



- APPLICATIONS
- Domestic ● Multi storey buildings
 - Irrigation ● Gardens
 - Rural water supply

Horizontal Openwell SUBMERSIBLE Pumpsets - Plano / CSS & LRA 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. **LRA Series** comes with pre-filled liquid. Hence, filling is not required.

SPECIFICATIONS

Plano / CSS / LRA 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 15 lps (54 m³/h)
Nominal outlet size	25, 40, 50 & 80 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

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

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	m³/hr lps	0	1.8	3.6	5.4	7.2	9.0	10.8	12.6	14.4
					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	24.6	22.5	20.9	19.8	18.4	16.2	6.8		
CSS-3S*#	0.55	0.75	25		24.7	24.2	23.3	22.0	20.6	18.4	17.0	11.1	
CSS-3*#	0.75	1	25		25.7	25.3	24.5	23.3	22.0	20.2	18.0	15.3	9.0
CSS-3H*#	0.75	1	25		33.0	31.8	30.2	27.8	24.6	20.4	14.0		
CSS-24HH*#	0.75	1	25		33.0	30.8	29.0	27.0	25.9	24.2	21.5		
CSS-26HH	1.1	1.5	25		46.0	44.0	41.0	37.6	33.6	25.3			
CSS-27HH	1.1	1.5	40		46.0	44.0	41.0	37.6	33.6	25.3			

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
					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-7*#	1.1	1.5	40	Head in Metres	22.2	22.0	21.9	21.7	21.3	20.8	20.2	19.7	19.0	18.0	15.7	9.8									
CSS-9*#	1.1	1.5	50		16.7	16.5	16.5	16.3	16.1	15.9	15.6	15.3	15.0	14.6	14.0	13.2	12.2	11.0	10.0	8.8	7.5				
CSS-14*#	1.5	2	50		22.3	22.2	22.0	21.8	21.6	21.2	20.8	20.4	19.8	19.4	18.9	18.2	17.4	16.5	15.4	14.3	13.2	12.0	10.5	8.9	7.0
CSS-14E*#	1.5	5	50		22.2			22.0	21.9	21.7	21.5	21.3	21.0	20.8	20.2	19.5	18.8	18.0	17.2	16.2	15.2	14.0	13.0	11.8	9.8
CSS-16(HH)*#	1.5	2	40		33.2	33.0	32.6	32.0	31.3	30.5	29.5	28.4	27.2	25.8	23.8										
CSS-18*#	2.2	3	50		34.3	34.0	33.9	33.5	32.9	32.3	31.6	30.8	29.9	28.6	27.2	25.8	24.3	23.2	21.6						

Model	kW	HP	Outlet Size in mm	m³/hr lps	0	7.2	14.4	21.6	28.8	32.4	36	39.6	43.2	46.8	50.4	54
					0	2	4	6	8	9	10	11	12	13	14	15
CSS-23	1.5	2	80	Head in Metres	15.5	15	14.5	13.5	12	11	10	9	8	7	5.5	4.5

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
					0	0.5	1	1.5	2	2.5	3	3.5
CSS-4S	1.5	2	80	Head in Metres	56.5	55	54	51	44.5	35	23	9

* Marked pumpsets are having ISI licence # Marked pumpsets are having BEE star label CSS 26 & CSS 3H are having SS Impeller



PERFORMANCE CHART

LRA SERIES

HORIZONTAL OPEWELL
SUBMERSIBLE PUMPSETS

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

Model	kW	HP	Outlet Size in mm	m ³ /hr lps	0	1.8	3.6	5.4	6.48	7.2	9	10	10.8	12.6	13.7	14.4
					0	0.5	1	1.5	1.8	2	2.5	2.8	3	3.5	3.8	4
LRA-9/0.5M	0.37	0.5	25	Head in Metres	22.5	21.5	20.5	19	18	17.5	15	13.5	11.5			
LRA-12/1M*#	0.75	1	25		24	23.8	23.5	22.5	22	21.5	20.8	19.5	19	17.5	16	15
LRA-10/1M	0.75	1	25		35	32.5	32	31.8	31.5	31	30	28	27	24.5		

PLANO SERIES

HORIZONTAL OPENWELL
SUBMERSIBLE PUMPSETS

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

Model	kW	HP	Outlet size in mm	m ³ /hr lps	0	3.6	4.5	4.68	5.4	5.55	6.48	7.2	7.4	7.56	7.74	8.64	9.36	10.1	10.4
					0	1	1.25	1.3	1.5	1.54	1.82	2.0	2.05	2.1	2.15	2.4	2.6	2.8	2.9
Plano 50 / 51	0.37	0.5	25 x 25	Head in Metres	17	15		14	13.5	13	12	11	10	9	8.5	8			
Plano 52 /53*	0.37	0.5	25 x 25		21	18			17	16	15	14	13.7	13.5	13	12	9	8.5	8
Plano 100 / 101	0.75	1	25 x 25		29	28	24	23	22	21.5	21	20	19	18.5	18	17	15	13	
Plano 102 / 103	0.75	1	32 x 25		33	28			26	25	24	23.5	23	22	21	18	15	14	

101 & 103 are available with 10 metre cable

PERFORMANCE CHART

MATERIAL OF CONSTRUCTION - PUMPSET

Part Name	Material
Motor Body	SS 304
Impeller	Cast Iron / Noryl / SS 304
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 & Teflon
Diaphragm	High Nitrile Rubber

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