

**Dewatering & Light Sewage
Submersible Pumps - 50 Hz**
FHRM, FSL, FMS & FMP SERIES

Zirantec



www.zirantec.com

CERTIFICATION



ZIRANTEC Pumps & Motors are from the house of **Fabbrica Italiana Pompe Sommergibili S.r.l.** a four decades old Italian company of high repute, offering complete waste water solutions around the world. Its current product portfolio includes world class Waste Water Pumps of various types, Multistage Centrifugal Pressure Booster Pumps, Borehole Submersible Pumps & Motors, End Suction Centrifugal Pumps, Industrial Pumps for various applications.

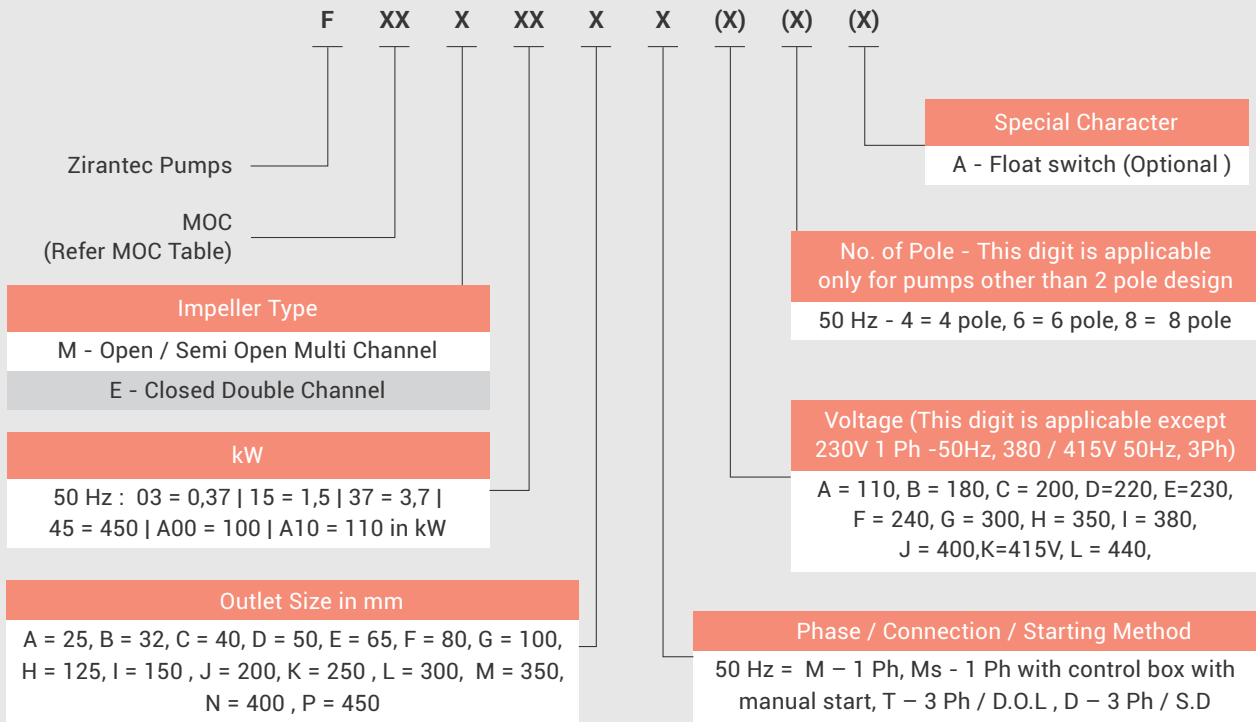
Founded as early as 1978 in Rozzano, South of Milan, Italy by Mr.Orfeo Agostini, the company has witnessed steady growth and market expansion continuously ever since. In these four decades of existence, the company has carved a niche for itself in the waste water and sewage pump market in Italy and other countries. Its products are employed in Municipal, Domestic and Industrial applications. The Company is well known for the unique and robust designs of its products and their workmanship. Due to its superior quality ZIRANTEC products are also exported to many European, African and Asian countries.

ZIRANTEC's products are conceived, designed and manufactured by well qualified and experienced Italian Pump Engineers in state of the art manufacturing facilities in Italy. These manufacturing plants are accredited with UNI EN ISO 9001:2008 Certification.

Over the years, the company has metamorphosed and ventured into manufacturing of high quality water pumps, for domestic, agricultural and industrial applications. In the due process, Fabbrica Italiana Pompe Sommergibili S.r.l. has shed its image of an exclusive sewage and waste water pumps manufacturer to a complete pump production company with an ability to manufacture diverse kinds of pumps for different applications.

Dewatering Submersible Pumps

MODEL IDENTIFICATION CODE - FHRM SERIES



TECHNICAL SPECIFICATIONS

Power Range	0,8 to 5.6 kW
Version	0,8kW - 1Ph, 220V - 50Hz
	1.2 to 5.6kW - 3 Ph, 415V / 525V - 50Hz
Class of Insulation	H Class
Degree of Protection	IP 68
Flow	upto 220 m ³ /h
Head	upto 60 Mtrs
Motor type	Dry-Types
Min cooling flow	0.15m/s
Solid Handling sizes	8 mm to 11.5 mm
Outlet sizes	2", 3", 4" & 6"

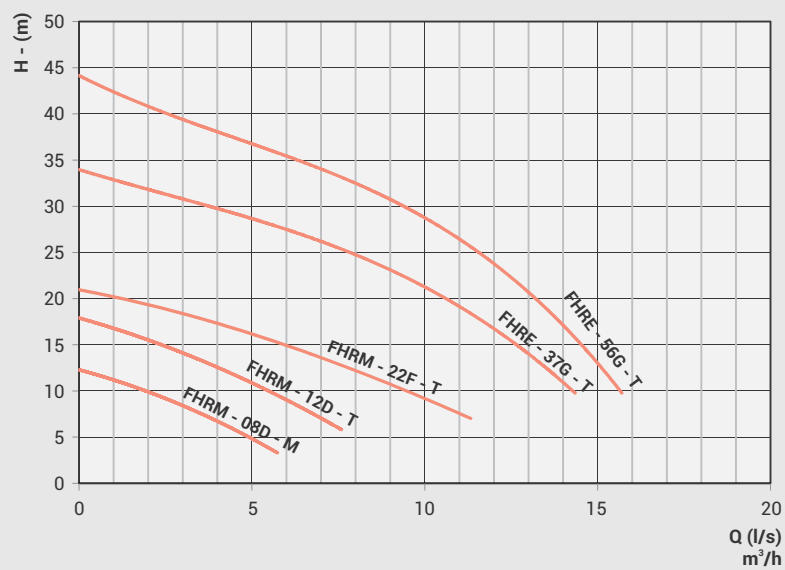
APPLICATIONS

- Dewatering in minning and construction site, flood control,
- Industrial water drainage & transfer handling dirty water

MATERIAL OF CONSTRUCTIONS

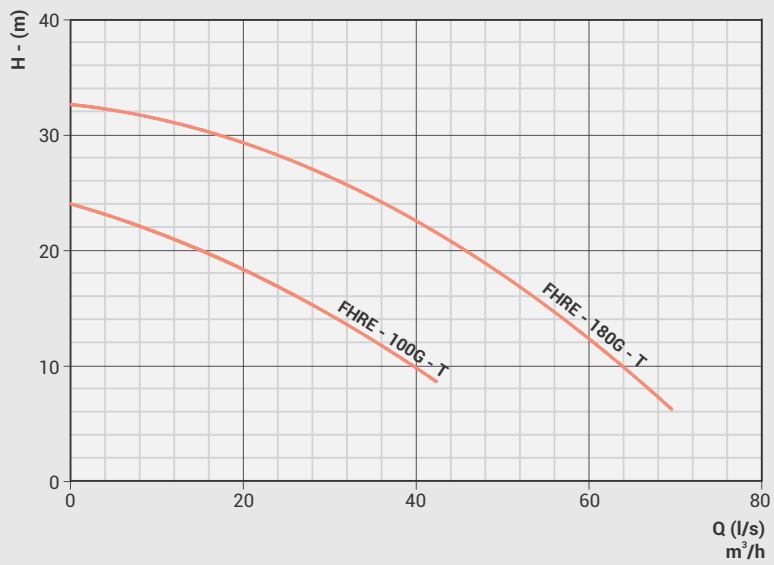
	NR	HR
Pump Casing	Aluminium	Aluminium
Pump Casing Liner	NBR	NBR
Impeller	Ni-Hard	Hi- Chrome
Motor Body	Aluminium	Aluminium
Motor Body Shell	S.S 304	S.S.304
Strainer	S.S 304	S.S.304

Dewatering Submersible Pumps - FHRM Series



S. No.	Model	Pole	Power	Voltage / Phase	Impeller Type
1	FHRM - 08D - M	2	0.8 kW	220 V, Single Phase	Semi Open
2	FHRM - 12D - T	2	1.2 kW	415 V, Three Phase	Semi Open
3	FHRM - 22F - T	2	2.2 kW	415 V, Three Phase	Semi Open
4	FHRE - 37G - T	2	3.7 kW	415 V, Three Phase	Closed
5	FHRE - 56G - T	2	5.6 kW	415 V, Three Phase	Closed

Dewatering Submersible Pumps - FHRM Series



S. No.	Model	Pole	Power	Voltage / Phase	Impeller Type
1	FHRM 100 G-T	4	10 kW	415 V, Three Phase	Closed
2	FHRM 180 G-T	4	18 kW	415 V, Three Phase	Closed

Light Sewage Submersible Pumps - FSL Series

SPECIFICATIONS

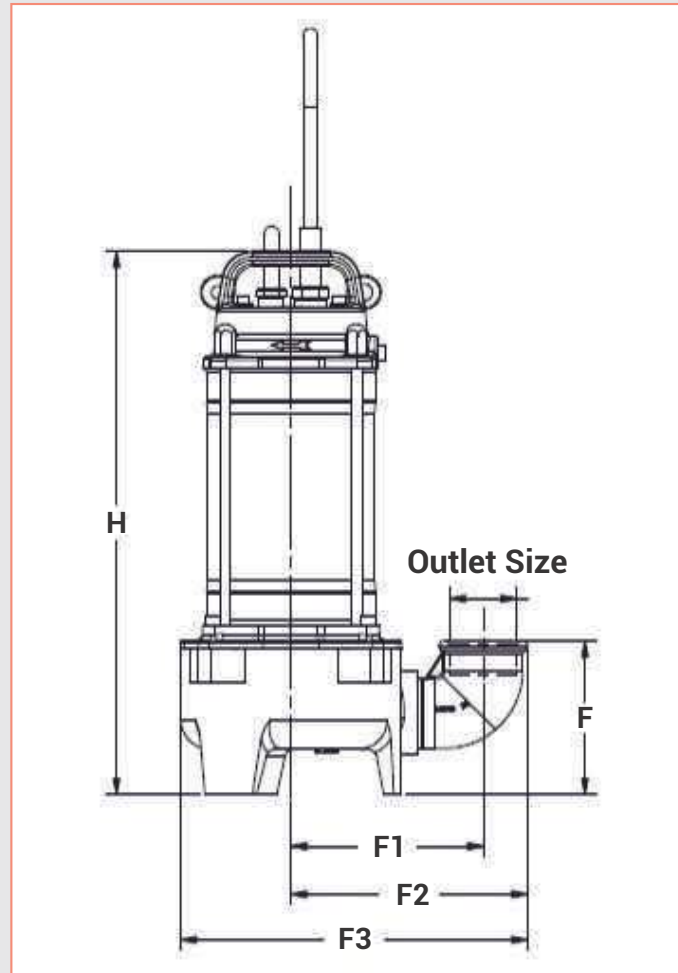
Power Range	Single Phase - 0.5 - 1.5 Kw Three Phase - 0.5 - 2.2 kW
Speed	2850 RPM
Version	Single Phase - 230V - 50Hz A.C. Supply Three Phase - 400V - 50Hz A.C. Supply
Degree of Protection	IP68
Insulation Class	H
Impeller Type	Vortex
Motor Type	Dry
Duty	S1
Direction of Rotation	Clock Wise from Top View
Max. Ambient Temp.	40°C
Delivery Size	1½" BSP 2" BSP 2½" BSP



MATERIAL OF CONSTRUCTION

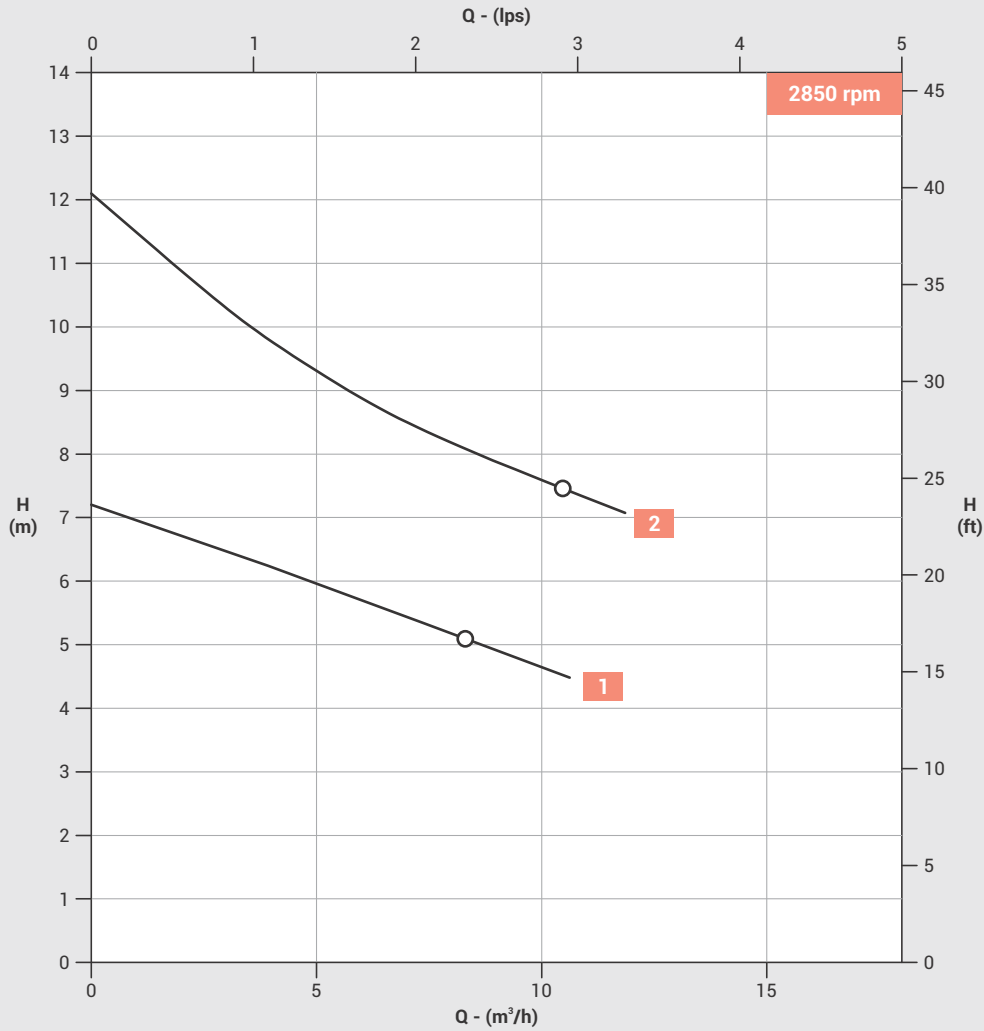
Component Name	Material / Grade
Motor Shaft	SS AISI 420
Body Tube	SS AISI 304
Motor Cover	FG 260
Bearing Flange	FG 260
Motor Flange	FG 260
Impeller	FG 260
Casing	FG 260
Grommet	Silicon Rubber
Cable Gland	Brass
Allen Bolt	SS AISI 304
Bush	Nitrile rubber
Clamp	SS AISI 304
Oil Seal	Nitrile Rubber
Mechanical Seal	C/CERAMIC//NBR/SiC/SiC/SUS304
O Ring	Nitrile Rubber
Tie Rod	SS AISI 304
Doom Nut	SS AISI 304

DIMENSIONAL DETAILS



Model	Height (mm)	Outlet Size (inch)	F	F1	F2	F3	F4	F5	F6	kg
FSL-2V-05CS-A	365	1½"	103	129	159	233	148	74	51	14,7
FSL-2V-05CT	365	1½"	103	129	159	233	148	74	51	14,5
FSL-2V-07CS-A	365	1½"	103	129	159	233	148	74	51	14,9
FSL-2V-07CT	365	1½"	103	129	159	233	148	74	51	14,7
FSL-2V-07DS-A	410	2	153	150	186	288	205	103		20,5
FSL-2V-07DT	410	2	153	150	186	288	205	103		20,3
FSL-2V-11DS-A	445	2	153	150	186	288	205	103		25,6
FSL-2V-11DT	425	2	153	150	186	288	205	103		23,5
FSL-2V-11ES-A	470	2½"	175	160	206	303	194	97		25,7
FSL-2V-11ET	450	2½"	175	160	206	303	194	97		23,6
FSL-2V-15DS-A	446	2	153	150	186	288	205	103		23,1
FSL-2V-15DT	446	2	153	150	186	288	205	103		22,9
FSL-2V-22DT	445	2	153	150	186	288	205	103		25,7
FSL-2V-22ET	470	2½"	175	160	206	303	194	97		26,7

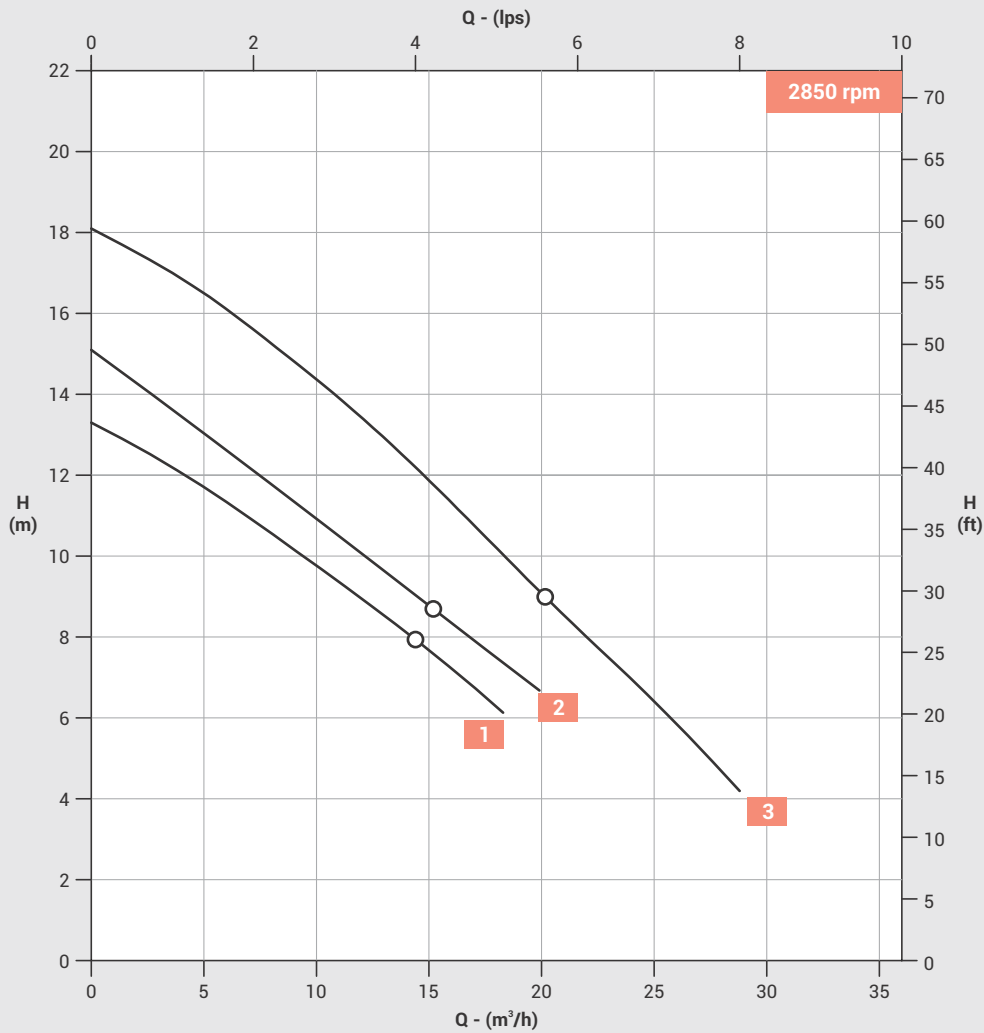
PERFORMANCE CURVES



PERFORMANCE TABLE

No.	Model	Power in kW (P2)	Volt	Supply	Amp	Giri rpm	Delivery Size in mm	l/Sec m³/h	0	1	2	3	4	5	6
									0	3,6	7,2	10,8	14,4	18	21,6
1	FSL-2V-05CS-A	0.55	230	1Ph	3	2850	40	Head in meters	7.2	6.3	5.3	4.4			
1	FSL-2V-05CT	0.55	400	3Ph	2	2850			7.2	6.3	5.3	4.4			
2	FSL-2V-07CS-A	0.75	230	1Ph	4.8	2850			12.1	9.9	8.4	7.3			
2	FSL-2V-07CT	0.75	400	3Ph	1.5	2850			12.1	9.9	8.4	7.3			

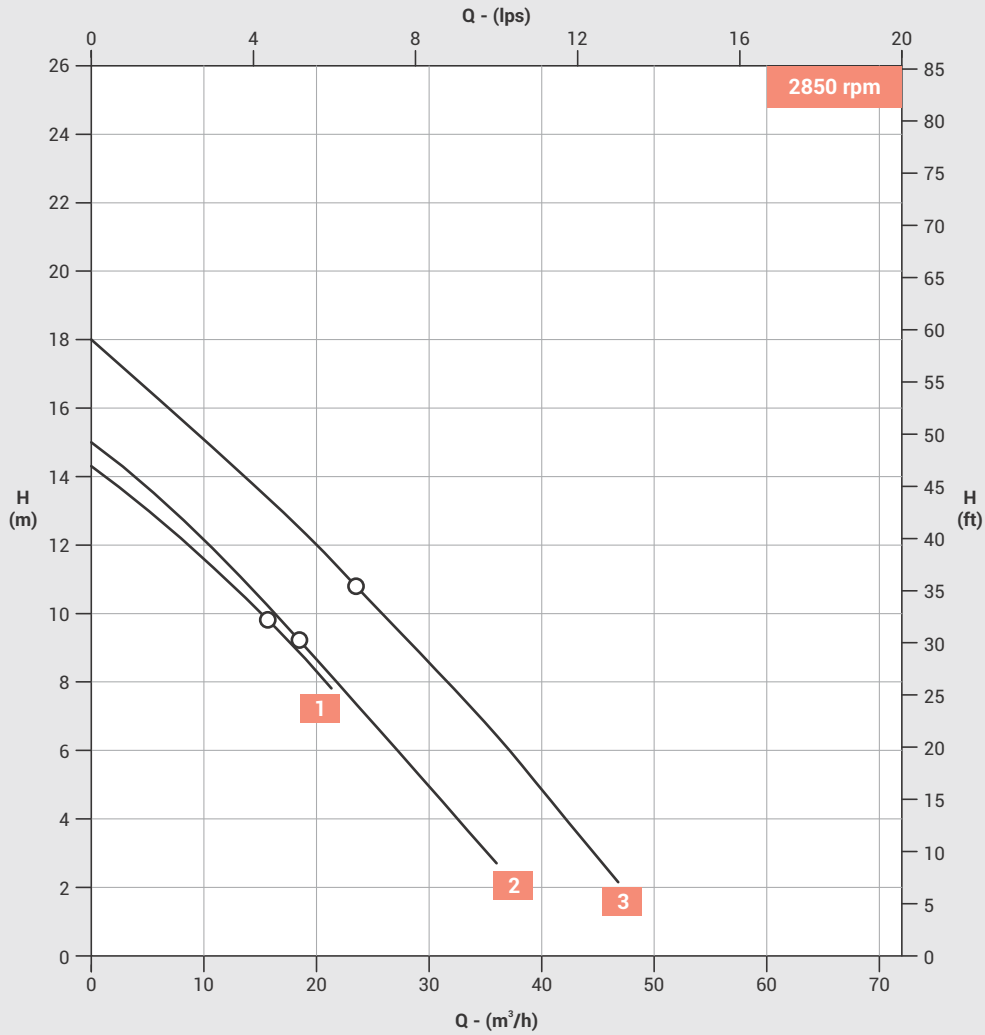
PERFORMANCE CURVES



PERFORMANCE TABLE

No.	Model	Power in kW (P2)	Volt	Supply	Amp	Giri rpm	Delivery Size in mm	l/Sec m³/h	0	1	2	3	4	5	6	7	8	9
									0	3,6	7,2	10,8	14,4	18	21,6	25,2	28,8	32,4
1	FSL-2V-07DS-A	0.75	230	1Ph	4.6	2850	50	Head in meters	13.3	12.2	10.8	9.3	7.9	6.2				
1	FSL-2V-07DT	0.75	400	3Ph	2.1	2850			13.3	12.2	10.8	9.3	7.9	6.2				
2	FSL-2V-15DS-A	1.5	230	1Ph	7.1	2850			15.1	13.6	12.1	10.5	9	7.4	6			
3	FSL-2V-15DT	1.5	400	3Ph	3.1	2850			18.1	17	15.6	14	12	10.2	8.2	6.3	4.5	

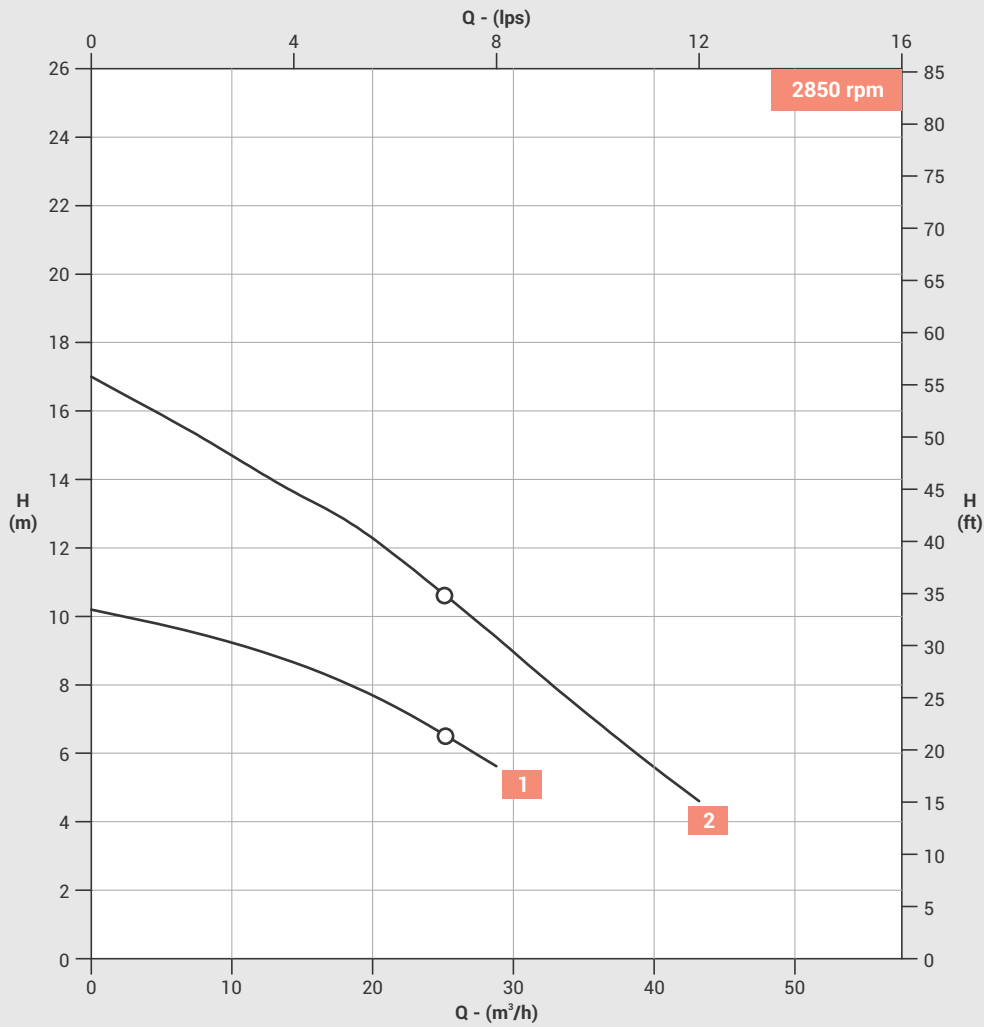
PERFORMANCE CURVES



PERFORMANCE TABLE

No.	Model	Power in kW (P2)	Volt	Supply	Amp	Giri rpm	Delivery Size in mm	l/Sec m³/h	0	2	4	6	8	10	12	14	16	
									0	7,2	14,4	21,6	28,8	36	43,2	50,4	57,6	
1	FSL-2V-11DS-A	1.1	230	1Ph	7.5	2850	50	Head in meters	14.2	13.4	10.2	7.6						
2	FSL-2V-11DT	1.1	400	3Ph	3	2850			14.5	13	10.6	8.1	5.5	3				
3	FSL-2V-22DT	2.2	400	3Ph	4.4	2850			18	16	13.8	11.5	9	6.5	3.5			

PERFORMANCE CURVES

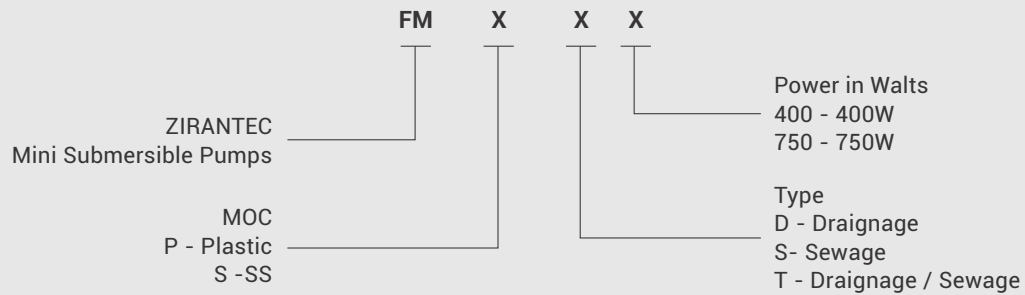


PERFORMANCE TABLE

No.	Model	Power in kW (P2)	Volt	Supply	Amp	Giri rpm	Delivery Size in mm	l/Sec m³/h	0	2	4	6	8	10	12	14	16	18	20	
									0	7,2	14,4	21,6	28,8	36	43,2	50,4	57,6	64,8	72	
1	FSL-2V-11ES-A	1.1	230	1Ph	7.6	2850	65	Head in meters	10.2	9.5	8.6	7.3	5.6							
2	FSL-2V-11ET	1.1	400	3Ph	3	2850			10.2	9.5	8.6	7.3	5.6							
2	FSL-2V-22ET	2.2	400	3Ph	4.4	2850			17	15.4	13.6	11.8	9.4	6.9	4.6					

Mini Submersible Pumps

MODEL IDENTIFICATION CODE - FMS & FMP SERIES



TECHNICAL SPECIFICATION

Power Range	400 to 1100 Watts
Version	Single Phase 230V, 50Hz, A.C. Supply
Degree of Protection	IP 68
Insulation Class	E
Delivery Size	MS - D : 1¼", MS - S : 1½", MP - T : 1½"
Max. Ambient temp.	40°C
Max. liquid temp.	35°C
pH value	6 - 8,5
Max. immersible depth	5m

MATERIAL OF CONSTRUCTION

	FMS Series	FMP Series
Pump Body	Stainless Steel	Plastic
Impeller	Thermoplastic	Thermoplastic
Shaft	S.S 304	S.S 304
Pump Casing	Stainless Steel	Plastic
Mechanical Seal	Carbon Ceramic	Carbon ceramic

APPLICATIONS

- Domestic, Dewatering, Garden

Mini Submersible Pump - FMS Series (S.S Body)

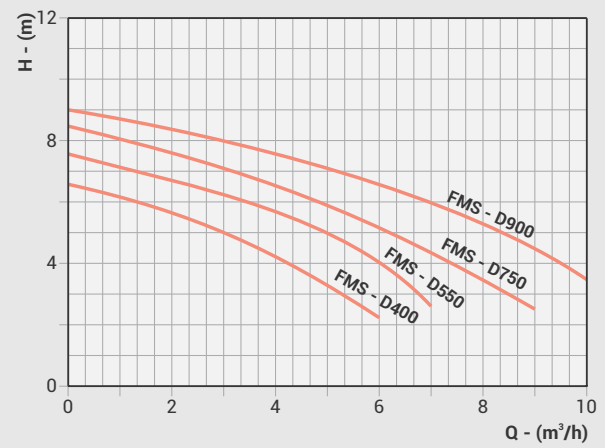
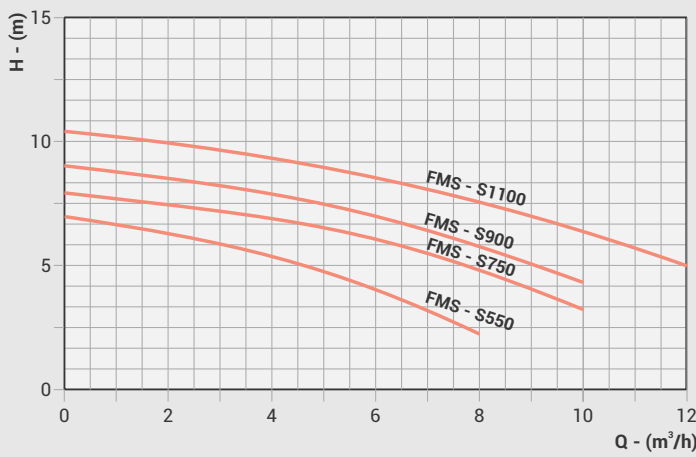


SEWAGE



DRAINAGE

Performance Curves & Data

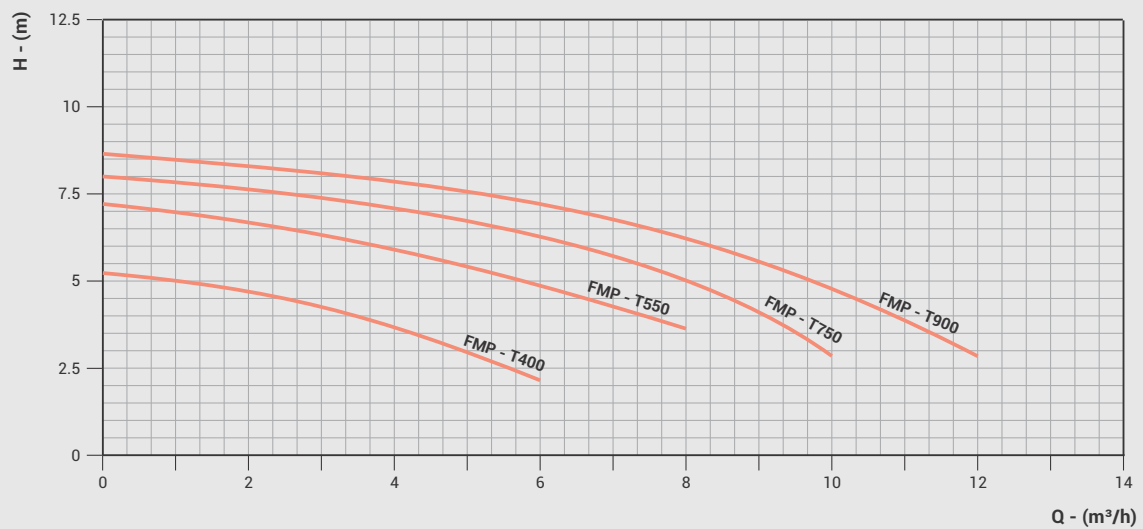


	Model	Power (Watts)	Outlet Size	Solid Handling Capacity (mm)	Max. Flow (m³/h)	Max. Head (m)	Weight (kg)
SEWAGE	FMS - S550	550	1½"	25	8	7	6
	FMS - S750	750	1½"	25	10	8	6.3
	FMS - S900	900	1½"	25	10	9	7
	FMS - S1100	1100	1½"	25	12	10.5	7.8
DRAINAGE	FMS - D400	400	1¼"	5	6	6.5	5
	FMS - D550	550	1¼"	5	7	7.5	5.5
	FMS - D750	750	1¼"	5	9	8.5	5.6
	FMS - D900	900	1¼"	5	10	9	5.8

Mini Submersible Pump - FMP Series (Plastic Body)



Performance Curves & Data



Model	Power (Watts)	Outlet Size	* Solid Handling Capacity (mm)	Max. Flow (m³/h)	Max. Head (m)	Weight (kg)
FMP - T400	400	1½"	25	6	5,5	4
FMP - T550	550	1½"	25	8	7	4,5
FMP - T750	750	1½"	25	10	8	5
FMP - T900	900	1½"	25	12	8,5	5,5

* With legs unfolded condition.



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