



## Tawanai Energy

### 4 Inch submersible pumps and motors

Date : 20 May 2018

#### Features

- Stainless steel impeller and diffuser ensures optimal performance in sandy wells
- Heavy duty stainless steel outer shell providing protection and accurate alignment of internal components.
- High quality shaft bearings providing low friction and high wear resistance
- Built-in check valve prevent back flow
- Strong stainless steel splined drive shaft ensures positive impeller drive and longer life
- Standard 2 Pole speed motor (2850 r/min limits internal velocities for longer life
- Single phase pump with control box with capacitor and thermal protection

#### Applications

- Groundwater supply to waterworks
- Irrigation in horticulture and agriculture
- Groundwater lowering
- Pressure boosting
- Industrial applications
- Water treatment

# Specifications

1. Capacity: Up to 20m<sup>3</sup>/h
2. Head: Up to 300meters
3. Power: 0.37kw(0.5HP) to 7.5Kw(10HP)
5. Water temperature: Up to 35 degrees
6. Maximum immersion depth: 350 meters

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## Applications:

For Water supply from wells or reservoirs.

For domestic use for civil and industrial applications.

For garden use and irrigation

## Operating Conditions:

Maximum fluid temperature up to +50°C

Maximum Sand Content 0.25%.

Maximum immersion 80m

Minimum well diameter 6"

## Motor and Pump:

Rewind able motor or Full obturated screen motor.

Three Phase : 380V - 415V / 50 Hz

## Material of Construction

Components	Material
Pump External casing	AISI 304/316
Delivery Casing	AISI 304/316
Suction Lantern	AISI 304/316
Diffuser	AISI 304/316
Impeller	AISI 304/316
Shaft	AISI 304/316
Shaft Coupling	AISI 304/316
Wear Ring	Rubber
Motor External Casing	AISI 304 SS
Bottom Support	AISI 304 SS

4-SS-8-21 Rs. 57070

4-SS-8-24 Rs. 61360

4-SS-8-30 Rs. 72930

4-SS-8-35 Rs. 80080

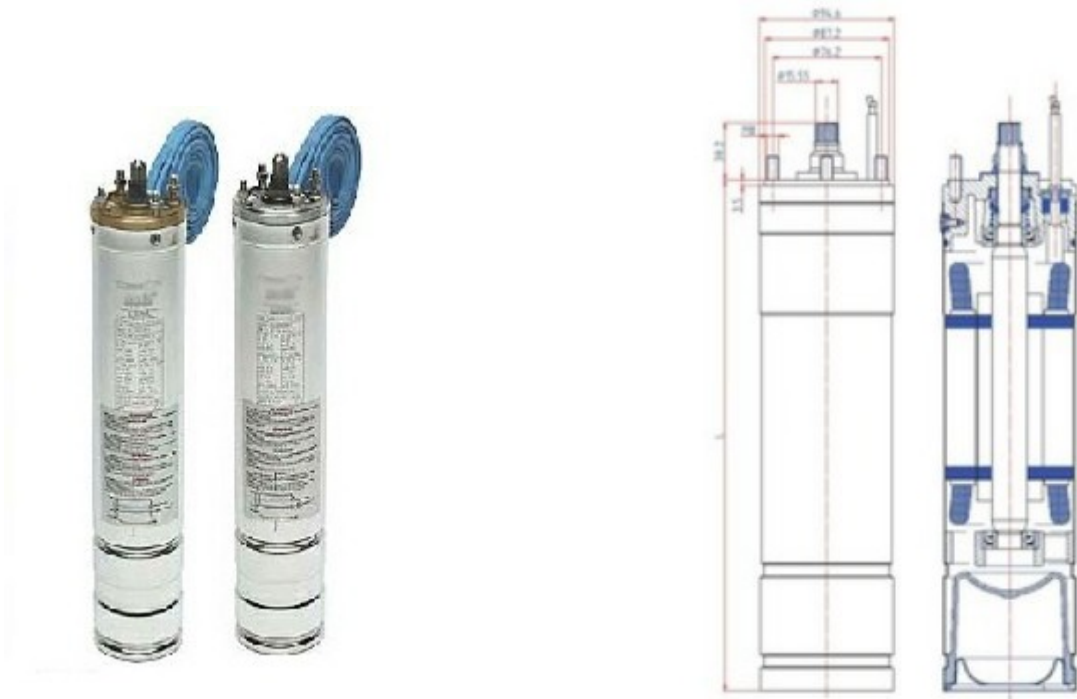
4-SS-9-40 Rs. 116350

4-SS-8-44 Rs. 127530

## Performance of 50 Hz pumps

Three phase	Kw	HP	Capacity							
			l/min	0	30	60	90	120	150	180
			m3/h	0	1.8	3.6	5.4	7.2	9	10.8
4-SS-8-5	0.75	1		30	28	26	24	21	17	12
4-SS-8-7	1.1	1.5		42	39	36	33	29	24	17
4-SS-8-10	1.5	2		60	55	51	48	42	35	24
4-SS-8-12	2.2	3		74	67	62	57	50	43	28
4-SS-8-15	2.2	3	Head(m)	90	84	78	72	65	54	36
4-SS-8-18	3	4		108	100	93	85	76	63	44
4-SS-8-21	4	5.5		126	117	108	99	89	73	51
4-SS-8-25	4	5.5		150	140	130	117	105	86	60
4-SS-8-30	5.5	7.5		181	168	155	142	127	105	73
4-SS-8-37	5.5	7.5		222	204	188	173	157	132	82
4-SS-8-44	7.5	10		263	244	223	206	188	157	106

## 4 Inch Submersible Motors



The new series of 4" submersible motors have been designed and produced according to the market requirement. In design and material selection all efforts have been made to offer a product to our customers which stand for reliability, excellent quality, long and trouble free life.

### Product Specifications:

- Motor casing:AISI 304 stainless steel.
- Shaft:AISI 304 stainless steel.
- Bottom:AISI 304 stainless steel.
- Shaft coupling:according to Nema Standard.
- Bearings :axial and radial thrust ball bearings.
- Seal :graphite/ceramic mechanical seal.
- Rubber diaphragm :over size rubber diaphragm allows water volume regulation inside the motor, according to external pressure and operating temperature.
- Upper bracket : high resistance cast iron nickel plated.
- Filling fluid :special fluid, for a better lubricant effect, increase life of Moving Parts
- Connection :removable cable connector.

## Motors Operating Parameters

- Degree of protection:IP 58
- Insulation class:F
- Voltage tolerance:+6% / -
- Mounting position:horizontal up to 2,2 kW
- Minimum flow rate speed:,8 m/s
- Maximum deep head:150 m
- Water temperature: 35°C