

Borehole Pumps



0800 509 506
www.whiteint.co.nz

4" Borehole Submersible Pumps



Multistage, centrifugal, submerged motor-driven pumps for 4" wells or larger, able to generate a vast range of heads and flow rates. They can be employed in a wide range of lifting, distributing and pressurising applications in civil and industrial water installations, supplying autoclaves and cisterns, fire fighting and washing systems, irrigation systems.

Operating range: from 0.24 to 24 m³/h with heads up to 320m.

Pumped liquid: clean, free from solid or abrasive substances, chemically neutral and close to the characteristics of water

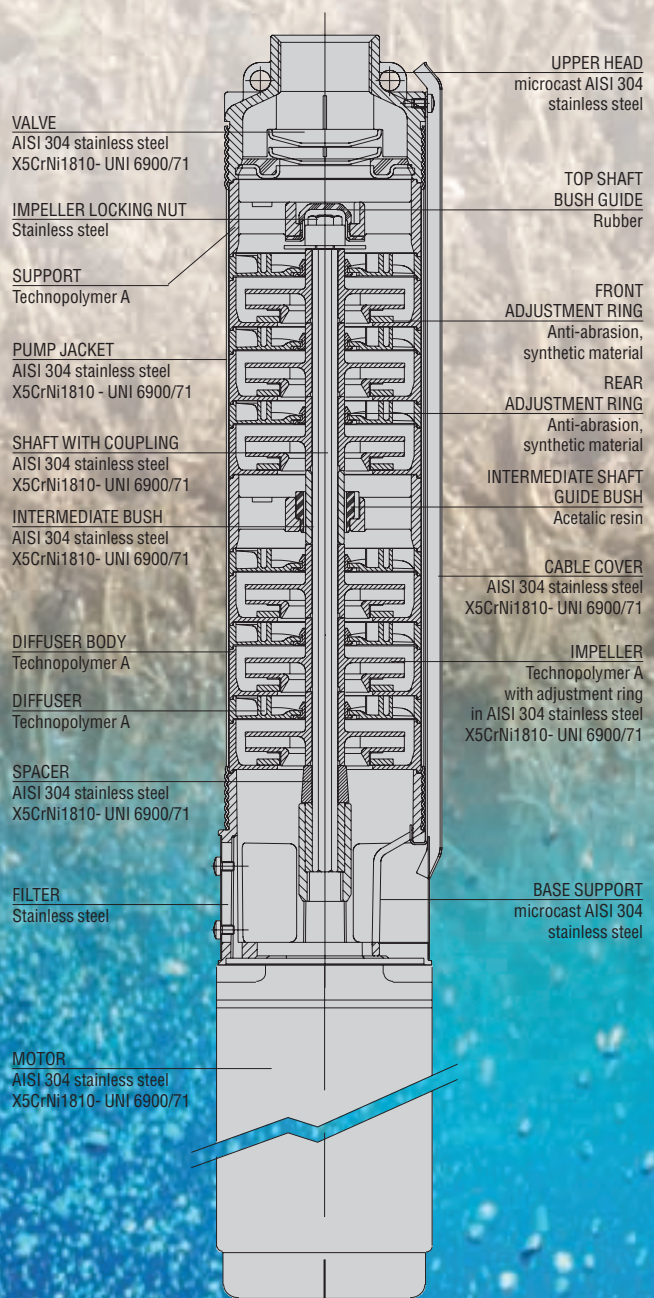
Liquid temp. range: from 0°C to +40°C

Motor protection level: IP 58

Insulation class: B

DAB Borehole submersible pumps incorporate the latest technology in hydraulic design and materials to reduce running costs, extend pump life and increase serviceability.

- Technopolymer impellers and diffusers for resistance to wear and corrosion
- Special unit abrasion wear ring reduces wear due to sand
- Cast stainless steel support and valve body for high strength
- Single phase motors feature remote control box with manual reset overload
- Large range to suit most applications
- Floating impeller stack for easier starts in abrasive conditions
- Posidrive pump shaft improves impeller life in adverse conditions
- Maximum quantity of sand = 120 gm / m³
- 2 Year Pump Parts and Labour Warranty



Submersible Motor 4" GG Series



4" series high performance water filled submersible motors made of AISI 304 stainless steel (parts in contact with water). Encapsulated stator filled with inert gas avoiding the inflation of the inner casing and damages to rotor and shaft. This technology ensures that the motor can always be repaired. Lubrication of the motor and thrust bearing system is guaranteed by a water+glycol mixture; the motors are supported by Kingsbury type thrust bearing pads which ensure high axial thrust; all the motors are provided with a removable cable connector.



S4 Series 4" Tesla PSC Motors

Model/Part No.	Description	kW
TES-M037S	TESLA Motor 240V PSC	0.37
TES-M037T	TESLA Motor 415V	0.37
TES-M055S	TESLA Motor 240V PSC	0.55
TES-M055T	TESLA Motor 415V	0.55
TES-M075S	TESLA Motor 240V PSC	0.75
TES-M075T	TESLA Motor 415V	0.75
TES-M110S	TESLA Motor 240V PSC	1.1
TES-M110T	TESLA Motor 415V	1.1
TES-M150S	TESLA Motor 240V PSC	1.5
TES-M150T	TESLA Motor 415V	1.5
TES-M220S	TESLA Motor 240V PSC	2.2
TES-M220T	TESLA Motor 415V	2.2
TES-M300T	TESLA Motor 415V	3
TES-M400T	TESLA Motor 415V	4
TES-M550T	TESLA Motor 415V	5.5

*NOTE: TESLA PSC MOTORS REQUIRE TESLA PSC CONTROL BOXES

S4 Series 4" Tesla 2 Wire Motors

Model/Part No.	Description	kW
TES-M037S2W	TESLA Motor 240V 2 Wire	0.37
TES-M055S2W	TESLA Motor 240V 2 Wire	0.55
TES-M075S2W	TESLA Motor 240V 2 Wire	0.75
TES-M110S2W	TESLA Motor 240V 2 Wire	1.1

4" Tesla Psc Motor Control Boxes

Model/Part No.	Description	kW
TES-CBOX0.37	Control Box TESLA	0.37
TES-CBOX0.55	Control Box TESLA	0.55
TES-CBOX0.75	Control Box TESLA	0.75
TES-CBOX1.1	Control Box TESLA	1.1
TES-CBOX1.5	Control Box TESLA	1.5
TES-CBOX2.2	Control Box TESLA	2.2



When Quality Matters...





Guardian Micra

Guardian Evolution Series



Panel with microprocessor for protection and control of motor/ single-phase/three-phase pump with direct start up.

The main feature of this new Guardian Evolution series, completely revised, is the protection of the motor/pump against dry running without level probes; Casing made of shock-proof and self-extinguishing thermoplastic material with two antipull plugs. Main switch. Power supply: single phase 230 V +/- 5%, three phase 400 V +/-5%. Digital display

with status indications. Four models available for powers from 0.5 HP to 15 HP. Protection degree IP54. Starting Capacitor for single phase version. Optoisolated auxiliary contact for control by probes, pressure switch and float switch.

Functional features:

ON-OFF switch. Overload protection. Phase failure protection (three-phase version). Over voltage protection.

Short circuit protection. Protection against dry running.



Model/Part No.	Range	Voltage	A	Weight Kg	Dimensions mm
Guardian ME	0,5 HP - 3 HP	230V	<18 A	1,1	200x247x93
Guardian 1E	0,5 HP - 3 HP	400V	<9 A	1,2	200x247x93
Guardian 2E	4 HP - 10 HP	400V	<18 A	1,7	240x190x90



Micra

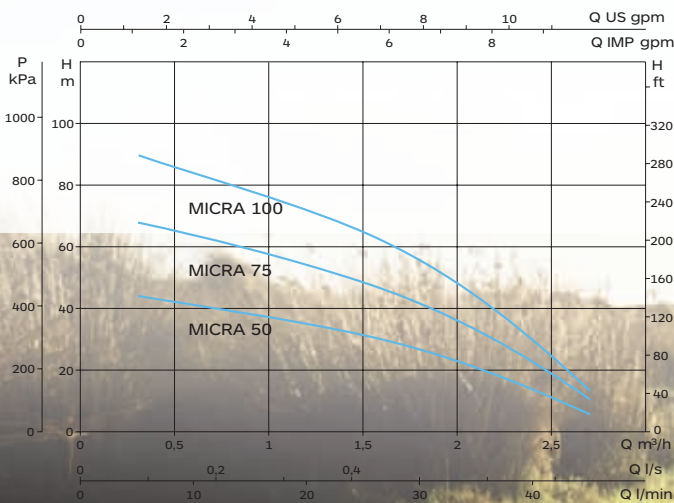
Submersible Pumps Micra Series



3" centrifugal submersible pumps for wells consisting of 3GF series canned motors coupled with multistage pumps; discharge and bracket made of brass, outer casing, pump shaft and cable protector made of steel, diffusers and impellers made of technopolymer; the special construction of the canned motor guarantees maximum safety in the most severe conditions; Tesla water filled canned motor always ensures absolute absence of "pollution", and makes sure the pump can always be repaired. Motor equipped with thermal protector with automatic reset. Cooling of the pump is ensured by the pumped liquid. Pumps designed for pumping clean, non-aggressive water free of solid bodies or fibres. The motors are of the PSC type and therefore require the starting capacitor; For complete control and protection of the electric pump, we recommend the use of a Guardian control panel including, in addition to other functions, the protection against dry running.



MODEL	Voltage 50 Hz V	P1 W	In A	Capacitor μ F	Φ out	Length mm	Weight Kg
MICRA 50 M	1 ~ 230 V	625	3,3	12	1"	930	9,8
MICRA 75 M	1 ~ 230 V	950	5,1	16	1"	1145	11
MICRA 100 M	1 ~ 230 V	1200	6,1	20	1"	1390	12
MICRA 50 T	3 ~ 400 V	600	1,3	-	1"	930	9,8
MICRA 75 T	3 ~ 400 V	900	1,9	-	1"	1145	11
MICRA 100 T	3 ~ 400 V	1150	2,4	-	1"	1390	12



MICRA

MODEL	n ³ /h l/min	0,3	0,6	0,9	1,2	1,5	1,8	2,1	2,4	2,7
		H (m)								
MICRA 50		45	41	38	35	31	27	21	14	6
MICRA 75		68	64	59	54	48	42	33	23	11
MICRA 100		90	84	78	72	65	56	44	30	14

Borehole Selection Chart

Model		P2 Nominal		m ³ /h	0	0.6	1.2	1.5	1.8	2.14	3	4.2	4.8	6	9	11.4	18	24	27	
Single	Three-phase	kW	hp	l/min	0	10	20	25	30	40	50	70	80	100	150	190	300	400	500	
S4A-8M		0.25	0.33			44.4	26.8	13.7												
S4A-12M	S4A-12T	0.37	0.50			66.6	40.2	20.5												
S4A-18M	S4A-18T	0.55	0.75			99.8	60.3	30.8												
S4A-25M	S4A-25T	0.75	1.00			138.7	83.7	42.7												
S4A-36M	S4A-36T	1.10	1.50			200.0	120.6	61.6												
S4A-50M	S4A-50T	1.50	2.00			277.4	167.5	85.5												
S4B-5M		0.25	0.33			30.0	26.0	22.6	19.0	10.0										
S4B-8M	S4B-8T	0.37	0.50			47.8	41.5	36.2	30.6	16.0										
S4B-12M	S4B-12T	0.55	0.75			71.8	62.3	54.4	45.8	24.0										
S4B-16M	S4B-16T	0.75	1.00			95.7	83.0	72.5	61.0	32.0										
S4B-24M	S4B-24T	1.10	1.50			143.5	124.6	108.7	91.7	48.0										
S4B-32M	S4B-32T	1.50	2.00			191.4	166.0	144.9	122.2	64.0										
S4B-40M	S4B-40T	2.20	3.00			239.2	207.6	181.2	152.8	80.0										
S4B-48M	S4B-48T	2.20	3.00			287.1	249.2	217.4	183.4	96.0										
S4C-6M	S4C-6T	0.37	0.50				31.8	30.7	29.4	26.4	22.7	13.2								
S4C-9M	S4C-9T	0.55	0.75				47.7	46.0	44.0	39.6	34.0	19.8								
S4C-13M	S4C-13T	0.75	1.00				68.9	66.4	63.7	57.2	49.2	28.6								
S4C-19M	S4C-19T	1.10	1.50				100.7	97.0	93.0	83.6	71.8	41.8								
S4C-25M	S4C-25T	1.50	2.00				132.5	128.0	122.5	110.0	94.5	55.0								
S4C-32M	S4C-32T	2.20	3.00				169.6	163.0	156.8	140.8	120.9	70.4								
S4C-39M	S4C-39T	2.20	3.00				206.7	200.0	191.1	171.6	147.4	85.8								
	S4C-45T	3.00	4.00				238.5	229.0	220.5	198.0	170.1	99.0								
	S4C-51T	3.00	4.00				270.3	261.0	250.0	224.4	192.8	112.2								
S4D-4M	S4D-4T	0.37	0.50	H (m)					23.0	22.0	21.8	18.0	16.2	11.2						
S4D-6M	S4D-6T	0.55	0.75						34.5	33.0	31.5	27.0	24.3	16.8						
S4D-8M	S4D-8T	0.75	1.00						46.0	44.0	42.0	36.0	32.5	22.4						
S4D-13M	S4D-13T	1.10	1.50						47.7	71.5	68.3	59.0	52.6	36.4						
S4D-17M	S4D-17T	1.50	2.00						98.0	93.5	89.5	77.5	6.88	47.6						
S4D-21M	S4D-21T	2.20	3.00						121.0	115.5	110.0	96.0	85.0	8.5						
S4D-25M	S4D-25T	2.20	3.00						144.0	137.5	132.0	114.5	101.2	70.0						
	S4D-29T	3.00	4.00						166.0	159.5	152.0	132.0	117.4	81.2						
	S4D-34T	3.00	4.00						196.0	187.0	179.5	155.0	137.7	95.2						
	S4D-38T	4.00	5.50						219.0	209.0	200.0	173.0	153.9	106.4						
	S4D-45T	4.00	5.50						259.0	247.5	237.0	205.0	182.2	127.0						
S4E-6M	S4E-6T	0.75	1.00									31.5	30.0	27.0	17.6	7.7				
S4E-8M	S4E-8T	1.10	1.50									42.0	40.0	37.0	23.4	10.3				
S4E-12M	S4E-12T	1.50	2.00									63.0	60.0	55.0	35.2	15.5				
S4E-17M	S4E-17T	2.20	3.00									89.5	86.0	78.0	49.8	21.9				
	S4E-20T	3.00	4.00									105.0	101.5	91.0	58.6	25.7				
	S4E-23T	3.00	4.00									120.5	117.0	104.5	67.4	29.6				
	S4E-27T	4.00	5.50									141.5	137.0	122.5	79.2	34.8				
	S4E-31T	4.00	5.50									162.0	156.0	140.0	90.9	39.9				
	S4E-36T	5.50	7.50									188.0	180.0	162.0	105.5	46.5				
	S4E-42T	5.50	7.50									220.0	211.0	189.0	123.2	54.0				
S4F-7M	S4F-7T	2.20	3.00												36.0	33.0	24.0	15.0	11.0	
	S4F-10T	3.00	4.00												50.8	47.0	34.0	22.0	16.0	
	S4F-13T	4.00	5.50												66.0	62.0	44.7	28.0	20.0	
	S4F-18T	5.50	7.50												91.0	84.0	61.2	39.0	28.0	

Pumps should be operated to as close as possible to the middle of the performance curve and not outside maximum and minimum flows.



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