

OIL COOLED CATEGORY



Area of Application

These pumps work under water and hence suction and priming problems are totally eliminated. Also the working is noise-free. Suitable for domestic water supply, agricultural applications, multi-storied buildings, fountains, community water supply, industrial and civil applications etc.

Designed for 3" & 4" Bore wells.

Working conditions

Power Rating	: 0.37 kW - 1.1 kW (0.5 to 1.5 HP)
Total Head Range	: Up to 140 m
Maximum Liquid Temperature	: 35°C
Speed	: 2800 rpm
Version	: Single Phase AC, 50 Hz
Voltage range at input terminals	: 180 - 240 V
Type of duty	: S1 (Continuous)

Structural features

Body	: Stainless Steel.
Impeller	: Centrifugal radial flow type.
Motor	: The pumps are coupled to oil cooled, rewindable induction motors.
Insulation	: Class 'B'.
Motor shaft	: Stainless Steel.
Bearings	: Anti-Friction ball bearings with life lubrication.
Direction of Rotation	: Counter clockwise from driving end.

Precautions to be taken while using Borewell Oil Cooled Submersible pumps

- The pump must be used for handling clear, cold fresh water having the characteristics specified below.
- Permissible amount of sand - 25g/m³ for 4" submersible models and 15 g/m³ for 3" models. Turbidity-50 ppm (silica scale).
- Max Chloride ion density 500ppm. Total solids-3000 ppm. pH value-6.5 to 8.5, specific gravity 1.004. Hardness (drinking water) 300mg.
- The motor is already filled with adequate quantity of food grade insulating oil, so that do not try to open seal or try to fill water inside the motor.
- Do not operate the pump set without water under any circumstance, as this will cause damage to the motor.
- Use good quality, proper gauge wire (3-core) for connection.
- Give proper insulation at cable joints and check the capacitor box connections as per the circuit diagram given in the instruction manual.
- Earthing should be given to the pump set. In case G.I. pipes are used, connect the earth line to G.I. pipe or pipe clamp itself. If non metallic pipes are used, have to provide a separate earth lead of proper size to the pump sets. Ensure that connections are not loose and proper earthing is provided to avoid leakage current.
- It is recommended that, the connection to the borewell submersible pumps should be taken through an ISI certified DP switch of required current rating, fixed near the capacitor box.

PERFORMANCE CHART

VBSO3 SERIES - SUITABLE FOR 3" (7.5cm) BOREWELLS

Model	Power		Capacitor (mfd)		Pipe Size		LPM	Head in Metres														
	H.P.	kW	Run	Start	cm	Inch		LPH	60	50	45	40	35	30	25	20	15	10	5	0		
VBSO3-F250/20	1	0.75	50	100/120	2.5	1"	metre	23	37	43	48	53	58	62	66	70					78	

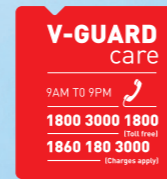
VBSO SERIES - SUITABLE FOR 4" (10cm) BOREWELLS

Model	Power		Capacitor (mfd)		Pipe Size		LPM	Head in Metres														
	H.P.	kW	Run	Start	cm	Inch		LPH	90	80	70	60	50	45	40	35	30	20	10	0		
VBSO-H100/7	0.5	0.37	36	Nil	3.2	1.25"			24	27	29	31	32	33	34	35					42	
VBSO-F120/8	1	0.75	36	Nil	3.2	1.25"			28	31	33	35	37	38	39	40					48	
VBSO-F150/10	1	0.75	36	Nil	3.2	1.25"			35	38	41	44	46	48	49	50					60	
VBSO-F180/12	1	0.75	36	Nil	3.2	1.25"			42	46	49	52	55	57	59	60					72	
VBSO-FH180/12	1.5	1.1	50	100/120	3.2	1.25"			44	48	51	54	57	59	61	62					74	
VBSO-F275/19	1	0.75	50	100/120	3.2	1.25"							12	30	45	60	80	90	95			
VBSO-F290/19	1	0.75	50	100/120	3.2	1.25"								43	58	67	76	84	93	98	105	
VBSO-FH325/21	1.5	1.1	50	100/120	3.2	1.25"								48	65	75	85	93	103	110	115	
VBSO-FH400/18	1.5	1.1	50	100/120	3.2	1.25"								60	70	80	90	100	110	115	122	
VBSO-FH450/30	1.5	1.1	50	100/120	3.2	1.25"								15	35	52	66	115	135	150		
Model	Power		Capacitor (mfd)		Pipe Size		LPM	Head in Metres														
	H.P.	kW	Run	Start	cm	Inch		LPH	160	150	140	130	120	110	100	90	80	70	60	0		
VBSO-FH180/10	1.5	1.1	50	100/120	4	1.5"	metre		20	25	30	34	37	40	43	46	49	52	60			

All models are also available in VBSOAM Series (with capacitor box)

Note: All performance data & technical specifications given above are based on our lab test conducted at standard conditions, rated voltage & frequency (240V, 50Hz AC supply) and are likely to change with various field conditions. Friction and flow losses in pipes and pipe fittings have not been calculated. As improvements made in design from time to time, specifications and performance are subjected to change without prior information. For latest details, you may get in touch with our nearest Branches/Service centers.

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VGI/CC/END/RS/December 2014



