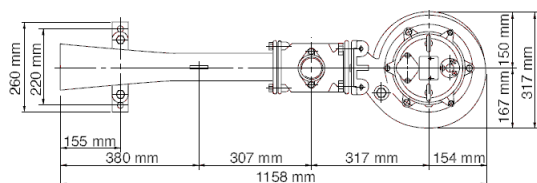
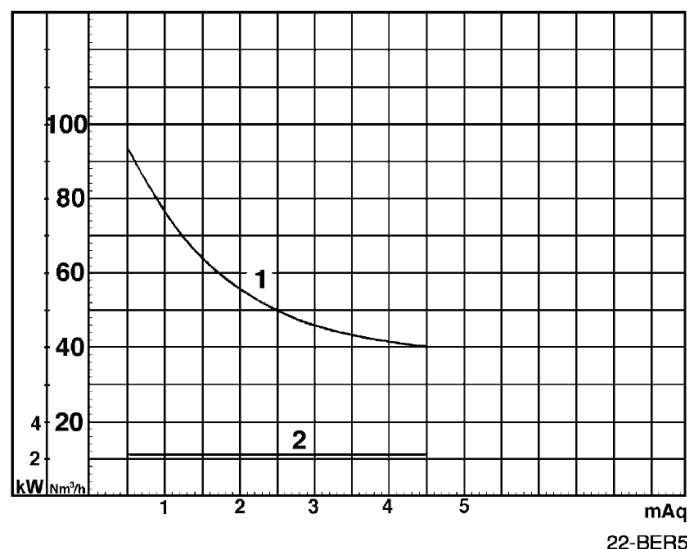


Data sheet 22-BER5



22-BER5



1 ... Air quantity - Water depth

2 ... Output kW - Water depth

Specification

Electric submersible aerator BER
Degree of protection IP 68
Pressure resistance max. 4,5m
Type of impeller
Free passage 35 mm
Suitable for:
aeration of activated sludge
(municipal sewage only)

Electric motor

Dry-type submersible induction motor
Insulation class E, 4 Pole, 1420 U/min
Starting mode Direct on line start
Rated voltage 400V, 50Hz, 3-phase
Rated power 2.2 kW
Power uptake 2.85 kW
Rated current 5 A
Start current 32 A

Cable

10m H07RN-F 4Cx1,5mm²

Motor Protection

Circle thermal protector
(snap-action bi-metal device)

Shaft seal

Double inside mechanical seal in oil bath
additional lubrication by oil lifting device
Primary seal
Silicon carbide on silicon carbide
Secondary seal
Ceramic on carbon

Bearings

Shielded ball bearings, maintenance-free

Materials

Impeller FC200 (EN-GJL-200)
Pump casing FC200 (EN-GJL-200)
Suction cover FC200 (EN-GJL-200)
Motor Frame FC200 (EN-GJL-200)
Shaft DIN 1.4028 (EN-X30Cr13)
Ejector free standing type DIN 1.0040 nylonbonded
TOS-Ejector guide rail fitting type DIN 1.0040 nylonbonded

Weight

75 kg (dry weight of the pump only without cable)

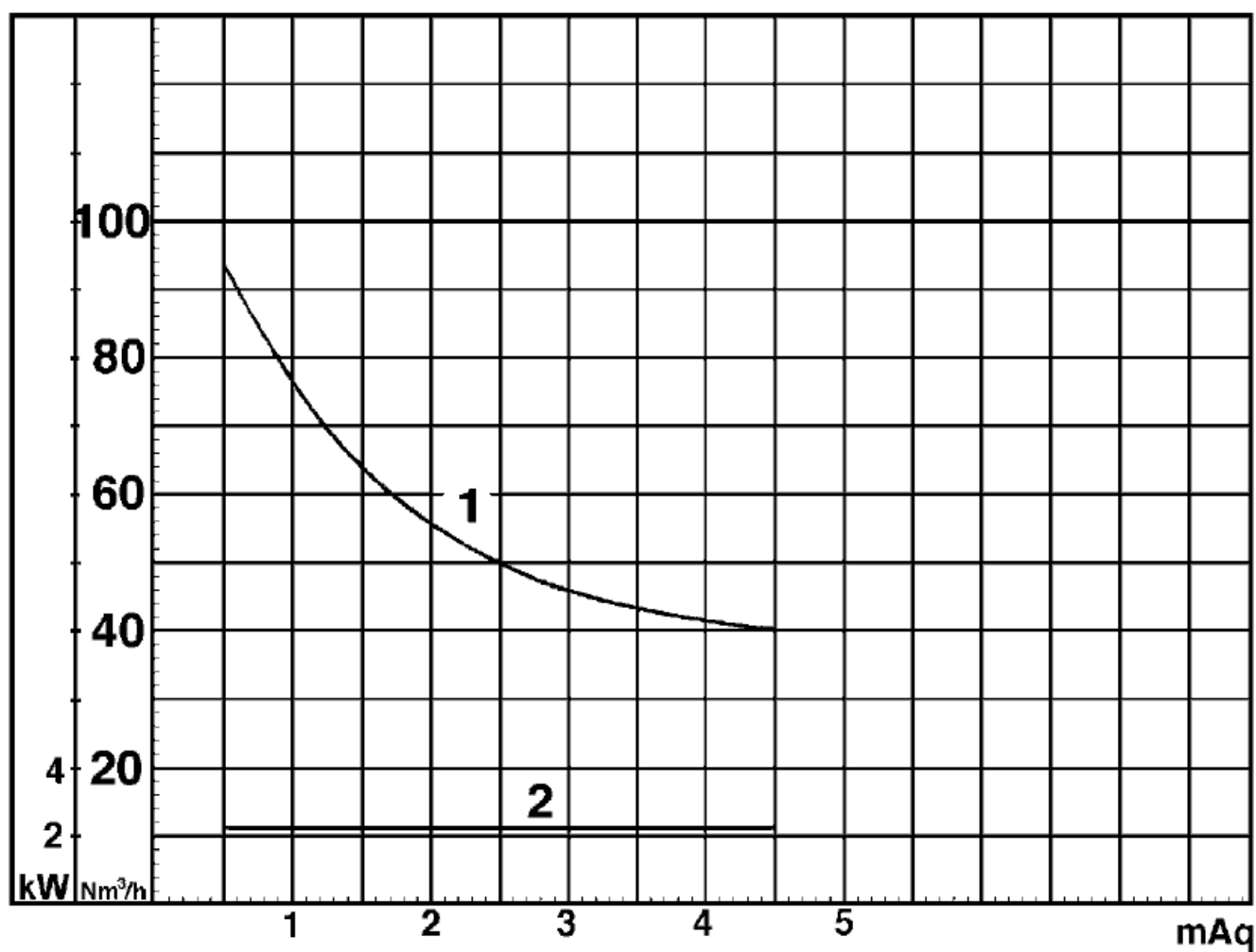
Air passage

2" (50mm) screwed-in mating flange

Performance curve

22-BER5

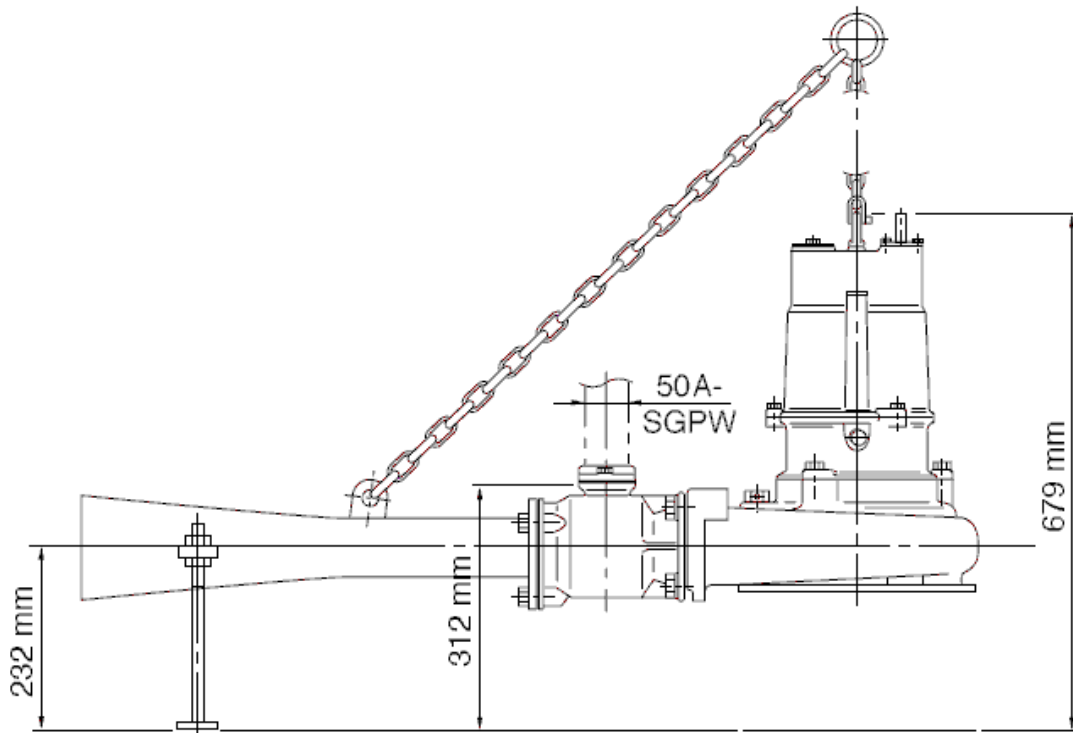
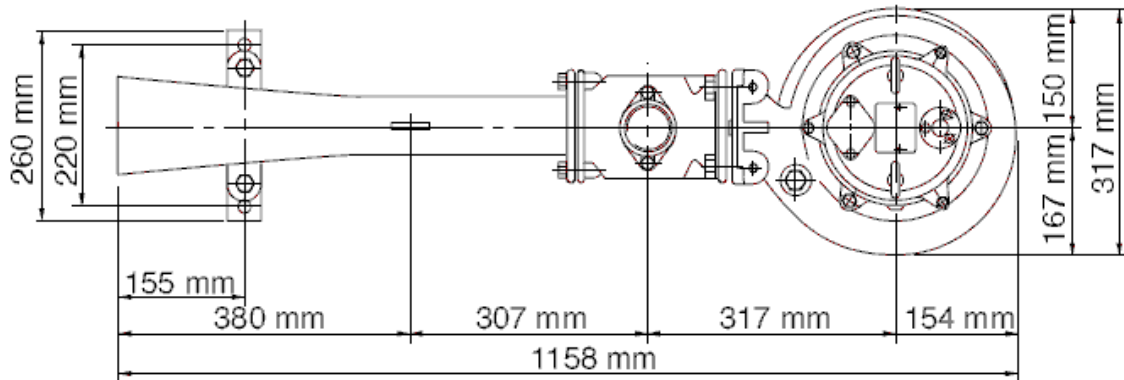
Air passage	2"
Air quantity	45 Nm³/h
water depth	3 mAq
max. water depth	4,5 mAq
Rated power	2.20 kW
Power input	2.85 kW
Phases	3
Voltages	400 V
Frequency	50 Hz
Rated current	5.0 A
Starting current	32.0 A
Number of poles	4
Speed	1420 r.p.m
Starting mode	Direct on line start
Insulation class	E



22-BER5

Dimensions

22-BER5



22-BER5

CWL: Continuous running water level
LWL: Lowest running water level



Tsurumi (Europe) GmbH

2025-03-03

V.01.02.2025

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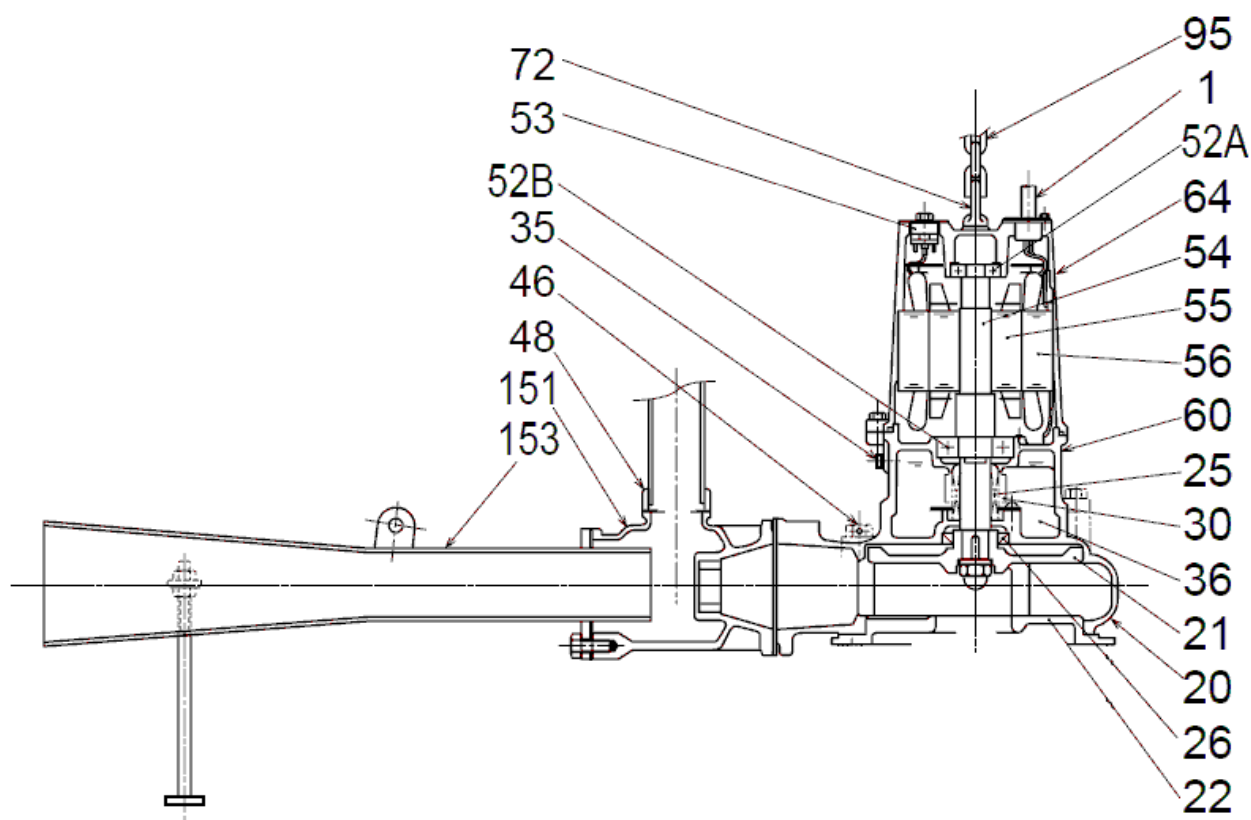
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Sectional drawing 22-BER5



22-BER5

No.	Description	Remark	No.	Description	Remark
1	Cable	NSSHÖU	55	Rotor	.
20	Pump casing	FC200 (EN-GJL-200)	56	Stator	.
21	Impeller	FC200 (EN-GJL-200)	60	Bearing Housing	FC200 (EN-GJL-200)
22	Suction cover	FC200 (EN-GJL-200)	64	Motor Frame	FC200 (EN-GJL-200)
23	Stand	Steel plate SPCC	72	Eye screw (2x)	DIN 1.4301 (EN-X5CrNi 18-10)
25	Mechanical seal	H-30A	95	Lifting chain	Construction steel SS400
26	Oil seal	TC456812	151	Air passage	FC200 (EN-GJL-200)
30	Oil distributor	Plastic	153	Diffuser	DIN 1.0040 nylonbonded
35	Oil screw (2x)	DIN 1.4301 (EN-X5CrNi 18-10)			
36	Lubricant	Turbine oil (ISO VG32)			
46	Air vent valve	Nylon			
49	Bottom Plate	Steel plate SPCC			
52A	Upper bearing	630ZZC3			
52B	Lower bearing	6307ZZC3			
53	Motor Protector 380/400/415V-50Hz	KA314-HRXL00 (H.C)			
54	Shaft	DIN 1.4028 (EN-X30Cr13)			