

PRODUCT SPECIFICATION

◉ Stator Shell	S S 304
◉ Motor Shaft	S S 420
◉ Winding Wire	Poly Propylene Copper
◉ Stamping	CRNO
◉ Thrust Bearing	Carbon
◉ Degree Of Protection	IP 68
◉ Max Water Temperature	35°C
◉ Nos. Of Start Per Hour	Max 20 At Regular Intervals
◉ Voltage Variation	+10%/ -25% At Rated Voltage
◉ Max Depth Immersion	10 To 200 Metres
◉ Maximum Outer Dia	96 MM
◉ Power Rang	0.5 Hp to 3.0 Hp - Single Phase 1 Hp to 7.5 Hp - Three Phase
◉ A.C. Single Phase	220-230 VOLT - 50 HZ 380-400-415 VOLT - 50HZ
◉ A.C. Three Phase	Direct Online (D.O.L)
◉ Speed	2850 RPM



PRODUCT FEATURE

- ◉ **Orbit** Water Lubricated Submersible Motor are Robust Rewindable and Pre-Filled With Clean Water Mixed With Anti Corrosion Fluid.
- ◉ Bearing: Water Lubricated Radial And Thrust Bearing (Carbon V/S Chrome Steel).
- ◉ Shaft Extension Made Of Satainless Steel Aisi 420.
- ◉ High Efficiency Electrical Design For Lower Operating Cost.
- ◉ Single Phase Motors Are Capacitor Start Capacitor Run (cscr) Design.
- ◉ Pressure Compensation Diaphragm.
- ◉ All Single Phase Motors Require Control Box.

PRODUCT APPLICATION

Orbit submersible motors are suitable to couple with deep well submersible pump used for:

- ◉ Residential Purpose
- ◉ Gardens & Horticulture
- ◉ Irrigation
- ◉ Drip & Sprinkler Systems
- ◉ Fountains
- ◉ Mining Industries
- ◉ Industrial Water Supply
- ◉ Oil & Gas Industries
- ◉ Pressure Boosting Units

V4 FABRICATED SERIES

								Outlet Size 32mm (1.25")		
MODEL	HP	STAGE	KW	IPM	0	17	23	33	40	45
2FR0509	0.50	9	0.37	HEAD IN METERS	52	46	43	35	22	12
2FR7512	0.75	12	0.55		70	62	57	47	29	16
2FR1018	1.00	18	0.75		104	93	86	70	43	23
2FR1520	1.50	20	1.10		116	103	95	78	48	26
2FR2025	2.00	25	1.50		145	129	119	98	60	33
2FR2028	2.00	28	1.50		162	144	133	109	67	36
2FR3035	3.00	35	2.20		203	180	166	137	84	46

								Outlet Size 32mm (1.25")		
MODEL	HP	STAGE	KW	IPM	0	30	40	50	60	70
3FR0506	0.50	6	0.37	HEAD IN METERS	40	32	30	26	20	16
3FR7510	0.75	10	0.55		67	54	50	43	34	25
3FR1010	1.00	10	0.75		67	54	50	43	34	25
3FR1012	1.00	12	0.75		80	65	60	52	41	31
3FR1515	1.50	15	1.10		101	81	75	65	51	39
3FR1518	1.50	18	1.10		121	97	90	78	61	47
3FR2020	2.00	20	1.50		134	108	100	87	68	52
3FR3028	3.00	28	2.20		188	152	140	122	96	72
3FR5040	5.00	40	3.70		268	216	200	175	136	104
3FR6045	6.00	45	4.50		302	243	225	197	153	117
3FR7550	7.50	50	5.50	336	270	250	219	170	130	

								Outlet Size 40mm (1.5")		
MODEL	HP	STAGE	KW	IPM	0	40	57	67	83	100
4FR1008	1.00	8	0.75	HEAD IN METERS	54	42	40	38	32	23
4FR1512	1.50	12	1.10		80	63	60	56	48	35
4FR2015	2.00	15	1.50		101	78	75	71	60	43
4FR2017	2.00	17	1.50		114	89	85	80	68	49
4FR3020	3.00	20	2.20		134	105	100	94	80	58
4FR3025	3.00	25	2.20		168	131	125	118	100	73
4FR5035	5.00	35	3.70		235	184	175	165	140	102
4FR6040	6.00	40	4.20		269	210	200	189	160	117
4FR7545	7.50	45	5.50		303	236	225	213	180	132

								Outlet Size 40mm (1.5")		
MODEL	HP	STAGE	KW	IPM	0	43	75	100	122	133
5FR1510	1.50	10	1.10	HEAD IN METERS	67	60	49	40	27	18
5FR2012	2.00	12	1.50		80	71	59	48	32	22
5FR3015	3.00	15	2.20		101	89	73	60	40	27
5FR5030	5.00	30	3.70		201	179	147	120	81	54
5FR6035	6.00	35	4.50		235	208	172	140	95	63
5FR7540	7.50	40	5.50		269	238	197	160	109	72

								Outlet Size 50mm (2")		
MODEL	HP	STAGE	KW	IPM	0	57	100	133	162	178
7FR1508	1.50	8	1.10	HEAD IN METERS	58	48	39	32	22	14
7FR2010	2.00	10	1.50		72	55	49	40	27	18
7FR3012	3.00	12	2.20		86	71	59	48	32	22
7FR5025	5.00	25	3.70		180	149	123	100	68	45
7FR6030	6.00	30	4.50		216	179	148	112	82	54
7FR7535	7.50	35	5.50		252	209	173	131	96	63

								Outlet Size 50mm (2")		
MODEL	HP	STAGE	KW	IPM	0	70	125	167	202	220
10FR1505	1.50	5	1.10	HEAD IN METERS	36	30	25	20	14	9
10FR2007	2.00	7	1.50		50	42	34	28	19	13
10FR3010	3.00	10	2.20		72	60	49	40	27	18
10FR5018	5.00	18	3.70		130	107	88	72	49	32
10FR5020	5.00	20	3.70		144	119	98	80	54	36
10FR6024	6.00	24	4.50		173	143	118	96	65	43
10FR7528	7.50	28	5.50		202	167	138	112	76	50

V4 SUBMERSIBLE PUMP SET

PERFORMANCE CHART OF 100 MM (4") WATER FILLED SUBMERSIBLE PUMP 50HZ FREQUENCY, 160 TO 220 VOLTS RATED FOR 1PH, 350 TO 415 VOLTS RATED VOLTAGE FOR 3PH

MODEL NO.	H.P.	STAGE	OUTLET IN MM	HEAD IN METER	DISCHARGE IN LPM						
					0	20	27	32	45	50	65
VE-10510	0.5	10	32		60	50	45	40	30	20	10
VE-17515	0.75	15	32		90	75	67	60	45	30	15
VE-11015	1	15	32		90	75	67	60	45	30	15
VE-11018	1	18	32		108	90	81	72	54	36	18
VE-11520	1.5	20	32		120	100	90	80	60	40	20
VE-11522	1.5	22	32		132	110	99	88	66	44	22
VE-11525	1.5	25	32		150	125	112	100	75	50	25
VE-12025	2	25	32		150	125	112	100	75	50	25
VE-12030	2	30	32		180	150	135	120	90	60	30

MODEL NO.	H.P.	STAGE	OUTLET IN MM	HEAD IN METER	DISCHARGE IN LPM						
					0	40	45	55	65	75	85
VE-20507	0.5	7	32		42	35	31	28	21	14	7
VE-27510	0.75	10	32		60	50	45	40	30	20	10
VE-27512	0.75	12	32		72	60	54	48	36	24	12
VE-21013	1	12	32		72	60	54	48	36	24	12
VE-21518	1.5	18	32		108	90	81	72	54	36	18
VE-23030	3	28	32		168	140	126	112	84	56	28
VE-25035	5	35	32		210	175	157	140	105	70	35
VE-25040	5	40	32		240	200	180	160	120	80	40

MODEL NO.	H.P.	STAGE	OUTLET IN MM	HEAD IN METER	DISCHARGE IN LPM						
					0	45	55	60	80	90	100
VE-40505	0.5	5	32		30	25	22	20	15	10	5
VE-47507	0.75	7	32		42	35	31	28	21	14	7
VE-41010	1	10	32		60	50	45	40	30	20	10
VE-41515	1.5	15	32		90	75	67	60	45	30	15
VE-42020	2	20	32		120	100	90	80	60	40	20
VE-43025	3	25	32		150	125	112	100	75	50	25

MODEL NO.	H.P.	STAGE	OUTLET IN MM	HEAD IN METER	DISCHARGE IN LPM						
					0	55	70	85	110	120	140
VE-57505	0.75	5	40	HEAD IN METER	30	25	22	20	15	10	5
VE-51007	1	7	40		42	35	31	28	21	14	7
VE-51512	1.5	12	40		72	60	54	48	36	24	12
VE-52015	2	15	40		90	75	67	60	45	30	15
VE-53020	3	20	40		120	100	90	80	60	40	20
VE-55030	5	30	40		180	150	135	120	90	60	30

MODEL NO.	H.P.	STAGE	OUTLET IN MM	HEAD IN METER	DISCHARGE IN LPM						
					0	70	90	100	125	140	160
VE-7105	1	5	40	HEAD IN METER	30	25	22	20	15	10	5
VE-71508	1.5	8	40		48	40	36	32	24	16	8
VE-71510	1.5	10	40		60	50	45	40	30	20	10
VE-72010	2	10	40		60	50	45	40	30	20	10
VE-72012	2	12	40		72	60	54	48	36	24	12
VE-73015	3	15	40		90	75	67	60	45	30	15
VE-75025	5	25	40		150	125	112	100	75	50	25

MODEL NO.	H.P.	STAGE	OUTLET IN MM	HEAD IN METER	DISCHARGE IN LPM						
					0	85	100	120	145	160	180
VE-101550	1.5	5	50	HEAD IN METER	30	25	22	20	15	10	5
VE-102010	2	8	50		48	40	36	32	24	16	8
VE-103012	3	12	50		72	60	54	48	36	24	12
VE-105015	5	15	50		90	75	67	60	45	30	15
VE-105020	5	20	50		120	100	90	80	60	40	20

MODEL NO.	H.P.	STAGE	OUTLET IN MM	HEAD IN METER	DISCHARGE IN LPM						
					0	140	180	230	250	360	380
VE-181504	1.5	4	65	HEAD IN METER	20	18	16	14	12	8	4
VE-182006	2	6	65		30	27	27	24	18	12	6
VE-182007	2	7	65		35	32	28	28	21	14	7
VE-18309	3	9	65		45	41	36	31	27	18	9
VE-18512	5	12	65		60	54	48	48	36	24	12

MODEL NO.	H.P.	STAGE	OUTLET IN MM	HEAD IN METER	DISCHARGE IN LPM						
					0	180	220	270	300	380	450
VE-202005	2	5	65	HEAD IN METER	25	22	20	17	15	10	5
VE-203006	3	6	65		30	27	24	21	18	12	6
VE-203007	3	7	65		35	35	28	24	21	14	7
VE-205010	5	10	65		50	50	40	35	30	20	10

V4 SUBMERSIBLE 262 TYPE PUMP SET

PERFORMANCE CHART OF 100 MM (4") WATER FILLED SUBMERSIBLE PUMP 50HZ FREQUENCY, 160 TO 220 VOLTS RATED FOR 1PH, 350 TO 415 VOLTS RATED VOLTAGE FOR 3PH

MODEL NO	HP	STAGE	DELIVERY SIZE	DISCHARGE IN L.P.M					
				350	300	250	200	125	0
				TOTAL HEAD PER METER					
VEW-62125	2	5	2.5"	10	15	17	15	25	30
VEW-62126	2	6	2.5"	12	18	21	24	30	36
VEW-62339	3	9	2.5"	20	27	32	36	45	54

MODEL NO	HP	STAGE	DELIVERY SIZE	DISCHARGE IN L.P.M					
				425	300	250	200	160	0
				TOTAL HEAD PER METER					
VEW-62338	3	8	2.5"	14	24	30	34	44	48
VEW-62337	3	7	2.5"	12	21	26	30	39	42

MODEL NO	HP	STAGE	DELIVERY SIZE	DISCHARGE IN L.P.M					
				500	450	350	250	180	0
				TOTAL HEAD PER METER					
VEW-62356	5	6	2.5"	12	15	21	28	32	36
VEW-62358	5	8	2.5"	16	20	24	32	36	40
VEW-62351	5	10	2.5"	18	25	32	38	45	55
VEW-623511	5	11	2.5"	22	29	36	42	49	59

V4 HIGH HEAD SUBMERSIBLE PUMP SET

PERFORMANCE CHART OF 100 MM (4") WATER FILLED SUBMERSIBLE PUMP 50HZ FREQUENCY, 220 VOLTS RATED FOR 1PH, 415 VOLTS RATED VOLTAGE FOR 3PH

SR. NO	MODEL	H.P.	STG.	OUTLET DIA IN INCH	LPM	0	6	8	14	22	25	33	40
1	VHH-01018	1	18	1.25"	TOTAL HEAD IN METER	126	117	113	104	90	85	63	40
2	VHH-01525	1.5	25	1.25"		175	163	158	145	125	118	88	55
3	VHH-01522	1.5	22	1.25"		154	143	139	128	110	103	77	48
4	VHH-02030	2	30	1.25"		210	195	189	174	150	141	105	66

PERFORMANCE CHART OF 100 MM (4") WATER FILLED SUBMERSIBLE PUMP 50HZ FREQUENCY, 220 VOLTS RATED FOR 1PH, 415 VOLTS RATED VOLTAGE FOR 3PH

SR. NO	MODEL	H.P.	STG.	OUTLET DIA IN INCH	LPM	0	15	20	25	30	36	42	48
5	VHH-11012	1	12	1.25"	TOTAL HEAD IN METER	84	78	74	68	60	50	34	17
6	VHH-11014	1	14	1.25"		98	91	86	78	70	57	39	18
7	VHH-11016	1	16	1.25"		112	104	99	89	80	65	44	20
8	VHH-11518	1.5	18	1.25"		126	117	112	103	90	73	50	23
9	VHH-11520	1.5	20	1.25"		140	130	124	112	100	82	56	26
10	VHH-12025	2	25	1.25"		175	163	155	143	125	104	71	34
11	VHH-13035	3	35	1.25"		245	227	217	196	175	143	98	45
12	VHH-15050	5	50	1.25"		350	325	310	280	250	205	140	65

PERFORMANCE CHART OF 100 MM (4") WATER FILLED SUBMERSIBLE PUMP 50HZ FREQUENCY, 220 VOLTS RATED FOR 1PH, 415 VOLTS RATED VOLTAGE FOR 3PH

SR. NO	MODEL	H.P.	STG.	OUTLET DIA IN INCH	LPM	0	20	25	32	40	50	55	60
13	VHH-21010	1	10	1.25"	TOTAL HEAD IN METER	75	68	65	58	50	37	27	17
14	VHH-21515	1.5	15	1.25"		113	103	98	88	75	55	40	25
15	VHH-22020	2	20	1.25"		150	137	130	117	100	73	53	33
16	VHH-23025	3	25	1.25"		188	171	163	146	125	92	67	42
17	VHH-23028	3	28	1.25"		210	190	182	162	140	130	75	47
18	VHH-25035	5	35	1.25"		262	238	227	203	175	129	94	59
19	VHH-25040	5	40	1.25"		300	272	260	232	200	148	108	68
20	VHH-26045	6	45	1.25"		337	306	292	261	225	166	121	76
21	VHH-27550	7.5	50	1.25"		375	340	335	290	250	185	135	85

**PERFORMANCE CHART OF 100 MM (4") WATER FILLED SUBMERSIBLE PUMP
50HZ FREQUENCY, 220 VOLTS RATED FOR 1PH, 415 VOLTS RATED VOLTAGE FOR 3PH**

SR. NO	MODEL	H.P.	STG.	OUTLET DIA IN INCH	DISCHARGE IN LPM								
					LPM	0	35	50	60	70	75	90	100
22	VHH-41007	1	7	1.5"	TOTAL HEAD IN METER	56	53	50	44	35	28	21	12
23	VHH-41008	1	8	1.5"		64	61	58	51	40	33	25	15
24	VHH-41510	1.5	10	1.5"		80	77	73	64	50	42	32	18
25	VHH-41512	1.5	12	1.5"		96	92	87	76	60	50	38	22
26	VHH-42014	2	14	1.5"		112	107	102	89	70	58	44	26
27	VHH-42015	2	15	1.5"		120	144	108	94	75	61	46	27
28	VHH-43020	3	20	1.5"		160	153	146	127	100	83	63	37
29	VHH-45030	5	30	1.5"		240	230	218	191	150	125	95	55
30	VHH-46040	6	40	1.5"		320	307	291	254	200	167	127	73
31	VHH-47545	7.5	45	1.5"		360	345	238	286	225	188	143	83

**PERFORMANCE CHART OF 100 MM (4") WATER FILLED SUBMERSIBLE PUMP
50HZ FREQUENCY, 220 VOLTS RATED FOR 1PH, 415 VOLTS RATED VOLTAGE FOR 3PH**

SR. NO	MODEL	H.P.	STG.	OUTLET DIA IN INCH	DISCHARGE IN LPM								
					LPM	0	40	60	75	90	100	110	140
32	VHH-51005	1	5	1.5"	TOTAL HEAD IN METER	40	36	34	30	25	22	18	11
33	VHH-51507	1.5	8	1.5"		64	58	54	48	40	36	28	18
34	VHH-52010	2	10	1.5"		80	73	68	61	50	45	36	23
35	VHH-52012	2	12	1.5"		96	87	81	73	60	54	43	27
36	VHH-53015	3	15	1.5"		120	109	102	91	75	67	54	34
37	VHH-55025	5	25	1.5"		200	182	170	152	125	112	90	57
38	VHH-56035	6	35	1.5"		280	255	238	213	175	157	126	80
39	VHH-57540	7.5	40	1.5"		320	292	242	244	200	180	144	92

**PERFORMANCE CHART OF 100 MM (4") WATER FILLED SUBMERSIBLE PUMP
50HZ FREQUENCY, 220 VOLTS RATED FOR 1PH, 415 VOLTS RATED VOLTAGE FOR 3PH**

SR. NO	MODEL	H.P.	STG.	OUTLET DIA IN INCH	DISCHARGE IN LPM								
					LPM	0	65	80	95	120	135	142	150
40	VHH-71506	1.5	6	2.0"	TOTAL HEAD IN METER	48	42	39	34	30	24	21	16
41	VHH-72008	2	8	2.0"		64	56	52	46	40	33	28	22
42	VHH-73010	3	10	2.0"		80	70	65	57	50	41	35	27
43	VHH-73012	3	12	2.0"		96	84	78	70	60	49	42	34
44	VHH-75020	5	20	2.0"		160	140	130	116	100	82	70	56
45	VHH-76030	6	30	2.0"		240	210	195	171	150	123	105	81
46	VHH-77535	7.5	35	2.0"		280	245	227	199	175	143	122	94