

General Description

SP 4", 6" & 8"

McKarlen is one of the main manufacturer of Deep Well Submersible Pumps made of high quality stainless steel for bore holes. Special design on the impeller and diffuser make this pump resistant to sands for up to 1%.

The state of the art design is very energy efficient and offer a high performance pumping therefore easy installation and low maintenance costs.

Technical Data:

- Motor Single Phase, 1x220 ~ 230V -50hz 220 Volt, 2850 rpm, 50 Hz
- NEMA Standard Dimensions
- Maximum start/stop 30 times in 1 hour
- Equipped with thermal overload protector
- Capacity up to 1800 L/min, 108 m³/hr
- Total Head up to 430 Meter
- Liquid temperature up to 40°C

Submersible rewindable motors:

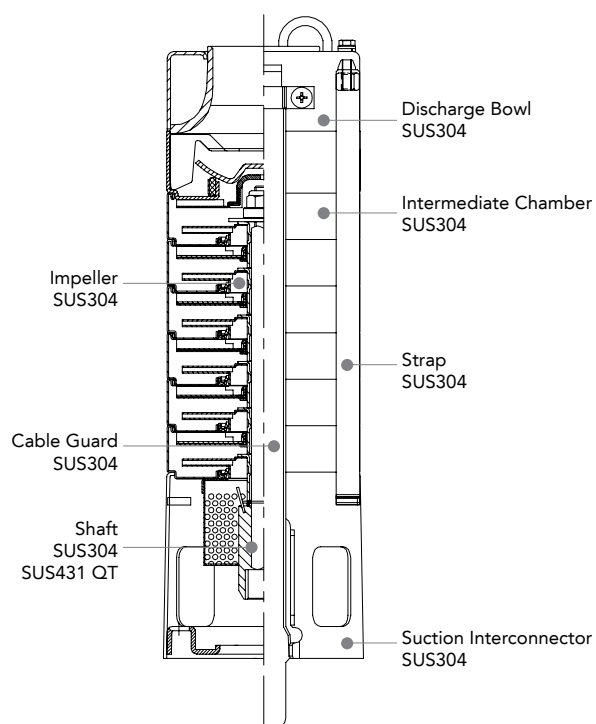
- 4" motors, single-phase up to 5HP, 3.7 kW:
- 4" motors, three-phase up to 10HP, 7.5 kW
- 6" motors, three-phase from 7.5HP, 5.5 kW to 50HP, 37 kW

Application :

- Supply of raw water for households
- Supply of water from the wells to the reservoir
- Irrigation, Plantation and Agriculture
- Industrial and municipal application



SP 25 Series



Submersible Rewindable Motors

Characters :

- Conform to international standard of IEC34-1,CE, whole blocked asynchronous motor with squirrel cage rotor.
- Outer shell, shaft and bottom made of stainless steel.
- Brass alloy or Nickel plated cast-iron upper bracket.
- Swedish bearing or equivalent products can undertake higher thrust load
- Italian mechanical seal.
- Pressure automatic adjusting device made of oil-proof and waterproof reformed butyl rubber.
- Flange connector conform to the standard of NEMA (USA National Electrical Manufacturing Association).
- Lacquer-coated wire conforms to USA standard of NEMA MW37-C.

Properties :

- Power: Single-phase: 0.25kW - 2.2kW, Three-phase: 0.55kW - 37kW
- Voltage: Single-phase 180/230V (-6% +10%) or 230/240V (+6% -10%) 50Hz Three-phase 230V or 400V $\pm$ 10% 50Hz
- Thrust load:
 - 1500N (0.25kW - 0.75kW)
 - 2500N (1.1kW - 5.5kW)
 - 4500N (3.0kW - 7.5kW)
- Degree of protection: 1P68
- Insulation: Class B
- Max. Water Temperature : 35°C, Max. Ambient temperature: 40°C
- Minimum cooling flow along the motor: 8cm/sec.
- Water pH: 6.5 - 8.0
- Maximum starts per hour: 20
- Maximum submerged depth: 4" Max. 150 meters, 6" Max. 300 meters
- Vertical or horizontal mounting position
- Motor protection by temperature compensated thermal relay and extra-quick trip overload
- Overload trip time:
 - <10 seconds (when load is 5 times of rating current)
- Flat water-proof cable 4x1.5 mm² or 4x2.5 mm² with separated earth wire (see table enclosed)
 - Dimension: 19.2 X 6.2 mm²
 - Length: 0.9m (0.37- 0.55kW);
 - 1.2m (0.75-1.1kW);
 - 1.5m (1.5-2.2kW);
 - 1.6m (3.0kW);
 - 2.0m (4.0-5.5kW);
 - 2.5m (7.5kW)
- Special request product required by customers can be provided

Materials :

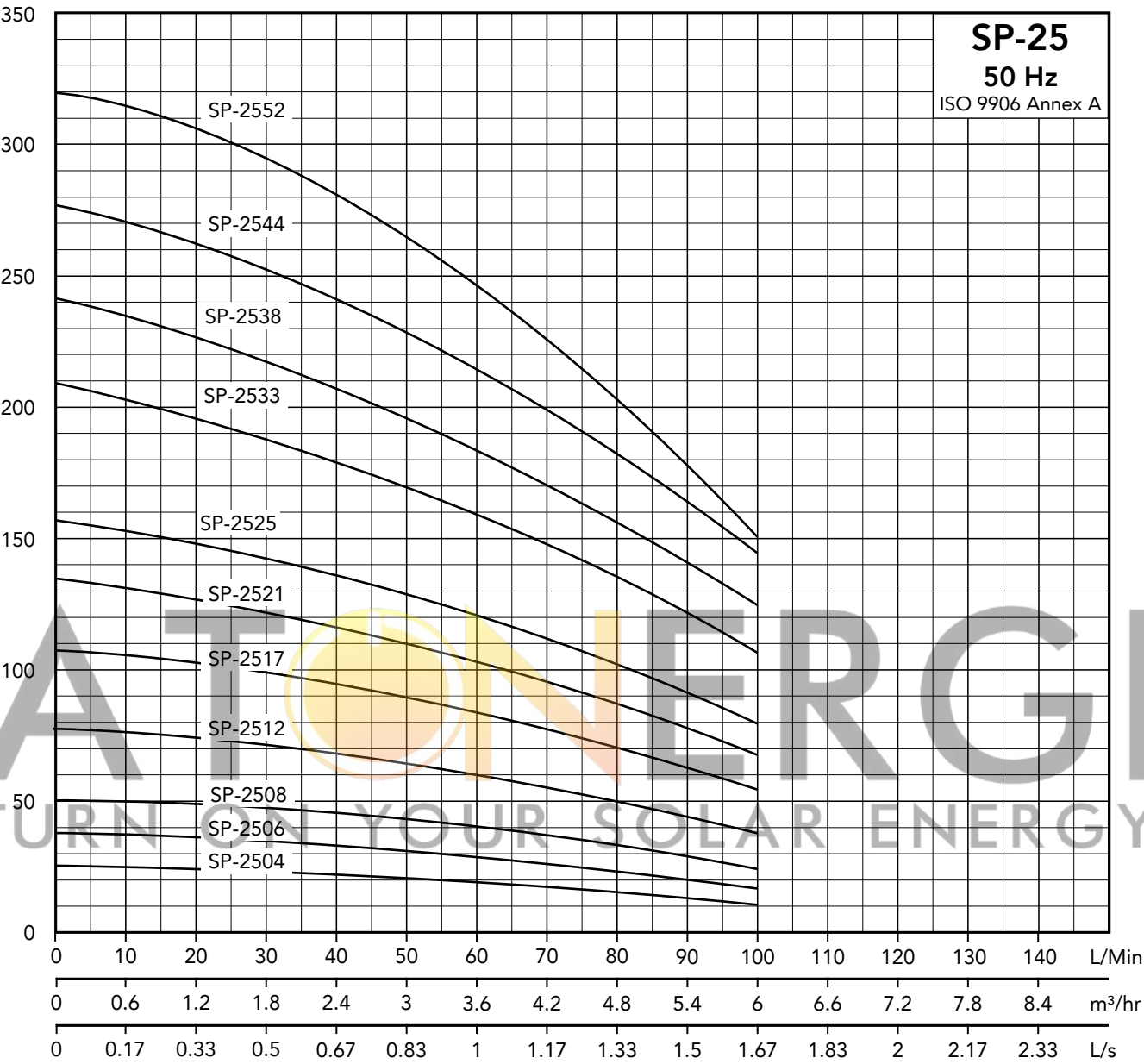
- high-quality cold-rolled silicon steel lamination.
- Special mechanical seal design.
- 220°C-resistant lacquer-coated wires.
- high-quality bearing undertaking big thrust load.



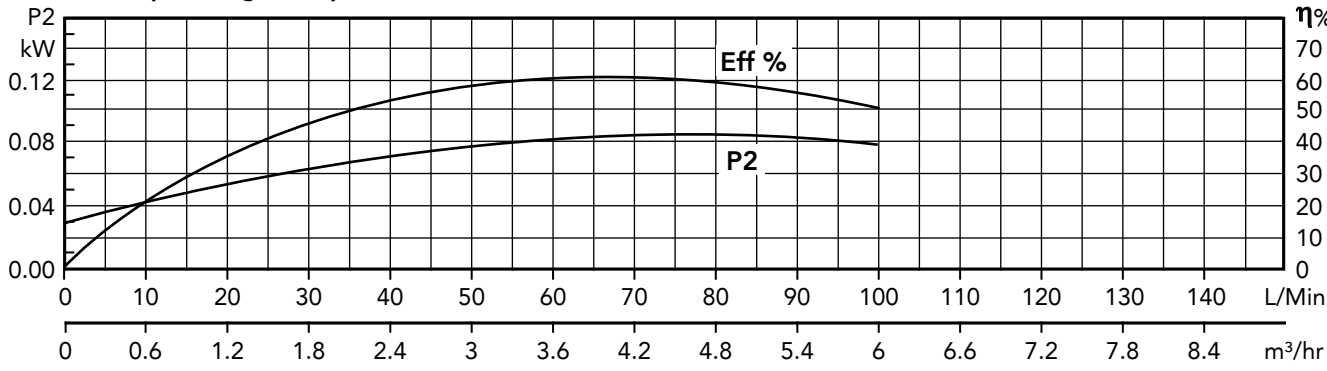
Performance Curve

SP 25

Total Head (m)



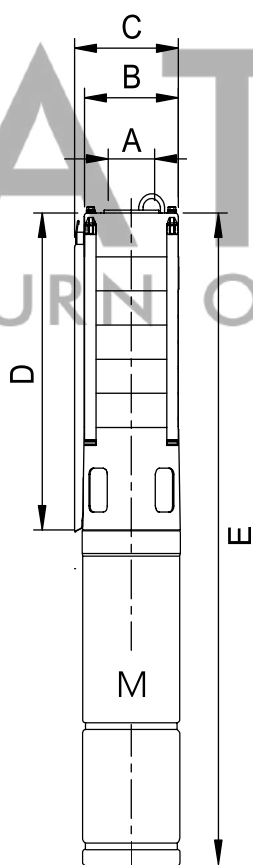
Power per Stage / Impeller



Dimensions and weights

SP 25

TYPE	DIMENSION (mm)				BARE PUMP	PUMP & MOTOR		
						Height 1 Phase	Height 3 Phase	Weight
	A	B (mm)	C (mm)	D (mm)	Kg	E (mm)		Kg
SP-2504	1 1/2"	86.7	98	249	2.2	564		10.2
SP-2506				291	2.3	626	651	10.3
SP-2508				333	2.9	693	753	11.9
SP-2512				417	3.7	807	862	14.7
SP-2517				522	4.7	957	1007	16.7
SP-2521				606	5.3	1086	1151	19.3
SP-2525				690	6.4	1170	1235	20.4
SP-2533				858	7.8		1458	26.8
SP-2538				999	9.7		1669	30.7
SP-2544				1125	11		1795	32
SP-2552				1293	13.2		2078	38.2



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