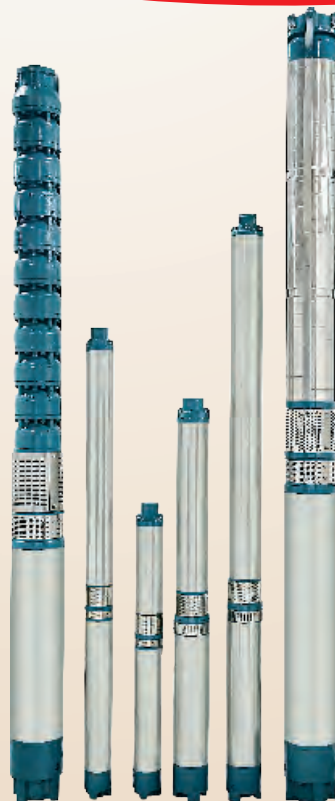




dharani[®] PUMPS

HYDRAA

- 3", 4" & 6" Borewell Submersible Pumps



PERFECT ENGINEERS
THE PERFECT PUMP

V3 (V4 Slim) - Borewell Submersible Pumps

Characteristics

- Low Power Consumption
- Compact Mechanical Design
- Protection Class - IP 68
- Re-windable water-cooled motor
- Works in wide voltage conditions

Material of Construction

Part Name	Material
Pump Casing	Cast Iron
Pump Adaptor	Cast Iron
Motor Housing	SS304
Impeller/Diffuser	Noryl
Shaft	SS410
Mechanical Seal	Ceramic Vs. Graphite



Performance

Single Phase, 3000 - RPM (Syn.), 50Hz, 220 - 240 V;

S.No.	Model	kW	HP	Stages	Pipe Size 1"(25 mm)	Discharge (LPM)						
						10	18	20	25	35	40	50
1	3DR 2/0.5-12	0.37	0.5	12	Head in Meters	48	42	40	36	30	24	12
2	3DR 2/0.75-18	0.55	0.75	18		72	63	58	54	45	36	18
3	3DR 2/1.0-23	0.75	1.0	23		92	80	75	69	57	46	23
4	3DR 2/1.5-28	1.1	1.5	28		112	98	91	84	70	56	28
5	3DR 2/2-40	1.5	2.0	40		160	140	133	120	100	80	40

S.No.	Model	kW	HP	Stages	Pipe Size 1"(25 mm)	Discharge (LPM)						
						18	27	30	35	45	50	60
1	3DR 4/0.5-9	0.37	0.5	9	Head in Meters	36	31	29	27	22	18	9
2	3DR 4/0.75-14	0.55	0.75	14		56	49	45	42	35	28	14
3	3DR 4/1.0-18	0.75	1.0	18		72	63	58	54	45	36	18
4	3DR 4/1.5-23	1.1	1.5	23		92	80	75	69	57	45	23
5	3DR 4/2-35	1.5	2.0	35		140	120	113	105	85	70	35

S.No.	Model	kW	HP	Stages	Pipe Size 1¼"(32 mm)	Discharge (LPM)						
						20	30	40	50	65	75	80
1	3DR 7/0.5-6	0.37	0.5	6	Head in Meters	27	24	21	18	15	12	6
2	3DR 7/0.75-10	0.55	0.75	10		45	40	35	30	25	20	10
3	3DR 7/1.0-13	0.75	1.0	13		58	52	45	39	32	26	13
4	3DR 7/1.5-16	1.1	1.5	16		72	64	56	48	40	32	16

V4 - Borewell Submersible Pumps

Characteristics

- Low Power Consumption
- Compact Mechanical Design
- Protection Class - IP 68
- Re-windable water-cooled motor
- Works in wide voltage conditions

Material of Construction

Part Name	Material
Pump Casing & Adaptor	Cast Iron
Motor Housing	SS 304
Rotor	Copper
Impeller/Diffuser	Noryl
Shaft	SS 410
Mechanical Seal	Ceramic Vs. Graphite

Performance

Single Phase, 3000 - RPM (Syn.), 50Hz, 220 - 240 V; 0.5 - 3 HP

Three Phase, 3000 - RPM (Syn.), 50Hz, 415 V; 0.5 - 7.5 HP

S.No.	Model	kW	HP	Stages	Pipe Size 1¼" (32 mm)	Discharge (LPM)					
						10	18	28	38	48	58
1	4DAR 1/0.5-7	0.37	0.5	7	Head in Meters	49	46	39	31	23	11
2	4DAR 1/0.75-10	0.55	0.75	10		70	65	56	44	33	16
3	4DAR 1/1.0-14*	0.75	1.0	14		98	91	78	72	46	22
4	4DAR 1/1.0-16	0.75	1.0	16		109	102	85	78	50	24
5	4DAR 1/1.5-21*	1.10	1.5	21		147	137	118	92	69	34
6	4DAR 1/2.0-28*	1.50	2.0	28		196	183	157	123	91	57
7	4DAR 1/3.0-42	2.20	3.0	42		280	265	215	165	120	72

S.No.	Model	kW	HP	Stages	Pipe Size 1¼" (32 mm)	Discharge (LPM)					
						10	18	28	38	48	58
1	4DAR 1H/0.5-6	0.37	0.5	6	Head in Meters	42	37	31	25	17	8
2	4DAR 1H/0.75-9	0.55	0.75	9		63	58	48	37	25	12
3	4DAR 1H/1.0-12*	0.75	1.0	12		85	82	72	56	37	20
4	4DAR 1H/1.5-18*	1.10	1.5	18		125	112	98	75	50	24
5	4DAR 1H/2.0-24	1.50	2.0	24		166	150	126	100	66	31
6	4DAR 1H/3.0-36	2.20	3.0	36		249	224	188	150	100	47
7	4DAR 1H/5.0-60	3.70	5.0	60		410	370	310	230	150	65

S.No.	Model	kW	HP	Stages	Pipe Size 1¼" (32 mm)	Discharge (LPM)					
						10	28	48	68	82	98
1	4DAR 2/0.5-5	0.37	0.5	5	Head in Meters	36	34	28	20	15	7
2	4DAR 2/0.75-7*	0.55	0.75	7		51	47	39	28	20	10
3	4DAR 2/1.0-10*	0.75	1.0	10		73	67	56	40	29	15
4	4DAR 2/1.5-15*	1.10	1.5	15		109	101	85	60	44	22
5	4DAR 2/2.0-20*	1.50	2.0	20		145	135	113	80	58	29
6	4DAR 2/3.0-30	2.20	3.0	30		218	202	169	120	87	44
7	4DAR 2/5.0-50	3.70	5.0	50		364	336	309	200	145	73
8	4DAR 2/6.0-60	4.50	6.0	60		425	315	245	110	60	30
9	4DAR 2/7.5-70	5.50	7.0	70		495	360	280	135	70	40



S.No.	Model	kW	HP	Stages	Pipe Size 1¼" (32 mm)	Discharge (LPM)					
						10	32	52	67	82	98
1	4DAR 3/0.75-6*	0.55	0.75	6	Head in Meters	49	43	37	29	21	11
2	4DAR 3/1.0-8*	0.75	1.0	8		66	60	51	40	31	14
3	4DAR 3/1.5-12*	1.10	1.5	12		99	85	75	59	41	21
4	4DAR 3/2.0-14	1.50	2.0	14		116	105	91	94	49	25
5	4DAR 3/2.0-16*	1.50	2.0	16		137	122	102	78	55	28
6	4DAR 3/3.0-24	2.20	3.0	24		197	171	149	117	83	43
7	4DAR 3/5.0-40*	3.70	5.0	40		329	284	249	196	138	71
8	4DAR 3/6.0-50	4.50	6.0	50		375	335	285	240	110	50
9	4DAR 3/7.5-60	5.50	7.5	60		440	410	330	290	135	60

S.No.	Model	kW	HP	Stages	Pipe Size 1½" (40 mm)	Discharge (LPM)					
						10	32	52	67	82	98
1	4DAR 4/0.75-5*	0.55	0.75	5	Head in Meters	41	37	31	25	16	6
2	4DAR 4/1.00-7*	0.75	1.0	7		63	56	48	37	26	12
3	4DAR 4/1.50-10*	1.10	1.5	10		81	74	63	50	33	13
4	4DAR 4/2.0-14*	1.50	2.0	14		118	104	90	70	50	18
5	4DAR 4/3.0-21*	2.20	3.0	21		180	157	139	105	68	40
6	4DAR 4/5.0-35*	3.70	5.0	35		284	258	219	175	114	60

S.No.	Model	kW	HP	Stages	Pipe Size 2½" (65 mm)	Discharge (LPM)					
						50	150	200	300	350	400
1	4DAR 18/2.0-6*	1.50	2.0	6	Head in Meters	31	27	24	18	14	9
2	4DAR 18/2.0-8	1.50	2.0	8		42	36	32	23	19	12
3	4DAR 18/3.0-9	2.20	3.0	9		46	40	36	28	21	13
4	4DAR 18/5.0-11	3.70	5.0	11		57	47	44	35	27	19
5	4DAR 18/5.0-14*	3.70	5.0	14		72	60	56	44	34	24

* ISI Models

V6 - Borewell Submersible Pumps [50 Feet (15 m) per stage]

Characteristics

- Low Power Consumption
- Compact Mechanical Design
- Protection Class - IP 68
- Re-windable water-cooled motor
- Works in low voltage also

Performance

Single Phase, 3000 - RPM (Syn.), 50 Hz, 220 V; 3 - 5 HP

Three Phase, 3000 - RPM (Syn.), 50 Hz, 415 V;

Material of Construction

Part Name	Material
Pump Casing	Cast Iron
Pump Adaptor	Cast Iron
Motor Housing	SS304
Rotor	Copper
Impeller / Diffuser	SS304
Shaft	SS410
Mechanical Seal	Ceramic Vs. Graphite



S.No.	Model	kW	HP	Stages	Pipe Size 2"(50 mm)	Discharge (LPM)						
						40	90	100	120	130	160	200
1	6DR 50/3.0-6	2.20	3.0	6	Head in Meters	86	78	69	66	63	48	28
2	6DR 50/5.0-10	3.70	5.0	10		143	130	117	110	104	80	48
3	6DR 50/6.0-12	4.00	6.0	12		170	156	148	132	124	96	58
4	6DR 50/7.5-15	5.50	7.5	15		212	195	184	165	154	120	78
5	6DR 50/10-20	7.50	10.0	20		284	260	245	220	205	160	95

S.No.	Model	kW	HP	Stages	Pipe Size 2"(50 mm)	Discharge (LPM)						
						50	100	125	165	200	220	250
1	6DR 50/3.0-5	2.20	3.0	5	Head in Meters	68	65	61	48	35	26	12
2	6DR 50/5.0-8*	3.70	5.0	8		117	106	97	82	62	42	23
3	6DR 50/6.0-10	4.50	6.0	10		153	143	135	114	80	58	20
4	6DR 50/7.5-12*	5.50	7.5	12		170	162	150	122	90	62	28
5	6DR 50/10-16*	7.50	10.0	16		221	211	192	153	123	85	35
6	6DR 50/12.5-20	9.30	12.5	20		305	285	265	210	165	112	42
7	6DR 50/15-24*	11.00	15.0	24		340	322	308	242	185	140	70
8	6DR 50/17.5-27	13.00	17.5	27		410	382	355	280	212	155	80
9	6DR 50/20.0-30	15.00	20.0	30		455	420	400	315	217	175	92

S.No.	Model	kW	HP	Stages	Pipe Size 2"(50 mm)	Discharge (LPM)						
						80	125	170	210	250	285	325
1	6DR 50/5.0-6*	3.70	5.0	6	Head in Meters	89	86	81	70	56	40	16
2	6DR 50/6.0-8	4.50	6.0	8		120	115	104	96	72	55	18
3	6DR 50/7.5-10*	5.50	7.5	10		142	135	128	113	85	60	20
4	6DR 50/10-12*	7.50	10.0	12		172	165	146	125	97	74	25
5	6DR 50/12.5-15	9.30	12.5	15		225	214	195	180	110	85	30
6	6DR 50/15-18	11.00	15	18		270	254	234	216	140	100	35
7	6DR 50/17.5-22	13.00	17.5	22		330	315	286	264	180	125	40
8	6DR 50/20.0-25	15.00	20.0	25		375	358	325	300	210	140	50

S.No.	Model	kW	HP	Stages	Pipe Size 2½" (65 mm)	Discharge (LPM)						
						80	175	250	300	350	385	425
1	6DR 50/5.0-5*	3.70	5.0	5	Head in Meters	78	73	62	52	40	28	12
2	6DR 50/6.0-6	4.50	6.0	6		95	78	72	64	50	33	18
3	6DR 50/7.5-8*	5.50	7.5	8		122	112	102	88	68	50	30
4	6DR 50/10-10*	7.50	10.0	10		152	142	120	103	80	55	27
5	6DR 50/12.5-12	9.30	12.5	12		185	162	145	122	100	69	30
6	6DR 50/15-15*	11.00	15.0	15		228	210	178	152	112	72	32
7	6DR 50/17.5-18	13.00	17.5	18		275	242	220	185	150	92	38
8	6DR 50/20.0-20	15.00	20.0	20		310	255	245	210	165	100	42
9	6DR 50/25.0-25	18.50	25.0	25		380	335	310	255	210	60	

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* ISI Models

S.No.	Model	kW	HP	Stages	Pipe Size 2½" (65 mm)	Discharge (LPM)						
						120	200	275	350	410	460	525
1	6DR 50/5.0-4*	3.70	5.0	4	Head in Meters	57	55	52	45	38	31	18
2	6DR 50/6.0-5	4.50	6.0	5		76	74	67	62	52	42	26
3	6DR 50/7.5-6*	5.50	7.5	6		86	84	78	67	57	46	28
4	6DR 50/10-8*	7.50	10.0	8		116	112	104	90	77	63	37
5	6DR 50/12.5-10	9.30	12.5	10		150	145	134	121	105	85	52
6	6DR 50/15-12*	11.00	15.0	12		172	166	155	135	115	92	55
7	6DR 50/17.5-14	13.00	17.5	14		212	202	188	170	142	115	72
8	6DR 50/20.0-16	15.00	20.0	16		242	232	215	194	163	132	82
9	6DR 50/25.0-20	18.50	25.0	20		305	292	268	243	205	163	108

S.No.	Model	kW	HP	Stages	Pipe Size 2½" (65 mm)	Discharge (LPM)						
						130	250	375	425	525	575	625
1	6DR 50/5.0-3*	3.70	5.0	3	Head in Meters	43	42	36	34	24	15	6
2	6DR 50/6.0-4	4.50	6.0	4		62	60	55	52	33	20	7
3	6DR 50/7.5-5*	5.50	7.5	5		70	66	60	53	35	22	8
4	6DR 50/10-7*	7.50	10.0	7		98	95	82	73	48	32	10
5	6DR 50/12.5-8	9.30	12.5	8		121	117	103	92	67	46	18
6	6DR 50/15-10*	11.00	15.0	10		137	135	120	108	73	50	22
7	6DR 50/17.5-12	13.00	17.5	12		183	175	150	138	95	70	40
8	6DR 50/20.0-13	15.00	20.0	13		196	179	168	150	105	85	55
9	6DR 50/25.0-16	18.50	25.0	16		245	220	205	190	127	105	70

S.No.	Model	kW	HP	Stages	Pipe Size 2½" (65 mm)	Discharge (LPM)						
						185	375	425	550	650	750	800
1	6DR 50/7.5-4*	5.50	7.5	4	Head in Meters	57	49	47	38	28	13	5
2	6DR 50/10-5*	7.50	10.0	5		74	64	61	50	39	22	11
3	6DR 50/12.5-6	9.30	12.5	6		92	86	78	69	52	35	20
4	6DR 50/15-8*	11.00	15.0	8		115	103	98	81	63	38	24
5	6DR 50/20.0-10	15.00	20.0	10		155	143	128	118	87	50	30
6	6DR 50/25.0-12	18.50	25.0	12		185	172	150	140	105	70	38

V6 - Borewell Submersible Pumps [36 Feet (11 m) per stage]

Characteristics

- Low Power Consumption
- Compact Mechanical Design
- Protection Class - IP 68
- Re-windable water-cooled motor
- Works in low voltage also

Material of Construction

Part Name	Material
Pump Casing	Cast Iron
Pump Adaptor	Cast Iron
Motor Housing	SS 304
Rotor	Copper
Impeller/Diffuser	SS 304/ Cast Iron
Shaft	SS 410
Mechanical Seal	Ceramic Vs. Graphite

S.No.	Model	kW	HP	Stages	Pipe Size 2" (50 mm)	Discharge (LPM)							
						420	360	300	240	180	120	60	30
1	6DR 36/3.0-5	2.20	3.0	5	Head in Meters	-	16	24	36	42	50	56	58
2	6DR 36/3.0-8	2.20	3.0	8		-	-	-	30	50	70	90	94
3	6DR 36/3.0-10	2.20	3.0	10		-	-	-	20	34	60	86	100
4	6DR 36/5.0-5	3.70	5.0	5		18	29	37	45	49	53	54	55
5	6DR 36/5.0-6	3.70	5.0	6		14	32	42	50	56	62	68	70
6	6DR 36/5.0-8	3.70	5.0	8		-	18	40	58	68	80	90	94

* ISI Models

S.No.	Model	kW	HP	Stages	Pipe Size 2" (50 mm)	Discharge (LPM)							
						420	360	300	240	180	120	60	30
7	6DR 36/5.0-10	3.70	5.0	10	Head in Meters	-	-	36	54	72	90	108	115
8	6DR 36/5.0-12	3.70	5.0	12		-	-	-	44	74	104	134	140
9	6DR 36/5.0-15	3.70	5.0	15		-	-	-	15	50	88	130	148
10	6DR 36/6.0-6	4.50	6.0	6		24	37	49	57	62	65	67	69
11	6DR 36/6.0-8	4.50	6.0	8		3	27	50	66	78	85	89	92
12	6DR 36/7.5-8	5.50	7.5	8		46	60	70	80	88	92	96	99
13	6DR 36/7.5-10	5.50	7.5	10		22	54	72	84	92	102	112	116
14	6DR 36/7.5-12	5.50	7.5	12		-	27	58	86	102	122	135	140
15	6DR 36/7.5-15	5.50	7.5	15		-	-	48	82	108	136	162	172
16	6DR 36/7.5-18	5.50	7.5	18		-	-	-	70	110	156	200	210
17	6DR 36/7.5-20	5.50	7.5	20		-	-	-	80	122	174	224	235
18	6DR 36/7.5-24	5.50	7.5	24		-	-	-	-	80	142	210	238
19	6DR 36/10.0-10	7.50	10.0	10		56	74	88	100	110	115	120	123
20	6DR 36/10.0-12	7.50	10.0	12		25	64	84	102	112	122	134	140
21	6DR 36/10.0-15	7.50	10.0	15		-	34	74	108	128	152	168	175
22	6DR 36/10.0-18	7.50	10.0	18		-	-	56	98	130	162	195	208
23	6DR 36/10.0-20	7.50	10.0	20		-	-	64	108	142	180	215	230
24	6DR 36/10.0-24	7.50	10.0	24		-	-	-	90	148	208	265	280
25	6DR 36/15.0-15	11.00	15.0	15		85	118	132	152	165	174	182	185
26	6DR 36/15.0-20	11.00	15.0	20		44	108	140	168	186	205	222	233
27	6DR 36/15.0-24	11.00	15.0	24		-	54	118	172	205	244	270	280

V6 - Borewell Submersible Pumps [33 Feet (10 m) per stage]

Characteristics

- Low Power Consumption
- Compact Mechanical Design
- Protection Class - IP 68
- Re-windable water-cooled motor
- Works in low voltage also

Material of Construction

Part Name	Material
Pump Casing	Cast Iron
Pump Adaptor	Cast Iron
Motor Housing	SS 304
Rotor	Copper
Impeller/Diffuser	SS 304 / Cast Iron
Shaft	SS 410
Mechanical Seal	Ceramic Vs. Graphite

S.No.	Model	kW	HP	Stages	Pipe Size 2½"(65 mm)	Discharge (LPM)					
						660	600	510	420	360	240
1	6DM 33/3.0-3	2.20	3.0	3	Head in Meters	12	15	19	22	24	27
2	6DM 33/5.0-5	3.70	5.0	5		14	25	31	38	40	44
3	6DM 33/7.5-8	5.50	7.5	8		16	39	49	58	63	70
4	6DM 33/10-10	7.50	10.0	10		26	44	57	69	77	84
5	6DM 33/12.5-12	9.30	12.5	12		45	61	75	90	96	105
6	6DM 33/15-15	11.00	15.0	15		48	66	88	110	120	130

S.No.	Model	kW	HP	Stages	Pipe Size 2½"(65 mm)	Discharge (LPM)							
						720	600	550	500	450	400	350	275
1	6DM 33/5.0-4	3.70	5.0	4	Head in Meters	4	22	25	28	30	32	35	37
2	6DM 33/7.5-6	5.50	7.5	6		5	33	37	42	45	49	52	54
3	6DM 33/10-8	7.50	10.0	8		8	40	48	54	59	64	68	71
4	6DM 33/12.5-10	9.30	12.5	10		10	47	57	63	70	77	81	86
5	6DM 33/15-12	11.00	15.0	12		20	62	72	81	88	95	98	104



S.No.	Model	kW	HP	Stages	Pipe Size 3" (75 mm)	Discharge (LPM)							
						990	930	850	750	600	540	480	420
1	6DM 33/7.5-5	5.50	7.5	5	Head in Meters	10	14	20	27	36	39	41	44
2	6DM 33/12.5-8	9.30	12.5	8		12	20	29	40	56	60	64	68
3	6DM 33/15-10	11.00	15.0	10		14	26	39	54	72	76	81	87

S.No.	Model	kW	HP	Stages	Pipe Size 3" (75 mm)	Discharge (LPM)						
						1250	1000	950	900	810	750	500
1	6DM 33/7.5-4	5.50	7.5	4	Head in Meters	5	22	25	27	29	31	36
2	6DM 33/10-5	7.50	10.0	5		7	27	30	32	35	37	43

S.No.	Model	kW	HP	Stages	Pipe Size 3" (75 mm)	Discharge (LPM)							
						990	930	850	750	600	540	480	420
1	6DM 33/5-0.3	3.70	5.0	3	Head in Meters	3	7	11	15	20	22	23	25
2	6DM 33/10-6	7.50	10.0	6		11	17	24	33	42	46	50	53

Save Water



Save Earth

We are a group of companies with social responsibilities

Contact:

Dharani Pumps & Motors

S.F. No. 328, Kalapatti Road

Coimbatore - 641 048, Tamil Nadu, India

Phone : +91 422 6464 034, 6464 036

E-mail : enquiry@peindia.net

Website : www.dharanipumps.com

Toll Free No : 1800 425 50005

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