

SUBMERSIBLE AERATOR

C.R.I. Submersible Diffuser / Jet Aerators are suitable for all kind of waste water, discharged from industries and farms. The products of the expertise gained from over five decades or 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 operation.

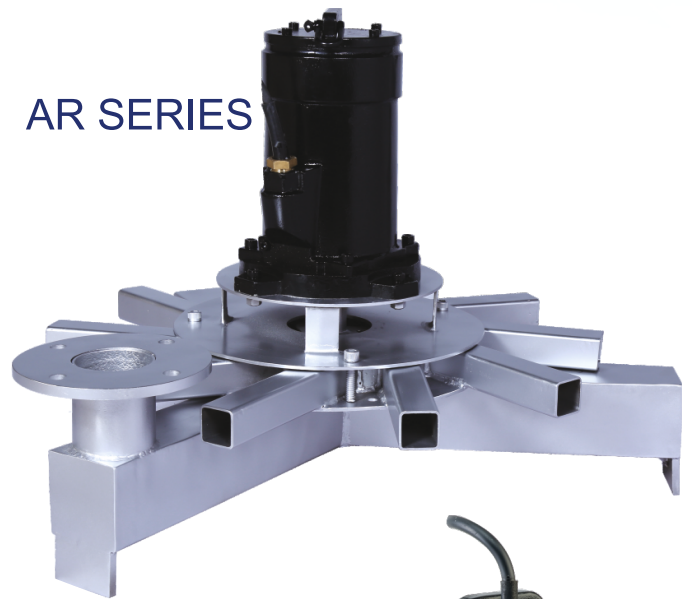
APPLICATIONS

- Sewage & Industrial Waste Treatment Plants
- Aquaculture
- 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

SALIENT FEATURES

- Low Noise
- Significant energy saving
- Low capital investment
- 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

AR SERIES



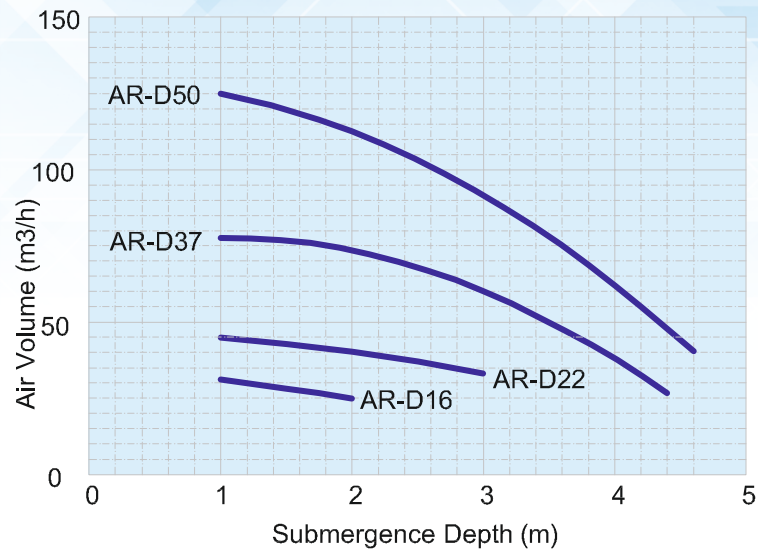
JR SERIES



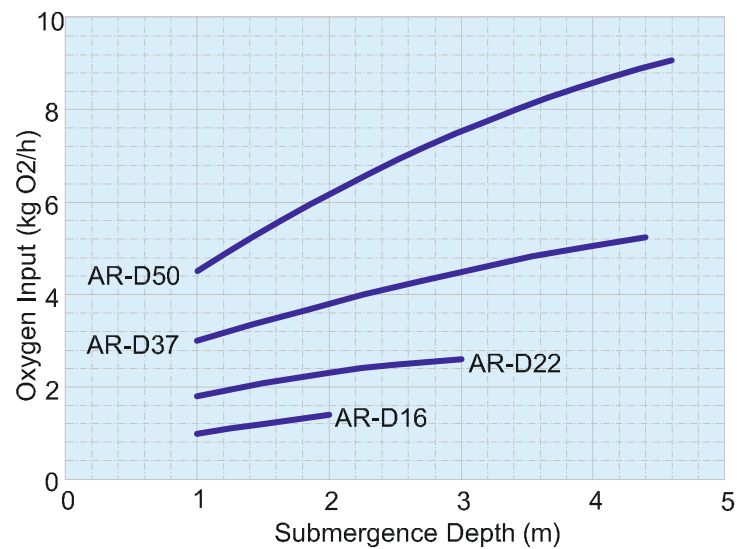
SUBMERSIBLE AERATOR

RADIAL TYPE

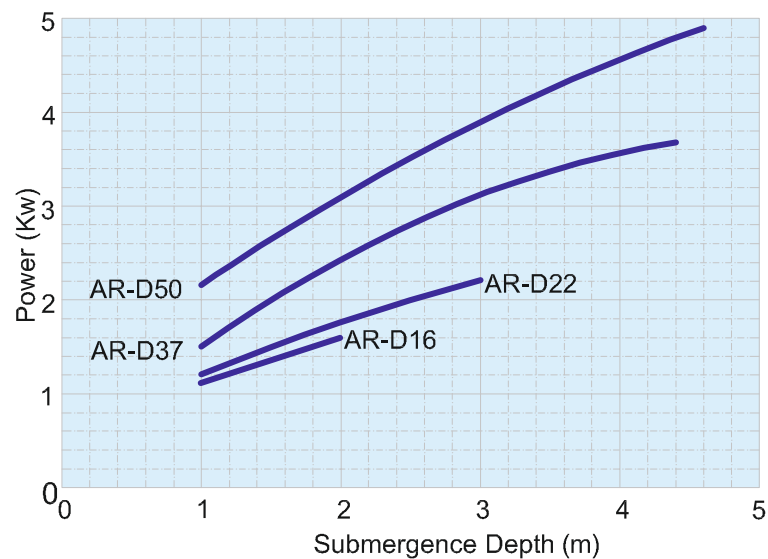
Air Volume Curve



Oxygen Transfer Curve



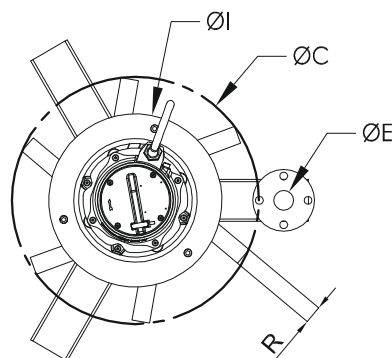
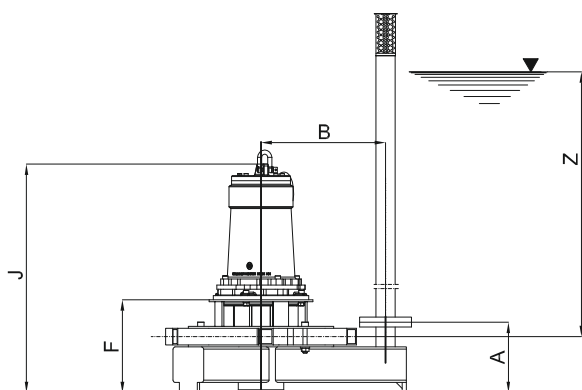
Power Curve



SUBMERSIBLE AERATOR

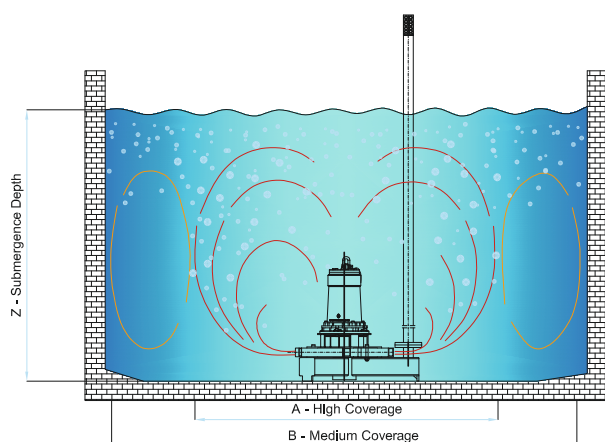
RADIAL TYPE

Model Name	Power (kW)	Min-Max Water depth (m)	Air Inlet pipe diameter (mm)	Maximum Intake of Air (m ³ /h)	Oxygen Transfer Capacity (Kg O ₂ /h)	Weight (kg)
AR-D16	1.6	1 - 2.0	40	30	1.4 - 1.0	65
AR-D22	2.2	1 - 3.0	50	45	2.6 - 1.8	75
AR-D37	3.7	1 - 4.4	65	77	5.2 - 3.0	76
AR-D50	5.0	1 - 4.4	65	125	9.0 - 4.5	78



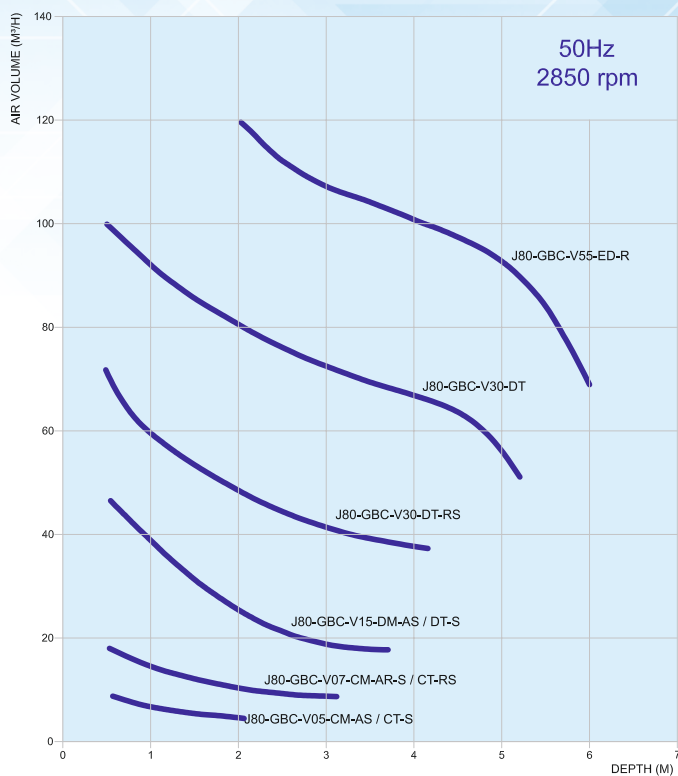
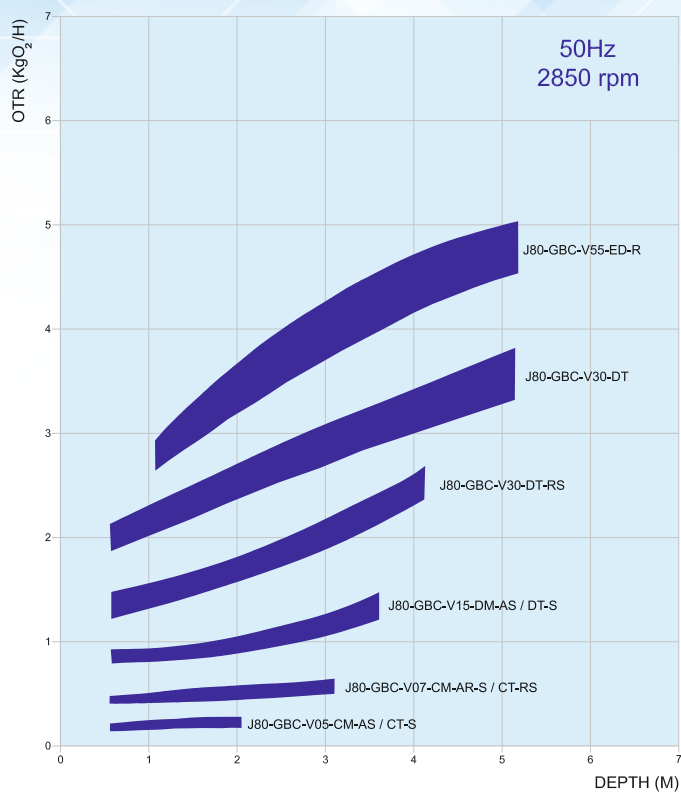
Z = Submergence [m]

Sl.No	Model Name	A	B	C	E	F	I	J	R
1	AR-D16	170	300	350	40	219	484	550	36
2	AR-D22	170	310	400	50	220	481	613	36
3	AR-D37	170	310	400	50	220	481	613	36
4	AR-D50	225	370	400	65	260	720	702	45



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 JET TYPE



Sl.No	Model	Power		Air Volume (m³/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-V15DM-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

SPECIFICATIONS / OPERATION LIMITS

Max Power	:	5.5 kW
Max. Air volume	:	120 m³/h
Max. Total Oxygen Input	:	5.2 (kg.O ₂ /h)

C.R.I. PUMPS PRIVATE LIMITED

Regd. Office : 7/46-1, Keeranatham Road, Saravanampatti,
Coimbatore - 641035. Tamilnadu, INDIA.

Phone : +91-422-7117000/1, Fax : +91-422-7117005.

E-mail : bcsmt@cripumps.com www.crigroups.com

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