



5" Close-coupled Submersible Electric

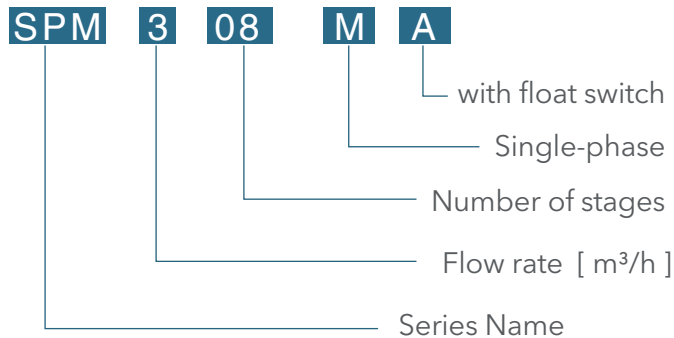
Made in Taiwan



Catalogue 50 Hz

SPM SERIES 50HZ

Model code



Close coupled multi-stage submersible pumps. The motor is protected by a double seal system with an oil chamber providing long lasting reliability. Motor cooling is assured by the pumping liquid.

AISI 304 stainless steel body and impellers ensure superior performance and maximum operational efficiency.

The SPM 5" is available with or without float switch.

It can also be installed in a horizontal position. The unit comes with 20 metres of cable and has a maximum permissible quantity of suspended sand 25 g/m³.

Specifications

Discharge size : RP 1 1/4"

Delivery : up to 11 m³/h

Head : up to 80 m

Power supply : Single phase , Three phase 50 Hz

Power : from 0.55 kW up to 1.5 kW

Temperature of pumped liquid : to 40 °C

Maximum immersion depth : 20 m

Maximum solids size : up to 2 mm

Insulation class : F

Protection : IP 68

Control Box For Single Phase models

- Capacitor
- Overload Relay
- On/off Switch



Application

- Water supply from collection tanks , reservoirs , 6" wells traditional wells ,fresh water courses , lakes etc.
- Automatic systems for garden use.
- Surface irrigation systems.
- Increasing pressure in general inside tank or well, to avoid suction problems and noise.
- Rainwater harvesting system.

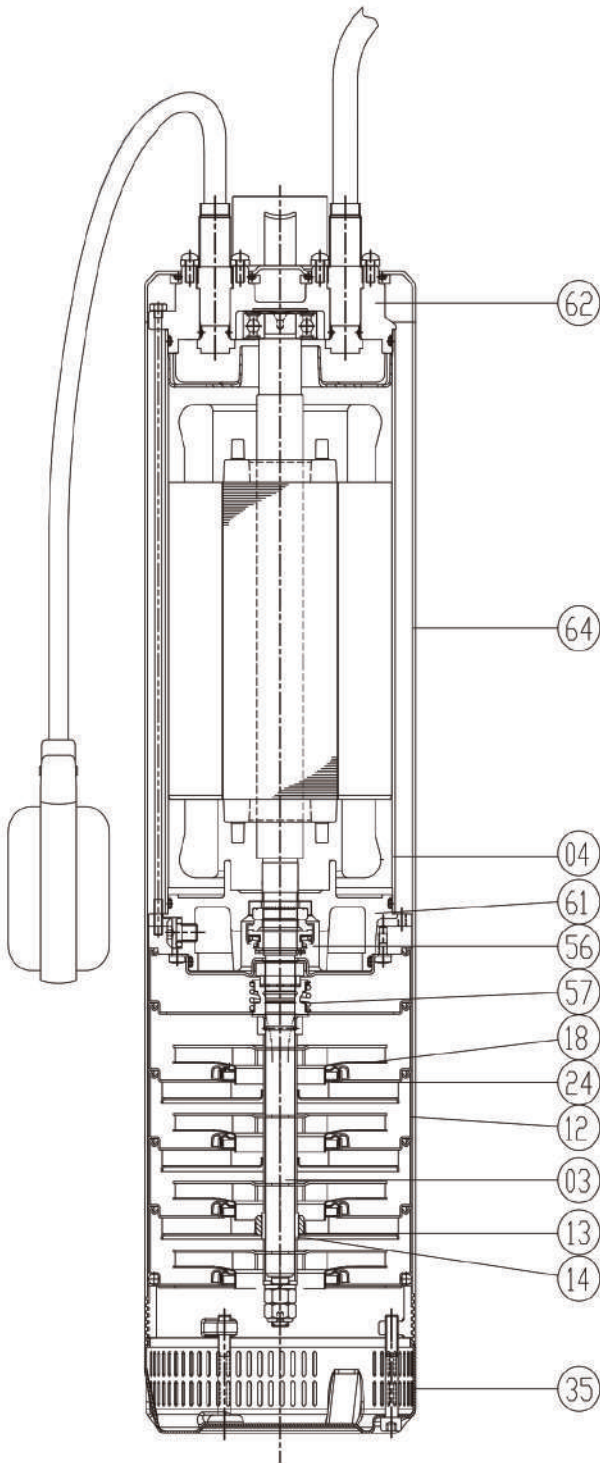
Feature

- Innovative
- Fast and easy installation
- Double Mechanical Seal System
- Versions with or without float switch
- Material Stainless Steel - AISI 304
- Installation : horizontal or vertical
- Built in Thermal Protector for Single Phase Model.
- Plug and play (Single Phase Only)

Material options

- Pump housing: AISI 304 stainless steel
- Impeller: AISI 304 stainless steel
- Elastomers: NBR
- Motors: Different voltages

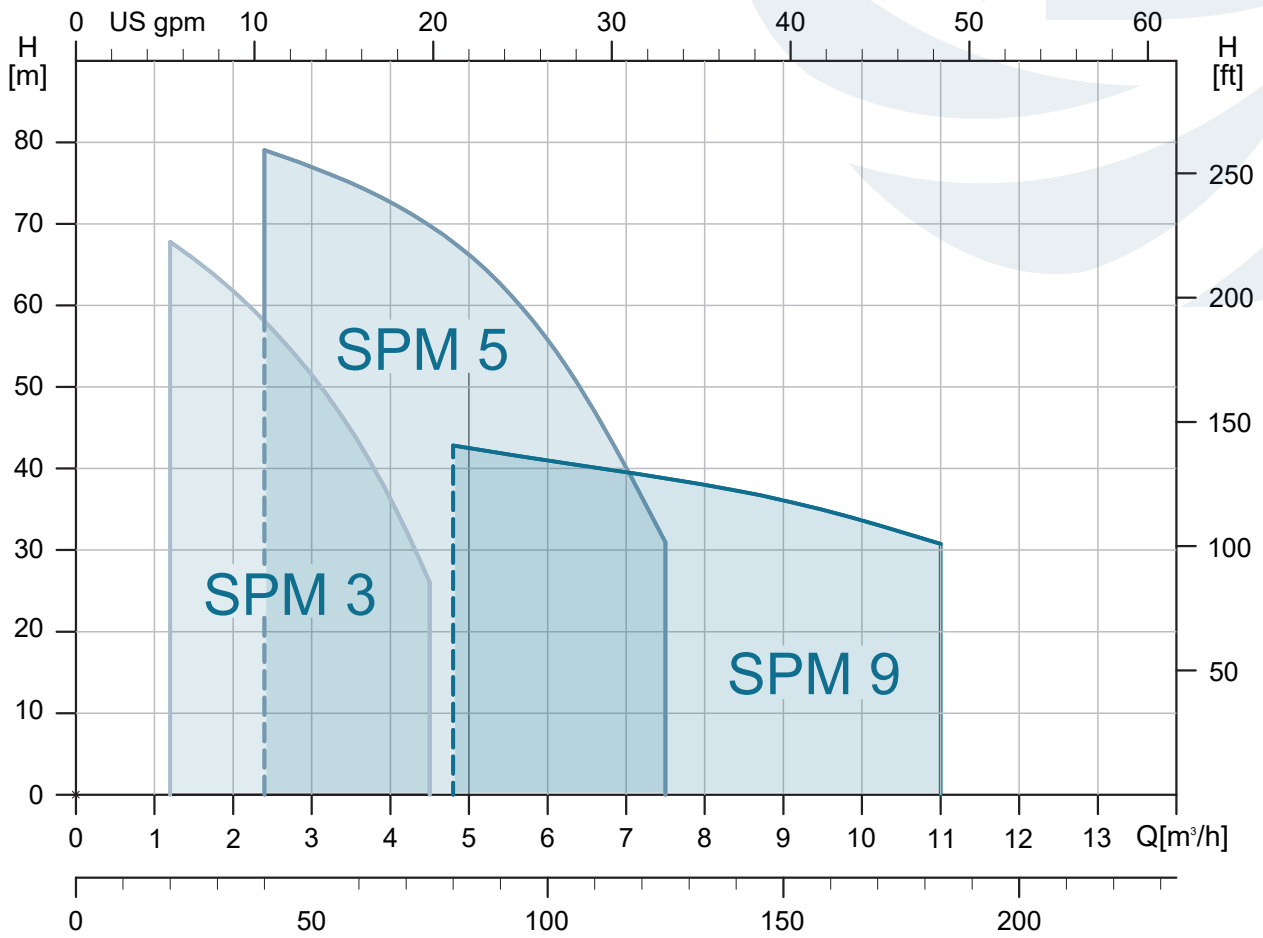
Material Specification



Pos.	Componente	Material	ED/DIN	ANSI/ASTM
03	Pump shaft	Stainless steel	1.4057	AISI 301
04	Motor sleeve	Stainless steel	1.4301	AISI 304
12	Chamber complete	Stainless steel	1.4301	AISI 304
13	Bearing ring (stationary)	Silicon carbide		
14	Bearing ring (rotating)	Silicon carbide		
18	Impeller	Stainless steel	1.4301	AISI 304
24	Neck ring	PTFE		
35	Suction strainer	Stainless steel	1.4301	AISI 304
56	Mechanical seal	Carbon / Caramic / NBR		
57	Mechanical seal	Carbon / SIC / NBR		
61	Lower bearing bracket	Stainless steel	1.4301	AISI 304
62	Upper bearing bracket	Stainless steel	1.4301	AISI 304
64	External Sleeve	Stainless steel	1.4301	AISI 304

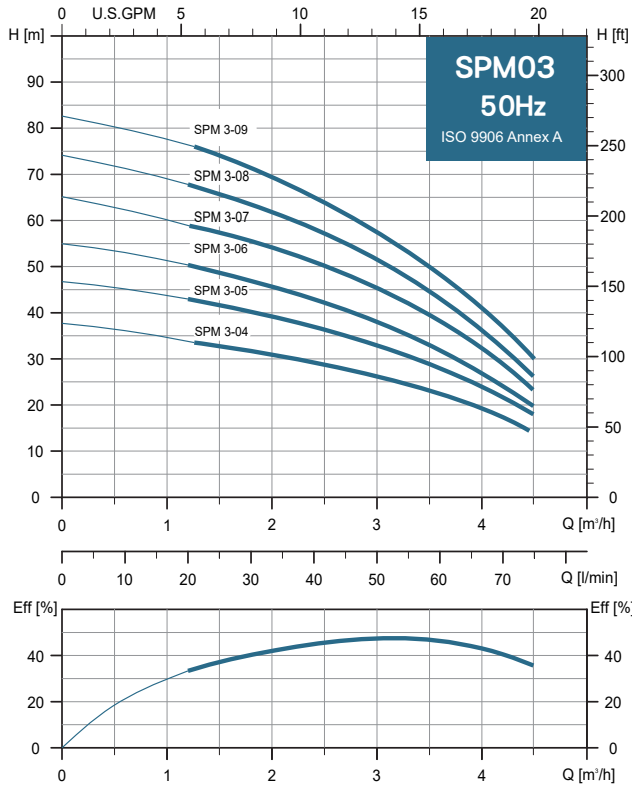


Performance range

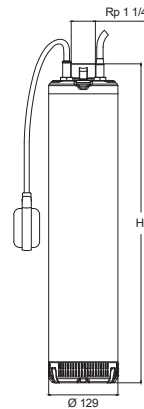


Performance Curve

SPM 03



Q = DELIVERY										
PUMP TYPE	m³/h	Q								
		0	1.2	1.5	2.0	2.5	3.0	3.5	4.0	4.5
	l/min	0	20	25	33.3	41.7	50	58.3	66.7	75
SPM3-04	H (m)	37	34	33	31	29	26	22	18	14
SPM3-05		47	43	42	39	36	33	29	24	18
SPM3-06		55	50	49	46	42	38	33	27	20
SPM3-07		65	59	57	54	50	45	39	31	23
SPM3-08		74	68	66	62	57	52	45	36	26
SPM3-09		83	76	73	69	63	57	50	40	29



Dimensions

PUMP TYPE	HP	H mm
SPM 3-04	0.75	425.5
SPM 3-05	0.75	443.5
SPM 3-06	0.75	461.5
SPM 3-07	1	501.5
SPM 3-08	1	519.5
SPM 3-09	1.5	555.5

Single phase Auto (With float switch,with control box)

PUMP TYPE	P1		P2		Absorbed current		CAPACITOR		Head		Flow		Cable (H07RN-F)		Solid Passage	Net Weight
	kW	HP	kW	HP	220 - 240V	uF	V	Rated (m)	Max. (m)	Rated (m³/h)	Max. (m³/h)	m	mm²	mm	kg	
SPM 3-04MA	0.71	0.75	0.55	0.55	3.3 - 3.2	12	450	26	37	3	4.5	20	4G1.0	2	14.2	
SPM 3-05MA	0.86	0.75	0.55	0.55	4.1 - 3.7	12	450	32	47	3	4.5	20	4G1.0	2	14.6	
SPM 3-06MA	1.01	0.75	0.55	0.55	4.7 - 4.4	12	450	37	55	3	4.5	20	4G1.0	2	15	
SPM 3-07MA	1.13	1	0.75	0.75	5.4 - 5.0	18	400	45	65	3	4.5	20	4G1.0	2	16.6	
SPM 3-08MA	1.20	1	0.75	0.75	5.8 - 5.2	18	400	50	74	3	4.5	20	4G1.0	2	17	
SPM 3-09MA	1.41	1.5	1.1	1.1	6.6 - 6.4	20	400	57	83	3	4.5	20	4G1.0	2	18.8	

*Maximum values within operating range.

Single phase Manual (With control box)

PUMP TYPE	P1		P2		Absorbed current		CAPACITOR		Head		Flow		Cable (H07RN-F)		Solid Passage	Net Weight
	kW	HP	kW	HP	220 - 240V	uF	V	Rated (m)	Max. (m)	Rated (m³/h)	Max. (m³/h)	m	mm²	mm	kg	
SPM 3-04M	0.71	0.75	0.55	0.55	3.3 - 3.2	12	450	26	37	3	4.5	20	4G1.0	2	13.7	
SPM 3-05M	0.86	0.75	0.55	0.55	4.1 - 3.7	12	450	32	47	3	4.5	20	4G1.0	2	14.1	
SPM 3-06M	1.01	0.75	0.55	0.55	4.7 - 4.4	12	450	37	55	3	4.5	20	4G1.0	2	14.5	
SPM 3-07M	1.13	1	0.75	0.75	5.4 - 5.0	18	400	45	65	3	4.5	20	4G1.0	2	16.1	
SPM 3-08M	1.20	1	0.75	0.75	5.8 - 5.2	18	400	50	74	3	4.5	20	4G1.0	2	16.5	
SPM 3-09M	1.41	1.5	1.1	1.1	6.6 - 6.4	20	400	57	83	3	4.5	20	4G1.0	2	18.3	

*Maximum values within operating range.

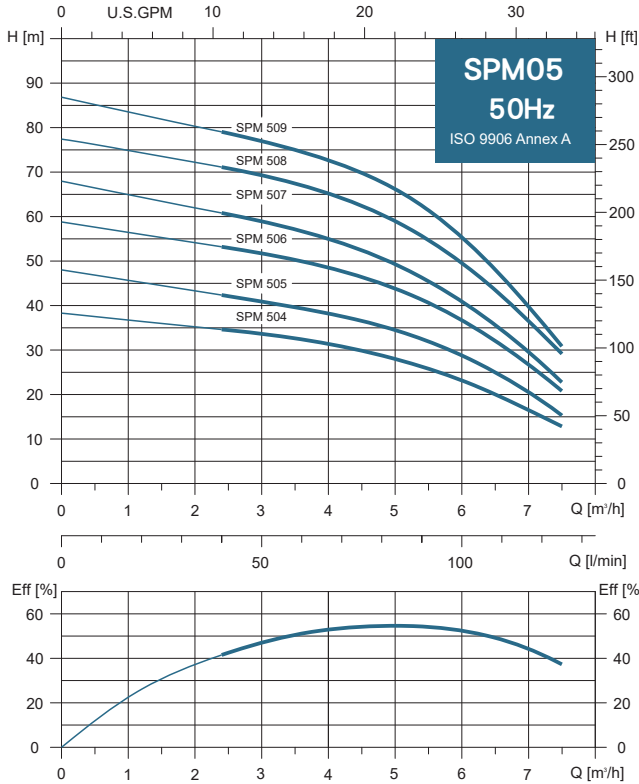
Three phase

PUMP TYPE	P1		P2		Absorbed current		Head		Flow		Cable (H07RN-F)		Solid Passage	Net Weight
	kW	HP	kW	HP	220 - 240V	380 - 415V	Rated (m)	Max. (m)	Rated (m³/h)	Max. (m³/h)	m	mm²	mm	kg
SPM 3-04	0.72	0.75	0.55	0.55	2.6 - 3.0	1.5 - 1.4	26	37	3	4.5	20	4G1.0	2	13.5
SPM 3-05	0.86	0.75	0.55	0.55	2.8 - 3.2	1.6 - 1.5	33	47	3	4.5	20	4G1.0	2	13.9
SPM 3-06	1.00	0.75	0.55	0.55	3.1 - 3.4	1.8 - 1.6	38	55	3	4.5	20	4G1.0	2	14.3
SPM 3-07	1.13	1	0.75	0.75	4.1 - 4.3	2.4 - 2.5	46	64	3	4.5	20	4G1.0	2	15.9
SPM 3-08	1.20	1	0.75	0.75	4.0 - 4.4	2.3 - 2.6	52	74	3	4.5	20	4G1.0	2	16.3
SPM 3-09	1.41	1.5	1.1	1.1	5.0 - 5.6	2.8 - 3.2	58	83	3	4.5	20	4G1.0	2	18.2

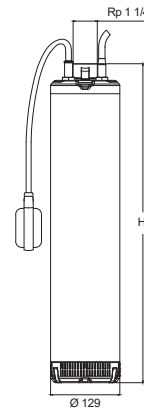
*Maximum values within operating range.

Performance Curve

SPM 05



Q = DELIVERY											
PUMP TYPE	m³/h l/min	0	2.4	3.0	3.5	4.0	4.5	5.0	5.5	6.5	7.5
		H (m)	38	34	33	32	31	30	28	26	20
SPM5-04		48	44	42	41	39	37	35	33	26	15
SPM5-05		59	53	52	50	49	46	44	41	32	21
SPM5-06		68	62	60	58	56	54	50	46	36	23
SPM5-07		77	71	69	67	65	62	58	55	43	29
SPM5-08		87	79	77	75	73	70	66	61	48	31
SPM5-09											



Dimensions

PUMP TYPE	HP	H mm
SPM 5-04	1	447.5
SPM 5-05	1	465.5
SPM 5-06	1.5	501.5
SPM 5-07	1.5	519.5
SPM 5-08	2	577.5
SPM 5-09	2	595.5

Single phase Auto (With float switch,with control box)

PUMP TYPE	P1		P2		Absorbed current		CAPACITOR		Head		Flow		Cable (H07RN-F)		Solid Passage	Net Weight
	kW	HP	kW	220 - 240V	uF	V	Rated (m)	Max. (m)	Rated (m³/h)	Max. (m³/h)	m	mm²	mm	kg		
SPM 5-04MA	1.08	1	0.75	5.1 - 4.8	18	400	28	38	5	7.5	20	4G1.0	2	15.6		
SPM 5-05MA	1.38	1	0.75	6.5 - 6.0	18	400	34	48	5	7.5	20	4G1.0	2	16		
SPM 5-06MA	1.66	1.5	1.1	8.0 - 7.4	20	400	44	59	5	7.5	20	4G1.0	2	17.7		
SPM 5-07MA	1.86	1.5	1.1	8.9 - 8.3	20	400	49	68	5	7.5	20	4G1.0	2	18		
SPM 5-08MA	2.11	2	1.5	9.8 - 9.3	35	450	59	77	5	7.5	20	4G1.0	2	21.3		
SPM 5-09MA	2.37	2	1.5	10.8 - 9.8	35	450	66	87	5	7.5	20	4G1.0	2	21.7		

*Maximum values within operating range.

Single phase Manual (With control box)

PUMP TYPE	P1		P2		Absorbed current		CAPACITOR		Head		Flow		Cable (H07RN-F)		Solid Passage	Net Weight
	kW	HP	kW	220 - 240V	uF	V	Rated (m)	Max. (m)	Rated (m³/h)	Max. (m³/h)	m	mm²	mm	kg		
SPM 5-04M	1.08	1	0.75	5.1 - 4.8	18	400	28	38	5	7.5	20	4G1.0	2	15.1		
SPM 5-05M	1.38	1	0.75	6.5 - 6.0	18	400	34	48	5	7.5	20	4G1.0	2	15.5		
SPM 5-06M	1.66	1.5	1.1	8.0 - 7.4	20	400	44	59	5	7.5	20	4G1.0	2	17.1		
SPM 5-07M	1.86	1.5	1.1	8.9 - 8.3	20	400	49	68	5	7.5	20	4G1.0	2	17.5		
SPM 5-08M	2.11	2	1.5	9.8 - 9.3	35	450	59	77	5	7.5	20	4G1.0	2	20.8		
SPM 5-09M	2.37	2	1.5	10.8 - 9.8	35	450	66	87	5	7.5	20	4G1.0	2	21.1		

*Maximum values within operating range.

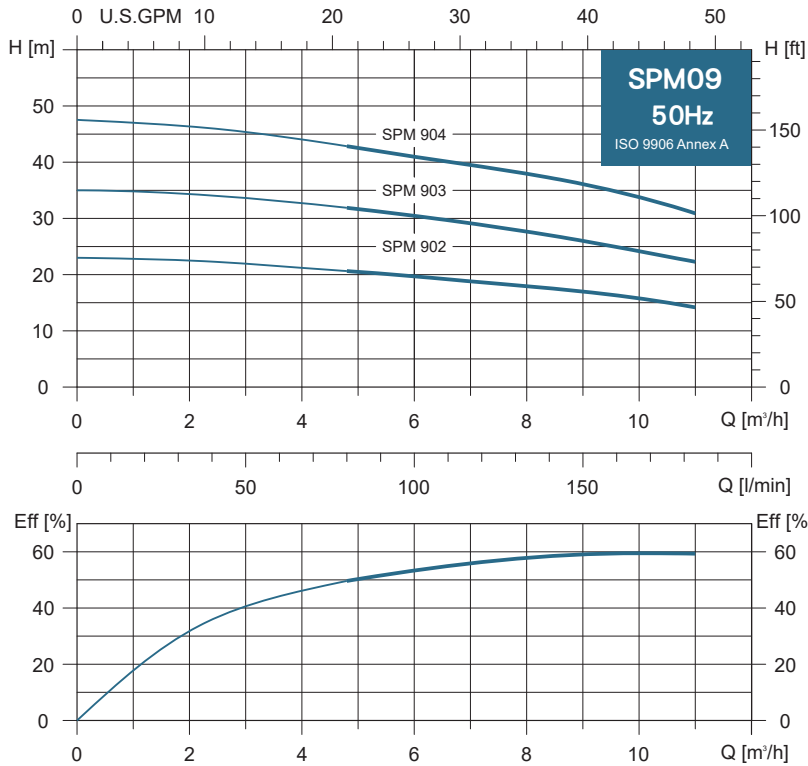
Three phase

PUMP TYPE	P1		P2		Absorbed current		Head		Flow		Cable (H07RN-F)		Solid Passage	Net Weight
	kW	HP	kW	220 - 240V	380 - 415V	Rated (m)	Max. (m)	Rated (m³/h)	Max. (m³/h)	m	mm²	mm	kg	
SPM 5-04	1.12	1	0.75	3.9 - 4.3	2.2 - 2.5	28	38	5	7.5	20	4G1.0	2	14.9	
SPM 5-05	1.39	1	0.75	4.5 - 4.6	2.5 - 2.7	35	48	5	7.5	20	4G1.0	2	15.3	
SPM 5-06	1.66	1.5	1.1	5.5 - 6.0	3.1 - 3.4	44	59	5	7.5	20	4G1.0	2	17	
SPM 5-07	1.81	1.5	1.1	5.9 - 6.3	3.3 - 3.6	50	68	5	7.5	20	4G1.0	2	17.4	
SPM 5-08	2.05	2	1.5	6.3 - 6.6	3.7 - 3.8	59	77	5	7.5	20	4G1.0	2	20.6	
SPM 5-09	2.33	2	1.5	7.0 - 7.1	4.1 - 4.0	66	87	5	7.5	20	4G1.0	2	21	

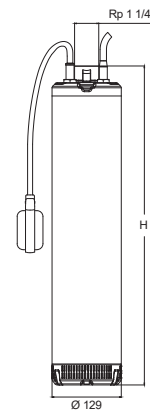
*Maximum values within operating range.

Performance Curve

SPM 09



		Q = DELIVERY									
PUMP TYPE	m³/h	0	4.8	5	6	7	8	9	10	11	
	l/min	0	80	83.3	100	116.7	133.3	150	166.7	183.3	
SPM9-02	H (m)	23	21	21	20	19	18	17	16	14	
SPM9-03		35	32	32	30	29	28	26	24	22	
SPM9-04		48	43	43	41	39	38	36	34	31	



Dimensions

PUMP TYPE	HP	H mm
SPM 9-02	1	428
SPM 9-03	1.5	478
SPM 9-04	2	548

Single phase Auto (With float switch,with control box)

PUMP TYPE	P1		P2		Absorbed current		CAPACITOR		Head		Flow		Cable (H07RN-F)		Solid Passage	Net Weight
	kW	HP	kW		220 - 240V	uF	V	Rated (m)	Max. (m)	Rated (m³/h)	Max. (m³/h)	m	mm²	mm	kg	
SPM 9-02MA	1.16	1	0.75		5.3 - 5.2	18	400	18	23	9	11	20	4G1.0	2	12	
SPM 9-03MA	1.62	1.5	1.1		7.7 - 7.3	20	400	26	35	9	11	20	4G1.0	2	14	
SPM 9-04MA	2.12	2	1.5		9.9 - 9.2	35	450	36	48	9	11	20	4G1.0	2	20.7	

*Maximum values within operating range.

Single phase Manual (With control box)

PUMP TYPE	P1		P2		Absorbed current		CAPACITOR		Head		Flow		Cable (H07RN-F)		Solid Passage	Net Weight
	kW	HP	kW		220 - 240V	uF	V	Rated (m)	Max. (m)	Rated (m³/h)	Max. (m³/h)	m	mm²	mm	kg	
SPM 9-02M	1.16	1	0.75		5.3 - 5.2	18	400	18	23	9	11	20	4G1.0	2	11.5	
SPM 9-03M	1.62	1.5	1.1		7.7 - 7.3	20	400	26	35	9	11	20	4G1.0	2	12.5	
SPM 9-04M	2.12	2	1.5		9.9 - 9.2	35	450	36	48	9	11	20	4G1.0	2	20.2	

*Maximum values within operating range.

Three phase

PUMP TYPE	P1		P2		Absorbed current		Head		Flow		Cable (H07RN-F)		Solid Passage	Net Weight
	kW	HP	kW		220 - 240V	380 - 415V	Rated (m)	Max. (m)	Rated (m³/h)	Max. (m³/h)	m	mm²	mm	kg
SPM 9-02	1.17	1	0.75		4.0 - 4.4	2.3 - 2.5	17	23	9	11	20	4G1.0	2	11
SPM 9-03	1.58	1.5	1.1		6.3 - 5.7	3.0 - 3.3	26	35	9	11	20	4G1.0	2	13
SPM 9-04	2.06	1	1.5		6.5 - 6.6	3.8 - 3.7	36	48	9	11	20	4G1.0	2	20

*Maximum values within operating range.