

V4 Submersible Pumpset

Teraflo brand makes highly efficient best Quality water filled submersible pumpset.



SALIENT FEATURES

1. International NEMA spline coupling.
2. Thrust Bearing used with resins impregnated carbon v/s SS segments to ensure thrust load.
3. Impeller & Diffusers are used with glass filled engineering polymer with stainless steel wear rings.
4. Specially design for low voltage application.
5. Rotors are dynamically balance to minimise noise & vibration.
6. Pump & motors are in fully stainless steel design.
7. Rotor are painted with special epoxy paint for long life.
8. All sleeves are hard chrome plated to ensure the long life in sandy condition.
9. All the pumps are supply with guide bush at suction end along with sand protection.
10. NRV provided for reduce the back flow.

APPLICATION

1. Domestic water supply.
2. Industrial.
3. Agriculture.
4. Solar pumping system.
5. Fountains, Garden.

MATERIAL OF CONSTRUCTION

MOTOR

Motor Shaft	:	Stainless steel AISI 410 / AISI 431.
Casting Part	:	Cast Iron FG 200 grade.
Thrust Bearing	:	Carbon v/s stainless steel
Stamping	:	Silicon steel.
Cooper	:	EC Grade 99.9%

PUMP

Impeller & Diffuser	:	Glass Filled engineered polymer.
Pump Shaft	:	Fully Stainless Steel AISI 410
Suction Housing	:	Cast Iron FG 200 grade with leaded bronze guide bush.
NRV	:	Cast Iron FG 200
Sleeve	:	AISI 410 with hard chrome plating

TECHANICAL SPECIFICATION

Head Range	:	4 to 302 meter
Discharge Range	:	10 to 450 LPM
Motor Rating	:	0.5HP to 5.0HP in Single Phase - 230V, 50Hz, AC Supply 0.5HP to 7.5HP in Three Phase - 380V / 415V, 50Hz, AC Supply
Voltage Range	:	150V to 250V (1 Phase) 200V to 440V (3 Phase)

SELECTION CHART FOR TERAFL0 (100MM) 4" SUBMERSIBLE PUMPSETS

30 LPM

OUTLET SIZE : 32 MM 2900 RPM

PUMP MODEL	STAGE	MOTOR RATING		DISCHARGE					
		H.P	kW	M³/hr	0.6	1.2	1.8	2.4	3.0
				LPM	10	20	30	40	50
TFR4/3/7	7	0.5	0.37	TOTAL HEAD IN METERS	50	45	37	27	14
TFR4/3/12	12	0.75	0.55		86	77	64	46	24
TFR4/3/14	14	1.0	0.75		101	90	74	53	28
TFR4/3/15	15	1.0	0.75		108	96	80	57	30
TFR4/3/20	20	1.5	1.1		144	128	106	76	40
TFR4/3/24	24	1.5	1.1		173	154	127	91	48
TFR4/3/26	26	1.5	1.1		187	166	138	99	52
TFR4/3/28	28	2.0	1.5		202	179	148	106	56
TFR4/3/30	30	2.0	1.5		216	192	159	114	60
TFR4/3/38	38	3.0	2.2		274	243	201	144	76
TFR4/3/42	42	3.0	2.2		302	269	223	160	84

35 LPM

OUTLET SIZE : 32 MM 2900 RPM

PUMP MODEL	STAGE	MOTOR RATING		DISCHARGE					
		H.P	kW	M³/hr	0.9	1.5	2.1	2.7	3.3
				LPM	15	25	35	45	55
TFR4/35/5	5	0.5	0.37	TOTAL HEAD IN METERS	38	33	27	21	13
TFR4/35/10	10	0.75	0.55		75	67	54	41	25
TFR4/35/12	12	1.0	0.75		90	80	65	49	30
TFR4/35/14	14	1.5	1.1		105	93	76	57	35
TFR4/35/17	17	1.5	1.1		128	113	92	70	43
TFR4/35/20	20	2.0	1.5		150	133	108	82	50
TFR4/35/24	24	2.0	1.5		180	160	130	98	60
TFR4/35/26	26	2.0	1.5		195	173	140	107	65
TFR4/35/28	28	3.0	2.2		210	186	151	115	70
TFR4/35/30	30	3.0	2.2		225	200	162	123	75
TFR4/35/32	32	3.0	2.2		240	213	173	131	80

50 LPM

OUTLET SIZE : 32 MM 2900 RPM

PUMP MODEL	STAGE	MOTOR RATING		DISCHARGE						
		H.P	kW	M³/hr	0.6	1.8	2.4	3.0	3.6	4.2
				LPM	10	30	40	50	60	70
TFR4/5/6	6	0.50	0.37	TOTAL HEAD IN METERS	43	38	35	32	28	24
TFR4/5/8	8	0.75	0.55		57	50	47	42	38	32
TFR4/5/10	10	1.0	0.75		71	63	59	53	47	40
TFR4/5/15	15	1.5	1.1		107	95	88	80	71	60
TFR4/5/20	20	2.0	1.5		142	126	117	106	94	80
TFR4/5/25	25	3.0	2.2		178	158	146	133	118	100

SELECTION CHART FOR TERAFFLO (100MM) 4" SUBMERSIBLE PUMPSETS

60 LPM

OUTLET SIZE : 32 MM 2900 RPM

PUMP MODEL	STAGE	MOTOR RATING		DISCHARGE							
		H.P	kW	M ³ /hr	1.8	2.4	3.0	3.6	4.2	4.8	5.4
				LPM	30	40	50	60	70	80	90
TFR4/6/6	6	0.75	0.55	TOTAL HEAD IN METERS	44	42	38	34	28	23	16
TFR4/6/8	8	1.0	0.75		59	56	51	45	38	30	22
TFR4/6/10	10	1.5	1.1		74	70	64	56	47	38	27
TFR4/6/12	12	1.5	1.1		89	84	77	67	56	46	32
TFR4/6/15	15	2.0	1.5		111	105	96	84	71	57	41
TFR4/6/18	18	3.0	2.2		133	126	115	101	85	68	49
TFR4/6/20	20	3.0	2.2		148	140	128	112	94	76	54
TFR4/6/22	22	3.0	2.2		163	154	141	123	103	84	59
TFR4/6/24	24	3.0	2.2		178	168	154	134	113	91	65

70 LPM

OUTLET SIZE : 38 MM 2900 RPM

PUMP MODEL	STAGE	MOTOR RATING		DISCHARGE							
		H.P	kW	M ³ /hr	2.4	3.0	3.6	4.2	4.8	5.4	6.0
				LPM	40	50	60	70	80	90	100
TFR4/7/5	5	0.75	0.55	TOTAL HEAD IN METERS	34	31	29	26	23	19	16
TFR4/7/6	6	1.0	0.75		40	38	35	31	27	23	19
TFR4/7/8	8	1.5	1.1		54	50	46	41	36	30	25
TFR4/7/11	11	1.5	1.1		74	69	63	57	50	42	34
TFR4/7/12	12	2.0	1.5		80	75	69	62	54	46	37
TFR4/7/15	15	2.0	1.5		101	94	86	77	68	57	47
TFR4/7/17	17	3.0	2.2		114	106	98	88	77	65	53
TFR4/7/19	19	3.0	2.2		127	119	109	98	86	72	59
TFR4/7/23	23	3.0	2.2		154	144	132	118	104	87	71
TFR4/7/26	26	4.0	3.0		174	163	150	134	117	99	81
TFR4/7/28	28	4.0	3.0		188	175	161	144	126	106	87
TFR4/7/30	30	5.0	3.7		201	188	173	155	135	114	93
TFR4/7/32	32	5.0	3.7		214	200	184	165	144	122	99
TFR4/7/36	36	5.0	3.7		241	225	207	185	162	137	112

120 LPM

OUTLET SIZE : 38 MM 2900 RPM

PUMP MODEL	STAGE	MOTOR RATING		DISCHARGE							
		H.P	kW	M ³ /hr	3.6	4.8	6.0	7.2	8.4	9.6	10.8
				LPM	60	80	100	120	140	160	180
TFR4/12/5	5	1.0	0.75	TOTAL HEAD IN METERS	35	33	29	24	18	12	5
TFR4/12/7	7	1.5	1.1		49	46	40	33	25	16	7
TFR4/12/10	10	2.0	1.5		70	65	57	47	36	23	10
TFR4/12/12	12	3.0	2.2		84	78	68	56	43	28	12
TFR4/12/15	15	3.0	2.2		105	98	86	71	54	35	15
TFR4/12/19	19	4.0	3.0		133	124	108	89	68	44	19
TFR4/12/22	22	5.0	3.7		154	143	125	103	79	51	22
TFR4/12/25	25	5.0	3.7		175	163	143	118	90	58	25

SELECTION CHART FOR TERAFL0 (100MM) 4" SUBMERSIBLE PUMPSETS

170 LPM

OUTLET SIZE : 50 MM 2900 RPM

PUMP MODEL	STAGE	MOTOR RATING		DISCHARGE							
		H.P	kW	M ³ /hr	6.6	7.8	9.0	10.2	11.4	12.6	13.8
				LPM	110	130	150	170	190	210	230
TFR4/17/6	6	1.5	1.1	TOTAL HEAD IN METERS	30	28	25	22	18	14	11
TFR4/17/8	8	2.0	1.5		40	37	33	29	24	19	15
TFR4/17/10	10	3.0	2.2		50	46	41	36	30	24	19
TFR4/17/12	12	3.0	2.2		60	55	49	43	36	29	23
TFR4/17/16	16	4.0	3.0		80	74	66	58	48	38	30
TFR4/17/20	20	5.0	3.7		100	92	82	72	60	48	38

300 LPM

OUTLET SIZE : 65 MM 2900 RPM

PUMP MODEL	STAGE	MOTOR RATING		DISCHARGE							
		H.P	kW	M ³ /hr	9.0	12.0	15.0	18.0	21.0	24.0	27
				LPM	150	200	250	300	350	400	450
TFM4/30/5	5	2.0	1.5	TOTAL HEAD IN METERS	23	20	18	15	12	8	4
TFM4/30/7	7	3.0	2.2		32	28	25	21	16	11	6
TFM4/30/8	8	3.0	2.2		36	32	29	24	18	12	7
TFM4/30/9	9	3.0	2.2		41	36	32	27	21	14	8
TFM4/30/11	11	4.0	3.0		50	45	40	32	25	17	9
TFM4/30/13	13	5.0	3.7		59	53	47	38	30	20	11
TFM4/30/14	14	5.0	3.7		63	57	50	41	32	22	12