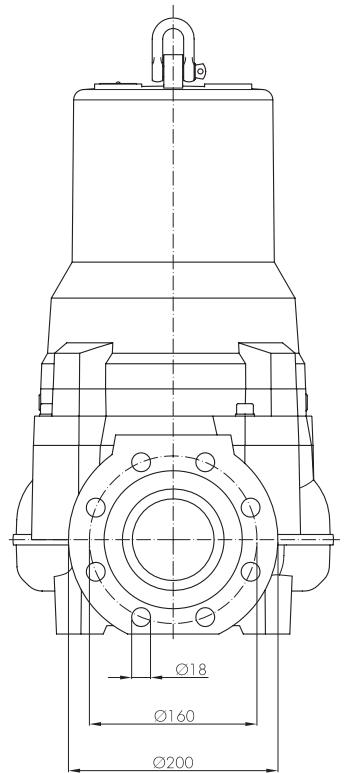
GENERAL FEATURES

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	motor side	Graphite/Alumina
	pump side	Silicon carbide (SiC/SiC)
Motor shaft		Stainless steel AISI420
Power cable	Type 80FWC-V-54-1,6T, 80FWC-V-54-2,2T, 80FWC-V-54-3,1T 80FWC-V-54-5,5T	10 m S1RN8-F type 4G1,5+3x1mm ² 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 continuos service		500 mm
Free passage		80 mm
Max. number of starting/hour		20
Construction options		

- 60 Hz version
- Different voltages



DIMENSIONAL DRAWINGS



00939284 12/2022

Packaging		
Pump model	Dimensions [mm]	Weight [kg]
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

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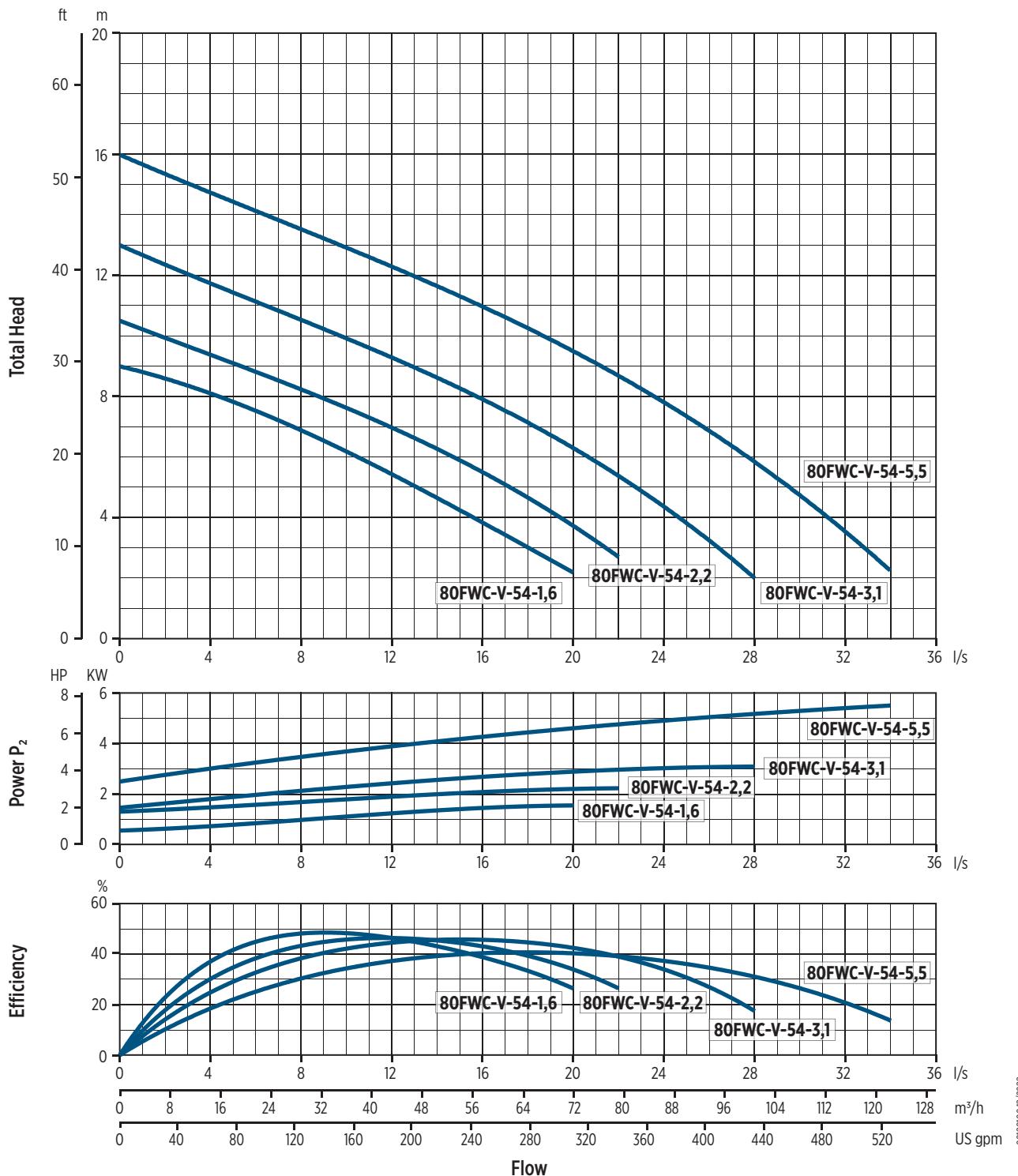
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HYDRAULIC PERFORMANCE AT 50 HZ

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



The hydraulic characteristics are guaranteed, according to ISO standard 9906:2012, grade 3B



Franklin Electric

INSTALLATION

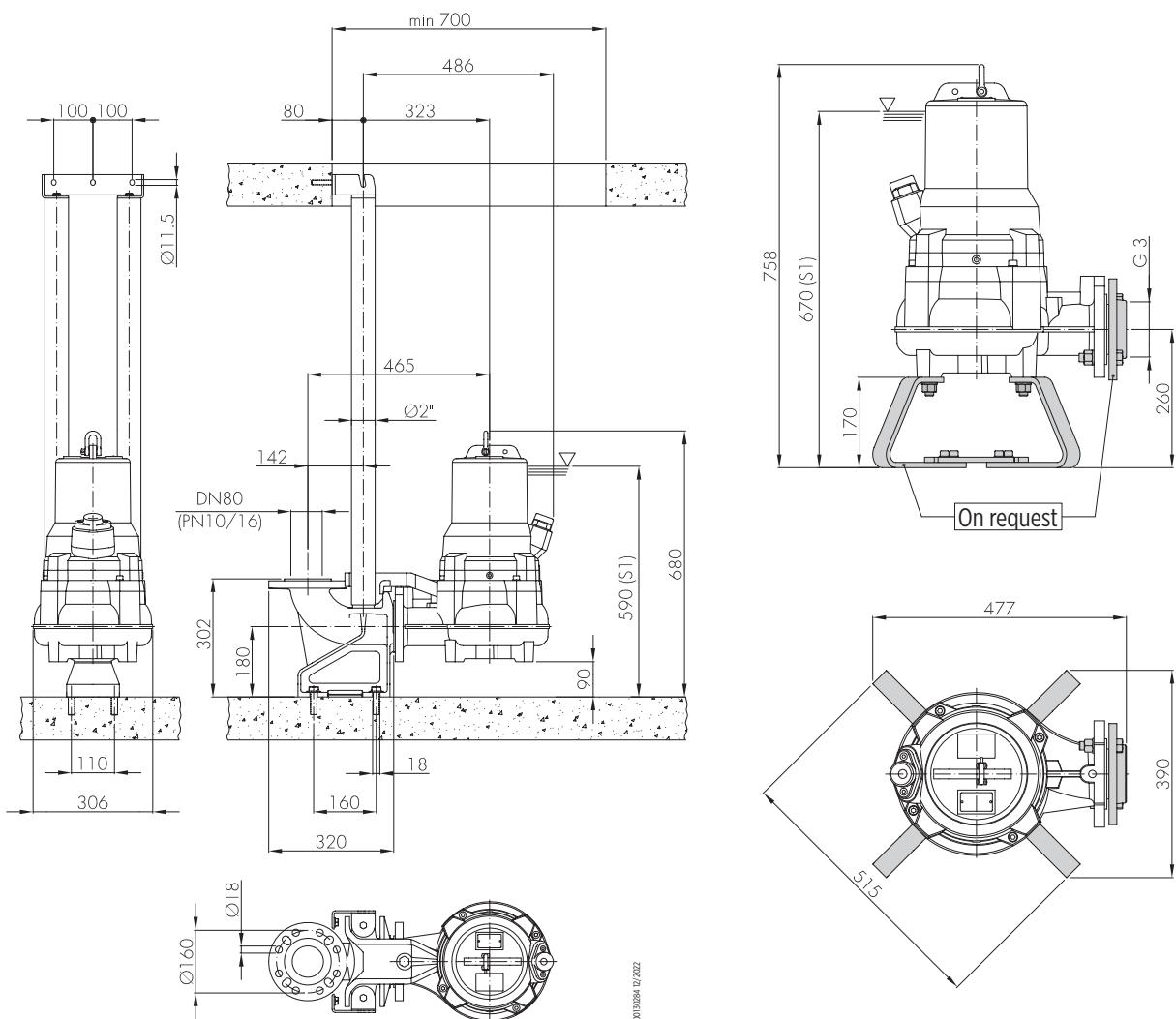
INSTALLATION INSTRUCTIONS

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



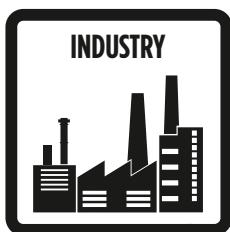
MARKETS



RESIDENTIAL



COMMERCIAL



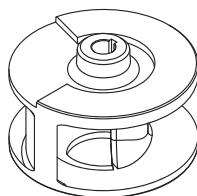
INDUSTRY



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.



SINGLE-CHANNEL IMPELLER

0010811071202

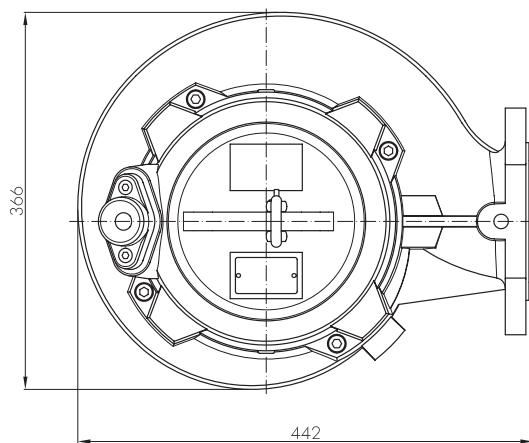
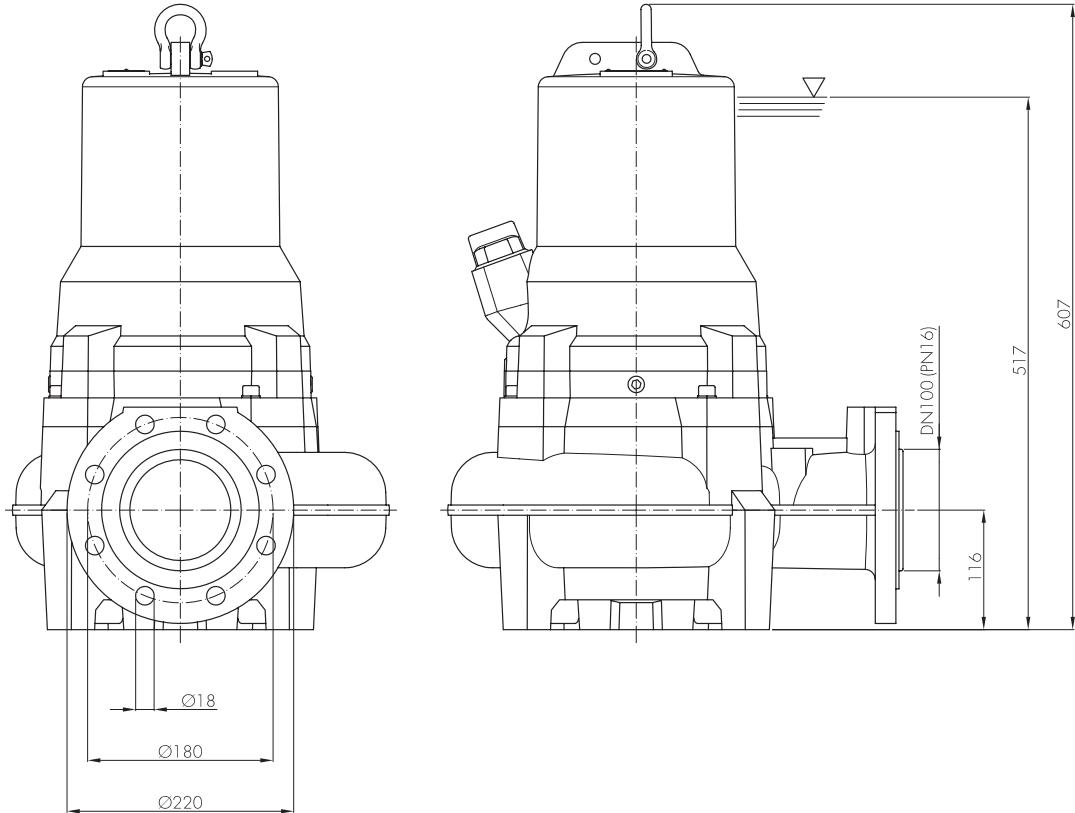
GENERAL FEATURES

		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	motor side	Graphite/Alumina
	pump side	Silicon carbide (SiC/SiC)
Motor shaft		Stainless steel AISI420
Power cable	Type	10 m SIRN8-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 continuos service		517 mm
Free passage		80 mm
Max. number of starting/hour		20
Construction options		

- 60 Hz version
- Different voltages



DIMENSIONAL DRAWINGS



00930286 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

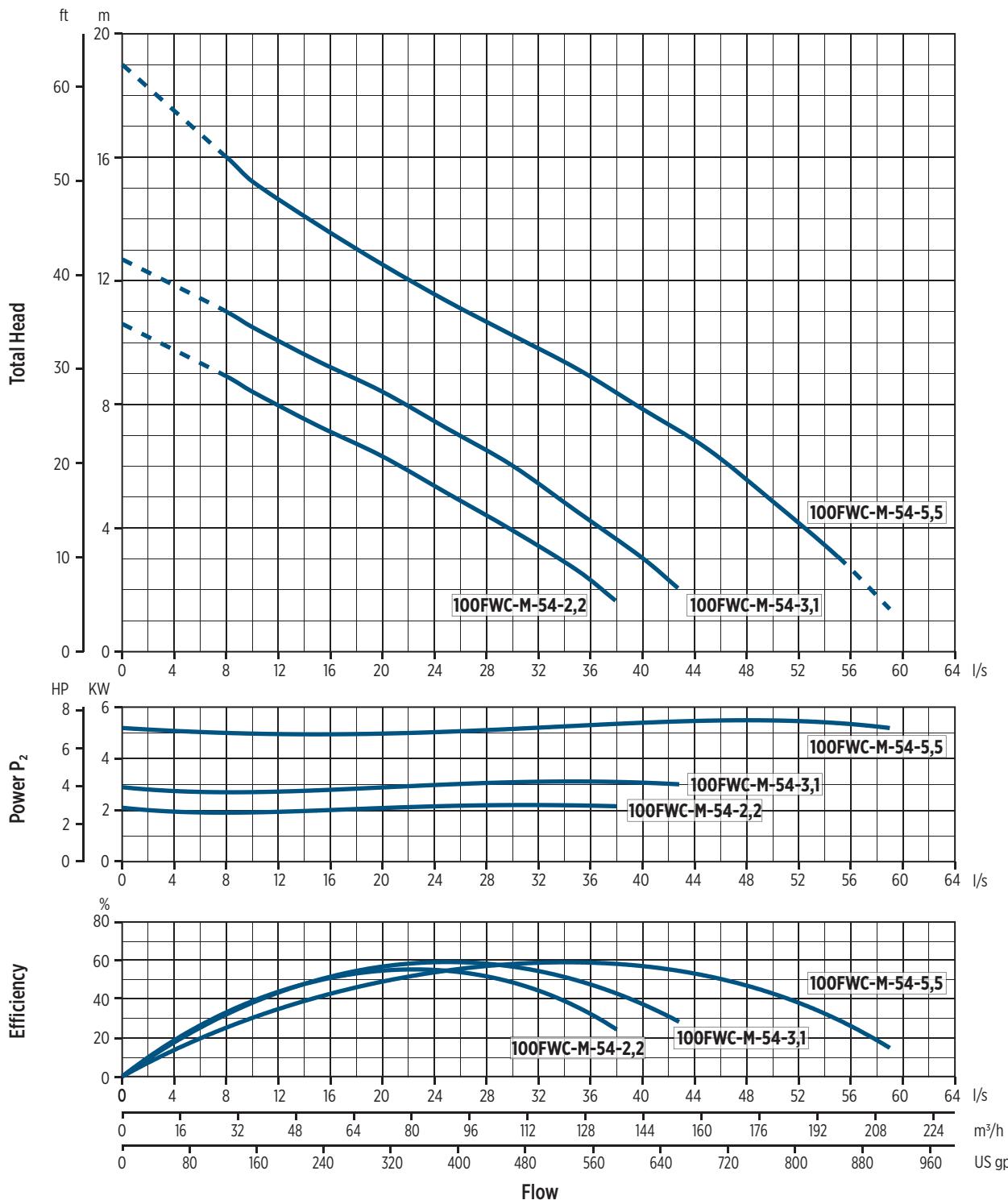
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HYDRAULIC PERFORMANCE AT 50 HZ

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



00/20/02 12/2022

The hydraulic characteristics are guaranteed, according to ISO standard 9906:2012, grade 3B



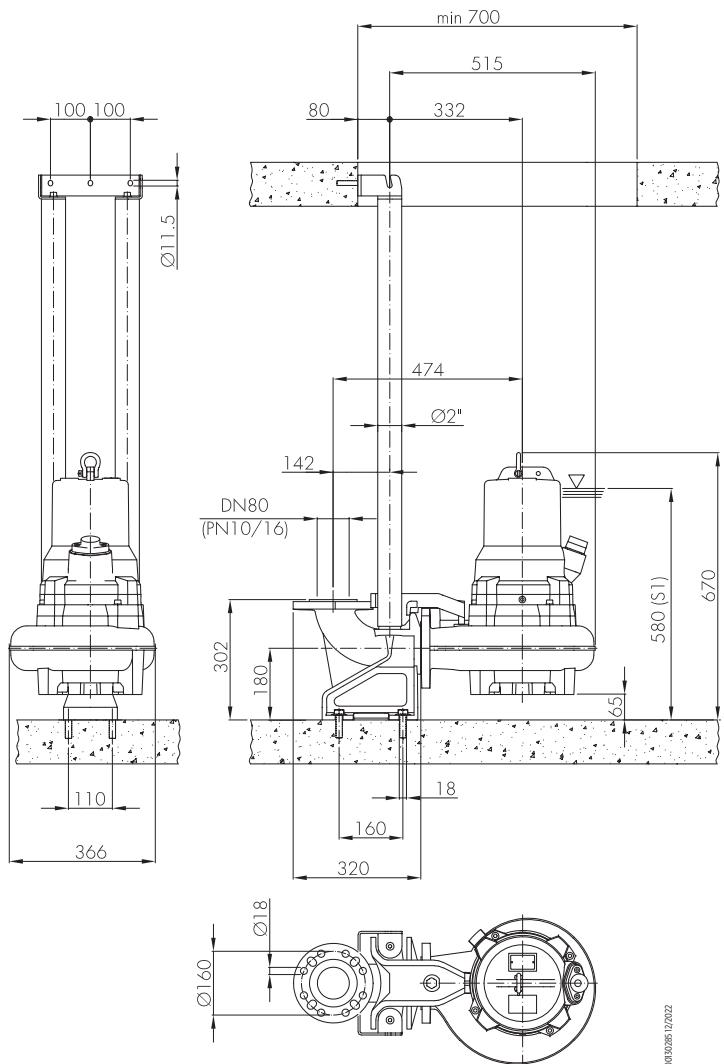
Franklin Electric

INSTALLATION

INSTALLATION INSTRUCTIONS

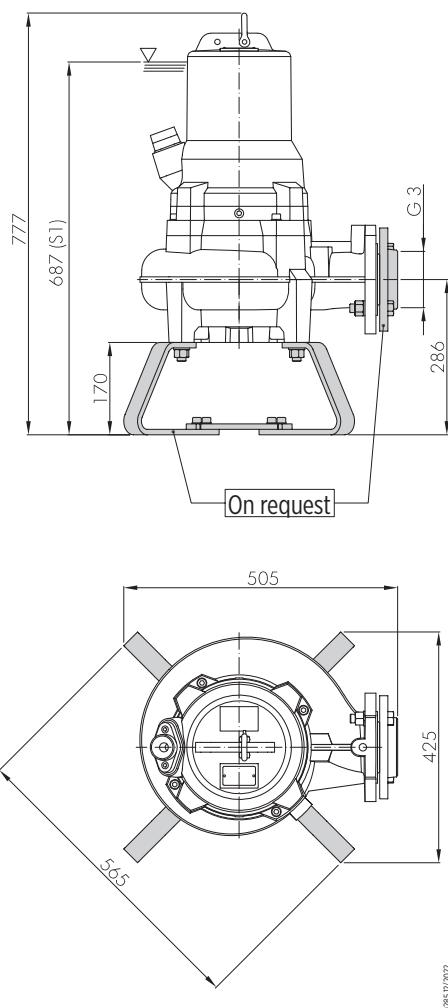
PERMANENT INSTALLATION WITH COUPLING SYSTEM

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.

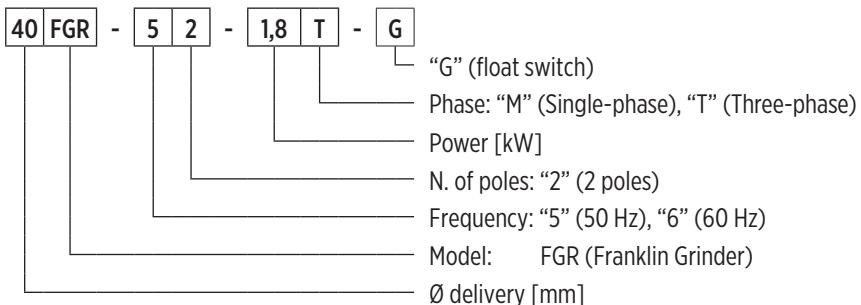


FGR Series - Pumps with grinder unit 50 Hz



FGR SERIES – PUMPS WITH GRINDER UNIT 50 Hz

PUMP IDENTIFICATION CODE



00140087 01/2023



40 FGR SERIES 50 HZ

FEATURES & BENEFITS

APPLICATIONS



Pumping of clear non-loaded fluids



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



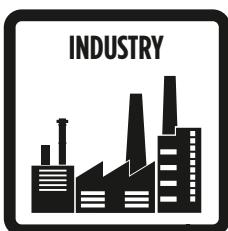
Wastewater



MARKETS



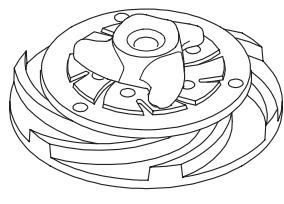
RESIDENTIAL



INDUSTRY

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

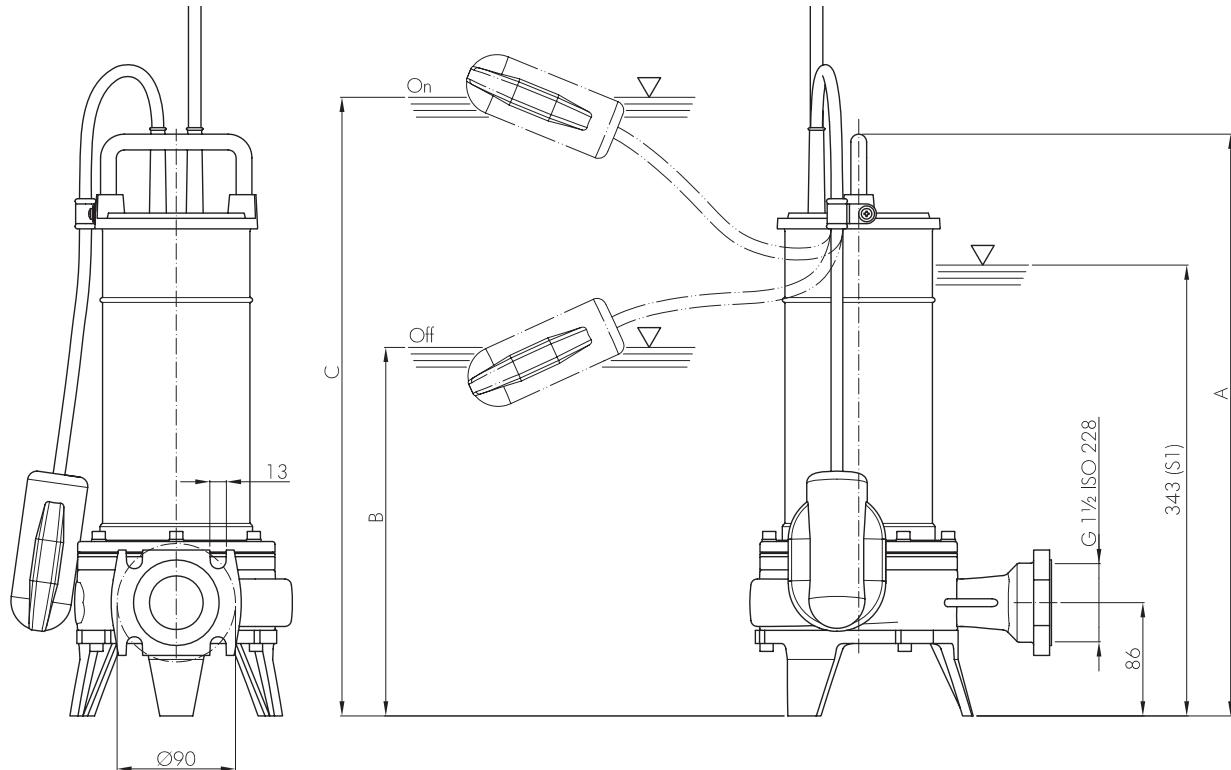
GENERAL FEATURES

		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 , capacitor box and SCHUKO plug (CEE 7/VII)
	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 continuos service		303 mm
Max. number of starting/hour		20
Construction options		

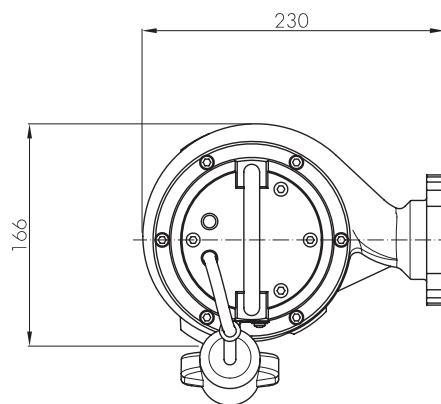
- 60 Hz version
- Different voltages
- White oil filling liquid FDA aproved



DIMENSIONAL DRAWINGS

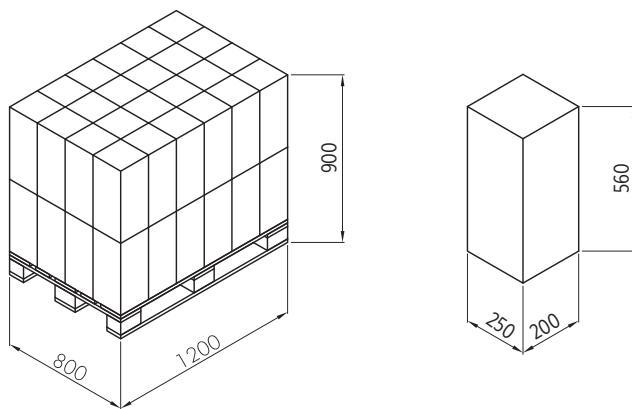


Dimensions [mm]			
Pump model	A	B	C
40FGR-52-0,75	438	280	470
40FGR-52-1,1	463	305	495



00130291 02/2023

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



00130292 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]		
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	1,4	1,1	1,5	230	6	1~	10	4G1	-	25	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	0,9	0,75	1	400	1,8	3~	10	4G1	-	-	G1½	20
40FGR-52-1,1T	1,4	1,1	1,5	400	2,1	3~	10	4G1	-	-	G1½	20

“-” = not available

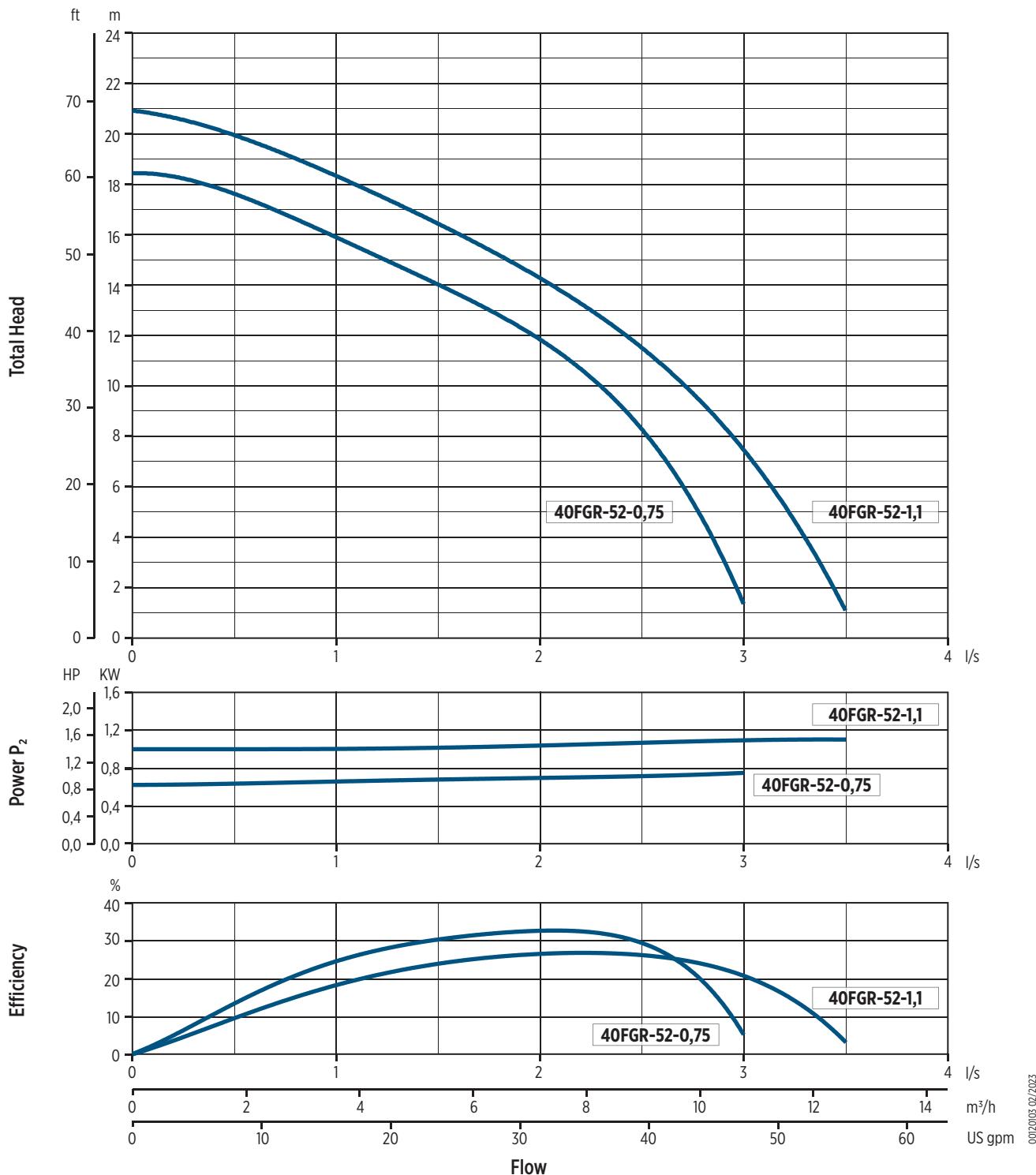
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HYDRAULIC PERFORMANCE AT 50 HZ

Pump model	Phase	Q = Delivery							
		l/sec 0	0,5	1	1,5	2	2,5	3	3,5
		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



The hydraulic characteristics are guaranteed, according to ISO standard 9906:2012, grade 3B



Franklin Electric

INSTALLATION

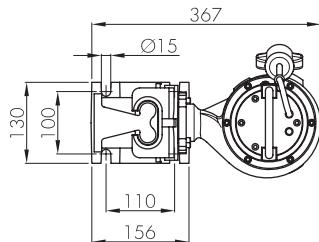
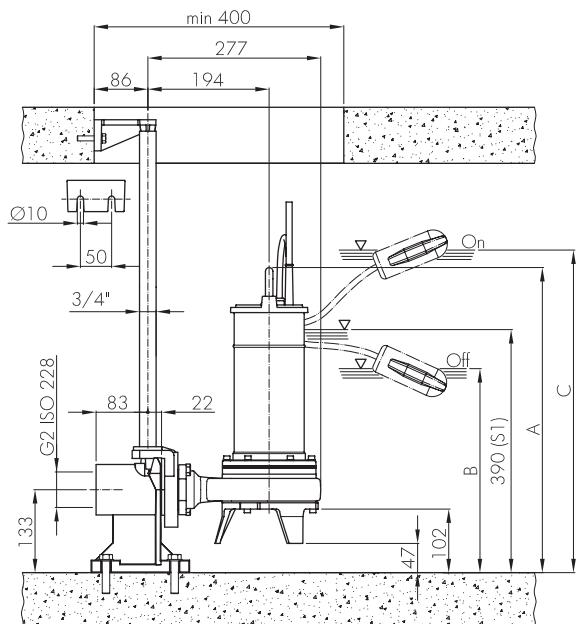
INSTALLATION INSTRUCTIONS

PERMANENT INSTALLATION WITH COUPLING SYSTEM

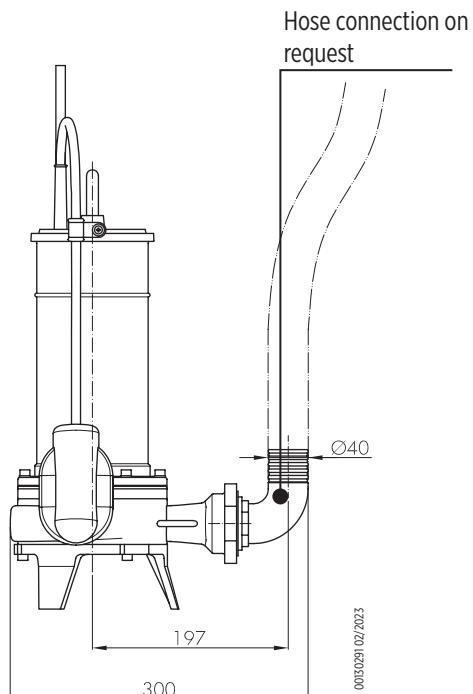
It is the recommended installation for the permanent pumping station. The electric pump is guided by two pipes and it is connected automatically to the coupling system. The quick connection ensures that the pump can be easily removed and re-installed.

TRANSPORTABLE INSTALLATION

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



00130291/02/2023



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



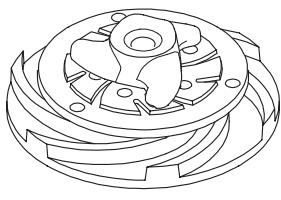
RESIDENTIAL



INDUSTRY

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.



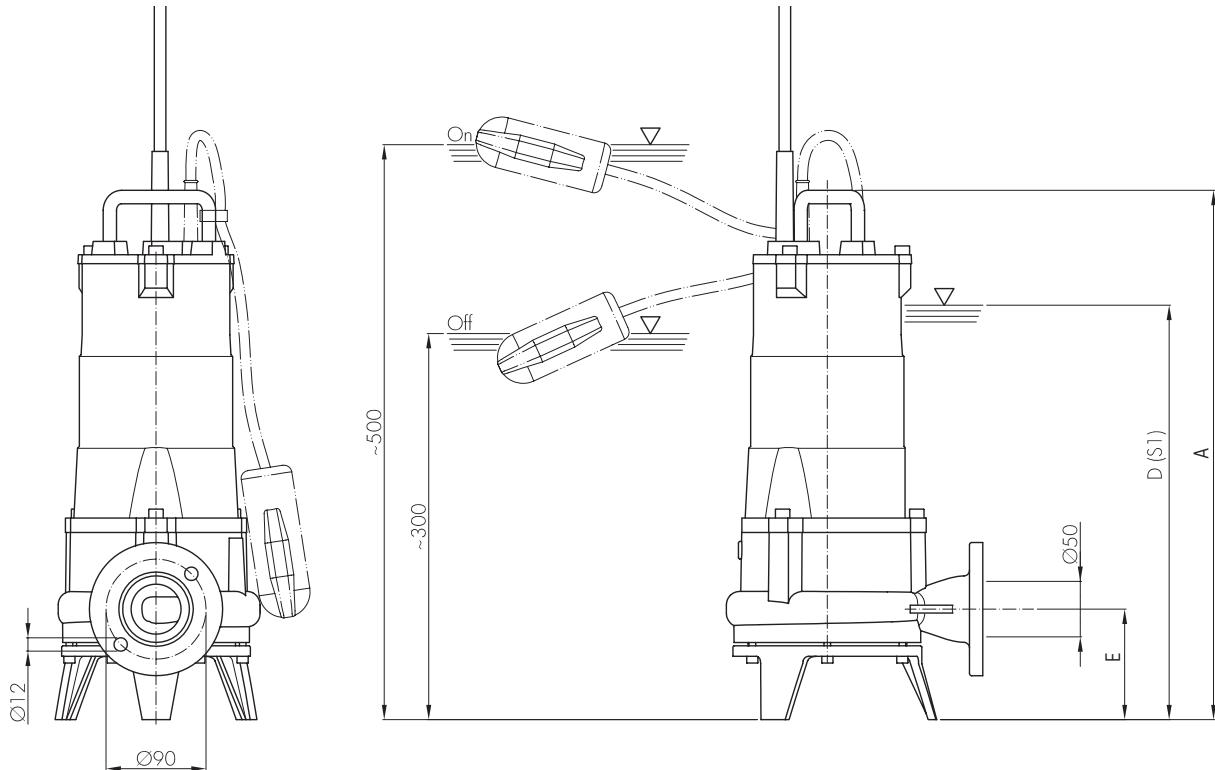
IMPELLER WITH GRINDER UNIT

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	4G1,5mm ² , capacitor box and SCHUKO plug (CEE 7/VII)
	Single-phase 50FGR-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
	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 continuos 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		
<ul style="list-style-type: none"> ■ 60 Hz version ■ Different voltages ■ White oil filling liquid FDA aproved 		

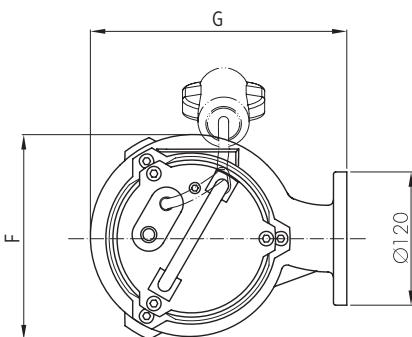


DIMENSIONAL DRAWINGS



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



00130294 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	2,3	1,6	2,1	230	11	1~	10	4G2,5	•	40	G2 (Ø50)	34
50FGR-52-1,1T-G	2,3	1,6	2,1	230	11	1~	10	4G2,5	-	40	G2 (Ø50)	34
50FGR-52-1,6M	1,4	1,1	1,5	400	3	3~	10	4G1,5	-	-	G2 (Ø50)	40
50FGR-52-1,6M-G	1,4	1,1	1,5	400	3	3~	10	4G1,5	•	-	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

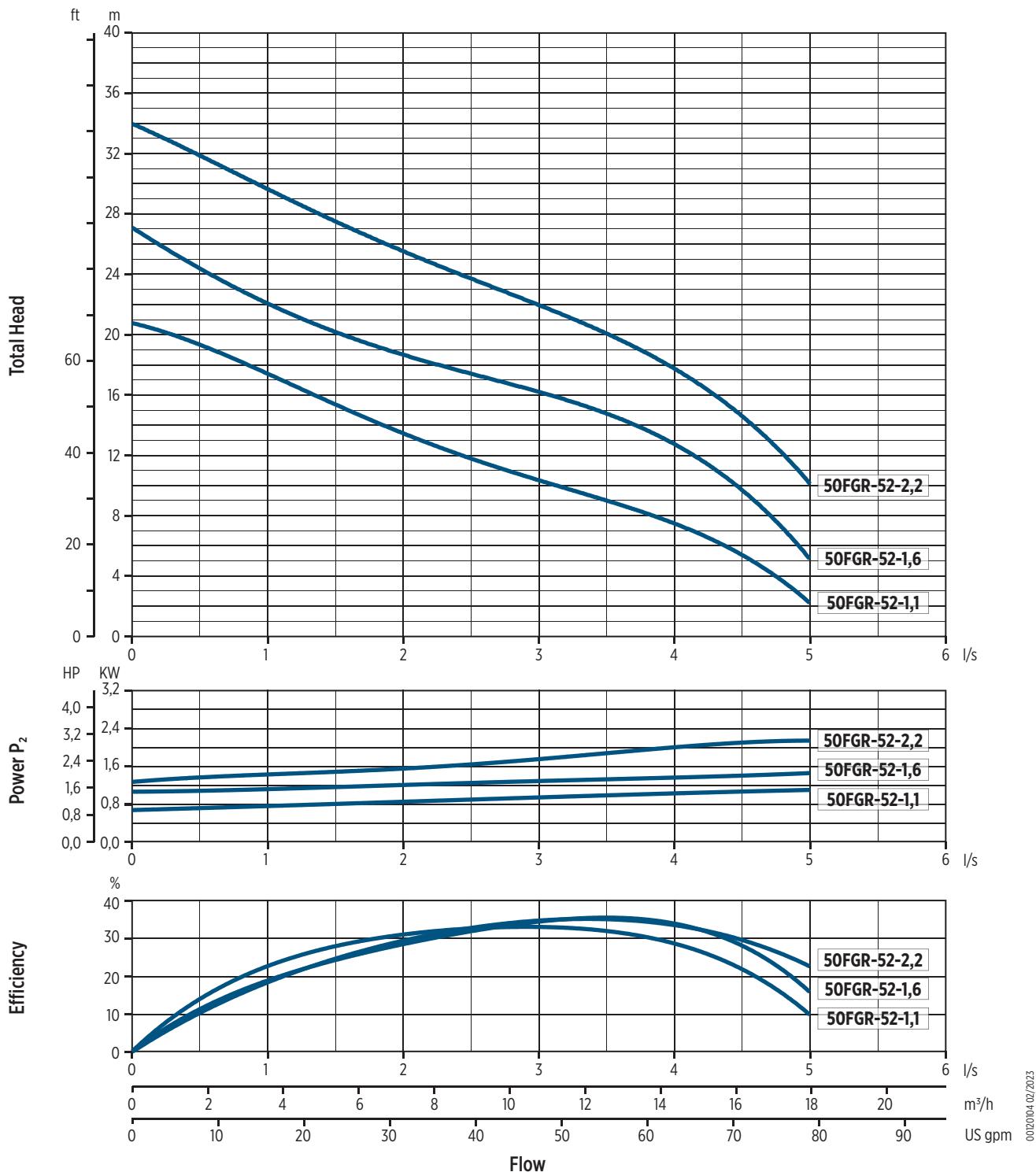
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HYDRAULIC PERFORMANCE AT 50 HZ

Pump model	Phase	Q = Delivery										
		I/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	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



The hydraulic characteristics are guaranteed, according to ISO standard 9906:2012, grade 3B



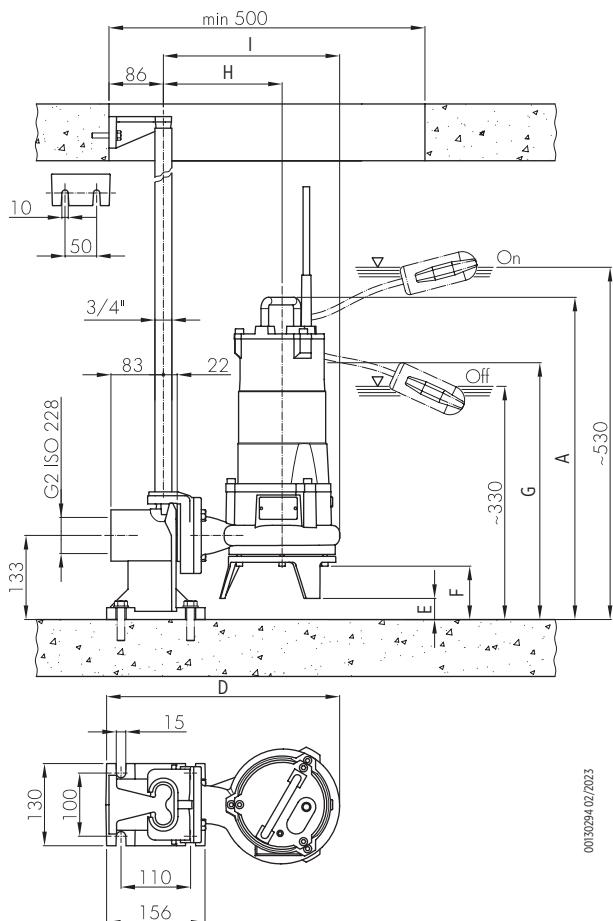
Franklin Electric

INSTALLATION

INSTALLATION INSTRUCTIONS

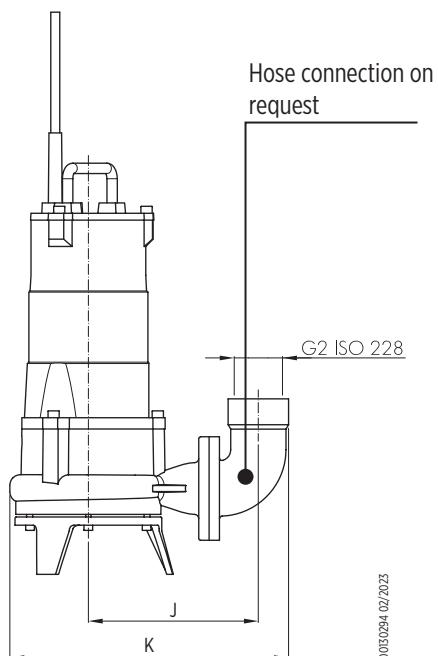
PERMANENT INSTALLATION WITH COUPLING SYSTEM

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.



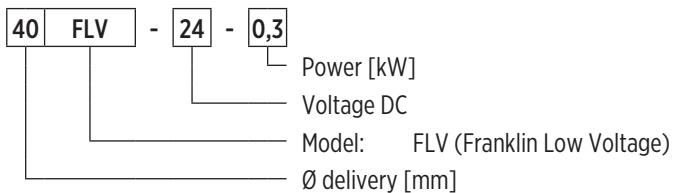
Pump model	Installation Dimensions [mm]								
	A	D	E	F	G	H	I	J	K
50FGR-52-1,1	510	370	34	85	407	193	279	197	232
50FGR-52-1,6	574	414	24	76	464	215	324	224	368
50FGR-52-2,2	574	414	24	76	464	215	324	224	368

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 50 HZ

FEATURES & BENEFITS

APPLICATIONS



Drainage

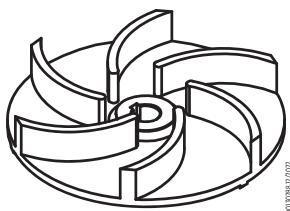
Domestic / industrial
grey water

MARKETS



D.C. MOTOR SUBMERSIBLE WASTE WATER LIFT PUMPS

The D.C. electric submersible pumps are suitable for the lift 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

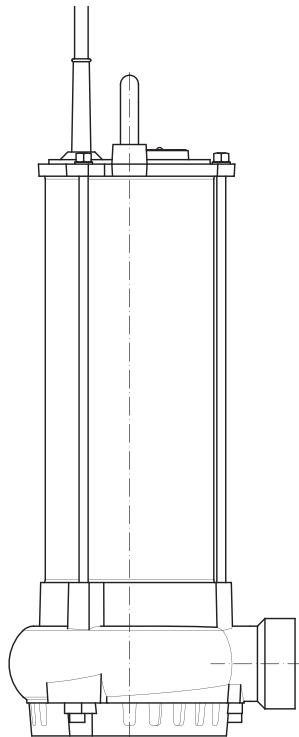
GENERAL FEATURES

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 continuos 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	

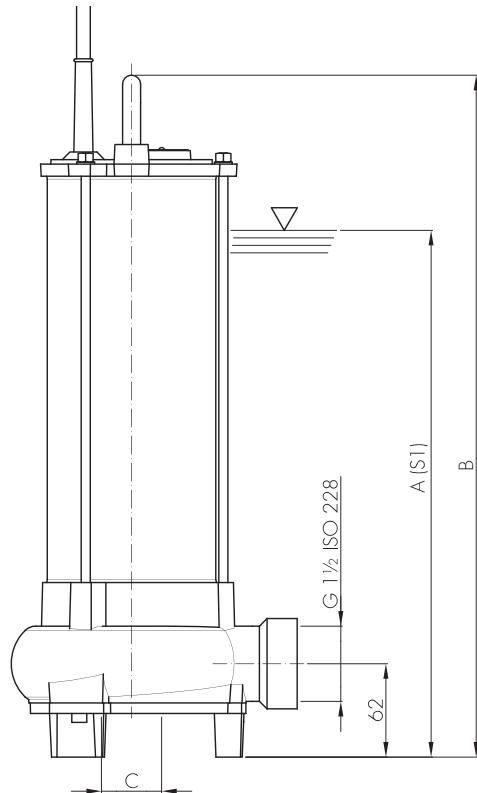
- Mechanical seal in Silicon carbide (SiC/SiC)
- Model 40FLV-12-0,3 with 10 m 1x16mm² cable and battery clamps
- Inlet with strainer (free passage 8 mm)



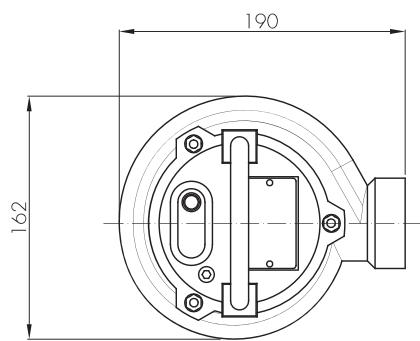
DIMENSIONAL DRAWINGS



Version with filter on request

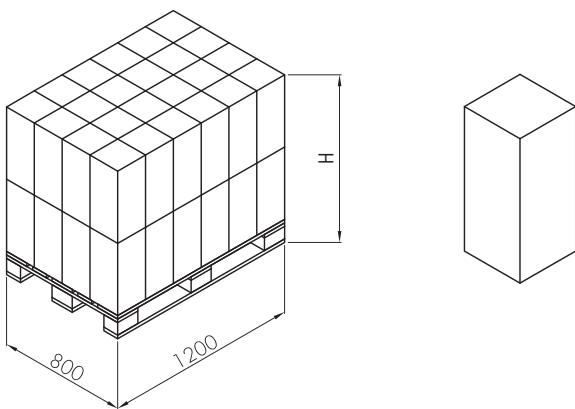


Dimensions [mm]			
Pump model	A	B	C
40FLV-24-0,3	300	402	30
40FLV-24-0,5	300	402	30
40FLV-24-0,75	350	453	40
40FLV-12-0,3	300	402	30



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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	



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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	24DC	17	5	2X6	G1½	11
40FLV-24-0,5	0,62	0,5	0,7	24DC	26	5	2X6	G1½	12
40FLV-24-0,75	0,84	0,75	1	24DC	35	5	2X6	G1½	17
40FLV-12-0,3	0,4	0,3	0,4	12DC	34	5	2X6	G1½	11

“-” = not available

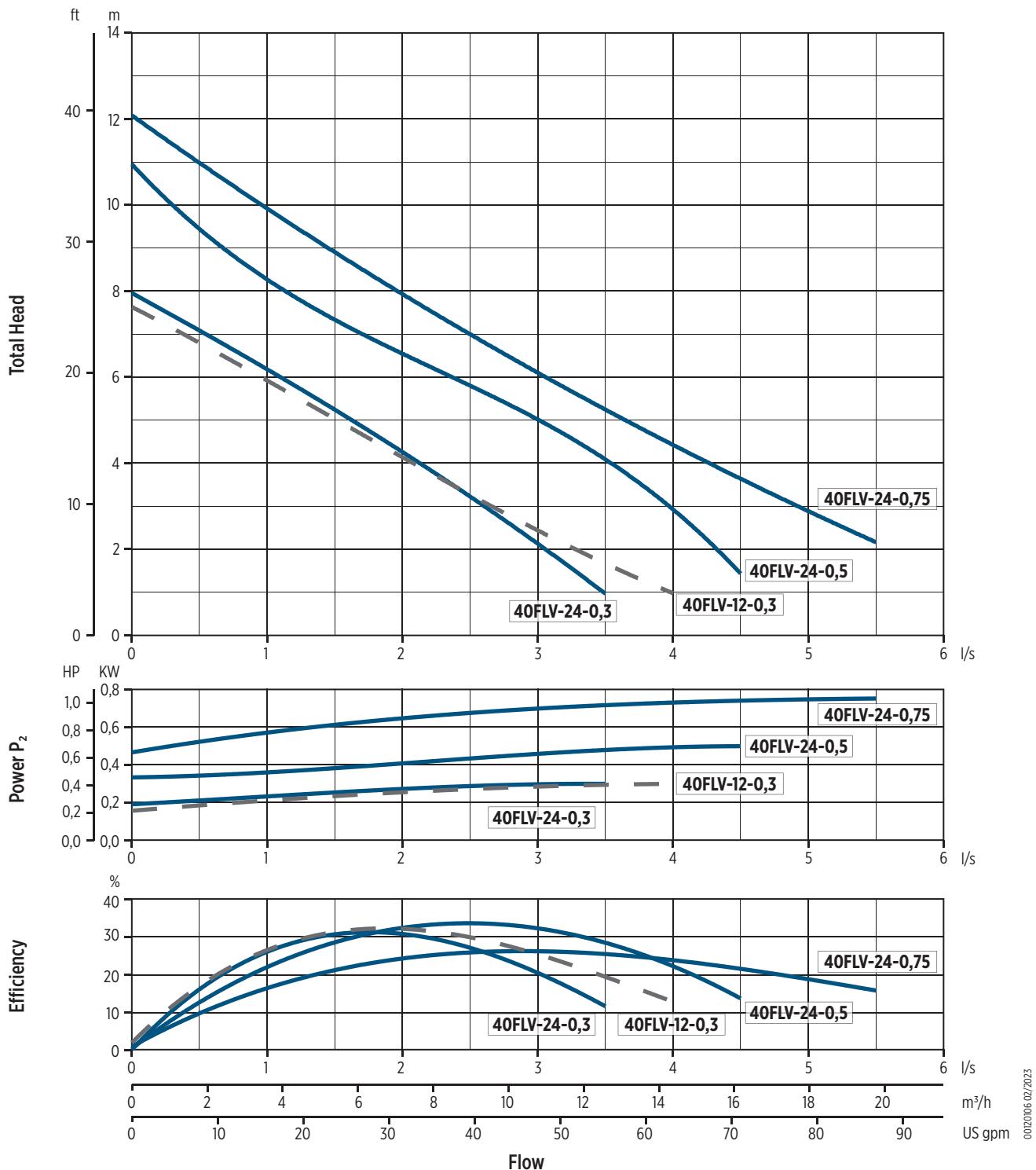
• = available

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	24DC	8	7	6,2	5,3	4,3	3,2	2,1	1				
40FLV-24-0,5	24DC	10,9	9,7	8	7,1	6,8	6	5	3,9	2,9	1,5		
40FLV-24-0,75	24DC	12	11	10	9	8	7	5,8	5,1	4,5	3,9	3	2
40FLV-12-0,3	12DC	7,5	7	6	5	4	3,1	2,5	2	0,8			



PERFORMANCE CURVES AT 50 Hz



The hydraulic characteristics are guaranteed, according to ISO standard 9906:2012, grade 3B



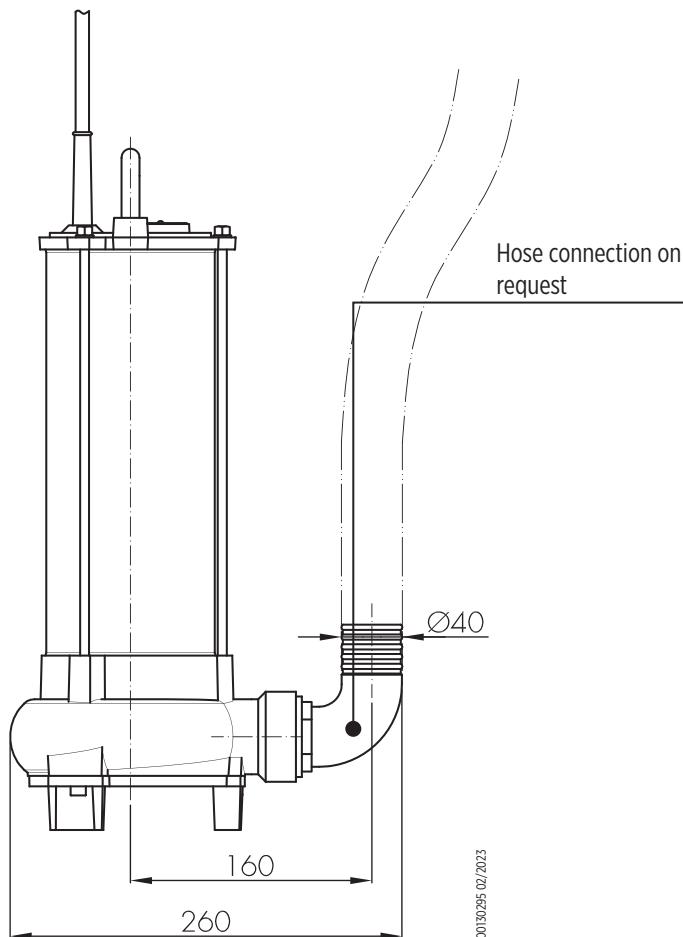
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INSTALLATION

INSTALLATION INSTRUCTIONS

TRANSPORTABLE INSTALLATION

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



00130295 02/2023





Franklin Electric



franklinwater.eu

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