

# MSP4

## 4" MONOBLOCK SUBMERSIBLE PUMPS



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



### PERFORMANCE RANGE

- Flow rate up to **150 l/min** (9 m<sup>3</sup>/h)
- Head up to **128 m**

### APPLICATION LIMITS

- Maximum liquid temperature **+35 °C**
- Maximum sand content **150 g/m<sup>3</sup>**
- 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/m<sup>3</sup>).

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

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

### ABSORPTION

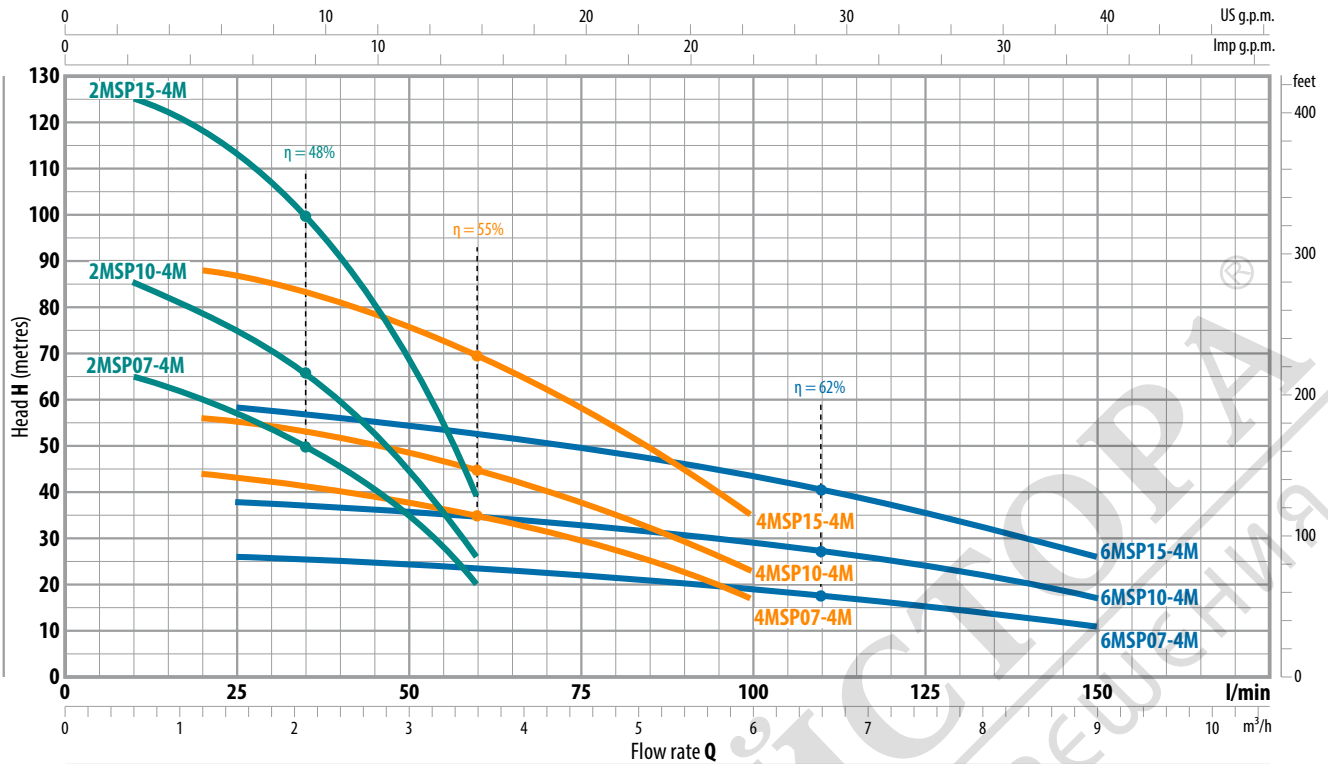
MODEL	VOLTAGE	
<b>Single-phase</b>	230 V	240 V
<b>MSP – 0.55 kW</b>	<b>5.0 A</b>	<b>4.8 A</b>
<b>MSP – 0.75 kW</b>	<b>6.0 A</b>	<b>5.8 A</b>
<b>MSP – 1.1 kW</b>	<b>8.0 A</b>	<b>7.8 A</b>

### PALLETIZATION

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

# CHARACTERISTIC CURVES AND PERFORMANCE DATA

50 Hz | n = 2900 min<sup>-1</sup>



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

MODEL Single-phase	POWER (P <sub>2</sub> )		Q m <sup>3</sup> /h l/min	H metres										
	kW	HP		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	0	46	44	42	40	38	35	31.5	27	23	17	
4MSP10-4M	0.75	1	0	60	56	54.5	52	49	45	40.5	35	29	23	
4MSP15-4M	1.1	1.5	0	92	88	85	81	76	70	63	54.5	45	35	

MODEL Single-phase	POWER (P <sub>2</sub> )		Q m <sup>3</sup> /h l/min	H metres						
	kW	HP		0	1.5	3.0	4.5	6.0	7.5	9.0
6MSP07-4M	0.55	0.75	0	27	26	24	22	19	15	11
6MSP10-4M	0.75	1	0	40	38	36	33	29	24	17
6MSP15-4M	1.1	1.5	0	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 1~
		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

