3 SDM BOREHOLE RANGE

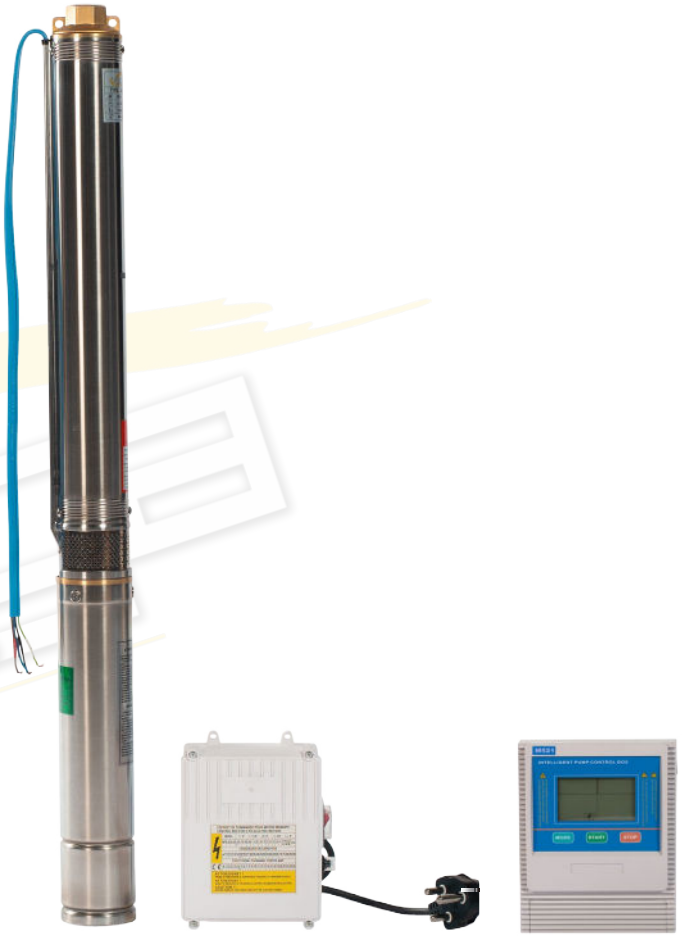
3”

Applications

For water supply from boreholes, wells or reservoirs
Continuous duty rated products for use in domestic, farming and irrigation applications.

Operating Conditions

Maximum fluid temperature up to	+ 35 ˚C
Maximum sand content:	0.25%
Minimum well diameter:	4”



Motor and Pump

Replaceable Pump and Motor.
Single-Phase: 220 - 240V/50Hz
Equipped with start control box
Curve tolerance according to ISO 9906

Warranty: 1 year

(according to our general sales conditions)

Materials of Construction

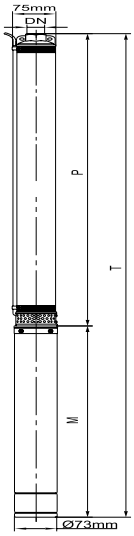
Components	Material
Wet End	
Pump external casing	AISI 304 SS
Delivery casing	Cast-Cu ASTM C85500
Suction lantern	Cast-Cu ASTM C85500
Diffuser	Plastic.PC
Impeller	Plastic.POM
Shaft	AISI 304 SS
Shaft coupling	AISI 304 SS
Wear ring	AISI 304 SS
Motor	
Motor external casing	AISI 304 SS
Top chock	Cast-Cu ASTM C85500
	Cast-Iron ASTM No.30
Bottom support	AISI 304 SS
Mechanical seal	Graphite - Ceramic
Shaft	AISI 304 SS - ASTM 5140
Bearing	NSK
Seal lubricant oil	Food grade oil

3SD(M) 2 / 8(N)

- **Build-in capacitor**
- **Number of impellers**
- **Capacity (m^3/h)**
- **Single phase**
- **Pump model name**
- **Well Size 3”**

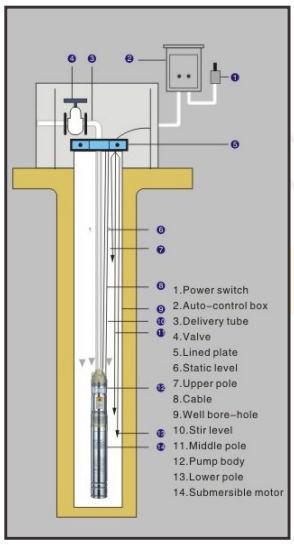
TECHNICAL DATA

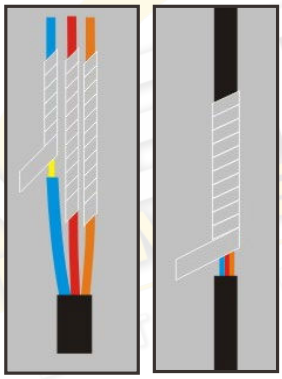
Dimensions and weights



MODEL	DN	DIMENSIONS(mm)			WEIGHTS (kg)		
1 ~220-240		P	M	T	P	M	T
3 SDM 2/ 8	1”	377	288	665	1.8	4.0	5.8
3 SDM 2 / 11	1”	444	308	752	2.1	4.8	6.9
3 SDM 2 / 15	1”	535	338	873	2.4	5.6	8.0
3 SDM 2 / 21	1”	694	368	1062	3.2	6.4	9.6
3 SDM 2 / 27	1”	830	408	1238	3.5	7.5	11.0
3 SDM 2 / 33	1”	966	448	1414	4.3	8.7	13.0
3 SDM 2 / 39	1”	1101	493	1594	4.9	10.0	14.9
3 SDM 2 / 47	1”	1306	543	1849	5.8	11.3	17.1

Installing a borehole pump and motor





SINGLE PHASE 3” OIL FILLED BOREHOLE MOTOR CAPACITOR RATINGS		
kW	Capacitor (mF)	Running Amps
0.18	12	2.2
0.25	16	3.9
0.37	20	4.2
0.55	25	4.5
0.75	35	6
1.1	45	9
1.5	55	10.3

MAXIMUM CABLE LENGTH FROM PUMP TO STARTER

TYPE	kW	i_n(A)	1.5 mm²	2.5 mm²	4 mm²	6 mm²	10 mm²
220V~/50H	0.18	2.2	171	290			
	0.25	3.9	122	207			
	0.37	4.2	111	185	295		
	0.55	4.5	80	133	211	315	
	0.75	6	58	96	153	229	377
	1.1	9	48	79	153	190	316
	1.5	10.3	34	57	92	137	228

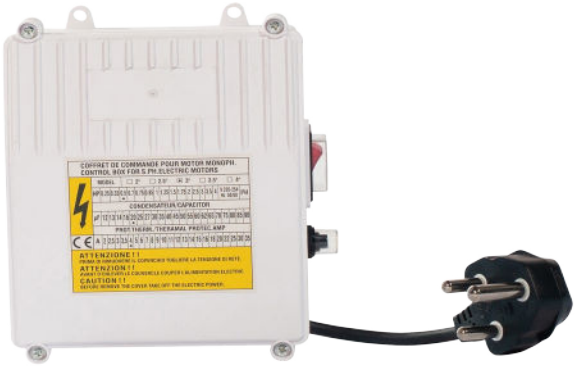
Note: Unit c/w maximum 1.5mm 4 core cable.
However, it is not recommended for use for lengths longer than 60m.
For applications where longer distances are required it is advised to purchase the Version 1 kit. Refer to the 3” & 4” Borehole Catalogue (p.7) for the cable length chart to ensure correct cable size is purchased.

PUMP CONTROLLER

MA CONTROL BOX SINGLE PHASE

Technical data

This single phase control box is equipped with a capacitor and thermal over-load protector.



Application range

Type of motor:	Single phase motor
Motor power:	0.18-1.5kW
Voltage:	220V ~240V
Frequency:	50Hz

Product functions

Provides basic protection against short circuiting and over current.

Operating method

Manual control.

Installation environment index

Grade protection:	IP44
Environment temperature:	-25°C to 55°C
Environment humidity:	(20-90)%RH

Specifications

POWER		RUNNING CAPACITOR	MCB
kW	HP	Microfarad (µF)	Amp
0.18	0.25	12	8
0.25	0.39	16	8
0.37	0.50	20	8
0.55	0.75	25	10
0.75	1.00	35	15
1.1	1.50	45	15
1.5	2.00	55	20

