BER

TSURUMI PUMP

The BER-series is a submersible ejector comprising a B-series sewage pump and a venturi-jet pump. It draws in air by means of its self-aspirating mechanism and discharges the mixture of air and water through the diffuser. The powerful single jet current is unrivaled in vertical stirring convection.





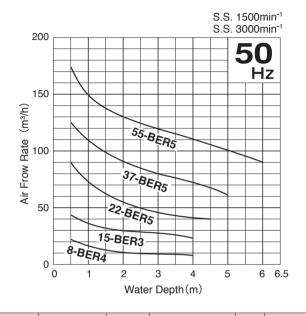
Guide Rail Fitting

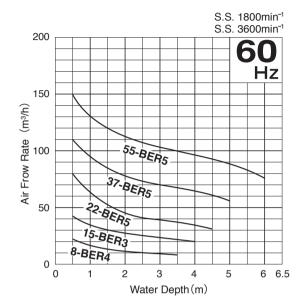
Applications

- Pre-aeration and mixing at wastewater treatment plant
- Supplying oxygen to water in aquafarm

■Air Flow Rate – Water Depth Curves

(The air flow rates are expressed at the standaed condition, i.e. temperature of 20, 1 atm and may vary by up to approximatery 5%.)





■ Major Standard Specifications

Air-inlet E	Bore	mm	25	32	50							
Treating	Type of F	luid	Wastewater and Sewage									
Fluid	Fluid Tem	perature	0 to 40℃									
		Impeller	Channel Impeller									
	Structure	Shaft Seal	Double Mechanical Seal with Oil Lifter									
		Bearing	Double-shielded Ball Bearing									
Pump		Impeller	Gray Iron Casting									
		Diffuser*	Structure Steel + Nylon Coated									
	Materials	Casing	Gray Iron Casting									
		Suction Cover	Gray Iron Casting									
		Shaft Seal	SiC									
	Type, Pol	Δ	Dry Type Submersible Induction Motor									
	турс, г ог		2, 4-pole									
Motor	Class of I	nsulation	Class E Class F (1.5kW and 5.5kW only)									
	Phase		Three-phase									
	Starting M	1ethod	Direct on Line									
	Protection I	Device (built-in)	Circle Thermal Protector									
	Lubricant		Turbine Oil (ISO VG32)									
		Frame	Gray Iron Casting									
	Materials	Shaft	403 Stainless Steel (0.75kW only) 420 Stainless Steel									
		Cable	PVC Chloropr	ene Rubb	er (5.5kV	V only)						
Air-inlet C	Connection		Screwed Flange									

[■]Standard Specifications

Bore	3.4-	NAI - I			Speed	Air Flow Rate *1	Mixing	Mary Trade Discounting		Max.	Dry Weight *2		Cabtyre Cable							
	"	del	1 ()	Starting Method	(S.S.) – Wate 50Hz/60Hz 50Hz	- Water Depth		Max. Tank Dimension			Water	kgs		. ,	200 ~ 240 V		380 ~ 575 V			
	Free	Guide Rail				50Hz/60Hz		Length	Width	Depth	Depth m	Free Gui	Guide Rail	No. of Cables	Cores ×	Outer Dia.	Cores x Outer Dia.	Length	Material	
mm	Standing	Fitting				m³/h		m	m	m		Standing	Fitting	Capies	mm ²	mm	mm ²		m	
25	8-BER4	TOS-8BER4	0.75	D.O.L.	3000/3600	11/9–3	22/21	3	2	4	4/3.5	28	23	1	4 × 1.25	11.1	4 × 1.25	11.1	6	PVC
32	15-BER3	TOS-15BER3	1.5	D.O.L.	3000/3600	28/24–3	41/40	4	3.5	4	4	43	34	1	4 × 1.25	11.1	4 × 1.25	11.1	6	PVC
50	22-BER5	TOS-22BER5	2.2	D.O.L.	1500/1800	45/38–3	63/60	5	5	4.5	4.5	75	61	1	4 × 2.0	11.8	4 × 2.0	11.8	6	PVC
50	37-BER5	TOS-37BER5	3.7	D.O.L.	1500/1800	80/70–3	94/90	6	6	5	5	91	77	1	4 × 3.5	13.9	4 × 2.0	11.8	6	PVC
50	55-BER5	TOS-55BER5	5.5	D.O.L.	1500/1800	120/105–3	126/120	7	7	6	6	149	132	1	4 × 3.5	14.1	4 × 3.5	14.1	8	Chloroprene Rubber

^{*1} The air flow rates are expressed at the standard condition. : Temperature 20°C, 1atm

All weights excluding cable

Weights of guide rail fitting excluding duckfoot bend

■Model Number Designation

Classification of motor output

Name of the Series

History

■Standard Accessories

Free Standing

- Silencer & Valve Set
- Lifting Chain 5m, (with Shackles)
- Suction Casing (with Nozzle Ring, Packing & Bolts)
- Screwed Flange
- Diffuser (with Packing & Bolts)
- Diffuser Base (with Nuts)

Guide Rail Fitting - TOS

- Silencer & Valve Set
- · Lifting Chain 5m, (with Shackles)
- Guide Support (with Bolts & Nuts)
- Air-inlet Pipe Support (with U-bolt & Nuts)
- Guide Hook (with Bolts)
- Nozzle (with Nozzle Ring, Packing & Bolts)
- Suction Casing
- Guide Connector (with Bolts)
- Screwed Flange
- Diffuser (with Packing & Bolts)
- Foundation Bolts (with Nuts)

^{*2} Dry weight

^{*}Available in stainless steel 304 upon request