



C.R.I. PUMPS

Pumping trust. Worldwide.



Horizontal Openwell Submersible Pumpsets

Plano / CSS / CSS-J / Selfy+ Series

C.R.I. Horizontal Openwell Submersible Pumpsets are ideally suitable for Openwell / Tanks where a wide fluctuation of water level occur. The pumpset works underwater and rest at the bottom of the well or Tank. Hence suction and priming problem will not arise. The optimal design of impellers and diffusers enables the best possible hydraulic efficiency. Motor sealing is made by polymers, 'O' rings, oil seals and sand guard to avoid ingress of well water/sand into the motor. Pressure equalizing rubber diaphragm is provided to guard the motor from pressure and volume variation of water inside the motor. Plano & CSS Series must be filled with clear, cold, drinking water as detailed in our operator's manual.

Selfy + Regenerative open well submersible pumpsets are uniquely designed for silent operation. It works under the water and operates direct suction through corporation water supply. To avoid ingress of water inside the motor, sealing is made of Mechanical seal and Oil Seal. Cast Iron Motor Body construction ensures Rigidity and Higher Cooling effect.



SALIENT FEATURES

- High operating efficiency • Motor is designed with higher cooling effect to ensure the life • Easy to dismantle and repair • Available in SS 304, CI and Noryl impellers • Available with 3 metre and 10 metre cable length

APPLICATIONS : • Domestic • Multi storey buildings • Irrigation • Gardens • Rural water supply

SPECIFICATIONS		Plano / CSS / Selfy + Series
Power range	0.37 kW - 2.2 kW (0.5HP - 3HP)	
Speed	2880 RPM	
Version	Single phase 220 - 240V, Three phase 380 - 415V, 50Hz AC Supply	
Maximum total head	Upto 56.5 metre	
Maximum flow rate	Upto 17 lps (61.2 m³/hr)	
Nominal outlet size	25, 40, 50 mm	
Degree of protection	IP 58	
Direction of rotation	1Ph - Clockwise from driving end; 3Ph - Electrically Reversible	
Type of duty	S1 (Continuous)	
Method of starting	Single Phase - CSR / CSCR; Three Phase - DOL	
Maximum starts per hour	10 times	

PERFORMANCE CHART

CSS SERIES	2880 RPM, At Rated Voltage – Single Phase – 220 - 240 Volts;
HORIZONTAL OPENWELL SUBMERSIBLE PUMPSETS	Three Phase – 380 - 415 Volts, 50Hz, A.C. Supply.

Model	kW	HP	Outlet Size in mm	m³/hr lps	0	1.8	3.6	5.4	7.2	9.0	10.8	12.6	14.4	Star Rating
					0	0.5	1.0	1.5	2.0	2.5	3.0	3.5	4.0	
CSS-1*	0.37	0.5	25	Head in Metres	25	23	21	20	18	16	7			5
CSS-3S*	0.55	0.75	25		25	24	23	22	21	18	17	11		5
CSS-3*	0.75	1	25		26	25	25	23	22	20	18	15	9	5
CSS-3H*	0.75	1	25		33	32	30	28	25	20	14			5
CSS-24HH*	0.75	1	25		33	31	29	27	26	24	22			
CSS-25HH	1.1	1.5	25		40	37	34	30	25					
CSS-26HH	1.1	1.5	25		46	44	41	38	34	25				
CSS-27HH	1.1	1.5	40		46	44	41	38	34	25				
CSS-28HH	1.1	1.5	40		40	37	34	30	25					
CSS-4S	1.5	2	32		57	55	54	51	45	35	23	9		

Model	kW	HP	Outlet Size in mm	m³/hr lps	0	1.8	3.6	5.4	7.2	9	10.8	12.6	14.4	16.2	18	19.8	21.6	23.4	25.2	27	28.8	30.6	32.4	34.2	36	Star Rating
					0	0.5	1	1.5	2	2.5	3	3.5	4	4.5	5	5.5	6	6.5	7	7.5	8	8.5	9	9.5	10	
CSS-9*	1.1	1.5	50	Head in Metres	17	17	17	16	16	16	16	15	15	15	14	13	12	11	10	9	8					
CSS-14*	1.5	2	50		22	22	22	22	22	21	21	20	20	19	19	18	17	17	15	14	13	12	11	9	7	5
CSS-14E*	1.5	2	50		22			22	22	22	22	21	21	21	20	20	19	18	17	16	15	14	13	12	10	5
CSS-16HH*	1.5	2	40		33	33	33	32	31	31	30	28	27	26	24											5
CSS-18*	2.2	3	50		34	34	34	34	33	32	32	31	30	29	27	26	24	23	22							5

Model	kW	HP	Outlet Size in mm	m³/hr lps	0	18	21.6	21.6	28.8	32.4	36	39.6	43.2	46.8	50.4	54	57.6	61.2
					0	5	6	7	8	9	10	11	12	13	14	15	16	17
CSS-36J	1.5	2	100	Head in Metres	14	13	13	13	12	12	11	11	10	9	9	8	6	5
CSS-37J	1.5	2	80		14	14	14	13	13	12	12	11	11	10	9	8	7	6

* Marked pumpsets are having ISI licence CSS 26 & CSS 3H are having SS Impeller HH - High head

PERFORMANCE CHART

PLANO SERIES

2880 RPM At Rated Voltage - Single Phase 220 - 240v, 50Hz, AC Supply

HORIZONTAL OPENWELL SUBMERSIBLE PUMPSETS

Model	kW	HP	Suction x Delivery in mm	m ³ /hr lps	0.0	1	1.8	2.7	3.6	4.5	4.7	5.4	5.6	6.5	7.2	7.4	7.6	7.7	8.6	9.4	10.1	10.4	Star Rating
					0.0	0.3	0.5	0.8	1.0	1.3	1.3	1.5	1.5	1.8	2.0	2.1	2.1	2.2	2.4	2.6	2.8	2.9	
Plano 50	0.37	0.5	25x25	Head in Metres	17		17	16	15	15	14	14	13	12	11	10	9	9	8				
Plano 52	0.37	0.5	25x25		21		20	20	19	18	18	17	16	15	14	14	14	13	12	9	9	8	5
Plano 104	0.75	1	25x25		33	32	30		28	24	23	22	22	21	20	19	19	18	17	15	13		5
Plano 102	0.75	1	32x25		35	33	31	30	28	27	27	26	25	24	24	23	22	21	18	15	14		5
Plano 103	0.75	1	32x25		35	33	31	30	28	27	27	26	25	24	24	23	22	21	18	15	14		
Plano 150	1.1	1.5	32x25		42		39	38	37	36	36	34	34	31	29	29	28	28	25	22	16		

104 & 103 are available with 10 metre cable

SELFY + SERIES

1440 RPM At Rated Voltage - Single Phase 220 - 240v, 50Hz, AC Supply

HORIZONTAL OPENWELL SUBMERSIBLE PUMPSETS

Model	kW	HP	Suction x Delivery in mm	Speed	DISCHARGE											
					m ³ /hr	0	0.61	0.8	1.01	1.4	1.8	2.2	2.6	3	3.38	3.82
					lps	0	0.17	0.22	0.28	0.39	0.5	0.61	0.72	0.83	0.94	1.06
SELFY 50+	0.37	0.5	25x25	1440	Head in Metres	27	24	23	21	19	16	13	10			
SELFY 100+	0.75	1	25x25	1440		50	46	45	42	37	32	28	23	17	13	9

MATERIAL OF CONSTRUCTION - PUMPSET

Part Name	Material
Motor Body	SS 304
Impeller	Cast Iron / Noryl / SS 304 / High Tensile Brass
Casing	Cast Iron
Rear Cover	Cast Iron
Shaft	SS 410
Front Bracket	Cast Iron
Shaft Seal	Nitrile Butyl Rubber
Thrust Assembly	Leaded Bronze & Compostos / Ferobestos SS 410 & Graphite Carbon
Diaphragm	High Nitrile Rubber

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