



C.R.I. PUMPS

Pumping trust. Worldwide.

C.R.I. MONOBLOCK PUMPS

ROBUST. BIG. POWERFUL.

WITH ADVANCED 3D HT TECHNOLOGY

JUMBO



- ⚡ 3D HT Technology ensures longer Life
- ⚡ Special grade lubricants increases the life of bearing
- ⚡ CFD based pump design ensures best hydraulic efficiency
- ⚡ High operating efficiency results in lesser power consumption
- ⚡ Specially designed for wide voltage operation

PRODUCT PERFORMANCE CATALOGUE

CENTRIUGAL MONOBLOCK PUMPSETS



C.R.I. 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	SPECIFICATIONS	
• Robust construction ensures longer life • 3D Heat Transfer technology ensures low temperature rise • 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 • Bronze impeller in specific models	Power range	CT Model : 2.2kW - 15kW (3HP - 20HP) CF Model : 2.2kW - 7.5kW (3HP - 10HP)
	Speed	CT Model : 2880 RPM CF Model : 1440 RPM
	Version	Three Phase - 350/380/415V, 50Hz, AC supply
	Maximum total head	CT Model : 94 Meter; CF Model : 20 Meter
	Maximum flow rate	CT Model : 33 lps (119m ³ /h); CF Model : 62 lps (223.2m ³ /h)
	Degree of protection	IP 44
	Direction of rotation	Clockwise from driving end
	Class of insulation	A & B Class
	Type of duty	S1 (Continuous)
	Maximum Suction lift	7 meter
	Nominal pump set size in mm Suction & Delivery	50 x 40, 65 X 50, 80 X 65, 100 X 80 and 100 X 100

APPLICATIONS

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

PUMPED LIQUIDS

Clean, thin, non-aggressive, non explosive, clear, cold, fresh water without abrasives & solid particles.



PERFORMANCE CHART

JUMBO SERIES

SINGLE STAGE CENTRIFUGAL MONOBLOCK PUMPS 2880 RPM, AT RATED VOLTAGE – THREE PHASE 350 / 380 / 415 VOLTS, 50Hz, A.C.SUPPLY. CONFORMS TO : IS : 9079

Model	kW	HP	Inlet Size in mm	Outlet Size in mm	m ³ /hr lps	0	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	36
						0	2	2.5	3	3.5	4	4.5	5	5.5	6	6.5	7	7.5	8	8.5	9	10
CTG-10/3T	2.2	3.0	50	40	Head in Metres	42	39	37	35	32.5	29	22	11									
CTG-14/5T	3.7	5.0	50	40		49	48	47	45	42	40	37.5	35	33	29.5	25	18					
CTG-25/5D	3.7	5.0	50	40		44			43	42.5	42	41.5	41	40.5	40	39.5	39	38.5	38	35.5	31	13
CTG-22/7.5D	5.5	7.5	50	40		60.5							59	58.5	58	57	55	54	53	48	33	
CTG-30-10D	7.5	10	50	40		69							65.5	65	64.5	64	63.5	63	62	58	40	
CTG-21.5/3D	2.2	3.0	65	50		30	29.5	29	29	28.5	28.5	28	28	27.5	27	26.5	26	22	14			

Model	kW	HP	Inlet Size in mm	Outlet Size in mm	m ³ /hr lps	0	18	21.6	25.2	27	28.8	30.6	32.4	34.2	36	37.8	39.6	43.2	46.8	50.4	54	55.8
						0	5	6	7	7.5	8	8.5	9	9.5	10	10.5	11	12	13	14	15	15.5
CTG-25/3D	2.2	3	65	50	Head in Metres	25	24	23	22	21	20.5	20	19	18	17.5	17	16	14				
CTG-27/3T	2.2	3	65	50		26	24	23	22	21.5	21	20.5	20	19.5	19	18	17	16				
CTG-29/5T	3.7	5	65	50		36			34.5	32	30	27	23.5	20	16							
CTG-29/5D	3.7	5	65	50		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-31/5T	3.7	5	65	50		30				28.5	28	27.5	27	26.5	26	25	24	20	18	16		
CTG-34/5D	3.7	5	65	50		31						30.5	30	29.5	29	28.5	28	27	25	24		
CTG-29/7.5D	5.5	7.5	65	50		53			51	50.5	50	49.5	48	46	45	43	42	41	34			
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-39/7.5D	5.5	7.5	65	50		41					40.5	40.5	40	39.5	39	38.5	38	37	35			
CTG-36/10D	7.5	10	65	50		55			52	51.5	51	50.5	50	49	48.5	47.5	46.5	44	40	36		
CTG-38/10D	7.5	10	65	50		54.5					53	52	51	50	49	46	43	37	31	25		
CTG-43/10D	7.5	10	65	50		71						67.5	67	66.5	66	65.5	65	64	63	61	43	
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-38/15D	11	15	65	50		70.5						69.8	69.7	69.6	69.4	69	68.5	68	66.5	66	65	
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	m³/hr lps	DISCHARGE																		
						0	31	32	34	36	37	40	43	47	50	54	57	61	65	68	72	76	79	83
						0	8.5	9	9.5	10	10.5	11	12	13	14	15	16	17	18	19	20	21	22	23
CTG-36/3T	2.2	3	80	65	Head in Metres	19	18.5	18	17.5	17	16.5	16	15.5	14	13	11.5								
CTG-43/3D	2.2	3	80	65		23				22.5	22	21.5	21	20	19	17	16	15						
CTG-39/5T	3.7	5	80	65		28	27	27	26.5	26.5	26	25.5	25	24	23.5	22	21	19.5	18	16				
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		41						40.5	40	39	38.5	38	31	20	15	11				
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			

Model	kW	HP	Inlet Size in mm	Outlet Size in mm	m ³ /hr lps	DISCHARGE																				
						0	36	43	47	50	54	57	61	65	68	72	76	79	83	86	90	94	97	101	104	119
CTG-79/5D	3.7	5	100	80	Head in Metres	20.5	19.5	19	18.8	18.5	18	17.5	17	16.5	16	15.5	15	14	13	12	11					
CTG-65/7.5D	5.5	7.5	100	80		28			26	25.5	25	24.5	24	23.5	23	22.5	22	21.5	21	20	19	18	16	14		
CTG-68/10D	7.5	10	100	80		41			34	33.5	33	32	31	30	29.5	28.5	28	27	26	25	24	23	22	20.5	19.5	15
CTG-86/12.5D	9.3	12.5	100	80		39			36	36	35.5	35	35	34.5	34.5	34	33.5	33	32	31.5	31	30	23	20.5	20	
CTG-86/15D	11.0	15.0	100	80		43.5	43			42.5		42		41.5	41	40.5	40	39.5	39	38	37	36.5	36	34		

JUMBO SERIES

SINGLE STAGE CENTRIFUGAL MONOBLOCK PUMPS 1440 RPM, AT RATED VOLTAGE – THREE PHASE 350 / 380 / 415 VOLTS, 50Hz, A.C.SUPPLY. CONFORMS TO : IS : 9079

Model	kW	HP	Inlet Size in mm	Outlet Size in mm	m³/hr lps	DISCHARGE																	
						0	43.2	48.6	52.2	55.8	59.4	63	66.6	70.2	73.8	77.4	81	84.6	88.2	102.6	115		
						0	12	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-51/3D	2.2	3	100	80	Head in Metres	14	13.5	13	12.5	12	11.5	11	10.5	10	9.5	9							
CFG-72/5D	3.7	5	100	80		16.5				15.5	15.3	15	14.7	14.4	14	13.5	13	12.5	12	11			
CFG-52/3D	2.2	3	100	100		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		

**JUMBO SERIES**

SINGLE STAGE CENTRIFUGAL MONOBLOCK PUMPS 1440 RPM, AT RATED VOLTAGE – THREE PHASE 350 / 380 / 415 VOLTS, 50Hz, A.C.SUPPLY. CONFORMS TO : IS : 9079

Model	kW	HP	Inlet Size in mm	Outlet Size in mm	m ³ /hr lps	0	23.4	27	30.6	34.2	37.8	41.4	45	48.5	52.2	55.8	59.2	63	66.6	70.2
						0	6.5	7.5	8.5	9.5	10.5	11.5	12.5	13.5	14.5	15.5	16.5	17.5	18.5	19.5
CFG-33/3D	2.2	3	65	50	Head in Metres	20		19.5	19	18.5	18.0	17.5	17	16.5						
CFG-50/3D	2.2	3	80	65		14.5				14	13.8	13.5	13.2	13.0	12.8	12.5	12.0	11.5	11	
CFG-34/3D	2.2	3	65	50		16	15.8	15.5	15	14.5	14	13	11							
CFG-54/5D	3.7	5.0	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	m ³ /hr lps	0.0	68.4	79.2	86.4	93.6	108.0	111.6	115.2	122.4	126.0	129.6	136.8	140.4
						0	19	22	24	26	30	31	32	34	35	36	38	39
CFG-79/7.5D	5.5	7.5	100	100	Head in Metres	18	17.5	17	16.5	16	15	14.8	14.5	14	13.5	13	12.5	12

Model	kW	HP	Inlet Size in mm	Outlet Size in mm	m ³ /hr lps	0	72	100.8	108	115.2	122.4	129.6	136.8	144	158.4	165.6	172.8	176.4
						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	m ³ /hr lps	0	72	101	115	130	144	158	173	187	202	209	216	223
						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	14.0	13.8	13.6	13.5	12.6	12.2	12	11.6	11.2

JUMBO SERIES

SINGLE STAGE CENTRIFUGAL MONOBLOCK PUMPS 2990 RPM, AT RATED VOLTAGE – SINGLE PHASE 230 VOLTS, 50Hz, A.C.SUPPLY.

Model	kW	HP	Inlet Size in mm	Outlet Size in mm	m³/hr	0	12.6	18	19.8	21.6	23.4	25.2	27	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-21/5M	3.7	5.0	65	50	Head in Metres	40	37	34.5	33.5	32	31	30	28	27	26	24	20

Model	kW	HP	Inlet Size in mm	Outlet Size in mm	m³/hr	0	43.2	46.8	48.6	52.2	54	57.6	61.2	64.8	68.4	70.2	72
					lps	0	12	13	13.5	14.5	15	16	17	18	19	19.5	20
CTG-57/5M	3.7	5.0	80	65	Head in Metres	26	25	24.5	24	23	22	20	19	18	16	14	11

Model	kW	HP	Inlet Size in mm	Outlet Size in mm	m³/hr	0	43.2	50.4	61.2	68.4	75.6	82.8	90	93.6
					lps	0	12	14	17	19	21	23	25	26
CTG-68/5M	3.7	5.0	100	100	Head in Metres	16	15	14	13	12	11	10	9	8

CHARACTERISTICS OF FLUIDS

Maximum Liquid temperature	33°C (max)
Maximum ambient temperature	40°C (max)
Permissible amount of sand	25 gm/m³ (max)
Allowable solids	3000 ppm (max)
Chloride ion density	500 ppm (max)
Turbidity	50 ppm silica scale (max)
Hardness (Drinking water)	300 ppm (max)
Specific gravity	1.004 (max)
Viscosity	1.75 X 10 ⁶ m²/sec (max)
pH	6.5 to 8.5

MATERIAL OF CONSTRUCTION - PUMPSET

Part Name	Material
Rear Cover	Cast Iron
Bracket	Cast Iron
Shaft	Mild Steel
Sealing	Graphite coated asbestos
Pump Casing	Cast Iron
Impeller	Cast Iron / Lead Bronze



NOTE



C.R.I. PUMPS

Pumping trust. Worldwide.

-
- 5 decades of engineering excellence ● Sold in more than 120 countries
 - More than 1200 models of pumps and motors ● Over 700 service centres across India
 - Fully equipped R&D wing recognized by Ministry of Science and Technology
 - ISO 9001 & 14001 accreditations
-

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