



**C.R.I. PUMPS**

Pumping trust. Worldwide.



## Horizontal Openwell Submersible Pumpsets

### 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 .



CSS Series



CSS-4S Series



selfy+

### 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**

CSS / CSS-J / 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 Ips (61.2 m <sup>3</sup> /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

HORIZONTAL OPENWELL SUBMERSIBLE PUMPSETS

2880 RPM, At Rated Voltage – Single Phase – 220 - 240 Volts;  
Three Phase – 380 - 415 Volts, 50Hz, A.C. Supply.

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

Model	kW	HP	Outlet Size in mm	m <sup>3</sup> /hr Ips	DISCHARGE																		Star Rating				
					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	
CSS-9*	1.1	1.5	50	Head in Metres	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	5	
CSS-14*	1.5	2	50		17	17	17	16	16	16	16	15	15	15	14	13	12	11	10	9	8						
CSS-14E*	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-16HH*	1.5	2	40		22			22	22	22	22	21	21	21	20	20	19	18	17	16	15	14	13	12	10	5	
CSS-18*	2.2	3	50		33	33	33	32	31	31	30	28	27	26	24												

Model	kW	HP	Outlet Size in mm	m <sup>3</sup> /hr Ips	DISCHARGE														Star Rating						
					0	18	21.6	21.6	28.8	32.4	36	39.6	43.2	46.8	50.4	54	57.6	61.2							
CSS-36J	1.5	2	100	Head in Metres	0	5	6	7	8	9	10	11	12	13	14	15	16	17							
CSS-37J	1.5	2	80		14	13	13	13	12	12	11	11	10	9	9	8	6	5							

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

# PERFORMANCE CHART

## 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 <sup>3</sup> /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
					Head in Metres	27	24	23	21	19	16	13	10			
SELFY 50+	0.37	0.5	25x25	1440												
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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In view of continuous developments, the information / performance / specifications / illustrations mentioned in this catalogue are subject to change without notice. A&R / Residential Flyer / June '22