



Franklin Electric

SUBMERSIBLE DRAINAGE PUMPS

FDX, FDP SERIES



INDEX

SUBMERSIBLE PUMPS FOR RESIDENTIAL DRAINAGE

FDX Series - Submersible Drainage pumps	5
Product identification code	6
General features	6
40FDX-52	7
50FDX-52	11

SUBMERSIBLE PUMPS FOR PROFESSIONAL DRAINAGE

40-50FDP Series - Submersible Drainage pumps	17
Product identification code	18
General features	18
40FDP-52	19
50FDP-52	19
40FDP-52-HH	21

70-80FDP Series - Submersible Drainage pumps	25
Product identification code	26
General features	26
70FDP-52	27
80FDP-52	27

100-150FDP Series - Submersible Drainage pumps	30
General features	31
Product identification code	31
100FDP-52-5,5/ 100FDP-52-8,1	32
100FDP-52-11 / 100FDP-52-15	35
150FDP-52-11 / 150FDP-52-15	35

150 FDP Series - Submersible Drainage pumps	38
Product identification code	39
General features	39
150FDP-52-22	40

Accessories	43
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Construction versions	43
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Submersible pumps for residential drainage

50 Hz

FDX SERIES



FDX Series Submersible Drainage pumps

- Pump models:
 - 40FDX-52 (discharge Ø 40 mm - G1" ½)
 - 50FDX-52 (discharge Ø 50 mm - G2")
- Open impeller
- Available with or without adjustable float switch
- Double mechanical seal in oil chamber (pump side SiC/SiC)
- Dry chamber motor
- Cast iron components with cataphoresis coating for increased corrosion resistance
- Quick connectors for easy maintenance
- Control box with thermal protection required for three-phase motors
- Single-phase versions up to 1.1 kW with built-in thermal protector and internal capacitor
- Stainless steel handle

Technical data

- Flow: up to 36 m³/h
- Total Head: up to 17.2 m
- Motor power: 0.4 - 1.1 kW
- Minimum immersion depth:
 - 280 mm (40 FDX)
 - 336 mm (50FDX)
- Maximum immersion depth: 5 m
- Free passage:
 - 7 mm (40 FDX)
 - 6 mm (50FDX)

ACCESSORIES

- Hose connection elbow
- For more information about accessories see p. 43



Stainless Steel motor

Cable lenght 10 m

(single-phase pumps with plug)

Quick connectors

for an easy maintenance

Dry chamber motor

for fast and easy maintenance

Double mechanical seal

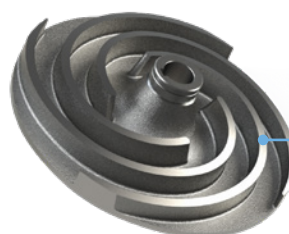
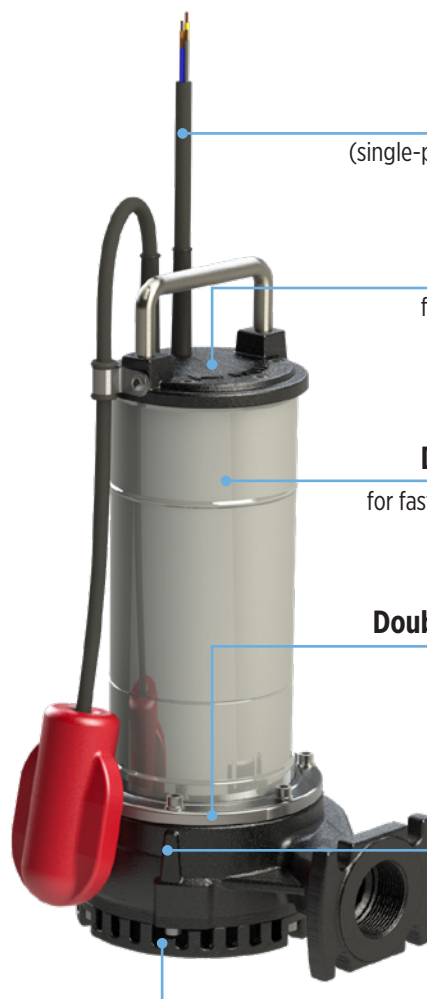
(pump side SiC/SiC)

Cast iron components with cataphoresis coating

for enhanced corrosion resistance

Suction strainer

Open impeller



Pumping of clear non-loaded fluids



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



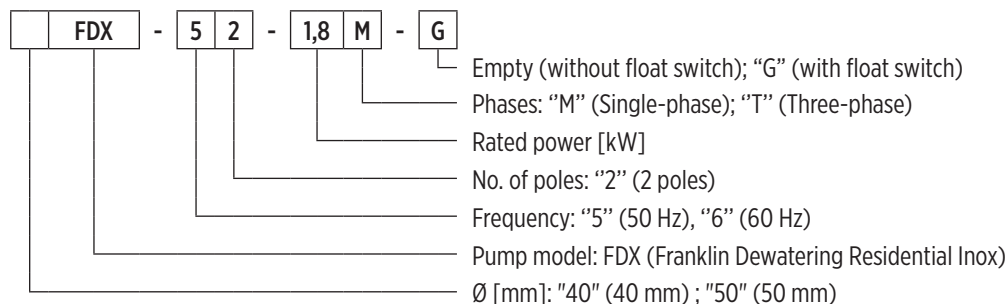
Wastewater



Draining clear and turbid water

FDX Series Submersible Drainage pumps

PRODUCT IDENTIFICATION CODE



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GENERAL FEATURES

Materials/Constr.design		
Impeller		Cast iron EN GJL200
External casing		Stainless steel AISI304
Pump body		Cast iron EN GJL200 with cataphoresis coating
Cover		Cast iron EN GJL200 with cataphoresis coating
Filter	40FDX	Aluminium alloy
	50FDX	Stainless steel AISI304
Mechanical seal	motor side	Graphite/Ceramic
	pump side	Silicon carbide (SiC/SiC)
Motor shaft		Stainless steel AISI416
Power cable	Type	10 m H07RN8-F
	Single-phase	3G1mm ² with 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	230 V ±6% built-in overheating protection, built in capacitor
	Three-phase	230V ±10%, 400V ±10%
Operating limits		
Maximum liquid temperature		+40 °C
pH of pumped liquid		6- 10
Liquid density		1,0 kg/dm ³
Maximum immersion depth		5 m
Min. immersion depth for continuous service	40FDX	280 mm
	50FDX	336 mm
Free passage	40FDX	7 mm
	50FDX	6 mm
Max. number of starting/hour		20
Construction options		

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

40FDX-52

HYDRAULIC PERFORMANCE 50 HZ

Pump model	Q = Delivery											
	l/sec 0	0,5	1,0	1,5	2,0	2,5	3,0	3,5	4,0	4,5	5,0	5,5
	m ³ /h 0	1,8	3,6	5,4	7,2	9,0	10,8	12,6	14,4	16,2	18,0	19,8
	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]												
40FDX-52-0,4	8,2	8,0	7,7	7,2	6,7	6,0	5,1	4,3	3,3	2,1		
40FDX-52-0,6	9,4	9,1	8,7	8,3	7,7	7,0	6,1	5,2	4,0	2,9	1,7	
40FDX-52-0,7	11,3	11,1	10,9	10,5	9,9	9,2	8,5	7,6	6,6	5,4	4,1	2,1

Application range

TECHNICAL DATA

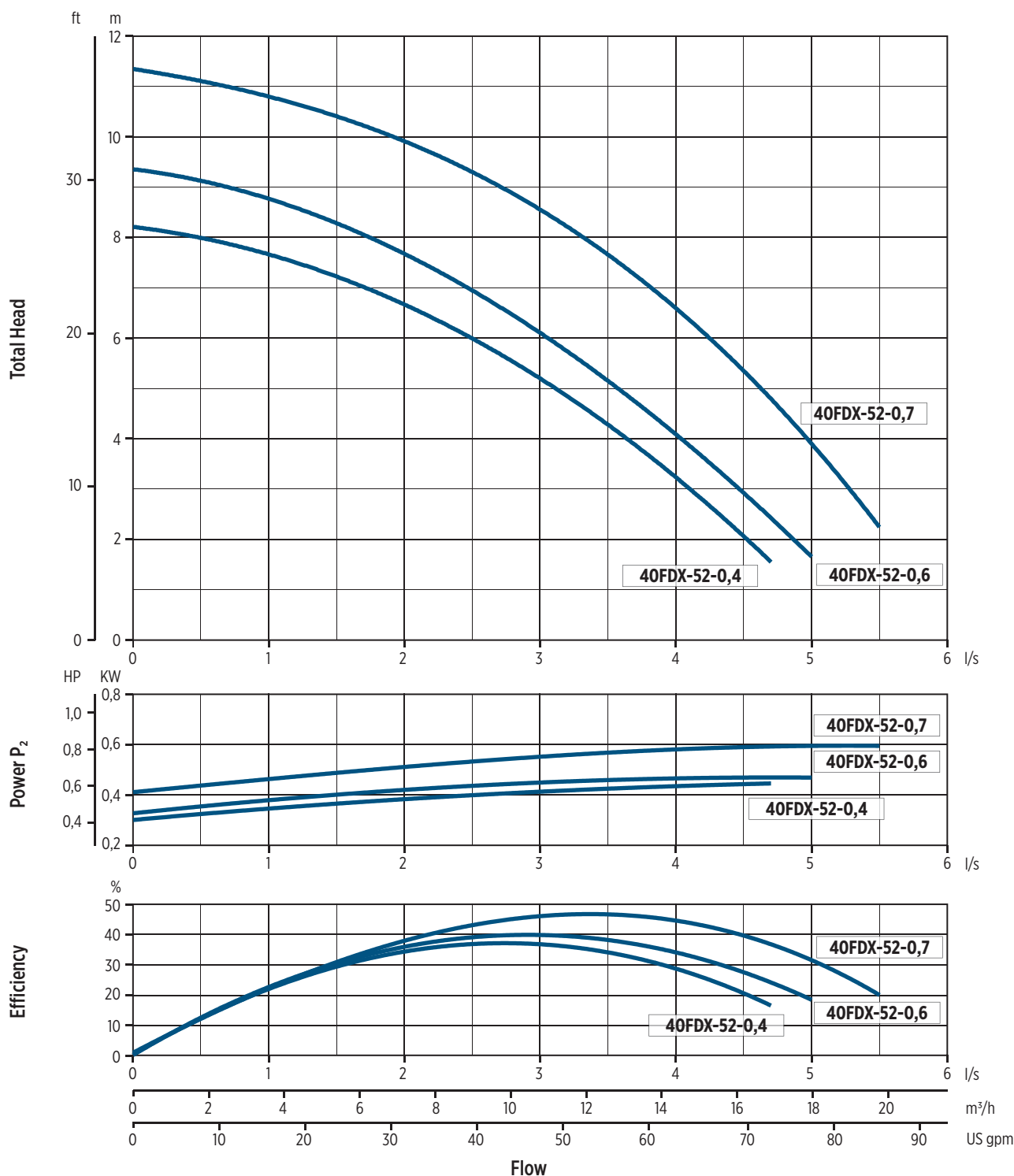
Pump model	Motor absorbed power P ₁	Rated power P ₂		Voltage	Rated current	Phases	Power cable		Float switch	Starting capacitor	Discharge port	Weight [kg]
	[kW]	[kW]	[HP]	[V]	[A]		Length [m]	Type		[μf]		
40FDX-52-0,4M	0,63	0,4	0,5	230	3,1	1 ~	10	3G1	-	10	G1½	14,5
40FDX-52-0,4M-G	0,63	0,4	0,5	230	3,1	1 ~	10	3G1	•	10	G1½	14,5
40FDX-52-0,6M	0,67	0,6	0,8	230	3,2	1 ~	10	3G1	-	10	G1½	14,5
40FDX-52-0,6M-G	0,67	0,6	0,8	230	3,2	1 ~	10	3G1	•	10	G1½	14,5
40FDX-52-0,7M	0,85	0,7	0,95	230	4,0	1 ~	10	3G1	-	16	G1½	16,5
40FDX-52-0,7M-G	0,85	0,7	0,95	230	4,0	1 ~	10	3G1	•	16	G1½	16,5
40FDX-52-0,7T	0,85	0,7	0,95	400	1,6	3 ~	10	4G1	-	-	G1½	16,5
40FDX-52-0,7T-G	0,85	0,7	0,95	400	1,6	3 ~	10	4G1	•	-	G1½	16,5

"-" = not available

• = available

40FDX-52

PERFORMANCE CURVES AT 50 HZ



0020322.04/2026

40FDX-52

DIMENSIONS



Package		
Pump model	Dimensions [mm]	Weight [kg]
40FDX-52-0,4	255x225x560	15,2
40FDX-52-0,6		
40FDX-52-0,7		17,2

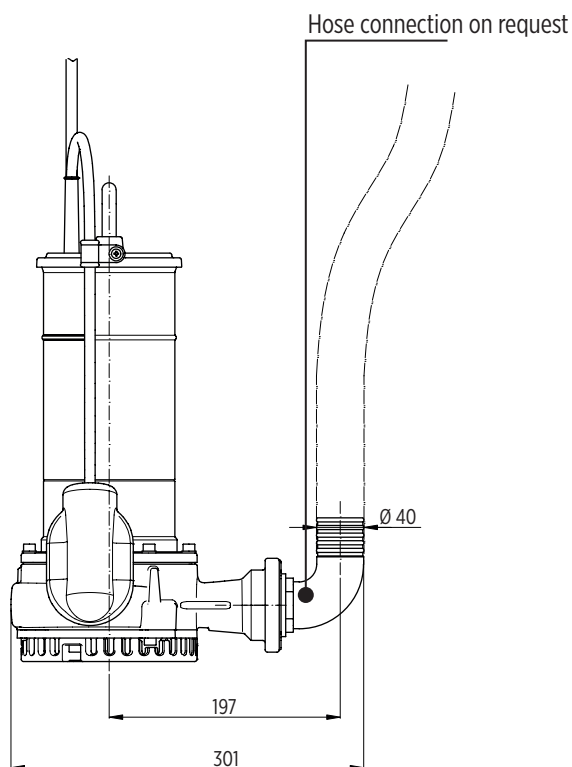
Pallet			
Pump model	Dimensions [mm]	N° of pumps	Weight [kg]
40FDX-52-0,4	1200x800x700	15	245
40FDX-52-0,6			
40FDX-52-0,7			275

40FDX-52

INSTALLATION

Transportable installation

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



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50FDX-52

HYDRAULIC PERFORMANCE 50 HZ

Pump model	Q = Delivery														
	l/sec 0	1,0	1,5	2,0	2,5	3,0	3,5	4,0	4,5	5,0	6,0	7,0	8,0	9,0	10,0
	m³/h 0	3,6	5,4	7,2	9,0	10,8	12,6	14,4	16,2	18,0	21,6	25,2	28,8	32,4	36,0
	US gpm 0	15,8	23,7	31,7	39,6	47,5	55,5	63,4	71,3	79,2	92,1	110,9	126,8	142,6	158,5
H = Total meters head of water column [m]															
50FDX-52-0,9	14,9	14,4	14,1	13,8	13,3	12,9	12,5	11,8	11,4	10,6	9,1	7,4	5,5	3,4	
50FDX-52-1,1	17,2	16,4	16,0	15,6	15,2	14,6	14,3	13,6	13,1	12,3	10,9	9,3	7,3	5,5	3,2

Application range

TECHNICAL DATA

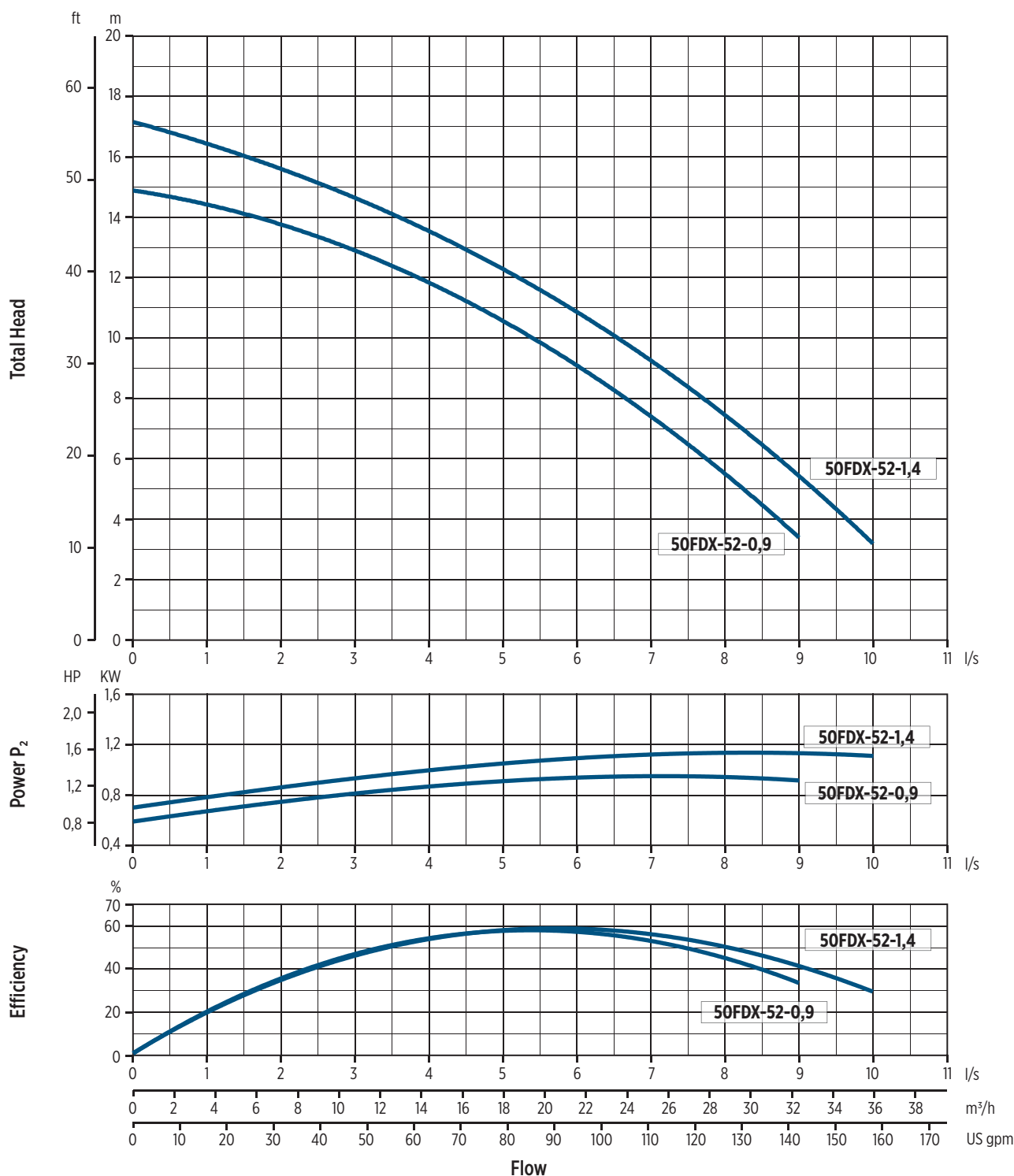
Pump model	Motor absorbed power P ₁	Rated power P ₂		Voltage	Rated current	Phases	Power cable		Float switch	Starting capacitor	Discharge port	Weight [kg]
	[kW]	[kW]	[HP]	[V]	[A]		Length [m]	Type		[μf]		
50FDX-52-0,9M	1,4	0,9	1,2	230	6,1	1 ~	10	3G1	-	20	G2	18
50FDX-52-0,9M-G	1,4	0,9	1,2	230	6,1	1 ~	10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

“-” = not available

• = available

50FDX-52

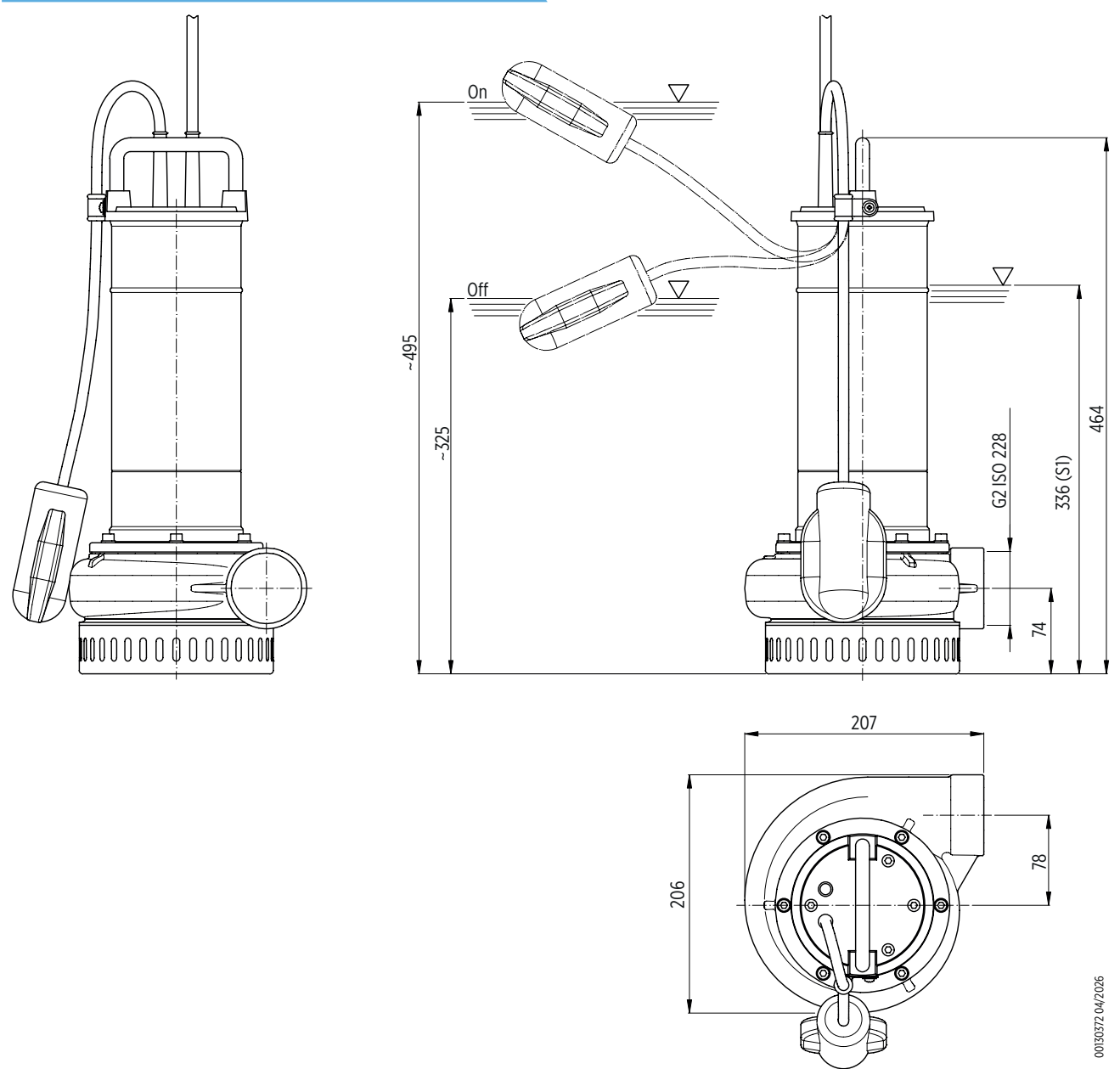
PERFORMANCE CURVES AT 50 HZ



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50FDX-52

DIMENSIONS



Package		
Pump model	Dimensions [mm]	Weight [kg]
50FDX-52-0,9	255x205x560	18,7
50FDX-52-1,1		20,2

Pallet			
Pump model	Dimensions [mm]	N° of pumps	Weight [kg]
50FDX-52-0,9	1200x800x700	15	300
50FDX-52-1,1			320

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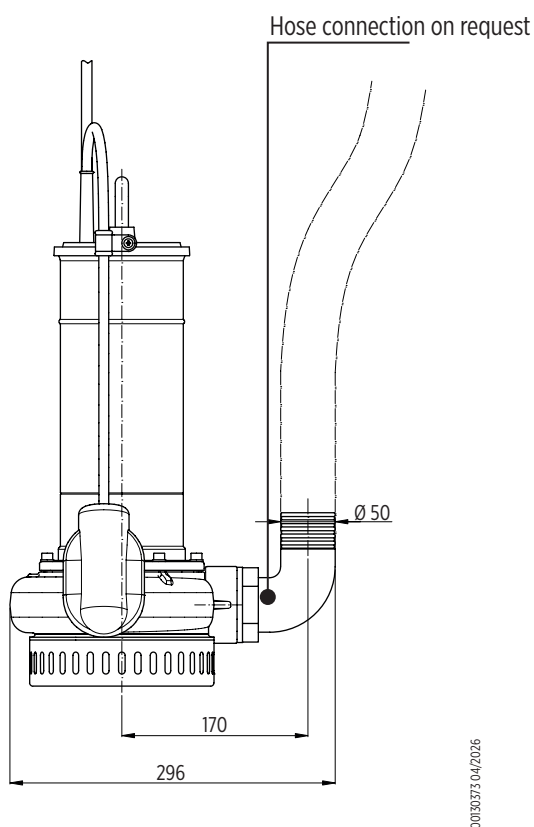


50FDX-52

INSTALLATION

Transportable installation

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





Submersible pumps for professional drainage

50 Hz

FDP SERIES



40-50FDP Series - Submersible drainage pumps

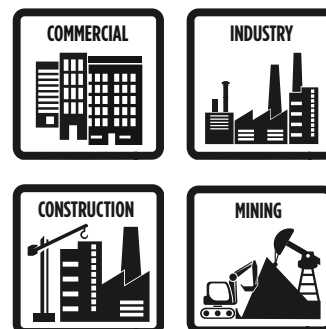
- Pump models:
 - 40FDP-52 (discharge G1½, 2 poles motor)
 - 50FDP-52 (discharge G2", 2 poles motor)
- Impeller type: open (standard version) or double-open impeller (HH version)
- Available with or without float switch
- Mechanical seal: SiC/SiC (silicon carbide)
- Main components in aluminum to reduce weight; impeller in cast iron for durability
- HH version provides higher head
- Single-phase version up to 1.1 kW with built-in thermal protector
- External capacitor
- Wide range of available accessories

Technical data

- Flow: up to 54 m³/h
- Total Head: up to 32 m
- Motor power: 1 - 2.2 kW
- Minimum immersion depth: see "Dimensions" tables
- Maximum immersion depth: 5 m
- Free passage: 6 mm

ACCESSORIES

- Threaded elbow
- Storz coupling
- For more information about accessories see p. 43



- ✓ Alluminium components
- ✓ Higher head version (HH)



Drainage and dewatering



Rainwater recovery



Draining clear and turbid water



Construction site drainage and dewatering



Mining, quarrying drainage and dewatering

40-50FDP Series - Submersible drainage pumps

PRODUCT IDENTIFICATION CODE

	FDP	-	5	2	-	1,8	M	-	G	-	HH
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- “HH” (high head version)
Empty (without float switch); “G” (with float switch)
Phases: “M” (Single-phase); “T” (Three-phase)
Rated power [kW]
No. of poles: “2” (2 poles)
Frequency: “5” (50 Hz), “6” (60 Hz)
Pump model: FDP (Franklin Dewatering Professional)
Ø discharge [mm]: “40” (40 mm); “50” (50 mm)

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GENERAL FEATURES

Materials/Constr.design		
Impeller		Cast iron EN GJL200
External casing		Aluminium alloy EN AW6060
Pump body		Aluminium alloy
Cover		Aluminium alloy
Filter		Aluminium alloy
Wear plate	40FDP-52-1,0M	Stainless steel AISI304
	50FDP-52-1,4M, 50FDP-52-1,8M	Aluminium alloy with NBR rubber coating
Mechanical seal		Silicon carbide (SiC/SiC)
Motor shaft		Stainless steel AISI420
Power cable	Type	10 m H07RN-F
	Single-phase 40FDP-52-1,0M	4G1,5mm ² , capacitor box and SCHUKO plug (CEE 7/VII)
	Single-phase 50FDP-52-1,4M, 50FDP-52-1,8M	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)
	Three-phase	230V ±10%, 400V ±10%
Operating limits		
Maximum liquid temperature		+40 °C
pH of pumped liquid		5 - 8
Liquid density		1,0 kg/dm ³
Maximum immersion depth		5 m
Min. immersion depth for continuous service		see “Dimensions” tables
Free passage		6 mm
Max. number of starting/hour		20
Construction options		

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

40FDP-52

HYDRAULIC PERFORMANCE 50 HZ

Pump model	Q = Delivery							
	l/sec 0	1	2	3	4	5	6	7
	m ³ /h 0	3,6	7,2	10,8	14,4	18	21,6	25,2
	US gpm 0	15,8	31,7	47,5	63,4	79,2	92,1	110,9
H = Total meters head of water column [m]								
40FDP-52-1,0	18	16,5	15	13,5	11	8	4,5	1
40FDP-52-1,1	20	18,5	17	15,5	13,5	11	8,5	5

Application range

TECHNICAL DATA

Pump model	Motor absorbed power P ₁	Rated power P ₂		Voltage	Rated current	Phases	Power cable		Float switch	Starting capacitor	Discharge port	Weight [kg]
	[kW]	[kW]	[HP]	[V]	[A]		Length [m]	Type		[μf]		
40FDP-52-1,0M	1,4	1	1,36	230	7,2	1 ~	10	4G1,5	-	25	G1½	20
40FDP-52-1,0M-G	1,4	1	1,36	230	7,2	1 ~	10	4G1,5	•	25	G1½	20
40FDP-52-1,0T	1,4	1	1,36	400	2	3 ~	10	4G1,5	-	-	G1½	20
40FDP-52-1,0T-G	1,4	1	1,36	400	2	3 ~	10	4G1,5	•	-	G1½	20
40FDP-52-1,1T	1,7	1,1	1,5	400	3	3 ~	10	4G1,5	-	-	G1½	20
40FDP-52-1,1T-G	1,7	1,1	1,5	400	3	3 ~	10	4G1,5	•	-	G1½	22

“-” = not available

• = available

50FDP-52

HYDRAULIC PERFORMANCE 50 HZ

Pump model	Q = Delivery															
	l/sec 0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
	m ³ /h 0	3,6	7,2	10,8	14,4	18	21,6	25,2	28,8	32,4	36	39,6	43,2	46,8	50,4	54
	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	190,2	206	221,9	237,7
H = Total meters head of water column [m]																
50FDP-52-1,4	14,3	14,1	13,7	13,1	12,5	11,8	11	9,8	8,5	7	6	4,5	2,8			
50FDP-52-1,8	16,6	16,3	16,1	15,8	15,1	14,2	14	12,8	11,8	10,2	9	7	5,8	4	2	
50FDP-52-2,2	18,5	18,5	18,2	17,8	17,5	16,5	16	14,7	13,9	12	10,5	9,1	7,5	5,8	4	2

Application range

TECHNICAL DATA

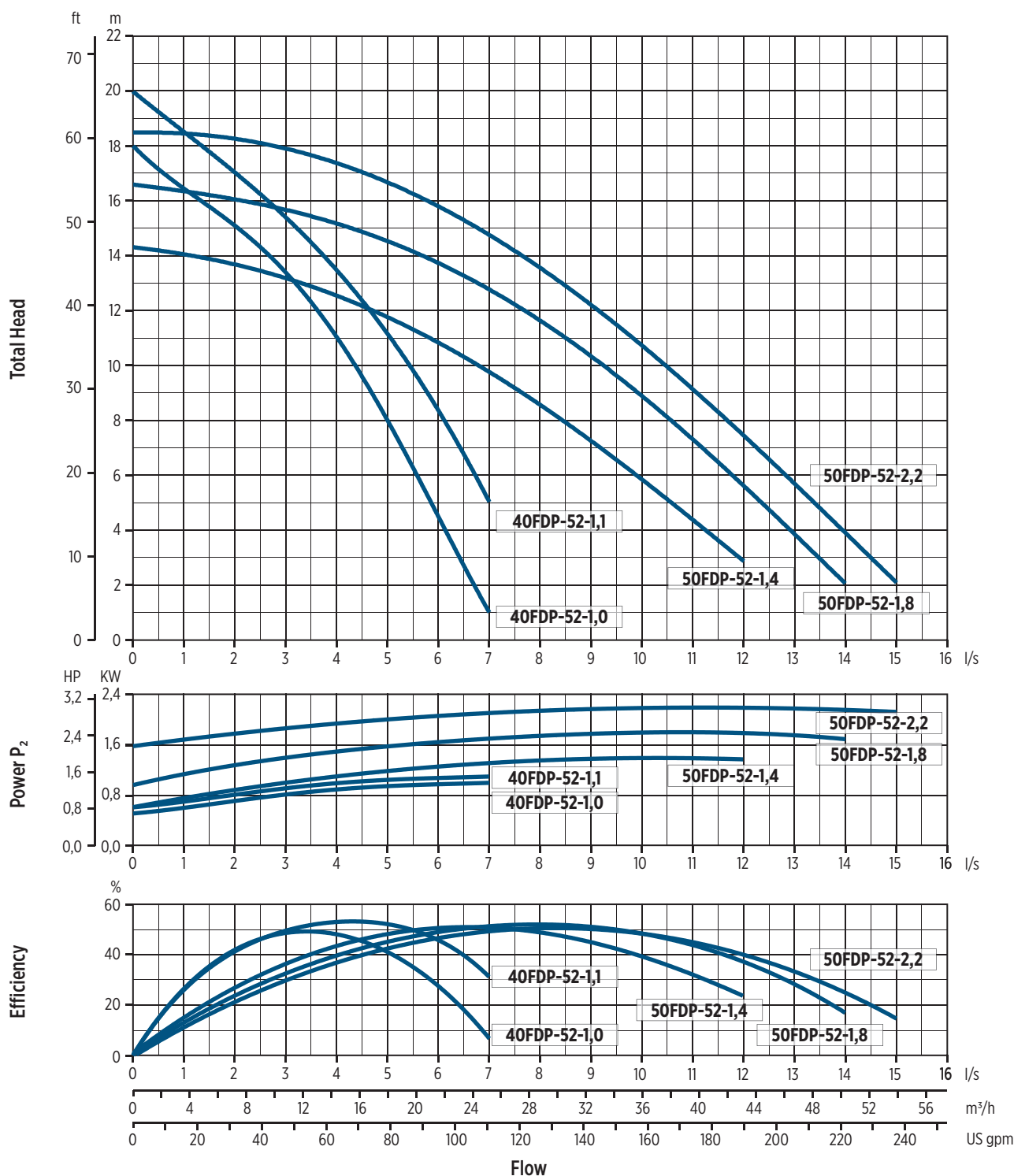
Pump model	Motor absorbed power P ₁	Rated power P ₂		Voltage	Rated current	Phases	Power cable		Float switch	Starting capacitor	Discharge port	Weight [kg]
	[kW]	[kW]	[HP]	[V]	[A]		Length [m]	Type		[μf]		
50FDP-52-1,4M	2,1	1,4	1,9	230	12	1 ~	10	4G2,5	-	25	G2	23
50FDP-52-1,4M-G	2,1	1,4	1,9	230	12	1 ~	10	4G2,5	•	25	G2	25
50FDP-52-1,8M	2,4	1,8	2,4	230	14	1 ~	10	4G2,5	-	30	G2	27
50FDP-52-1,8M-G	2,4	1,8	2,4	230	14	1 ~	10	4G2,5	•	30	G2	29
50FDP-52-1,8T	2,4	1,8	2,4	400	4,6	3 ~	10	4G1,5	-	-	G2	25
50FDP-52-1,8T-G	2,4	1,8	2,4	400	4,6	3 ~	10	4G1,5	•	-	G2	27
50FDP-52-2,2T	2,9	2,2	3	400	5	3 ~	10	4G1,5	-	-	G2	26
50FDP-52-2,2T-G	2,9	2,2	3	400	5	3 ~	10	4G1,5	•	-	G2	28

“-” = not available

• = available

40FDP-52 / 50FDP-52

PERFORMANCE CURVES AT 50 HZ



40FDP-52-HH

HYDRAULIC PERFORMANCE 50 HZ

Pump model	Q = Delivery							
	l/sec 0	1	2	3	4	5	6	7
	m ³ /h 0	3,6	7,2	10,8	14,4	18	21,6	25,2
	US gpm 0	15,8	31,7	47,5	63,4	79,2	92,1	110,9
H = Total meters head of water column [m]								
40FDP-52-1,4 HH	31	27	23	19	14,5	10	5,2	
40FDP-52-1,8 HH	32	29,5	26	22	18	13	7,8	2

Application range

TECHNICAL DATA

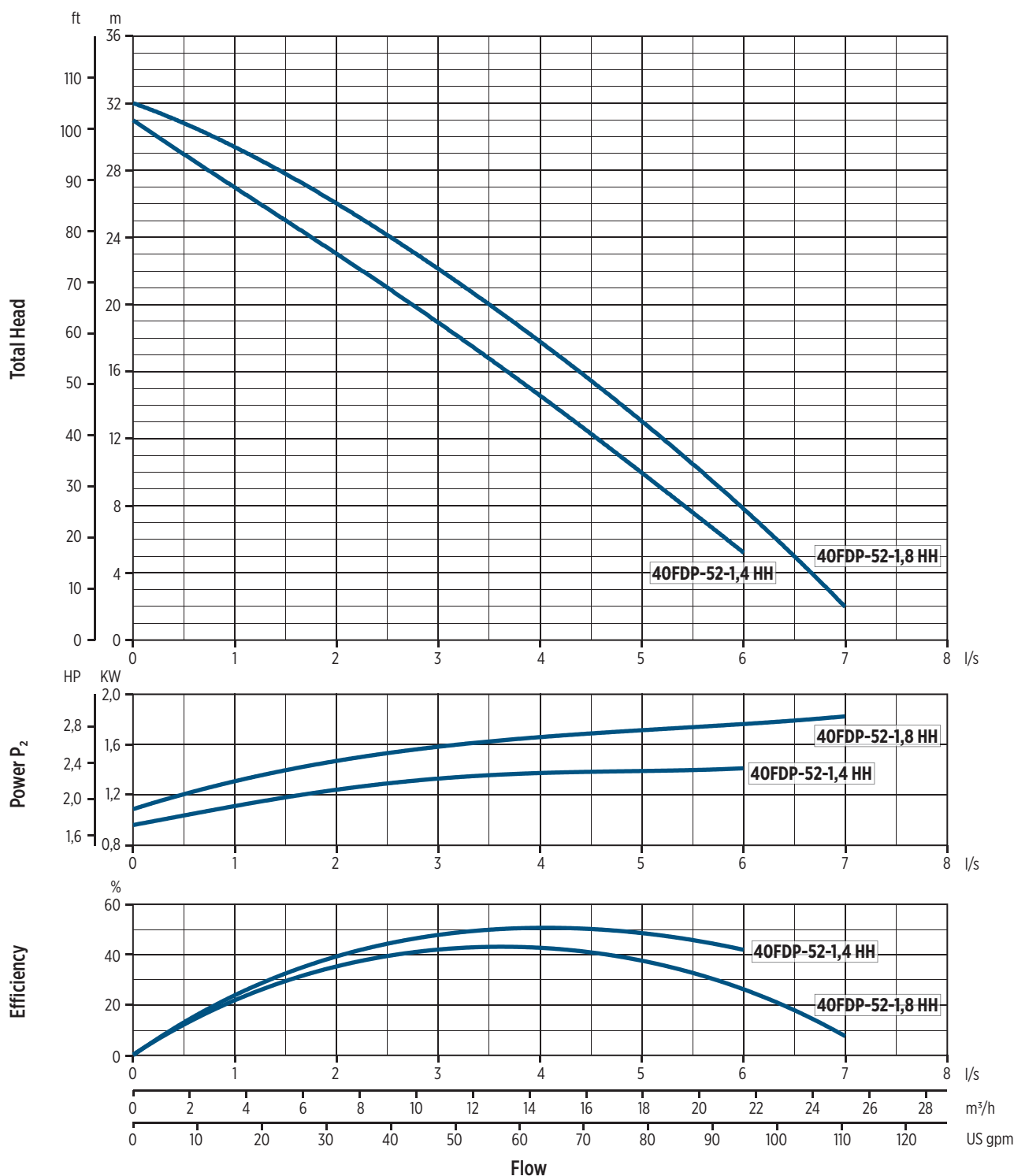
Pump model	Motor absorbed power P ₁	Rated power P ₂		Voltage	Rated current	Phases	Power cable		Float switch	Starting capacitor	Discharge port	Weight [kg]
	[kW]	[kW]	[HP]	[V]	[A]		Length [m]	Type		[μf]		
40FDP-52-1,4M-HH	2,2	1,4	1,9	230	12	1 ~	10	4G2,5	-	25	G1½	22
40FDP-52-1,4M-G-HH	2,2	1,4	1,9	230	12	1 ~	10	4G2,5	•	25	G1½	24
40FDP-52-1,8M-HH	2,7	1,8	2,4	230	14	1 ~	10	4G2,5	-	30	G1½	25
40FDP-52-1,8M-G-HH	2,7	1,8	2,4	230	14	1 ~	10	4G2,5	•	30	G1½	27
40FDP-52-1,8T-HH	2,4	1,8	2,4	400	4,6	3 ~	10	4G1,5	-	-	G1½	22
40FDP-52-1,8T-G-HH	2,4	1,8	2,4	400	4,6	3 ~	10	4G1,5	•	-	G1½	24

"-" = not available

• = available

40FDP-52-HH

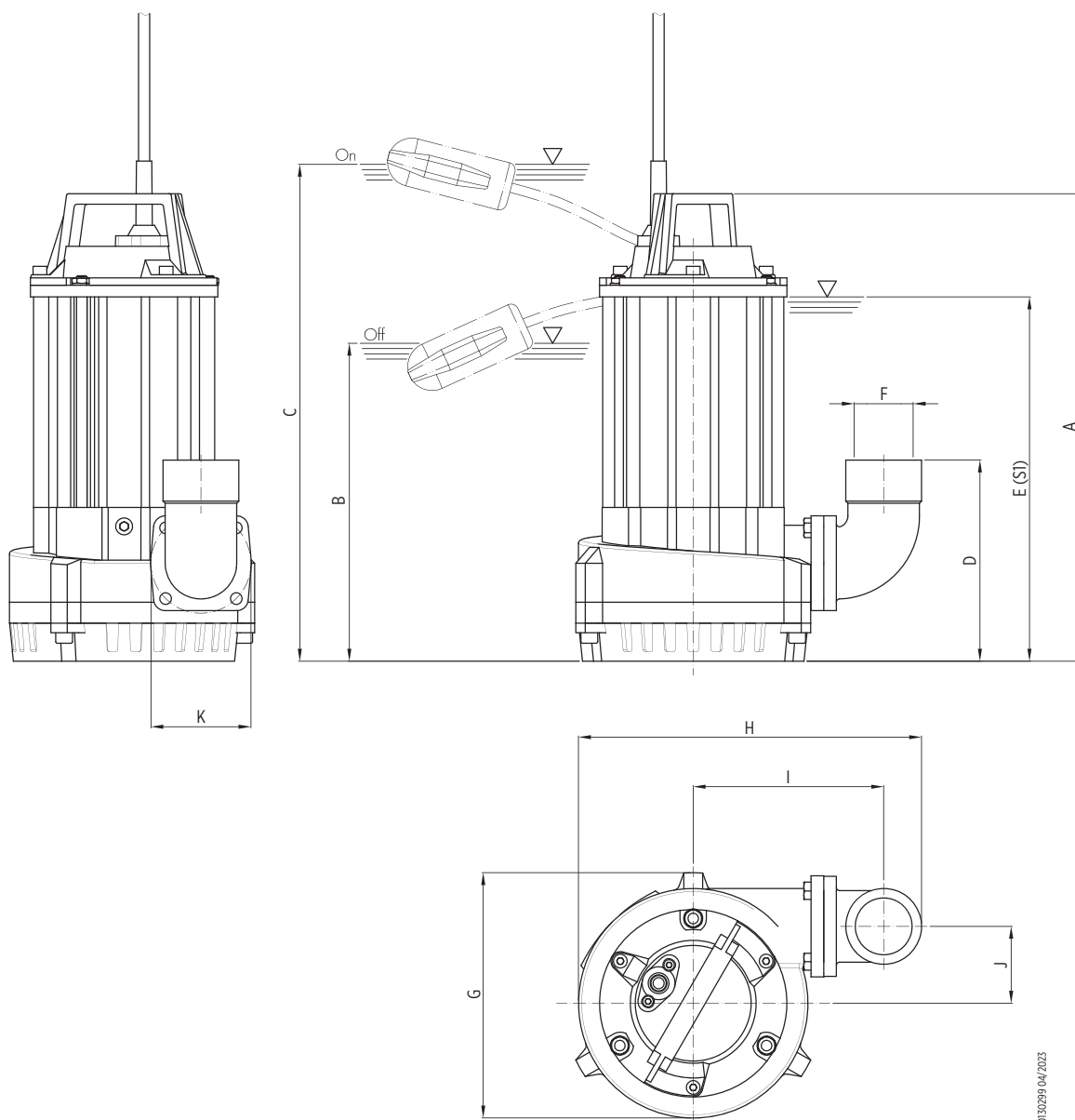
PERFORMANCE CURVES AT 50 HZ



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40FDP-52 / 50FDP-52

DIMENSIONS



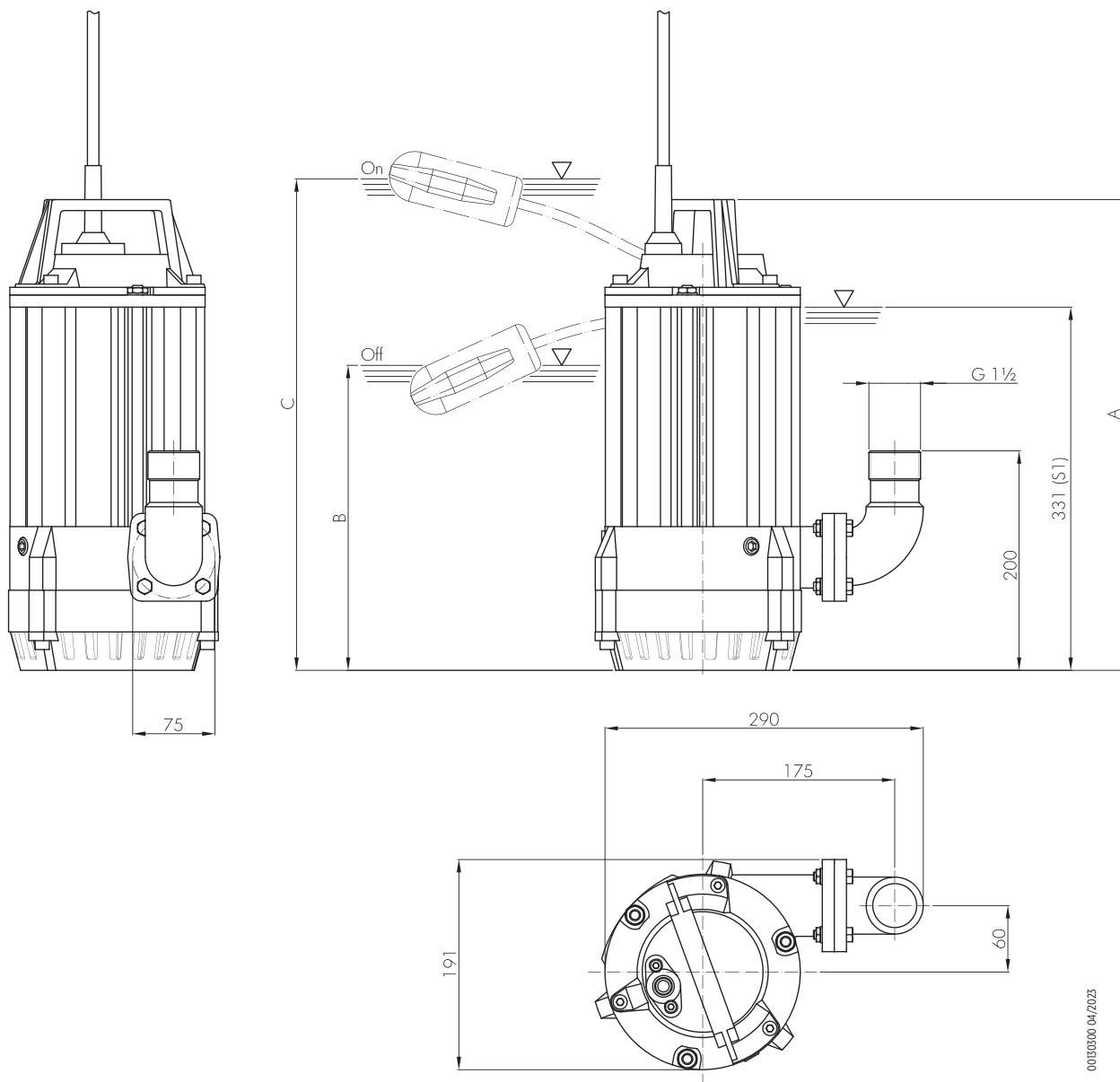
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Pump model	Dimensions [mm]										
	A	B	C	D	E	F	G	H	I	J	K
40FDP-52-1,0M	390	-	-	162	290	G1½	190	290	175	60	75
40FDP-52-1,0M-G	390	230	440	162	290	G1½	190	290	175	90	75
40FDP-52-1,0T	390	-	-	162	290	G1½	190	290	175	60	75
40FDP-52-1,0T-G	390	-	-	162	290	G1½	190	290	175	60	75
40FDP-52-1,1T	390	-	-	162	290	G1½	190	290	175	60	75
40FDP-52-1,1T-G	390	-	-	162	290	G1½	190	290	175	60	75
50FDP-52-1,4M	445	-	-	190	345	G2	233	326	180	73	95
50FDP-52-1,4M-G	485	240	530	190	345	G2	233	326	180	73	95
50FDP-52-1,8M	445	-	-	190	345	G2	233	326	180	73	95
50FDP-52-1,8M-G	485	240	530	190	345	G2	233	326	180	73	95
50FDP-52-1,8T	445	-	-	190	345	G2	233	326	180	73	95
50FDP-52-1,8T-G	485	240	530	190	345	G2	233	326	180	73	95
50FDP-52-2,2T	445	-	-	190	345	G2	233	326	180	73	95
50FDP-52-2,2T-G	485	240	530	190	345	G2	233	326	180	73	95

Package		
Pump model	Dimensions [mm]	Weight [kg]
40FDP-52-1,0M	255x205x560	20,7
40FDP-52-1,0M-G	290x245x585	21
40FDP-52-1,0T	255x205x560	20,7
40FDP-52-1,0T-G	255x205x560	20,7
40FDP-52-1,1T	255x205x560	20,7
40FDP-52-1,1T-G	255x205x560	22,7
50FDP-52-1,4M	300x260x585	24
50FDP-52-1,4M-G	300x260x585	26
50FDP-52-1,8M	300x260x585	28
50FDP-52-1,8M-G	300x260x585	30
50FDP-52-1,8T	300x260x585	26
50FDP-52-1,8T-G	300x260x585	28
50FDP-52-2,2T	300x260x585	27
50FDP-52-2,2T-G	300x260x585	29

40FDP-52-HH

DIMENSIONS



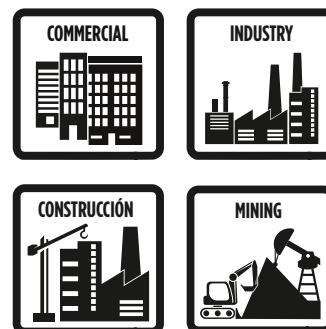
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Pump model	Dimensions [mm]		
	A	B	C
40FDP-52-1,4M-HH	429	-	-
40FDP-52-1,4M-G-HH	469	250	570
40FDP-52-1,8M-HH	429	-	-
40FDP-52-1,8M-G-HH	469	250	570
40FDP-52-1,8T-HH	429	-	-
40FDP-52-1,8T-G-HH	469	250	570

Package		
Pump model	Dimensions [mm]	Weight [kg]
40FDP-52-1,4M-HH	290x245x585	23
40FDP-52-1,4M-G-HH	290x245x585	25
40FDP-52-1,8M-HH	290x245x585	26
40FDP-52-1,8M-G-HH	290x245x585	28
40FDP-52-1,8T-HH	255x205x560	22,7
40FDP-52-1,8T-G-HH	290x245x585	25

70-80FDP Series - Submersible drainage pumps

- Pump models:
 - 70FDP-52 (discharge Ø 70 mm, 2 poles motor)
 - 80FDP-52 (discharge Ø 80 mm G3", 2 poles motor)
- Impeller features: open in martensitic Stainless steel
- Double mechanical seal
- Main components in aluminum to reduce weight
- Wear plate with NBR rubber coating
- External capacitor
- Wide range of available accessories
- Construction versions:
 - Polyurethane rubber coating
 - Threaded G2"½ M discharge nozzle
 - Threaded G3" M discharge nozzle (70 FDP)
 - Hose Ø 70 mm discharge nozzle (80FDP)



✓ **Alluminium components**

Technical data

- Flow: up to 100.8 m³/h
- Total Head: up to 23.3 m
- Motor power: 2.2 - 4.1 kW
- Minimum immersion depth: 457 mm
- Maximum immersion depth: 5 m
- Free passage: 6 mm

ACCESSORIES

- Storz coupling
- Sacrificial anodes belt
- For more information about accessories see p. 43



Open impeller



Drainage and dewatering
(clear and turbid water)



Rainwater recovery



Emergency flood
water drainage



Construction site
drainage and
dewatering



Mining, quarrying
drainage and
dewatering



Suitable fluids
containing abrasive
particles

70-80FDP Series - Submersible drainage pumps

PRODUCT IDENTIFICATION CODE

	FDP	-	5	2	-	2,2	M
							Phases: "M" (Single-phase); "T" (Three-phase)
							Rated power [kW]
							No. of poles: "2" (2 poles)
							Frequency: "5" (50 Hz), "6" (60 Hz)
							Pump model: FDX (Franklin Dewatering Residential Inox)
							Ø discharge [mm]: "70" (70 mm) ; "80" (80 mm)

001401E3 04/2026

GENERAL FEATURES

Materials/Constr.design		
Impeller		Martensitic stainless steel
External casing		Aluminium alloy
Pump body		Aluminium alloy
Cover		Aluminium alloy
Filter		Stainless steel AISI304
Wear plate		Aluminium alloy with NBR rubber coating
Mechanical seal	motor side	Graphite/Alumina
	pump side	Silicon carbide (SiC/SiC)
Motor shaft		Stainless steel AISI420
Power cable	Type	10 m H07RN-F
	Single-phase 70FDP-52-2,2M	4G2,5mm ² , capacitor box and SCHUKO plug (CEE 7/VII)
	Three-phase 80FDP-52-4,1T	4G2,5mm ²
	Three-phase	4G1,5mm 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	230 V ±6%
	Three-phase	230V ±10%, 400V ±10%
Operating limits		
Maximum liquid temperature		+40 °C
pH of pumped liquid		5 - 8
Liquid density		1,1 kg/dm ³
Maximum immersion depth		5 m
Min. immersion depth for continuous service		457 mm
Free passage		6 mm
Max. number of starting/hour		20
Construction options		

- 60 Hz version
- Different voltages
- With coating in composite material for wear protection (possible variations of the hydraulic performance)

70FDP-52

HYDRAULIC PERFORMANCE 50 HZ

Pump model	Q = Delivery								
	l/sec 0	2	4	6	8	10	12	15	20
	m ³ /h 0	7,2	14,4	21,6	28,8	36	43,2	54	72
	US gpm 0	31,7	63,4	92,1	126,8	158,5	190,2	237,7	317
H = Total meters head of water column [m]									
70FDP-52-2,2	16	15	14	12,8	11,3	9,6	8	5	
70FDP-52-3,5	21	20,5	19,5	18,5	17	15,5	13,5	9,5	4

Application range

TECHNICAL DATA

Pump model	Motor absorbed power P ₁	Rated power P ₂		Voltage	Rated current	Phases	Power cable		Float switch	Starting capacitor	Discharge port	Weight [kg]
	[kW]	[kW]	[HP]	[V]	[A]		Length [m]	Type		[μf]		
70FDP-52-2,2M	3	2,2	3	230	14	1 ~	10	4G2,5	-	50	Ø70	33
70FDP-52-2,2T	3	2,2	3	400	5,2	3 ~	10	4G1,5	-	-	Ø70	30
70FDP-52-3,5T	4,7	3,5	4,7	400	8	3 ~	10	4G1,5	-	-	Ø70	31

"-" = not available

• = available

80FDP-52

HYDRAULIC PERFORMANCE 50 HZ

Pump model	Q = Delivery										
	l/sec 0	2	4	6	8	10	12	15	20	25	28
	m ³ /h 0	7,2	14,4	21,6	28,8	36	43,2	54	72	90	100,8
	US gpm 0	31,7	63,4	92,1	126,8	158,5	190,2	237,7	317	396,2	443,8
H = Total meters head of water column [m]											
80FDP-52-4,1	23,3	22,9	22,5	21	20,5	18,5	17,5	15,8	11,5	6,5	3,8

Application range

TECHNICAL DATA

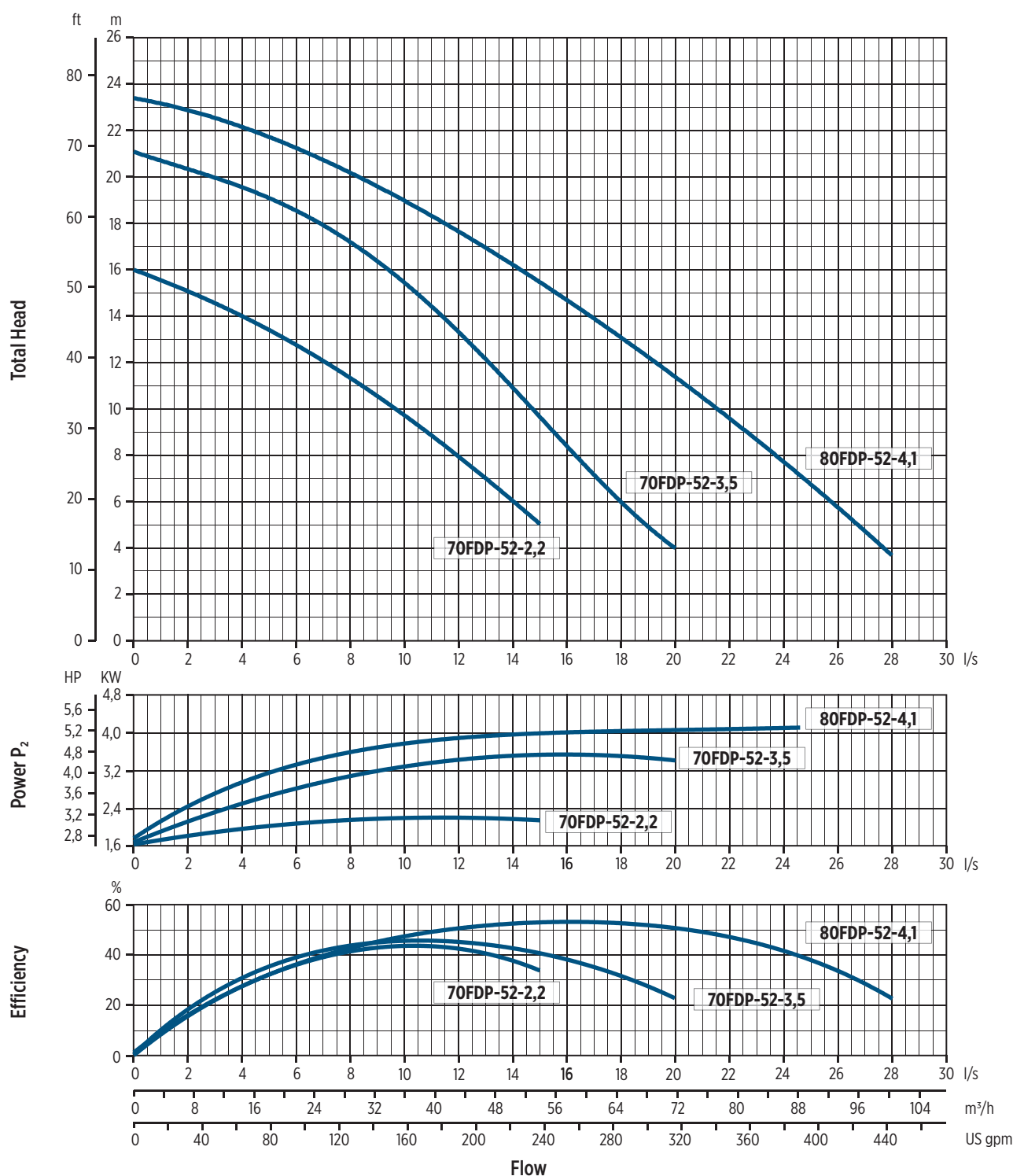
Pump model	Motor absorbed power P ₁	Rated power P ₂		Voltage	Rated current	Phases	Power cable		Float switch	Starting capacitor	Discharge port	Weight [kg]
	[kW]	[kW]	[HP]	[V]	[A]		Length [m]	Type		[μf]		
80FDP-52-4,1T	6,2	4,1	5,5	400	9,9	3 ~	10	4G2,5	-	-	G3	35

"-" = not available

• = available

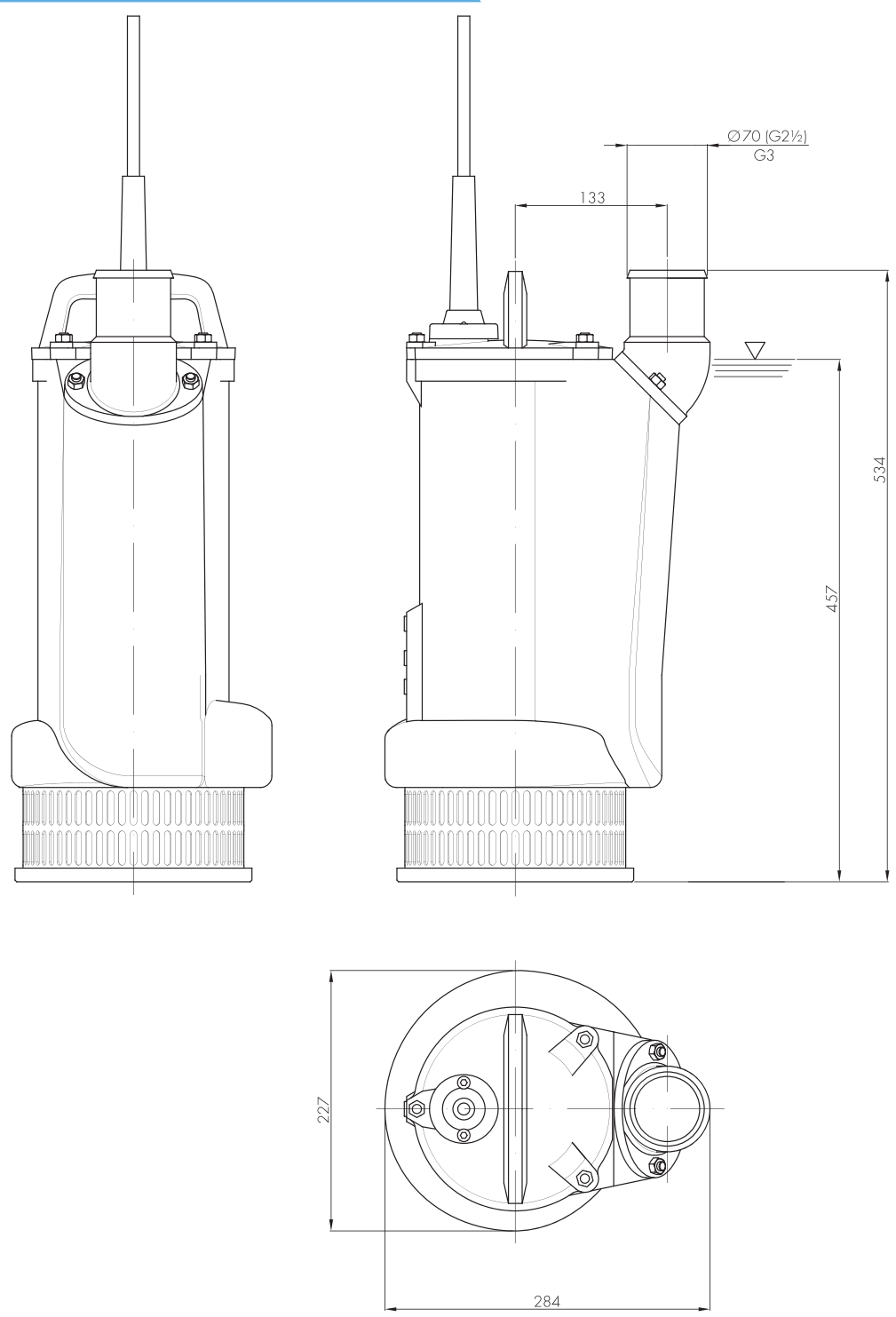
70FDP-52 / 80FDP-52

PERFORMANCE CURVES AT 50 HZ



70FDP-52 / 80FDP-52

DIMENSIONS



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Package		
Pump model	Dimensions [mm]	Weight [kg]
70FDP-52-2,2	300x260x585	34
70FDP-52-3,5	290x245x585	32
80FDP-52-4,1	300x260x585	36



100-150FDP Series - Submersible drainage pumps

- Pump models:
 - 100FDP-52-...-LH
(discharge Ø 100mm, 2 poles motor, Low Head version)
 - 100FDP-52-...-HH
(discharge Ø 100mm, 2 poles motor, High Head version)
 - 150FDP-52-...-LH
(discharge Ø 150mm, 2 poles motor, Low Head version)
- Impeller features: open impeller in High chrome cast iron
- Main components in cast iron and stainless steel
- Hydraulic parts with polyurethane rubber coating
- Cable length: 20 m
- Stainless steel handle
- Wide range of available accessories
- Construction versions:
 - Threaded G4" M discharge nozzle (100FDP-52, 150FDP-52-11, 150FDP-52-15)
 - Threaded G6" M discharge nozzle (100FDP-52-11, 100FDP-52-15, 150FDP-52-15)
 - Hose Ø150mm discharge nozzle (100FDP-52-11, 100FDP-52-15)
 - Hose Ø 100mm discharge nozzle (150FDP-52-11, 150FDP-52-15)

Technical data

- Flow: up to 252 m³/h
- Total Head: up to 62 m
- Motor power: 5.5 - 15 kW
- Minimum immersion depth:
 - 150 mm (100FDP-52-5,5T / 100FDP-52-6,5T / 100FDP-52-8,1T)
 - 200 mm (100FDP-52-11-HH / 100FDP-52-15-HH / 150FDP-52-11-LH / 150FDP-52-15-LH)
- Maximum immersion depth: 15 m
- Free passage:
 - 6 mm (100FDP-52-5,5T / 100FDP-52-6,5T / 100FDP-52-8,1T)
 - 10 mm (100FDP-52-11-HH / 100FDP-52-15-HH / 150FDP-52-11-LH / 150FDP-52-15-LH)

ACCESSORIES

- Threaded discharge port
- Storz coupling
- Sacrificial anodes belt
- Conductivity probe
- For more information about accessories see p. 43



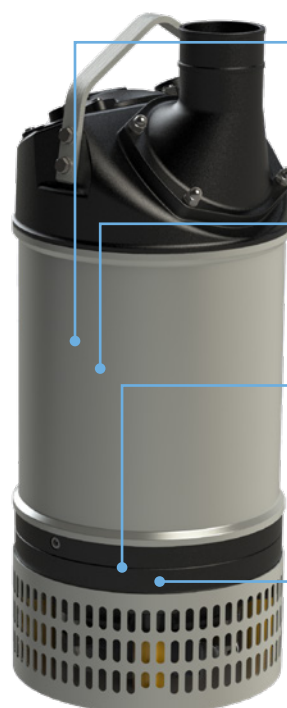
Cast iron and Stainless steel components

Motor with phase separators

Thermal probe
in the winding

Double mechanical seal

High chrome cast iron impeller



Open impeller



Poliuretanic rubber coating

components in contact with the fluid



Drainage and dewatering
(clear and turbid water)



Rainwater recovery



Emergency flood
water drainage



Construction site
drainage and
dewatering



Mining, quarrying
drainage and
dewatering



Suitable fluids
containing abrasive
particles

100-150FDP Series - Submersible drainage pumps

PRODUCT IDENTIFICATION CODE

FDP	-	5	2	-	6,5	T	-	HH
								"HH" (high head version)
								"LH" (low head version)
								Phases: "M" (Single-phase); "T" (Three-phase)
								Rated power [kW]
								No. of poles: "2" (2 poles)
								Frequency: "5" (50 Hz), "6" (60 Hz)
								Pump model: FDX (Franklin Dewatering Residential Inox)
								Ø discharge [mm]: "100" (100 mm) ; "150" (150 mm)

004014 04/2026

GENERAL FEATURES

Materials/Constr.design		
Impeller		High chrome cast iron
External casing		Stainless steel AISI304
Pump body		Cast iron EN GJL 200 with poliuretanic rubber coating
Cover		Cast iron EN GJL250
Filter		Stainless steel AISI304
Wear plate		Cast iron EN GJL 250 with poliuretanic rubber coating
Mechanical seal	motor side	Graphite/Alumina
	pump side	Silicon carbide (SiC/SiC)
Motor shaft		Stainless steel AISI431
Power cable	100FDP-52-5,5T / 100FDP-52-6,5T	20 m 4G2,5+3x1mm ² , SIRN8-F type
	100FDP-52-8,1T	20 m 4G4+3x1mm ² , SIRN8-F type
	100FDP-52-11-HH / 100FDP-52-15-HH / 150FDP-52-11-LH / 150FDP-52-15-LH	20 m 7G4+2x1,5mm ² , 07RN-F type
Motor		
Constr.design		asynchronous squirrel cage-type in dry chamber
Type		2 poles; 50 Hz
Insulation class		F
Protection degree		IP68
Voltage	Three-phase	400V ±10%
Operating limits		
Maximum liquid temperature		+40 °C
pH of pumped liquid		6 - 10
Liquid density		1,1 kg/dm ³
Maximum immersion depth		15 m
Maximum immersion depth	100FDP-52-5,5T / 100FDP-52-6,5T / 100FDP-52-8,1T	150 mm
	100FDP-52-11-HH / 100FDP-52-15-HH / 150FDP-52-11-LH / 150FDP-52-15-LH	200 mm
Free passage	100FDP-52-5,5T / 100FDP-52-6,5T / 100FDP-52-8,1T	10 mm
	100FDP-52-11-HH / 100FDP-52-15-HH / 150FDP-52-11-LH / 150FDP-52-15-LH	6 mm
Max. number of starting/hour		15
Construction options		

- 60 Hz version
- Different voltages
- Inner control of the thermal probes in the winding, control sequence and lack of phase (on request)

100FDP-52-5,5/ 100FDP-52-8,1

HYDRAULIC PERFORMANCE 50 HZ

Pump model	Q = Delivery											
	l/sec 0	2,5	5	10	15	20	25	30	35	40	45	50
	m ³ /h 0	9	18	36	54	72	90	100,8	108	144	162	180
	US gpm 0	39,6	79,2	158,5	237,7	317	396,2	443,8	475,5	634	713,3	792,5
H = Total meters head of water column [m]												
100FDP-52-5,5 LH	18,9		17,5	15,7	13,4	11,3	9,1	7	5,1	2,5		
100FDP-52-5,5 HH	30	27,9	26	20,8	14,6	6,3						
100FDP-52-6,5 LH	22,4		21,4	20	17,6	15,1	12,7	10,9	8,8	6,6	3	
100FDP-52-6,5 HH	35,3	32,3	29,5	23,2	16,7	8,3						
100FDP-52-8,1 LH	25,9		24,6	22,9	20,7	18,3	15,9	14,1	12,1	9,7	6,8	3
100FDP-52-8,1 HH	45	40,7	36,6	28,8	20,2	10,1						

Application range

TECHNICAL DATA

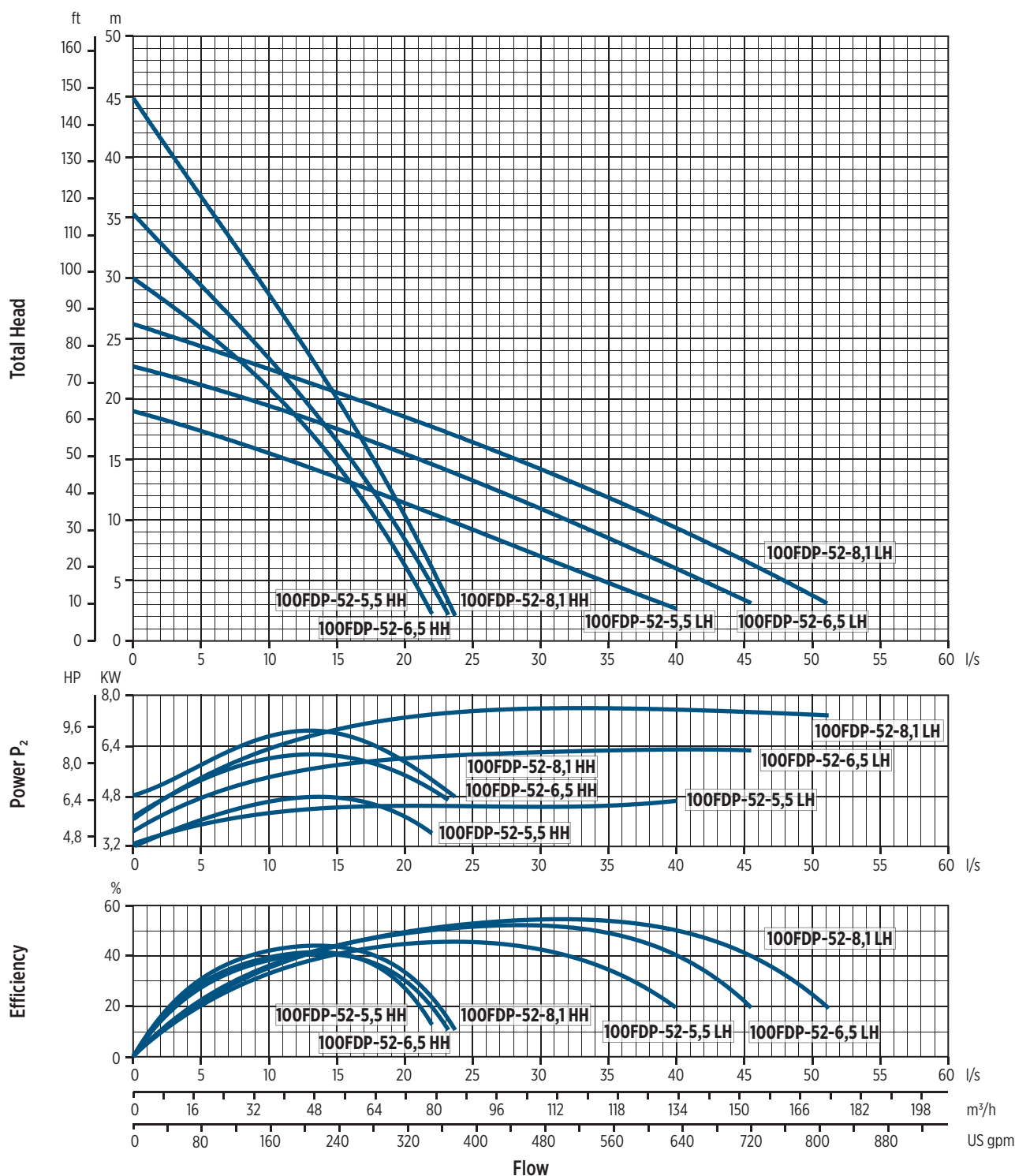
Pump model	Motor absorbed power P ₁	Rated power P ₂		Voltage	Rated current	Phases	Power cable		Float switch	Starting capacitor	Discharge port	Weight [kg]
	[kW]	[kW]	[HP]	[V]	[A]		Length [m]	Type		[μf]		
100FDP-52-5,5T-LH	6	5,5	7,5	400	11	3 ~	20	4G2,5+3x1	-	-	Ø100	125
100FDP-52-5,5T-HH	6	5,5	7,5	400	11	3 ~	20	4G2,5+3x1	-	-	Ø100	125
100FDP-52-6,5T-LH	7,2	6,5	8,8	400	13	3 ~	20	4G2,5+3x1	-	-	Ø100	130
100FDP-52-6,5T-HH	7,2	6,5	8,8	400	13	3 ~	20	4G2,5+3x1	-	-	Ø100	130
100FDP-52-8,1T-LH	9	8,1	11	400	16	3 ~	20	4G4+3x1	-	-	Ø100	135
100FDP-52-8,1T-HH	9	8,1	11	400	15	3 ~	20	4G4+3x1	-	-	Ø100	135

"-" = not available

• = available

100FDP-52-5,5/ 100FDP-52-8,1

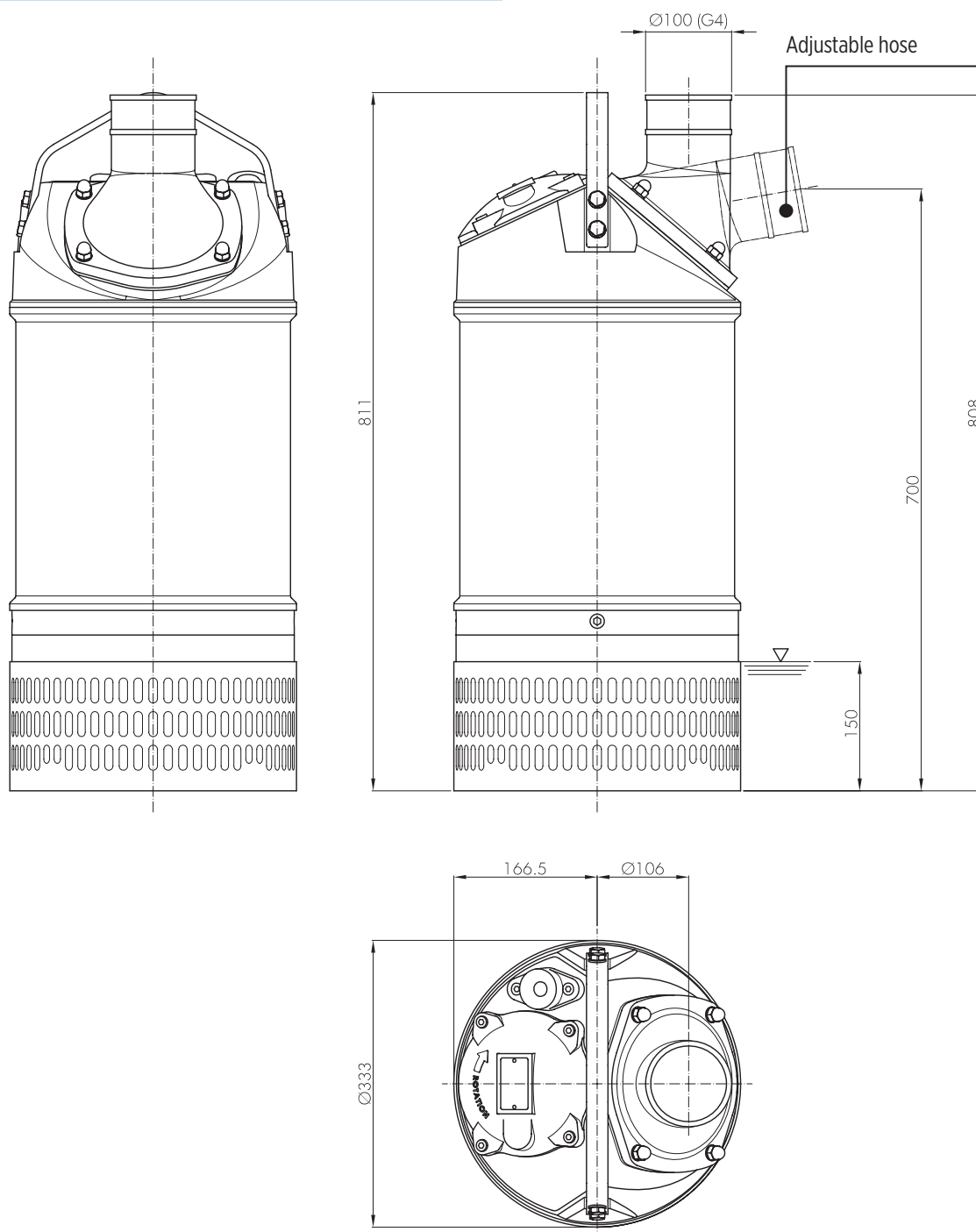
PERFORMANCE CURVES AT 50 HZ



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100FDP-52-5,5/ 100FDP-52-8,1

DIMENSIONS



00150302 04/2023

Package		
Pump model	Dimensions [mm]	Weight [kg]
100FDP-52-5,5T-LH	475x370x985	128
100FDP-52-5,5T-HH		128
100FDP-52-6,5T-LH		133
100FDP-52-6,5T-HH		133
100FDP-52-8,1T-LH		138
100FDP-52-8,1T-HH		138

100FDP-52-11 / 100FDP-52-15

HYDRAULIC PERFORMANCE 50 HZ

Pump model	Q = Delivery							
	l/sec 0	5	10	15	20	25	30	35
	m ³ /h 0	18	36	54	72	90	100,8	108
	US gpm 0	79,2	158,5	237,7	317	396,2	443,8	475,5
H = Total meters head of water column [m]								
100FDP-52-11 HH	60	52,8	44,9	35,3	24	10		
100FDP-52-15 HH	62	54,6	48,4	42	35,1	25,8	16,4	2,3

Application range

TECHNICAL DATA

Pump model	Motor absorbed power P ₁	Rated power P ₂		Voltage	Rated current	Phases	Power cable		Float switch	Starting capacitor	Discharge port	Weight [kg]
	[kW]	[kW]	[HP]	[V]	[A]		Length [m]	Type		[μf]		
100FDP-52-11T-HH	13	11	14,9	400	22	3 ~	20	7G4+2x1,5	-	-	Ø100	192
100FDP-52-15T-HH	17	15	20,4	400	28	3 ~	20	7G4+2x1,5	-	-	Ø100	204

"-" = not available

• = available

150FDP-52-11 / 150FDP-52-15

HYDRAULIC PERFORMANCE 50 HZ

Pump model	Q = Delivery														
	l/sec 0	5	10	15	20	25	30	35	40	45	50	55	60	65	70
	m ³ /h 0	18	36	54	72	90	100,8	108	144	162	180	198	216	234	252
	US gpm 0	79,2	158,5	237,7	317	396,2	443,8	475,5	634	713,3	792,5	871,8	951	1.030,3	1.109,5
H = Total meters head of water column [m]															
150FDP-52-11 LH	30	28,3	26,8	24,8	22,8	21	19,3	17,2	15,3	13	10,7	6,7	3		
150FDP-52-15 LH	32	30,6	29,3	27,8	26,4	24,3	22,3	20,3	18,5	16,6	14,8	12,4	10,1	6	2

Application range

TECHNICAL DATA

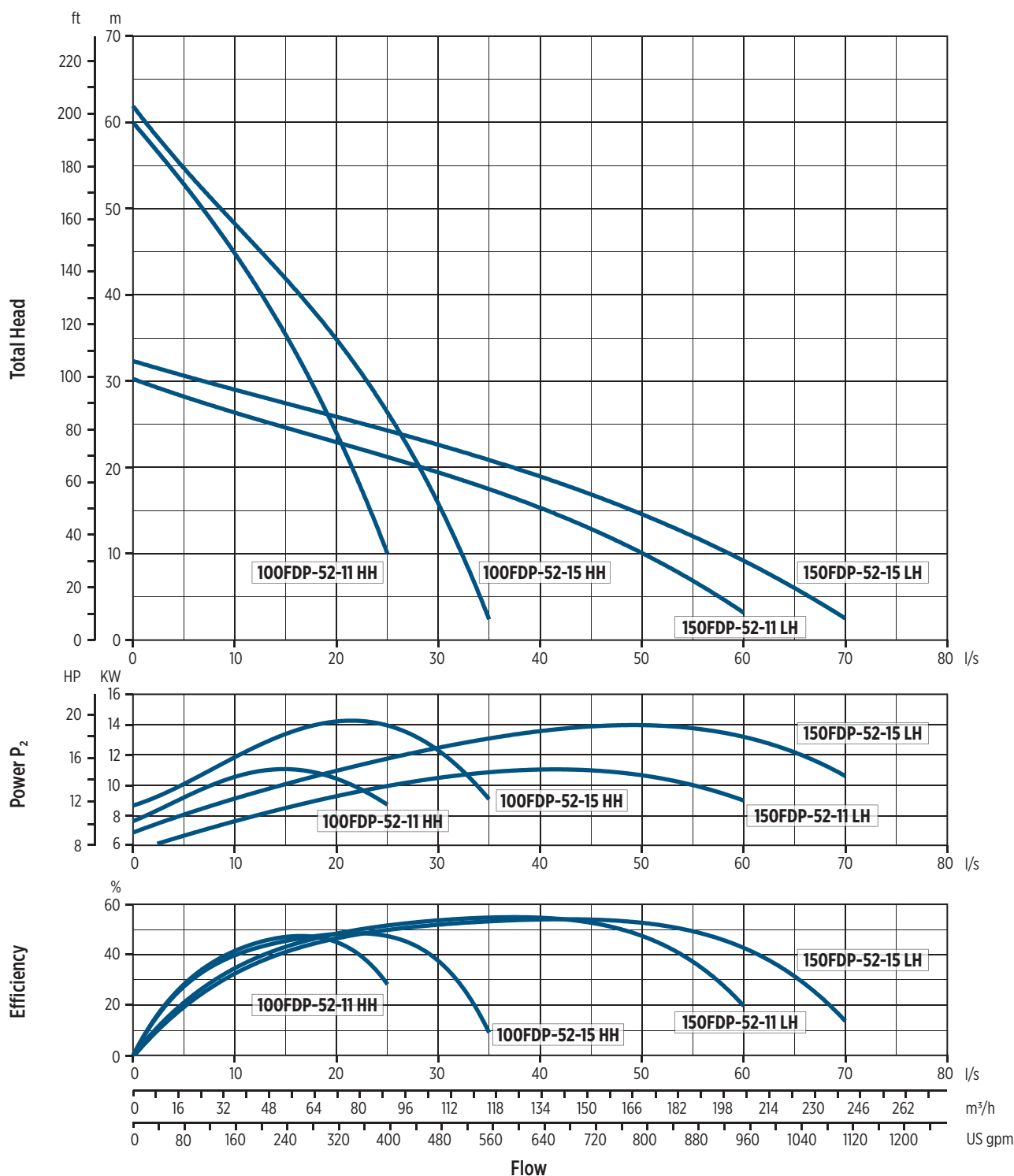
Pump model	Motor absorbed power P ₁	Rated power P ₂		Voltage	Rated current	Phases	Power cable		Float switch	Starting capacitor	Discharge port	Weight [kg]
	[kW]	[kW]	[HP]	[V]	[A]		Length [m]	Type		[μf]		
150FDP-52-11T-LH	13	11	14,9	400	22	3 ~	20	7G4+2x1,5	-	-	Ø150	192
150FDP-52-15T-LH	17	15	20,4	400	28	3 ~	20	7G4+2x1,5	-	-	Ø150	204

"-" = not available

• = available

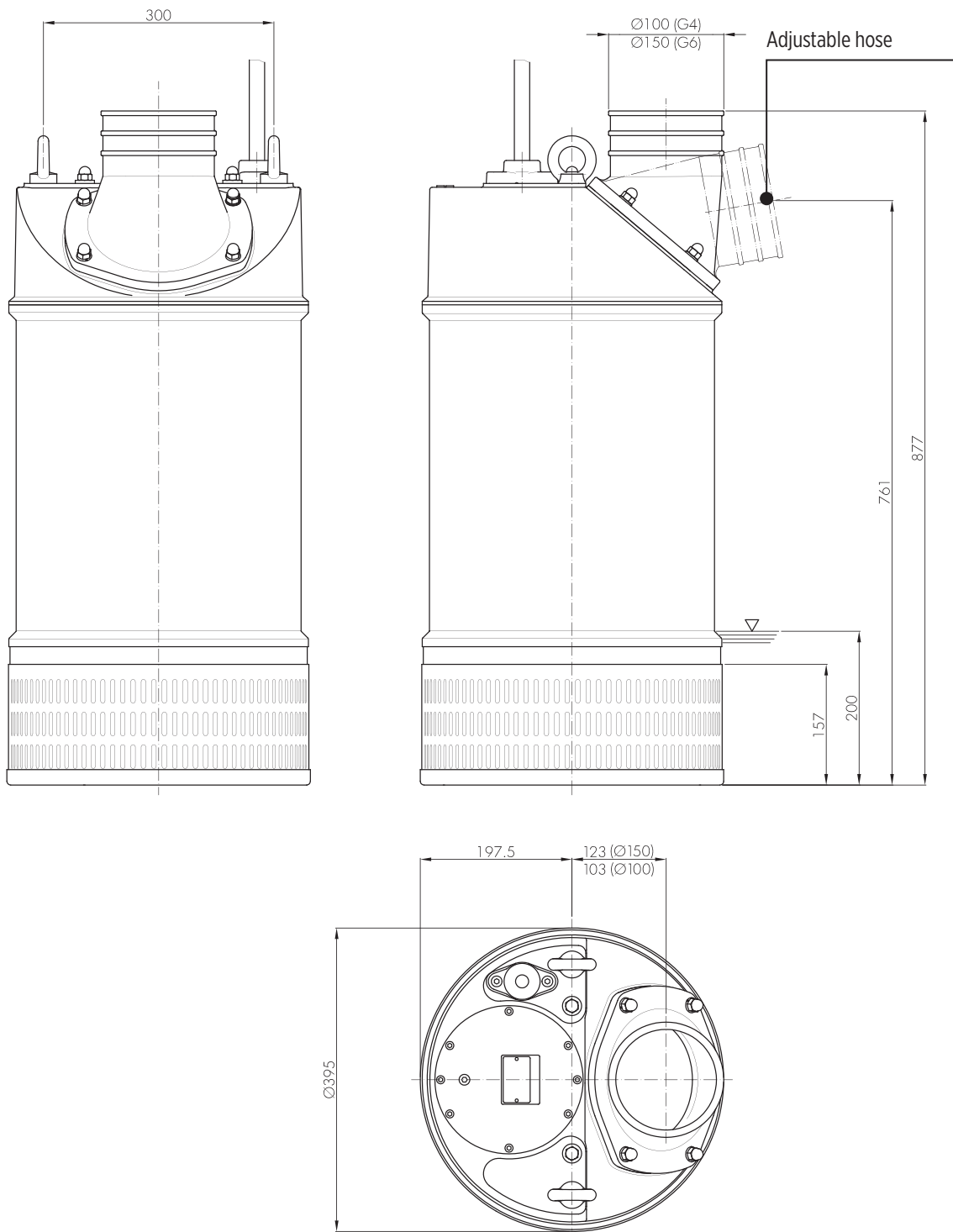
100FDP-52-11 / 100FDP-52-15 / 150FDP-52-11 / 150FDP-52-15

PERFORMANCE CURVES AT 50 HZ



100FDP-52-11 / 100FDP-52-15 / 150FDP-52-11 / 150FDP-52-15

DIMENSIONS



00130303 04/2023

Package		
Pump model	Dimensions [mm]	Weight [kg]
150FDP-52-11T-LH	620x420x1030	196
100FDP-52-11T-HH		196
150FDP-52-15T-LH		208
100FDP-52-15T-HH		208

150FDP Series – Submersible drainage pumps

- Pump model:
 - 150FDP-52 (discharge Ø 150 mm, 2 poles motor)
- Impeller features: open impeller in Stainless steel AISI 304
- Double mechanical seal
- Cable length: 20 m
- Stainless steel handle
- Wide range of accessories available
- Construction versions: Threaded G6" M discharge nozzle

Technical data

- Flow: up to 324 m³/h
- Total Head: up to 35 m
- Motor power: 22 kW
- Minimum immersion depth: 350 mm
- Maximum immersion depth: 15 m
- Free passage: 7 mm

ACCESSORIES

- Threaded discharge port
- Storz coupling
- Sacrificial anodes belt
- For more information about accessories see p. 43



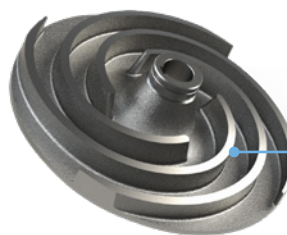
**Alluminium alloy
and Stainless steel
components**

**Motor with phase
separators**

**Thermal probe
in the winding**

**Double
mechanical seal**

**High chrome cast iron
impeller**



Open impeller



**Poliuretanic rubber
coating**
components in contact with
the fluid



Drainage and dewatering
(clear and turbid water)



Rainwater recovery



Emergency flood
water drainage



Construction site
drainage and
dewatering



Mining, quarrying
drainage and
dewatering



Suitable fluids
containing abrasive
particles

150FDP Series – Submersible drainage pumps

PRODUCT IDENTIFICATION CODE

FDP - 5 2 - 22 T

Phases: "M" (Single-phase); "T" (Three-phase)
 Rated power [kW]
 No. of poles: "2" (2 poles)
 Frequency: "5" (50 Hz), "6" (60 Hz)
 Pump model: FDX (Franklin Dewatering Residential Inox)
 Ø discharge [mm]: "150" (150 mm)

00140115 04/2026

GENERAL FEATURES

Materials/Constr.design		
Impeller		Stainless steel AISI304
External casing		Aluminium alloy
Pump body		Aluminium alloy with rubber coating
Cover		Aluminium alloy
Filter		Aluminium alloy
Wear plate		Stainless steel AISI304 with rubber coating
Mechanical seal	motor side	Graphite/Alumina
	pump side	Silicon carbide (SiC/SiC)
Motor shaft		Stainless steel AISI431
Power cable		20 m 7G4+2x1,5mm², 07RN-F type
Motor		
Constr.design		asynchronous squirrel cage-type in dry chamber
Type		2 poles; 50 Hz
Insulation class		F
Protection degree		IP68
Voltage	Three-phase	400V ±10%
Operating limits		
Maximum liquid temperature		+40 °C
pH of pumped liquid		5 - 8
Liquid density		1,1 kg/dm³
Maximum immersion depth		15 m
Min. immersion depth for continuous service		350 mm
Free passage		7 mm
Max. number of starting/hour		10
Construction options		

- 60 Hz version
- Different voltages

150FDP-52-22

HYDRAULIC PERFORMANCE 50 HZ

Pump model	Q = Delivery											
	l/sec 0	20	25	30	35	40	45	50	60	70	80	90
	m ³ /h 0	72	90	100,8	108	144	162	180	216	252	288	324
	US gpm 0	317	396,2	443,8	475,5	634	713,3	792,5	951	1.109,5	1.268	1.426,5
H = Total meters head of water column [m]												
150FDP-52-22	35	32	31	29	28	26	24	22	18,5	15	11	5

Application range

TECHNICAL DATA

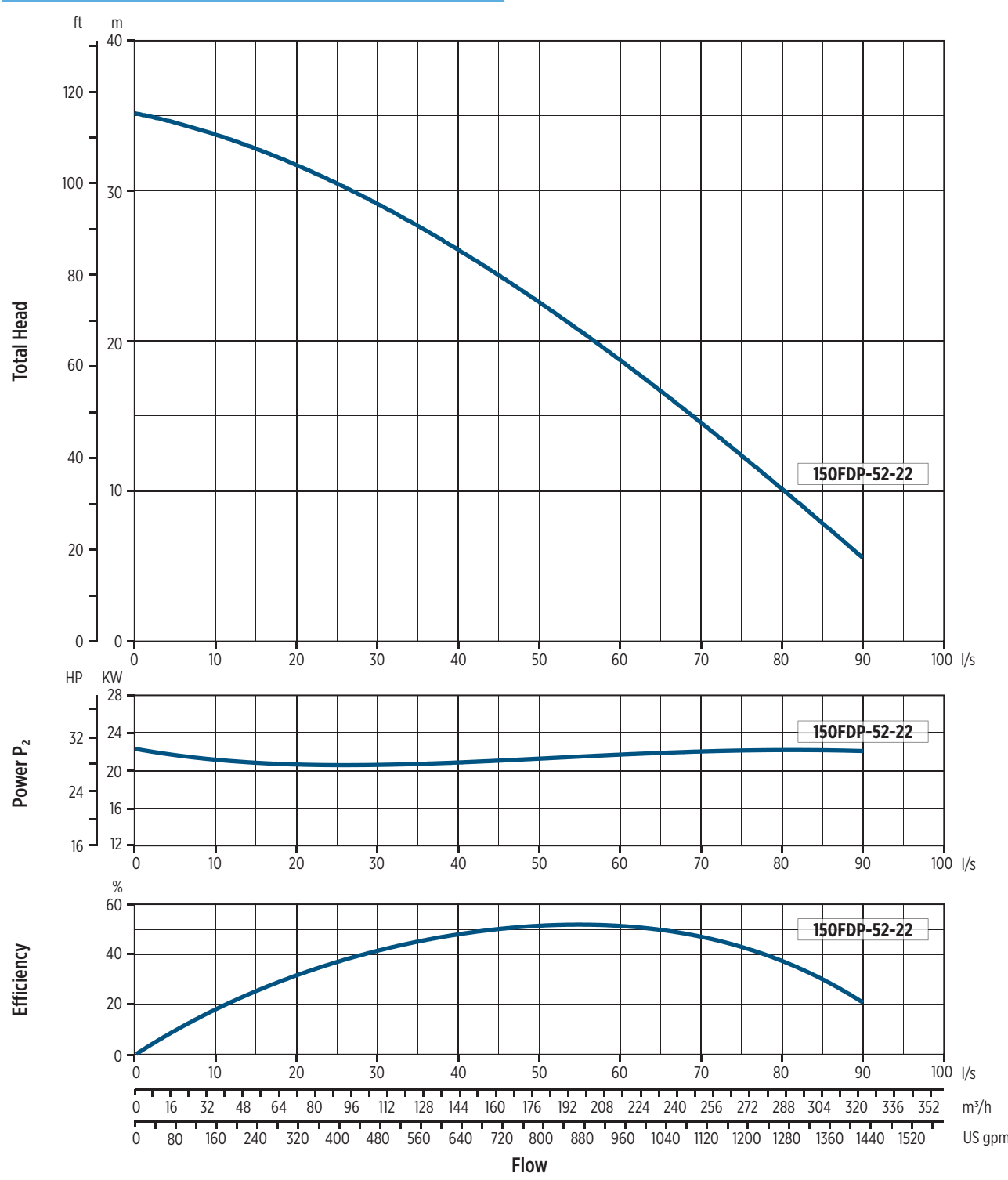
Pump model	Motor absorbed power P ₁	Rated power P ₂		Voltage	Rated current	Phases	Power cable		Float switch	Starting capacitor	Discharge port	Weight [kg]
	[kW]	[kW]	[HP]	[V]	[A]		Length [m]	Type		[μf]		
150FDP-52-22T	28	22	30	400	46	3 ~	20	7G4+2x1,5	-	-	Ø150	183

"-" = not available

• = available

150FDP-52-22

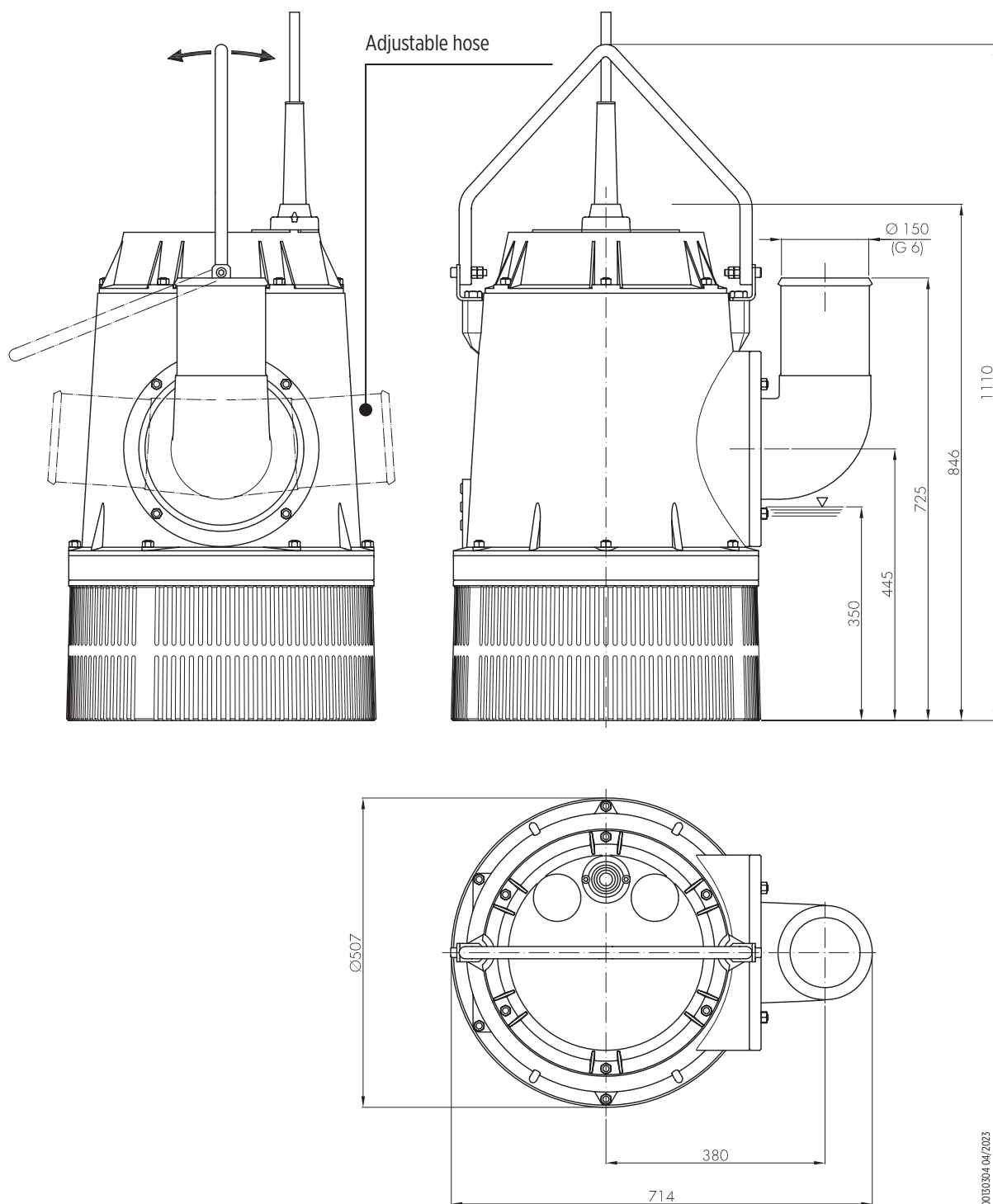
PERFORMANCE CURVES AT 50 HZ



002014-04/2023

150FDP-52-22

DIMENSIONS



00130304 04/2023

Package		
Pump model	Dimensions [mm]	Weight [kg]
150FDP-52-22T	650x800x1200	233

ACCESSORIES

Accessories type		FDX Series		FDP Series						
		40FDX	50FDX	40FDP	50FDP	70-80FDP	100FDP 5.5-6.5-8.1kW	100FDP 11-15kW	150FDP 11-15kW	150FDP 22kW
Hose connection elbow		G1 1/2" M - Ø40 8640XB	G2" M - Ø50 908659B	-	-	-	-	-	-	-
Storz coupling		-	-	DN52(C)/ G1 1/2" F 208626B	DN52(C)/ G2" M 208630B	DN75(B)/ G2 1/2" F 208622B	DN110(A)/ G4" F 208621B	DN110(A)/ G4" F 208621B	DN150/G6" F 208620B	DN150/G6" F 208620B
						DN75(B)/ G3" F 208624B		DN150/G6" F 208620B	DN110(A)/ G4" F 208621B	
Sacrificial anodes belt		-	-	-	-	908713	908717	908711	908711	908715

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

CONSTRUCTION VERSIONS

Pump model	Description
50FDP	NBR rubber coating on wear plate
70FDP	Polyurethane rubber coating on wear plate
	Threaded G2 1/2" M discharge nozzle
	Threaded G3" M discharge nozzle
80FDP	Polyurethane rubber coating on wear plate
	Hose Ø 70 mm discharge nozzle
	Threaded G2 1/2" M discharge nozzle
100FDP-52-5,5 / 100FDP-52-6,5 / 100FDP-52-8,1	Threaded G4" M discharge nozzle
100FDP-52-11/ 100FDP-52-15	Threaded G4" M discharge nozzle
	Hose Ø150mm discharge nozzle
	Threaded G6" M discharge nozzle
150FDP-52-11/ 150FDP-52-15	Threaded G6" M discharge nozzle
	Hose Ø 100mm discharge nozzle
	Threaded G4" M discharge nozzle
150FDP-52-22	Threaded G6" M discharge nozzle

Rev. No.	Changes	Page
01	150FDP Performance curves graphic scale correction	48
	40FDR and 50FDR General Features motor voltage single-phase correction	6, 12
02	70/80 FDP serie General Features table correction	30
04	Deleted FDR Serie	-
	Added FDX Series	All
	Added accessories section	5 - 14
	Added construction options section	43





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