

MSP4

4" MONOBLOCK SUBMERSIBLE PUMPS



- Clean water
- Domestic use
- Civil use
- Agricultural use



PERFORMANCE RANGE

- Flow rate up to **150 l/min** (9 m³/h)
- Head up to **128 m**

APPLICATION LIMITS

- Maximum liquid temperature **+35 °C**
- Maximum sand content **150 g/m³**
- Maximum immersion depth of **60 m** with a sufficiently long power cable
- Vertical and horizontal installation
- Starts/hour: **20** at regular intervals
- Continuous service **S1**

CONSTRUCTION AND SAFETY STANDARDS

EN 60335-1
IEC 60335-1
CEI 61-150

EN 60034-1
IEC 60034-1
CEI 2-3



INSTALLATION AND USE

Suitable for pumping clean water from boreholes that contain sand (up to 150 g/m³).

Because of their high efficiency and reliability they are suitable for use in domestic applications such as domestic water supply as part of a pressure supply and for irrigation, etc.

CONSTRUCTION CHARACTERISTICS

DELIVERY BODY AND EXTERNAL SLEEVE	Stainless steel AISI 304 complete with threaded delivery port in compliance with ISO 228/1.
IMPELLERS	Lexan 141-R
DIFFUSERS	Noryl FE1520PW
STAGE CASING	Stainless steel AISI 304
PUMP SHAFT	Stainless steel AISI 304
DRIVE COUPLING	Stainless steel AISI 316L
MOTOR SHAFT	Stainless steel EN 10088-3 1.4104 (AISI 431 for 1.1 kW single-phase)
MOTOR SLEEVE	Stainless steel AISI 304
TWO MECHANICAL SEALS SEPARATED BY AN OIL CHAMBER	Motor side: Ceramic - Graphite - NBR Pump side: Silicon carbide - Graphite - NBR
POWER CABLE	PBS-P type 20 m long power cable

ABSORPTION

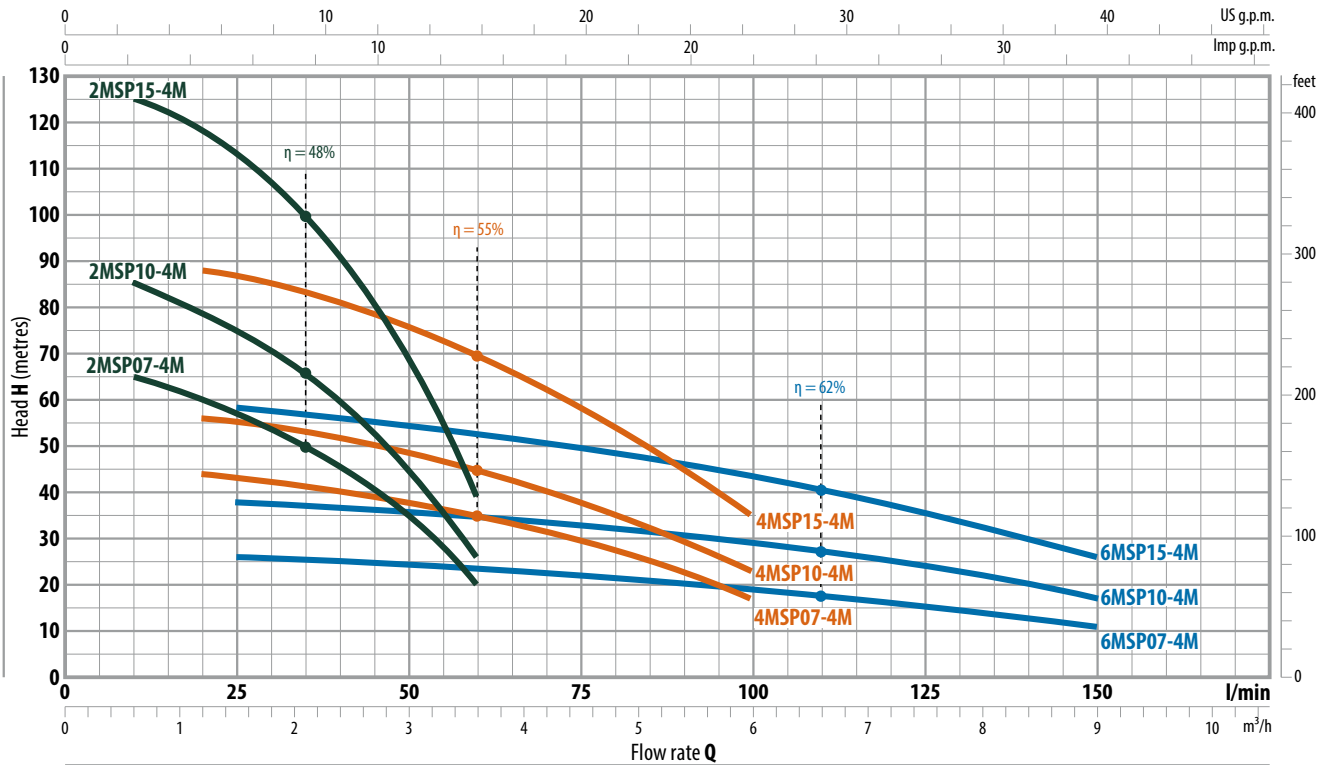
MODEL	VOLTAGE	
	230 V	240 V
Single-phase		
MSP – 0.55 kW	5.0 A	4.8 A
MSP – 0.75 kW	6.0 A	5.8 A
MSP – 1.1 kW	8.0 A	7.8 A

PALLETIZATION

MODEL	GROUPAGE/CONTAINER
Single-phase	n. pumps
2MSP07-4M	55
2MSP10-4M	33
2MSP15-4M	33
4MSP07-4M	55
4MSP10-4M	55
4MSP15-4M	33
6MSP07-4M	55
6MSP10-4M	55
6MSP15-4M	33

CHARACTERISTIC CURVES AND PERFORMANCE DATA

50 Hz | n= 2900 rpm



MODEL Single-phase	POWER (P ₂)		Q	Flow rate							
	kW	HP		m ³ /h	0	0.6	1.2	1.8	2.4	3.0	3.6
2MSP07-4M	0.55	0.75	H metres	66	65	60	54	46	35	20	
2MSP10-4M	0.75	1		86	85	79	71	60	45	26	
2MSP15-4M	1.1	1.5		128	125	118	108	91	70	39	

MODEL Single-phase	POWER (P ₂)		Q	Flow rate											
	kW	HP		m ³ /h	0	1.2	1.8	2.4	3.0	3.6	4.2	4.8	5.4	6.0	
4MSP07-4M	0.55	0.75	H metres	46	44	42	40	38	35	31.5	27	23	17		
4MSP10-4M	0.75	1		60	56	54.5	52	49	45	40.5	35	29	23		
4MSP15-4M	1.1	1.5		92	88	85	81	76	70	63	54.5	45	35		

MODEL Single-phase	POWER (P ₂)		Q	Flow rate							
	kW	HP		m ³ /h	0	1.5	3.0	4.5	6.0	7.5	9.0
6MSP07-4M	0.55	0.75	H metres	27	26	24	22	19	15	11	
6MSP10-4M	0.75	1		40	38	36	33	29	24	17	
6MSP15-4M	1.1	1.5		61	58	54	50	44	35	26	

Q = Flow rate
H = Total manometric head

Tolerance of characteristic curves in compliance with EN ISO 9906 Grade 3B.

DIMENSIONS AND WEIGHT

MODEL Single-phase	PORT DN	DIMENSIONS mm			kg
		N. STAGES	∅	h	
2MSP07-4M	1 1/4"	10	100	705	12.5
2MSP10-4M		13		786	14.3
2MSP15-4M		20		986	17.8
4MSP07-4M		7		674	12.1
4MSP10-4M		9		743	13.8
4MSP15-4M		14		925	17.0
6MSP07-4M		4		641	10.7
6MSP10-4M		6		725	13.3
6MSP15-4M		9		887	16.5

