



C.R.I. PUMPS

Pumping trust. Worldwide.



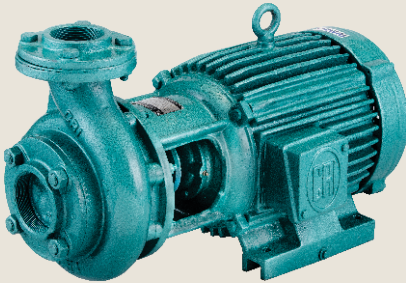
AGRICULTURAL PUMPS





Centrifugal Monoblock Pumpsets JUMBO Series

C.R.I. Jumbo Centrifugal Monoblock Pumpsets are powered by a totally enclosed fan cooled AC induction two pole and four pole motor, suitable for continuous duty. Motor stator is made of low watt loss silicon steel laminations assembled under pressure and rigidly locked in the frame. The windings are of high grade enameled copper wire offer excellent conductance. Construction of motor frame and usage of quality materials result in high performance and low temperature raise, thereby increasing the life cycle of the motor.



SALIENT FEATURES

- Robust construction ensures longer life
- 3D Heat Transfer technology ensures low temperature rise
- CFD based pump design ensures best hydraulic efficiency
- Dynamically balanced rotating parts to ensure minimum vibration & longer life
- High operating efficiency resulting in lower power consumption
- Accurate alignment of bearing ensures minimum starting friction and reduced starting load
- Special grade grease increases the life of the bearing
- Specially designed for wide voltage operation
- Good suction lift characteristics
- Special voltage design also available



APPLICATION

- Agriculture & Irrigation
- Farms
- Gardens
- Industrial & Mining
- Sprinkler & Drip irrigation



SPECIFICATIONS

	CTG / CTT Model	CFG Model
Power range	2.2kW - 15kW (3HP - 20HP)	2.2kW - 7.5kW (3HP - 10HP)
Speed	2880 RPM	1440 RPM
Version	Three phase 350/380/415V; 50Hz, AC supply	
Maximum total head	94 Metre;	19.5 Metre
Maximum flow rate	23 lps (82.8m³/hr)	62 lps (223.2m³/hr)
Degree of protection	IP 44	
Direction of rotation	Clockwise from driving end	
Class of insulation	B & F Class	
Type of duty	S1 (Continuous)	
Maximum Suction lift	7 metre	
Nominal pump set size in mm	50 x 40, 65 X 50, 80 X 65, 100 X 100 and 150 x 150 mm	
Suction x Delivery		

3D HT
Technology
for Longer Life

CFD
Design

Wide Voltage
Operation

PERFORMANCE CHART

CENTRIFUGAL MONOBLOCK PUMPSETS - JUMBO Series

2880 RPM, At Rated Voltage – Three Phase 415 Volts, 50Hz, A.C. Supply

Model	kW	HP	Inlet Size in mm	Outlet Size in mm	m ³ /hr lps	0	7.2	9.0	10.8	12.6	14.4	16.2	18.0	19.8	21.6	23.4	25.2	27.0	28.8
						0	2.0	2.5	3.0	3.5	4.0	4.5	5.0	5.5	6.0	6.5	7.0	7.5	8.0
CTG-21.5/3D	2.2	3	65	50	Head in Metres	30	29.5	29	29	28.5	28.5	28	28	27.5	27	26.5	26	22	14
CTG-14/5T	3.7	5	50	40		49	48	47	45	42	40	37.5	35	33	29.5	25	18		

Model	kW	HP	Inlet Size in mm	Outlet Size in mm	m ³ /hr lps	0	18.0	21.6	25.2	27.0	28.8	30.6	32.4	34.2	36.0	37.8	39.6	43.2	46.8	50.4	54.0	55.8
						0	5.0	6.0	7.0	7.5	8.0	8.5	9.0	9.5	10.0	10.5	11.0	12.0	13.0	14.0	15.0	15.5
CTG-29/5D	3.7	5	65	50	Head in Metres	40			37	36.5	35	34.5	33	32	31	29	28	24	19			
CTG-30/5D	3.7	5	65	50		45.5			44	43.5	43	42.5	42	41.5	41	40.5	40.5	37	35.6	34.2		
CTG-34/5D	3.7	5	65	50		31						30.5	30	29.5	29	28.5	28	27	25	24		
CTG-36/7.5D	5.5	7.5	65	50		54.5					53	52.5	52	51.6	51	50.5	50	48.5	46.5	45		
CTG-38/10D	7.5	10	65	50		56											53	52	51	50	49	48
CTG-40/10D	7.5	10	65	50		62											59	58	57	56	54	53
CTG-43/10D	7.5	10	65	50		73								69	68	67	66	65	62	56		
CTG-48/12.5D	9.3	12.5	65	50		62.5							62	61.5	61	60.5	60	59	58	57	50	40
CTG-36/15D	11	15	65	50		75						73.5	73	72.5	72	71	70.5	69	68	65	46	
CTG-39/20D	15	20	65	50		94			90	89	88	87	86	85	84	83	82	81	68	51		

Model	kW	HP	Inlet Size in mm	Outlet Size in mm	m ³ /hr lps	0	30.6	32.4	34.2	36.0	37.8	39.6	43.2	46.8	50.4	54.0	57.6	61.2	64.8	68.4	72.0	75.6	79.2	82.8
						0	8.5	9.0	9.5	10.0	10.5	11.0	12.0	13.0	14.0	15.0	16.0	17.0	18.0	19.0	20.0	21.0	22.0	23.0
CTG-43/3D	2.2	3	80	65	Head in Metres	23				22.5	22	21.5	21	20	19	17	16	15						
CTG-39/5D	3.7	5	80	65		27		26.5	26	26	25.5	25	24.5	24	23	22.5	21	20	18	16	13			
CTG-47/7.5D	5.5	7.5	80	65		35.5		35	34.5	34.2	34	33.5	33	32.5	32	31.5	30	28	27	24	21	18		
CTG-47/10D	7.5	10	80	65		45					44	43.5	43.5	43	42.5	42.5	42	41.5	41	40.5	40	38	37	35
CTG-61/12.5D	9.3	12.5	80	65		53			52	51.5	51	50.5	50	49.5	49	48.5	48	47.5	47	45	44	42	25	
CTG-65/15D	11	15	80	65		55					53	52.5	52	51.5	51	50.5	50	49.5	49	48.5	48	47	45	15
CTG-47/20D	15	20	80	65		74.5				74	73.5	73	72.5	72	71.5	71	70.5	70	69	56	27			

PERFORMANCE CHART

CENTRIFUGAL MONOBLOCK PUMPSETS - JUMBO Series

1440 RPM, At Rated Voltage – Three Phase 415 Volts, 50Hz, A.C. Supply

Model	kW	HP	Inlet Size in mm	Outlet Size in mm	m³/hr	0	48.6	52.2	55.8	59.4	63.0	66.6	70.2	73.8	77.4	81.0	84.6	88.2	102.6	109.8
					lps	0	13.5	14.5	15.5	16.5	17.5	18.5	19.5	20.5	21.5	22.5	23.5	24.5	28.5	30.5
CFG-52/3D	2.2	3	100	100	Head in Metres	12	11.5	11.3	11.2	11.1	11	10.9	10.7	10.5	10.3	10	9.8	9.5	8.5	
CFG-79/5D	3.7	5	100	100		15		14	13.8	13.5	13.3	13	12.7	12.4	12	11.8	11.5	11	9	8

Model	kW	HP	Inlet Size in mm	Outlet Size in mm	m³/hr	0	34.2	37.8	41.4	45	48.5	52.2	55.8	59.2	63	66.6	70.2
					lps	0	9.5	10.5	11.5	12.5	13.5	14.5	15.5	16.5	17.5	18.5	19.5
CFG-50/3D	2.2	3	80	65	Head in Metres	14.5	14	13.8	13.5	13.2	13	12.8	12.5	12	11.5	11	
CFG-54/5D	3.7	5	80	65		19.5	19.2	19	18.5	18.3	18	17.5	17	16.5	16	15.5	15

Model	kW	HP	Inlet Size in mm	Outlet Size in mm	m³/hr	0	72	100.8	108	115.2	122.4	129.6	136.8	144	158.4	165.6	172.8	176.4
					lps	0	20	28	30	32	34	36	38	40	44	46	48	49
CFG-169/7.5D	5.5	7.5	150	150	Head in Metres	11.4	11.2	11.1	11	10.9	10.7	10.6	10.4	10.2	10	9.8	8	7

Model	kW	HP	Inlet Size in mm	Outlet Size in mm	m³/hr	0	72.0	100.8	115.2	129.6	144.0	158.4	172.8	187.2	201.6	208.8	216.0	223.2
					lps	0	20	28	32	36	40	44	48	52	56	58	60	62
CFG-172/10D	7.5	10	150	150	Head in Metres	14.8	14.6	14.4	14.2	14	13.8	13.6	13.5	12.6	12.2	12	11.6	11.2

PERFORMANCE CHART

CENTRIFUGAL MONOBLOCK PUMPSETS - JUMBO Series

2880 RPM, At Rated Voltage – Three Phase 415 Volts, 50Hz, A.C. Supply

Model	kW	HP	Inlet Size in mm	Outlet Size in mm	m ³ /hr	0	12.6	18.0	19.8	21.6	23.4	25.2	27.0	28.8	30.6	32.4	34.2	36.0
					lps	0	3.5	5.0	5.5	6.0	6.5	7.0	7.5	8.0	8.5	9.0	9.5	10.0
CTT-21/5N	3.7	5	65	50	Head in Metres	40	37	34.5	33.5	32	31	30	28	27	26	24	20	9

Model	kW	HP	Inlet Size in mm	Outlet Size in mm	m ³ /hr	0	12.6	18.0	19.8	21.6	23.4	25.2	27.0	28.8	30.6	32.4	34.2
					lps	0	3.5	5.0	5.5	6.0	6.5	7.0	7.5	8.0	8.5	9.0	9.5
CTG-55/5-2#	3.7	5	80	65	Head in Metres	23	23	22	21.5	21	20.5	20	19.5	18	17	15.5	14

Model	kW	HP	Inlet Size in mm	Outlet Size in mm	m ³ /hr	0	7.1	17.5	21.1	26.7	28.4	29.8	30.1	30.5	31.3	31.7	32
					lps	0	2	4.9	5.9	7.4	7.9	8.3	8.4	8.5	8.7	8.8	8.9
CTG-18#	3.7	5	65	50	Head in Metres	40	39	37	35	32	30	28	26	23	18	16	13

- Special Voltage Design Model.

PERFORMANCE CHART

CENTRIFUGAL MONOBLOCK PUMPSETS - JUMBO Series

2880 RPM, At Rated Voltage – Three Phase 415 Volts, 50Hz, A.C. Supply

Star Rating Models



Model	kW	HP	Inlet Size in mm	Outlet Size in mm	m³/hr	0	30.6	32.4	34.2	36	37.8	39.6	43.2	46.8	50.4	Star Rating
					lps	0	8.5	9	9.5	10	10.5	11	12	13	14	
5H1	3.7	5	65	50	Head in Metres	31	30.5	30	29.5	29	28.5	28	27	25	24	2 star

Model	kW	HP	Inlet Size in mm	Outlet Size in mm	m³/hr	0	21.8	28.8	36.4	46.4	53.4	60.5	64.3	64.6	Star Rating
					lps	0	6.1	8	10.1	12.9	14.8	16.8	17.9	18	
7.5H3-N1	5.5	7.5	60	50	Head in Metres	48	46.6	43.9	39.3	34.5	29.5	24.5	19.5	14.5	2 star

Model	kW	HP	Inlet Size in mm	Outlet Size in mm	m³/hr	0	10.8	18.9	24.7	31	35.7	40	43.2	46.3	48.9	Star Rating
					lps	0	3	5.3	6.9	8.6	9.9	11.1	12	12.9	13.6	
5H1-N2	3.7	5	100	80	Head in Metres	37	36.2	34.3	32.2	28.7	26	23.1	20.3	17.4	14.6	2 star

Model	kW	HP	Inlet Size in mm	Outlet Size in mm	m³/hr	0	21.8	28.8	36.4	46.4	53.4	60.5	64.3	64.6	Star Rating
					lps	0	6.1	8	10.1	12.9	14.8	16.8	17.9	18	
7.5H3-N2	5.5	7.5	100	80	Head in Metres	38	36.8	36	34.9	33.4	31.4	28.4	23.7	20.3	2 star

MATERIAL OF CONSTRUCTION - PUMPSET	
Part Name	Material
Motor frame	Cast Iron
Front / Back cover	Cast Iron
Rotor shaft	Mild Steel with SS 410 sleeve
Pump Casing	Cast Iron
Impeller	Cast Iron / Leaded Bronze
Sealing	Graphite coated asbestos



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