



PUMPS & EQUIPMENTS FOR SEWAGE TREATMENT PLANTS





C.R.I. PUMPS

Pumping trust... Worldwide.

T H E B E G I N N I N G

of C.R.I., way back in 1961, was a resolute attempt to produce a few irrigation equipments using the limited facilities of an in-house foundry. Eventually the founder's dream was coming true as the small production unit he started kept growing rapidly. Now, after more than five eventful decades, it is an enormous, widely reputed organization, which produces more than 1500 varieties of perfectly engineered pumps and motors and sells its products in numerous countries spread across 6 continents.

C . R . I . I S O N E A M O N G

the few pioneers in the world to produce 100% stainless steel submersible pumps. Having achieved a record production capacity of over 2 million pumps per annum, today C.R.I. is rubbing its shoulders with the best brands in the world, with advanced technology and safety standards as its hallmarks.

T H E I N F R A S T R U C T U R E

of C.R.I. is pretty comprehensive with state-of-the-art machineries and high potential in-house R&D recognised by the ministry of science and technology, Govt. of India - all within its own covered area of 300,000 square metres. The production environment is accredited with ISO 9001 & 14001 certifications and the products are CE, UR/UL, IEC, TSE & ISI certified. The R&D team always stays in tune with the changing scenario and seldom fails in coming up with outstanding solutions every time.

N E E D L E S S T O S A Y ,

behind this legendary growth lies the untiring, innovative, enthusiastic and dedicated team work. and, of course, a flawlessly maintained value system too. The name C.R.I. itself encapsulates the company's ethos: " Commitment, Reliability, Innovation".



WASTE WATER SUBMERSIBLE PUMPS



C.R.I Submersible Sewage Pumps are suitable for pumping muddy water, storm water and sewage water. These pumps are having non-clog impellers to handle suspended solids. Its dynamically balanced rotating parts ensures vibration and noise-free operation

SPECIAL FEATURES

- Dry type high efficiency motors.
- Equipped with an automatic reset motor protector.
- Heavy duty sealed bearings.
- In-built lip seal to prevent ingress of slit and sand.

APPLICATIONS

STP / ETP | Municipal Waste Water Transfer

| Commerical & Industrial Sewage Transfer

| Pumping from Septic Tanks

Commercial Buildings | Houses | Hotels

MATERIAL OF CONSTRUCTION

Pump Casing	: C.I.
Impeller	: C.I / Cf8
Shaft	: SS 420
O-Rings	: NBR
Cable	: H07RNF
Seal Face	: Carbon/Ceramic Vs Sic/Sic Carbon Graphite Resin Impregnated / Steatite Vs Sic/Sic

SPECIFICATIONS

Max. Flow	: 2500 m ³ /h
Max. Head	: 70 m
Max. Power	: 185 kW
Max. Liquid Temp	: 40° C
Max. Solid Size	: 165 mm
Max. Outlet Size	: 400 mm
Class of Insulation	: H
Protection Class	: IP 68
Impeller Type	: Vortex; Cutter; Mono/ Multi channel

PERFORMANCE CHART

SUBMERSIBLE VORTEX PUMPS

“H” Class - IP 68 - 2850rpm - Single Phase - 230V - Three Phase - 400V - 50Hz - A.C. Supply

MODEL	P2	Volt	μF	Amp	rpm	Del Size (mm)	SHC (mm)	I/sec	0	1	2	3	4	5	6
	kW							m³/h	0	3.6	7.2	10.8	14.4	18	21.6
GBC-V05-CM-A	0.55	230	16	3.0	2850	40	39	Head in m	7.2	6.3	5.3	4.4	-	-	-
GBC-V05-CT	0.55	400	-	2.0	2850	40	39		7.2	6.3	5.3	4.4	-	-	-
GBC-V07-CM-AR	0.75	230	16	4.8	2850	40	39		12	9.9	8.4	7.3	-	-	-
GBC-V07-CT-R	0.75	400	-	1.5	2850	40	39		12	9.9	8.4	7.3	-	-	-

MODEL	P2	Volt	μF	Amp	rpm	Del Size (mm)	SHC (mm)	I/sec	0	1	2	3	4	5	6	7	8	9
	kW							m³/h	0	3.6	7.2	10.8	14.4	18	21.6	25.2	28.8	32.4
GBC-V07-DT-S	0.75	400	-	2.1	2850	50	44	Head in m	13	12	11	9.3	7.9	6.2	-	-	-	-
GBC-V15-DM-AS	1.5	230	30	7.1	2850	50	44		15	14	12	11	9.0	7.4	6.0	-	-	-
GBC-V15-DT-S	1.5	400	-	3.1	2850	50	44		18	17	16	14	12	10	8.2	6.3	4.5	-

MODEL	P2	Volt	μF	Amp	rpm	Del Size (mm)	SHC (mm)	I/sec	0	2	4	6	8	10	12	14	16
	kW							m³/h	0	7.2	14.4	21.6	28.8	36	43.2	50.4	57.6
GBC-V11-DT-S	1.1	400	-	3.0	2850	50	44	Head in m	15	13	11	8.1	5.5	3.0	-	-	-
GBC-V22-DT-S	2.2	400	-	4.4	2850	50	44		18	16	14	12	9	6.5	3.5	-	-
GBC-V30-DT-RS	3.0	400	-	5.9	2850	50	44		21	20	18	15	13	11	7.8	4.6	-

MODEL	P2	Volt	μF	Amp	rpm	Del Size (mm)	SHC (mm)	I/sec	0	2	4	6	8	10	12	14	16
	kW							m³/h	0	7.2	14.4	21.6	28.8	36	43.2	50.4	57.6
GBC-V30-DT	3.0	400	-	7.5	2850	50	50	Head in m	22	22	21	18	15	12	9.0	6.0	3.0

MODEL	P2	Volt	μF	Amp	rpm	Del Size (mm)	SHC (mm)	I/sec	0	1	2	3	4	5	6	7	8	9	10	11	12
	kW							m³/h	0	3.6	7.2	10.8	14.4	18	21.6	25.2	28.8	32.4	36	39.6	43.2
GBC-V30-ET-S	3.0	400	-	5.9	2850	65	55	Head in m	22	21	20	19	18	17	16	15	14	13	11	10	9.0

MODEL	P2	Volt	μF	Amp	rpm	Del Size (mm)	SHC (mm)	I/sec	0	2	4	6	8	10	12	14	16	18	20
	kW							m³/h	0	7	14	21.6	28.8	36	43.2	50.4	57.6	64.8	72
GBC-V37-ET-R	3.7	400	-	9.0	2850	65	65	Head in m	19	19	18	17	16	14	12	10	8.7	6.6	-

MODEL	P2	Volt	μF	Amp	rpm	Del Size (mm)	SHC (mm)	I/sec	0	3	6	9	12	15	18	21	22
	kW							m³/h	0	10.8	21.6	32.4	43.2	54	64.8	75.6	79.2
GBC-V22-FT-R	2.2	400	-	4.0	2850	80	60	Head in m	17	15	12	9.5	7.0	4.5	2.0	-	-
GBC-V55-FD-RR	5.5	400	-	12	2850	80	60		29	27	25	22	19	16	13	8.5	7.0


SUBMERSIBLE VORTEX PUMPS
"H" Class - IP 68 - 2850rpm - Single Phase - 230V - Three Phase - 400V - 50Hz - A.C. Supply

MODEL	P2	Volt	Amp	rpm	Del Size (mm)	SHC (mm)	I/sec	0	4	8	12	16	20	24	28
	kW						m³/h	0	14.4	28.8	43.2	57.6	72	86.4	100.8
GB-CV75-FD	7.5	400	16	2850	80	70	Head in m	24	22	19	16	13	9.8	–	–
GB-CV110-FD	11	400	22	2850	80	70		34.1	32	29.6	27.1	24.9	21.8	18	–
GB-CV190-FD	19	400	37	2850	80	70		43.9	41.8	39	36.3	33.5	29.3	25.5	22.2

MODEL	P2	Volt	Amp	rpm	Del Size (mm)	SHC (mm)	I/sec	0	4	8	12	16	20	24
	kW						m³/h	0	14.4	28.8	43.2	57.6	72	86.4
GB-CV55-ED	5.5	400	12	2850	67	57	Head in m	23.3	20	17	14	11.8	–	–
GB-CV75-ED	7.5	400	16	2850	67	57		28.6	26.1	23.1	20	17	14	–
GB-CV110-ED	11	400	22	2850	67	57		38.9	36.7	35	32	28.1	24.3	20.6
GB-CV150-ED	15	400	30	2850	67	57		48	46	43.1	41	38.1	35.7	–
GB-CV185-ED	18.5	400	32	2850	67	57		54.9	53	50	48	–	–	–

MODEL	P2	Volt	Amp	rpm	Del Size (mm)	SHC (mm)	I/sec	0	5	15	25	30	35	40	45
	kW						m³/h	0	18	54	90	108	126	144	162
GB-CV75-GD-4	7.5	400	16	1450	100	90	Head in m	20.5	19.4	16.5	12.6	10.5	8.4	6	–
GB-CV110-GD-4	11	400	22	1450	100	90		22.5	22	19.6	16	13.7	11.4	9.2	–
GB-CV140-GD-4	14	400	30	1450	100	90		24.5	23.5	21.2	18	15.7	13.6	11.5	9.1
GB-CV170-GD-4	17	400	35	1450	100	90		31.5	30.1	27.3	24.1	22.4	20	17.6	15.1

SUBMERSIBLE MONO - CHANNEL PUMPS
"H" Class - IP 68 - 2850rpm - Single Phase - 230V - Three Phase - 400V - 50Hz - A.C. Supply

MODEL	P2	Volt	Amp	rpm	Del Size (mm)	SHC (mm)	I/sec	0	3	6	9	12	15	18	21	22
	kW						m³/h	0	10.8	22	32	43.2	54	64.8	75.6	79.2
MC-CC40-FT	4	400	8.6	2850	80	50	Head in m	27.7	25.3	22.5	20	17.3	14.9	12.1	9	–

MODEL	P2	Volt	Amp	rpm	Del Size (mm)	SHC (mm)	I/sec	0	5	10	15	20	25	30	35	40	45
	kW						m³/h	0	18	36	54	72	90	108	126	144	162
MC-CC65-FD-4	6.5	400	13	1450	80	70	Head in m	22	19.5	16.5	14.5	12.8	11.5	10.2	8.5	–	–

MODEL	P2	Volt	Amp	rpm	Del Size (mm)	SHC (mm)	I/sec	0	5	10	15	20	25	30	35	40	45	50
	kW						m³/h	0	18	36	54	72	90	108	126	144	162	180
MC-CC90-FD	9	400	18	2850	80	70	Head in m	25.8	22.6	20	17.5	15.4	13.5	11.5	9.4	–	–	–
MC-CC150-FD	15	400	30	2850	80	70		40.2	35.5	31.4	28	25.2	23	21.2	19.5	17.2	14	11

MODEL	P2	Volt	Amp	rpm	Del Size (mm)	SHC (mm)	I/sec	0	5	10	15	20	25	30	35	40	45	50	55	60	70
	kW						m³/h	0	18	36	54	72	90	108	126	144	162	180	198	216	252
MC-CC75-GD-4	7.5	400	16	1450	100	90	Head in m	22	20	17.8	16.1	14.8	13.5	12.5	11.4	10	8.8	7.3	6	4.4	1.2
MC-CC90-GD-4	9	400	20	1450	100	90		26	23.5	21.5	20	18.5	17	15.6	14	12.6	11.1	9.5	8	6.5	3
MC-CC140-GD-4	14	400	30	1450	100	90		33.5	31.3	29.4	27.5	25.6	23.9	22.2	20.5	18.8	17.2	15.8	14	12.3	9
MC-CC175-GD-4	17.5	400	36	1450	100	90		39	35.8	33.4	31.5	30	28.8	27	25.5	23.7	21.9	20	18	16	–

GTC SERIES



SUBMERSIBLE GRINDER PUMPS

“H” Class - IP 68 - 2850rpm - Single Phase - 230V - Three Phase - 400V - 50Hz - A.C. Supply

MODEL	P2	Volt	μ F	Amp	rpm	Del Size (mm)	SHC (mm)	I/sec	0	1	2	3	4	4.5	5
	kW							m³/h	0	4	7	10.8	14.4	16.2	18
GTC-V07-CM-A	0.75	230	22	5.5	2850	40	6.0	Head in m	14	12	8.6	4.8	—	—	—
GTC-V07-CT	0.75	400	—	2.7	2850	40	6.0		14	12	8.6	4.8	—	—	—
GTC-V11-CM-A	1.1	230	30	7.5	2850	40	6.0		16	13	10	6.6	—	—	—
GTC-V11-CT-R	1.1	400	—	3.2	2850	40	6.0		16	13	10	6.6	—	—	—

MODEL	P2	Volt	μ F	Amp	rpm	Del Size (mm)	SHC (mm)	I/sec	0	1	2	3	4	4.5	5
	kW							m³/h	0	4	7	10.8	14.4	16.2	18
GTC-V22-CT	2.2	400	—	4.5	2850	40	7.0	Head in m	29	26	23	19	13	10	—
GTC-V30-CT	3.0	400	—	5.8	2850	40	7.0		35	33	29	26	19	15	—
GTC-V37-CT	3.7	400	—	10	2850	40	7.0		44	43	40	36	31	29	—

MODEL	P2	Volt	μ F	Amp	rpm	Del Size (mm)	SHC (mm)	I/sec	0	1	2	3	4	4.5	5	6	7	8	8.5
	kW							m³/h	0	4	7	10.8	14.4	16.2	18	21.6	25.2	28.8	30.6
GTC-V55-CD-HF	5.5	400	—	12	2850	40	7.0	Head in m	45	43	41	39	36	34	34	31	27	17	6.7

SUBMERSIBLE MIXER

MD & TP SERIES

CRI's energy efficient Submersible Mixer is a mechanical device that is used in wide applications in industry and Municipal/Sewage Treatment Plants to mix the sludge and other liquid volumes like mixing, suspension of solids, agitating, blending and dissolving using optimized propeller design.

APPLICATION

| Sewage Treatment Plants

- Sludge Thickening Tanks | Homogenisation Process
- Biological of Activated & Digested Sludge Plants
- Mixing of Sewage Wet Wells.
- Waste Processing — Slaughter Houses | Aquaculture

| Paper & Pulp | Paint Industries

| Slurry & Biogas Plants

| Distilleries | Breweries.



PERFORMANCE CHART

MIXERS WITH DIRECT TRANSMISSION ► MD SERIES

SN	MODEL	P1 kW	P2 kW	Volt	Amp	rpm	No. of Blades	Axial Force N	Flow in m ³ /h
1	MD - RP08 - T - 4	1.1	0.8	400	2.8	1450	2	152	320
2	MD - RP12 - T - 4	1.7	1.2	400	3.6	1450	2	210	372
3	MD - RP21 - T - 4	3.1	2.1	400	5.7	1450	2	206	590
4	MD - RP26 - T - 4	3.4	2.6	400	6.2	1450	2	404	1275
5	MD - RP34 - T - 4	4.3	3.4	400	7.6	1450	2	912	1558

MIXERS WITH PLANETARY TRANSMISSION ► TP SERIES

SN	MODEL	P1 kW	P2 kW	Volt	Amp	rpm	No. of Blades	Axial Force N	Flow in m ³ /h
1	TP - RP30 - T - 4	3.5	3.0	400	7.2	250	3	498	1462
2	TP - RP40 - T - 4	4.7	4.0	400	7.5	250	3	742	2000
3	TP - RP55 - D - 4	6.4	5.5	400	10.8	250	3	800	2162
4	TP - RP75 - D - 4	8.7	7.5	400	15.6	200	3	1131	2821
5	TP - RP90 - D - 4	10.1	9.0	400	18.0	200	3	1265	3013
6	TP - RP110 - D - 4	12.5	11.0	400	23.0	200	3	1475	3286
7	TP - RP150 - D - 4	16.7	15.0	400	30.0	200	3	2859	5489
8	TP - RP185 - D - 4	21.0	18.5	400	36.0	200	3	3725	6702

SUBMERSIBLE AERATOR

AR SERIES - Diffuser Type

C.R.I. Submersible aerators are suitable for all kind of liquid waste water, discharged from industries and farms. The Products of the expertise gained from over five decades of experience, endurance and workmanship. These products are experienced to perfection with utmost care and stringent quality control at all stages to ensure a trouble free Operations.

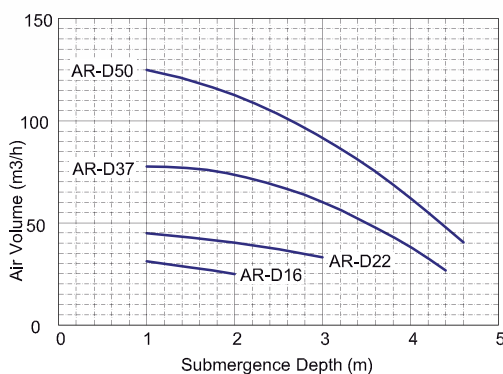
APPLICATION

Biological process | Industrial aeration process
 Stabilisation and Equalization Tank | Fish Farms

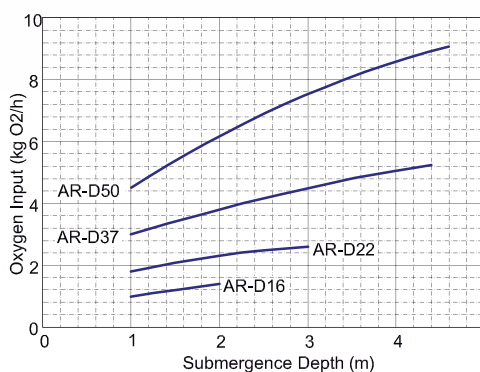


PERFORMANCE CURVES

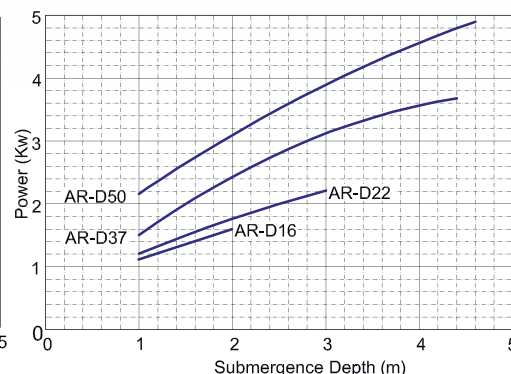
Air Volume Curve



Oxygen Transfer Curve

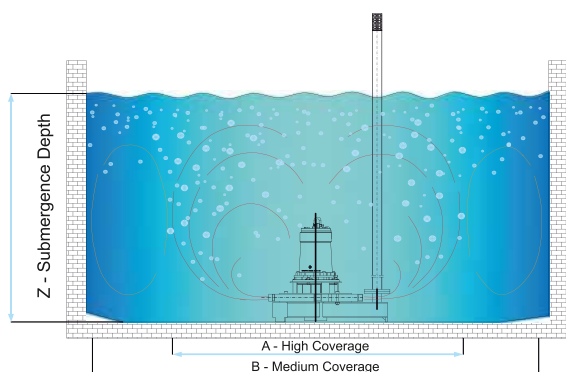


Power Curve



PERFORMANCE CHART

MODEL	Power (kW)	Min-Max Water depth (m)	Air Inlet Pipe Diameter	Maximum Intake of Air (m³/h)	Oxygen Transfer Capacity (Kg-O ₂ /h)	Weight (Kg)
AR-D16	1.6	1.0 - 2.0	40	30	1.4 - 1.0	65
AR-D22	2.2	1.0 - 3.0	50	45	2.6 - 1.8	75
AR-D37	3.7	1.0 - 4.4	65	77	5.2 - 3.0	76
AR-D50	5.0	1.0 - 4.6	65	125	9.0 - 4.5	78



Sl.No	Model Name	High Coverage A (m)	Medium Coverage B (m)	Submergence Z (m)
1	AR-D16	1.2	2.6	2.0
2	AR-D22	2.5	5.2	3.0
3	AR-D37	3.5	6.0	4.4
4	AR-D50	4.0	8.2	4.6

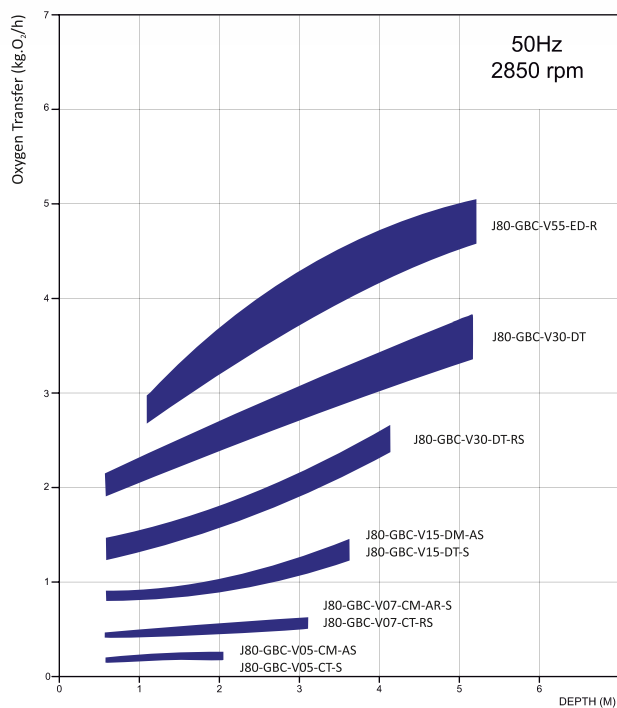


SUBMERSIBLE AERATOR

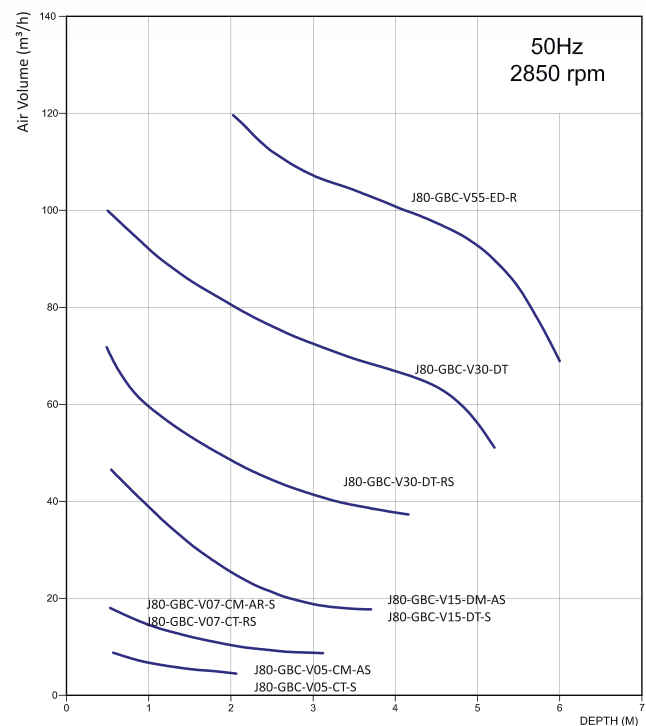
AR SERIES - Jet Type



Oxygen Transfer vs Depth



Air Volume vs Depth



FEATURES:

- Low Noise
- Unique air intake chamber design for effective water mixing
- High oxygen transfer rate
- Effective Reduction result in Bio-Oxy-Demand (BOD) level
- Uniform Mixing to ensure uniform MLSS

APPLICATIONS

- | Sewage & Industrial Waste Treatment Plants
- | Biological Process in Fish farms
- | Industrial Aeration Stabilization & Equalization Tank
- | Aeration, Mixing and Agitation for the Mixed Liquor Suspended Solids (MLSS)
- | Biochemical Oxygen Demand (BOD) Reduction Process
- | Sequencing Batch Reactors (SBR) Process

SPECIFICATIONS

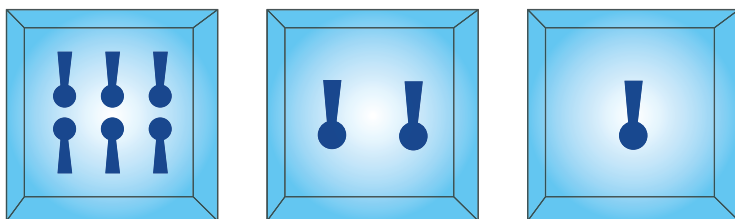
Max Power : 5.5 Kw
 Max. Air volume : 120 m³/h.
 Max. Total Oxygen Input : 5.2 (kg.O₂/h)

SPECIFICATIONS

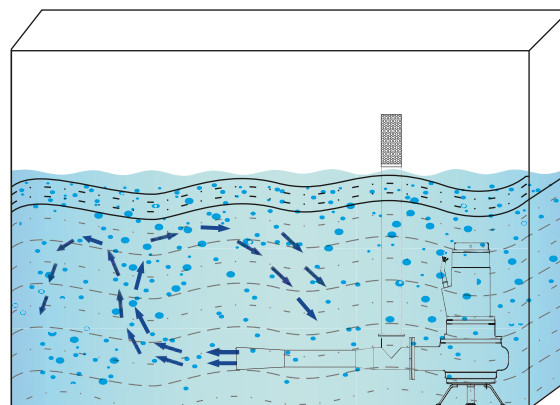
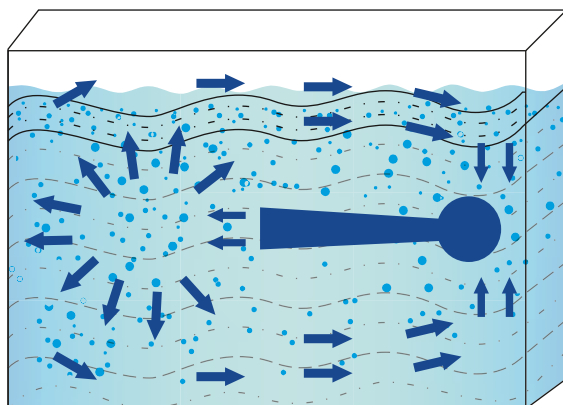
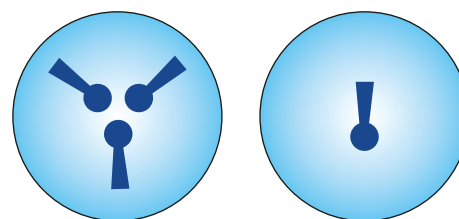
Sl No	Model	Power		Air Volume (m ³ /h)	Oxygen Transfer Capacity (Kg-O ₂ /h)	High Coverage Range (m)	Aeration Tank in m		
		Kw	HP				L	W	H
1	J80 - GBC - V05 - CM - AS J80 - GBC - V05 - CT - AS	0.55	0.75	5.0	0.12 - 0.23	1.5	2.0	1.8	2.0
2	J80 - GBC - V07 - CM - AR - S J80 - GBC - V07 - CT - RS	0.75	1.0	10.0	0.3 - 0.5	2.0	3.0	2.5	3.0
3	J80 - GBC - V15 - DM - AS J80 - GBC - V15 - DT - S	1.5	2.0	22.0	0.9 - 1.1	2.5	4.0	3.5	3.5
4	J80 - GBC - V30 - DT - RS	3.0	4.0	40.0	1.9 - 2.2	3.0	5.0	4.5	4.0
5	J80 - GBC - V30 - DT	3.0	4.0	70.0	2.8 - 3.3	3.5	6.0	5.0	5.0
6	J80 - GBC - V55 - ED - R	5.5	7.5	100.0	4.0 - 4.8	4.0	7.0	6.0	6.0

INSTALLATION PATTERN

Square / Rectangular Tank



Circular Tank





SELF PRIMING CENTRIFUGAL PUMPS

SMB & SPC SERIES

C.R.I. "SMB & SPC Series" Self - priming non-Clog Monoblock pump's volute chamber and impellers are designed to give the best possible hydraulic efficiency and suction lift characteristics. These pumps are powered by a totally enclosed fan cooled A.C. induction motor. Motor stator is made of low watt loss silicon steel laminations assembled under pressure and rigidly locked in the frame. Construction of motor frames and usage of quality materials result in high performance and low temperature rise thereby increasing the life cycle of the motor.

SPECIAL FEATURES

- Automatic air release during priming.
- Back pull out design.
- Dynamically balanced rotating parts ensure less vibrations.
- Pumps fitted with mechanical seal.
- High resistance to abrasive liquids the wear plate is easily replaced

SPECIFICATION

Max. Flow : 270 m³/h
Max. Head : 34 m
Max. Power : 18.5 kW
Speed in rpm : 1440 / 2880

APPLICATIONS

| Public utilities | Waste treatment
| Industry | Agriculture
| Civil engineering | ETP | STP

MATERIAL OF CONSTRUCTION

Pump Casing : C.I.
Impeller : C.I.
Shaft : EN8 / SS 410
Shaft Sleeve : SS 410
Sealing : Gland / Mechanical Seal

SMB**SPC**



PERFORMANCE CHART

SMB SERIES

MONOBLOCK PUMPS

"B" Class - IP 44 - 2880/1440rpm - Single Phase - 220/240V - Three Phase - 380/415V - 50Hz - A.C. Supply

MOC: CI Motor Body / CI Casing / CI Impeller / SS Shaft / Mechanical Seal or Gland Packing

MODEL	POWER		S x D (mm)	SPEED (rpm)	SHC (mm)	TOTAL HEAD IN METERS												
	KW	HP				8	10	12	14	15	16	18	19	20	22	24	25	
						DISCHARGE LITERS PER SECOND												
SMBC-040	0.37	0.5	40 X 40	2900	7	2.6	2.2	1.3	-	-	-	-	-	-	-	-	-	
SMB-140	0.75	1	40 X 40	2880	7	4	3.3	2.4	1.6	-	-	-	-	-	-	-	-	
SMB-240	1.5	2	40 X 40	2880	8.5	-	5.6	5	4.1	3.5	3	1.4	-	-	-	-	-	
SMB-350	2.2	3	50 X 50	2880	10.5	-	8.5	8	7.4	7	6.5	5.4	5	4.2	2.8	1	-	
SMB-580	3.7	5	80 X 80	1440	15.5	-	17.5	15.5	12.5	10	8	3.4	-	-	-	-	-	

SPC SERIES

PUMP END

2880/1440rpm - 50Hz - A.C. Supply

MOC: CI Casing / CI Impeller / EN8 Shaft / Gland Packing

MODEL	POWER		S x D (mm)	SPEED (rpm)	SHC (mm)	TOTAL HEAD IN METERS																
	KW	HP				10	12	14	15	16	18	19	20	22	24	25	26	28	30	32	34	
						DISCHARGE LITERS PER SECOND																
SPC-0	0.75	1	40 X 40	2850	7	3.5	2.6	1.4	0.5	-	-	-	-	-	-	-	-	-	-	-	-	
SPC-1	1.5	2	40 X 40	2850	8.5	6.2	5.5	4.8	4.3	3.9	2.7	1.8	0.8	-	-	-	-	-	-	-	-	
SPC-2	2.2	3	50 X 50	2850	10.5	9.2	8.4	8	7.7	7.2	6.4	5.9	5.3	4	2.5	1.4	-	-	-	-	-	
SPC-3A	3.7	5	80 X 80	2850	7	-	-	-	-	-	-	-	10	9.2	8.1	7.4	6.7	5.1	3.7	1.8	-	
SPC-3	5.5	7.5	80 X 80	2850	14.5	-	-	-	-	-	-	-	16.3	16.1	15.4	14.7	13.9	12.4	10.1	7.9	5.4	
SPC-3L	3.7	5	80 X 80	1440	15.5	18	16.3	13.5	11.5	10	5.5	-	-	-	-	-	-	-	-	-	-	
SPC-4LA	7.5	10	100 X 100	1440	18.5	36	33.8	31.1	29.9	28.4	23.8	22.4	17.9	11.9	-	-	-	-	-	-	-	
SPC-4L	9.30	12.5	100 X 100	1440	23	41	39.4	36.5	35.2	33.5	30.4	28.2	26.1	21.9	16.9	14	10	-	-	-	-	
SPC-6LA	15	20	150 X 150	1440	34	66	63.3	59.7	57.4	54.9	48.7	45.4	42.4	34.1	23.7	-	-	-	-	-	-	
SPC-6L	18.7	25	150 X 150	1440	40	75	72.4	68.6	66.1	63.9	58.4	54.9	51.9	44.9	33.9	27.4	20	-	-	-	-	



CENTRIFUGAL MONOBLOCK

CT & BP SERIES

C.R.I Centrifugal Monoblock Pump sets are powered by totally enclosed fan cooled AC induction two pole motor. Motor stator is made to low watt less silicon steel laminations assembled under pressure and locked in the frame. The windings are of high-grade enamelled copper wire offer excellent resistance and are varnish impregnated. Construction of motor frame and usage of quality materials result in high performance and low temperature rise thereby increasing the life cycle of the motor.



SPECIAL FEATURES

- High operating efficiency resulting in lower power consumption
- Good suction lift characteristics
- Inbuilt thermal overload protector in all single phase pump sets upto 2 HP
- Specially designed for wide voltage operation
- Dynamically balanced rotating parts ensures minimum vibrations and long life
- Back pull-out design for easy servicing & repair

MATERIAL OF CONSTRUCTION

Pump Casing	: Cast Iron
Impeller	: Cast Iron/Bronze
Motor Frame	: Cast Iron/Aluminium
Shaft	: SS 410
Mechanical Seal	: Carbon & Ceramic

SPECIFICATIONS

	CT SERIES	BP SERIES
Power range	0.75 kW – 1.5 kW	2.2 kW - 15.0 kW
Speed	2900 RPM	
Version	3Ph - 380 / 415V, 50Hz AC Supply	
Max. Head	43 m	47 m
Max. Flow Rate	24 m ³ /h	68 m ³ /h
Degree of protection	IP 44	
Class of insulation	B	B & F
Max. ambient temperature	45°C	
Sealing	Mechanical Seal / Gland Packing	
Type of duty	S1 (continuous)	

APPLICATIONS

- | Final water transfer in STP
- | Civil applications
- | Drip & Sprinkler systems
- | Industries
- | Irrigation / Farms / Gardening

PERFORMANCE CHART

BP Series - "F" Class

"F" Class - IP 44 - 2880rpm - Three phase - 415V - 50Hz - A.C. Supply
MOC: CI Motor Body / CI Casing / CI/Bz Impeller / SS Shaft / Mechanical Seal

MODEL	kW	HP	S x D (mm)	I/sec	0	2	2.5	3	3.5	4	4.5	5	5.5	6	7	7.5	8	8.5	9	10
				m ³ /h	0	7.2	9	10.8	12.6	14.4	16.2	18	19.8	21.6	25.2	27	28.8	30.6	32.4	36
BP 335	2.2	3.0	50 X 40	Head in m	34.5	33	31.5	30.5	27	25	22.5	19	16	12	-	-	-	-	-	-
BP 852	5.5	7.5	65 X 50		54	-	-	52	51.5	50.5	49.5	48.5	46.5	45.5	44.5	43.5	40	36	34	24

MODEL	kW	HP	S x D (mm)	I/sec	0	5	7	8	9	10	11	12	14	16	17	18	19	20	21	22
				m ³ /h	0	18	25.2	28.8	32.4	36	39.6	43.2	50.4	57.6	61.2	64.8	68.4	72	75.6	79.2
BP 325	2.2	3.0	65 x 50	Head in m	23.5	22	19.5	18	16.5	15	12.5	-	-	-	-	-	-	-	-	-
BP 830	5.5	7.5	80 x 65		31.5	-	-	-	31	30.5	30	29.5	28	26.5	25	24	23	22	20.5	18
BP - 12.5H4	9.3	12.5	80 x 65		42.5	-	-	-	41.5	41	40.5	40	38	36.5	35	33	31	30	26	-

BPL Series - "F" Class

"F" Class - IP 44 - 2880rpm - Three phase - 380-415V - 50Hz - A.C. Supply
MOC: CI Motor Body / CI Casing / CI Impeller / EN8 Shaft / Mechanical Seal

MODEL	kW	HP	S x D (mm)	I/sec	0	3.5	4	4.5	5	5.5	6	7	7.5	8	8.5	9	10
				m ³ /h	0	12.6	14.4	16.2	18	19.8	21.6	25.2	27	28.8	30.6	32.4	36
BPL 538	3.7	5	65 x 50	Head in m	42	41	40	39	38	36	34.5	31	28.5	26	24	21	-

MODEL	kW	HP	S x D (mm)	I/sec	0	7	8	9	10	11	12	14	16	17	18	19	20
				m ³ /h	0	25.2	28.8	32.4	36	39.6	43.2	50.4	57.6	61.2	64.8	68.4	72
BPL 527	3.7	5	80 x 65	Head in m	27	26	25.5	25	24	23	22	19	14.5	11	-	-	-
BPL 1045	7.5	10	80 x 65		47	46.5	46	46	45.5	45	44.5	44.5	43.5	42.5	40	34	-
BPL 1060	7.5	10	65 x 50		60	56	50	46	40	34	28	16	-	-	-	-	-

MODEL	kW	HP	S x D (mm)	I/sec	0	7	8	9	10	11	12	14	16	17	18	19	20
				m ³ /h	0	25.2	28.8	32.4	36	39.6	43.2	50.4	57.6	61.2	64.8	68.4	72
BPL 1550	11	15	80 x 65	Head in m	50	-	-	-	-	49.5	49	48	47	46	40	36	32
BPL 1570	11	15	65 x 50		75	72	68	64	60	-	-	-	-	-	-	-	-

CT Series - "B" Class

"B" Class - IP 44 - 2880rpm - Three phase - 380-415V - 50Hz - A.C. Supply
MOC: CI Motor Body / CI Casing / CI/SS Impeller / SS Shaft / Mechanical Seal

MODEL	kW	HP	S x D (mm)	I/sec	0	0.6	0.7	1.1	1.3	1.5	1.7	1.9	2.1	2.3	2.9	3.1	3.3	5	6	7	8
				m ³ /h	0	2.2	2.6	3.8	4.6	5.4	6.1	6.8	7.6	8.3	10.4	11.2	11.9	18	21.6	25.2	28.8
CT 133	0.75	1.0	25 x 25	Head in m	31	27.5	27	26	25	24	23	17.5	13	-	-	-	-	-	-	-	-
CT 1.542	1.1	1.5	32 x 25		43	-	-	37.5	36.8	36.1	35.4	34.5	33.5	32.8	29.8	28.3	23	-	-	-	-
CT 224	1.5	2.0	50 x 50		23.5	-	-	-	-	-	-	-	-	-	23	22	21	18.5	16.3	13.7	0



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