

SUBMERSIBLE AERATORS

BER

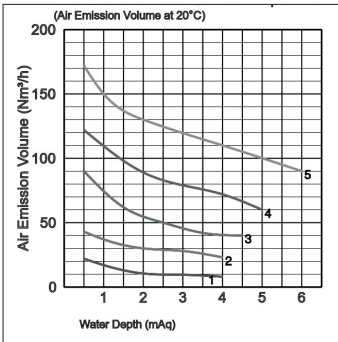
DIFFUSER OUTLET



The **BER** series aerators combine **B** series submersible pumps with venturi-jet based diffusers. They draw in air from above the wastewater by generating negative pressure around the nozzle with the flow from the pump. The air is mixed into the wastewater by this jet injector mechanism and sprayed underwater by the diffuser, to aerate and agitate the wastewater at the same time. In the process, tiny bubbles form inside the diffuser and increase the amount of dissolved oxygen in the wastewater. The powerful unidirectional jet that results can efficiently agitate long narrow tanks, as well as wider areas when multiple units are used. **BER** is capable of anaerobic agitation. Each model is available as a free-standing unit or with an auto-coupling set (TOS) for guide rail use.

Fluid: Water | Sewage | Water with suspended material | Temperature: 0 - 40°C

Application: Fish farms & agriculture | Sewage treatment | Food processing | Oxygenation



BER	Impeller	Shaft seal
	Single channel	Double mechanical

Pump	Lifting eyes	Bearing housing	Impeller	Suction cover
	S/S 304	Grey cast iron	Grey cast iron	Grey cast iron
	Shaft	Shaft (1.5 - 3.7kW)	Shaft seal	Lubrication
	S/S 403	S/S 4202J2	Silicon carbide	Oil
Pump casing		Diffuser		
Ductile iron		Nylon coated steel		

Motor	Poles, protection	Insulation	Thermal protection
	2 pole (0.75 - 1.5), 4 pole, IP68	Class F	Integral
	Starting	Motor casing	Power cable (10mtr)
	D.O.L.	Grey cast iron	Rubber



Free Standing



TOS Auto Coupling

item code	model	curve (#)	air-inlet bore (mm)	kW	volt	max water depth (mtrs)	free passage (mm)	w x l x h (mm)	dry weight (kgs)
10-10-1273	8-BER free-standing	1	25	0.75	400	4/3.5	20	194x674x464	28
10-10-1274	TOS 8-BER	1	25	0.75	400	4/3.5	20	194x674x464	28
10-10-1287	15-BER free-standing	2	32	1.5	400	4	35	222x895x562	43
10-10-1288	TOS 15-BER	2	32	1.5	400	4	35	222x895x562	43
10-10-1297	22-BER free-standing	3	50	2.2	400	4.5	35	317x1158x679	75
10-10-1298	TOS 22-BER	3	50	2.2	400	4.5	35	317x1158x679	75
10-10-1305	37-BER free-standing	4	50	3.7	400	5	35	317x1158x753	91
10-10-1306	TOS 37-BER	4	50	3.7	400	5	35	317x1158x753	91
10-10-1310	55-BER free-standing	5	50	5.5	400	6	35	391x1415x942	142
10-10-1311	TOS 55-BER	5	50	5.5	400	6	35	391x1415x942	142