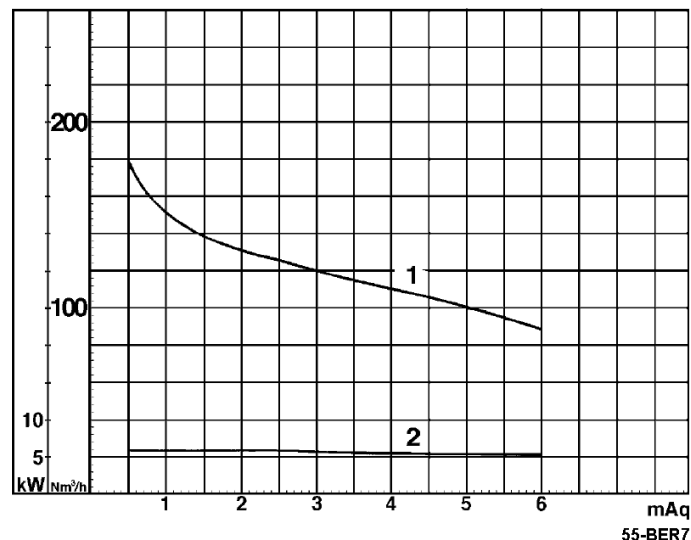
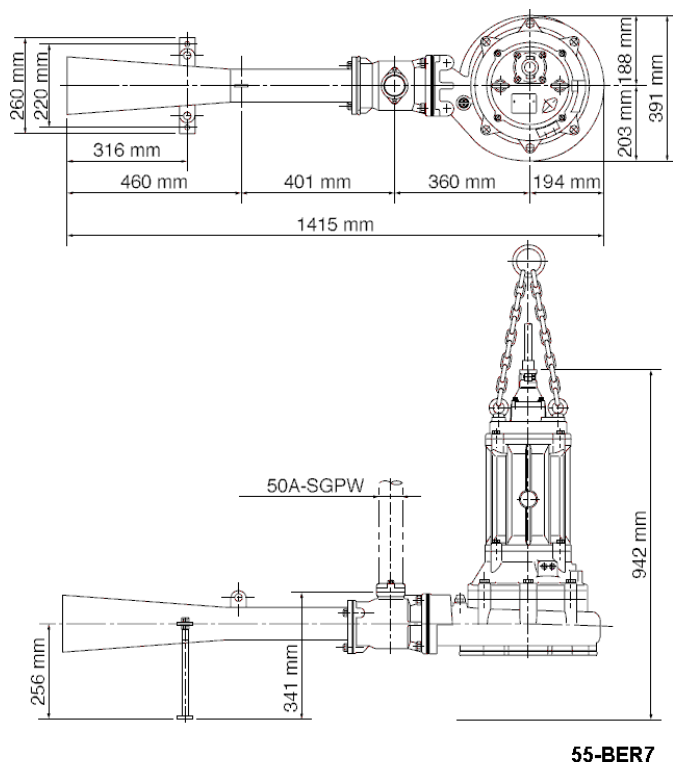


Data sheet 55-BER7



1 ... Air quantity - Water depth

2 ... Output kW - Water depth

Specification

Electric submersible aerator BER
 Degree of protection IP 68
 Pressure resistance max. 6m
 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 F, 4 poles, 1443 r.p.m.
 Starting mode Direct on line start
 Rated voltage 400V, 50Hz, 3-phase
 Rated power 5.5 kW
 Power uptake 6.92 kW
 Rated current 12.1 A
 Start current 63 A

Cable

10m H07RN-F 4Cx2,5mm²

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

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

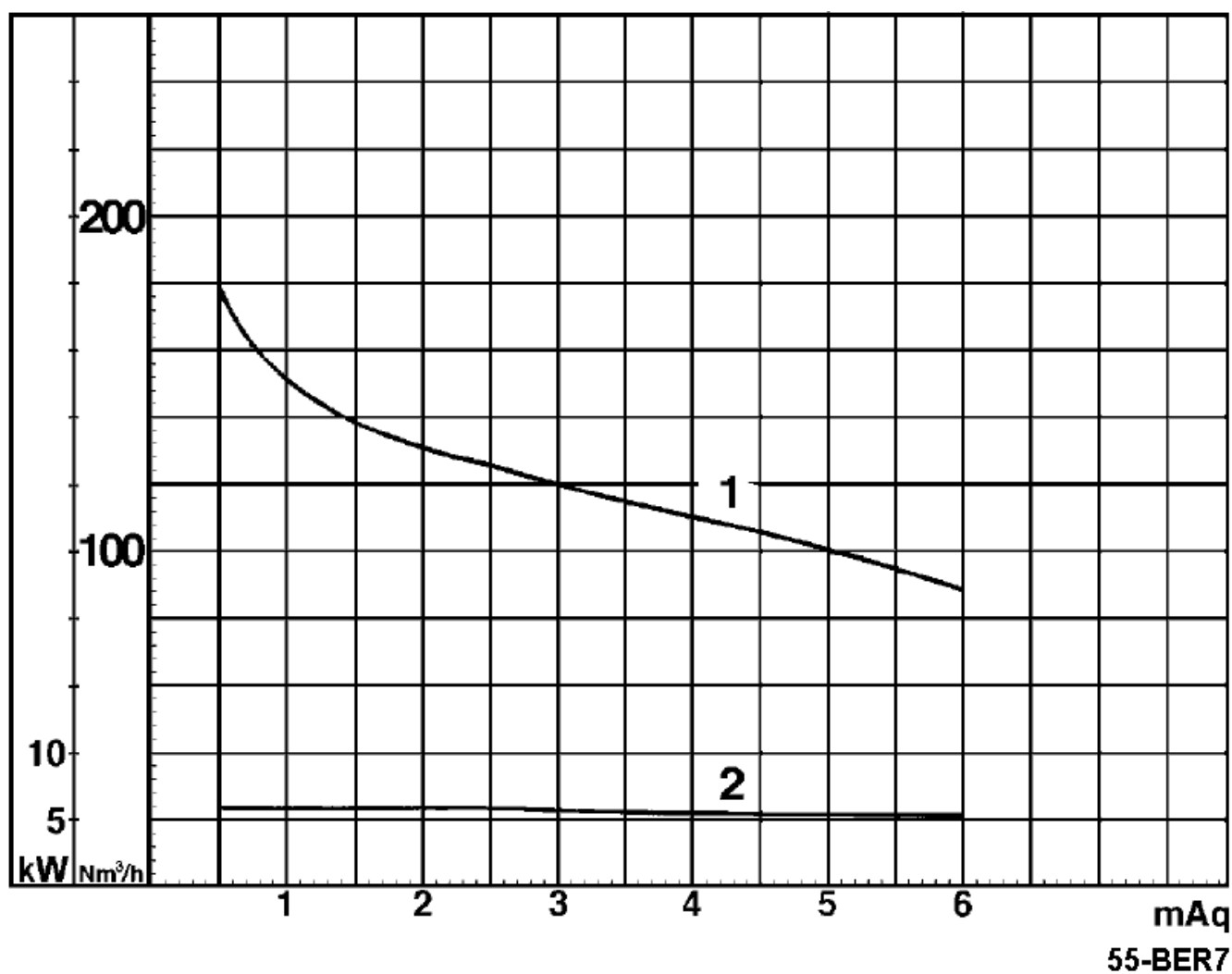
Air passage

2" (50mm) screwed-in mating flange

Performance curve

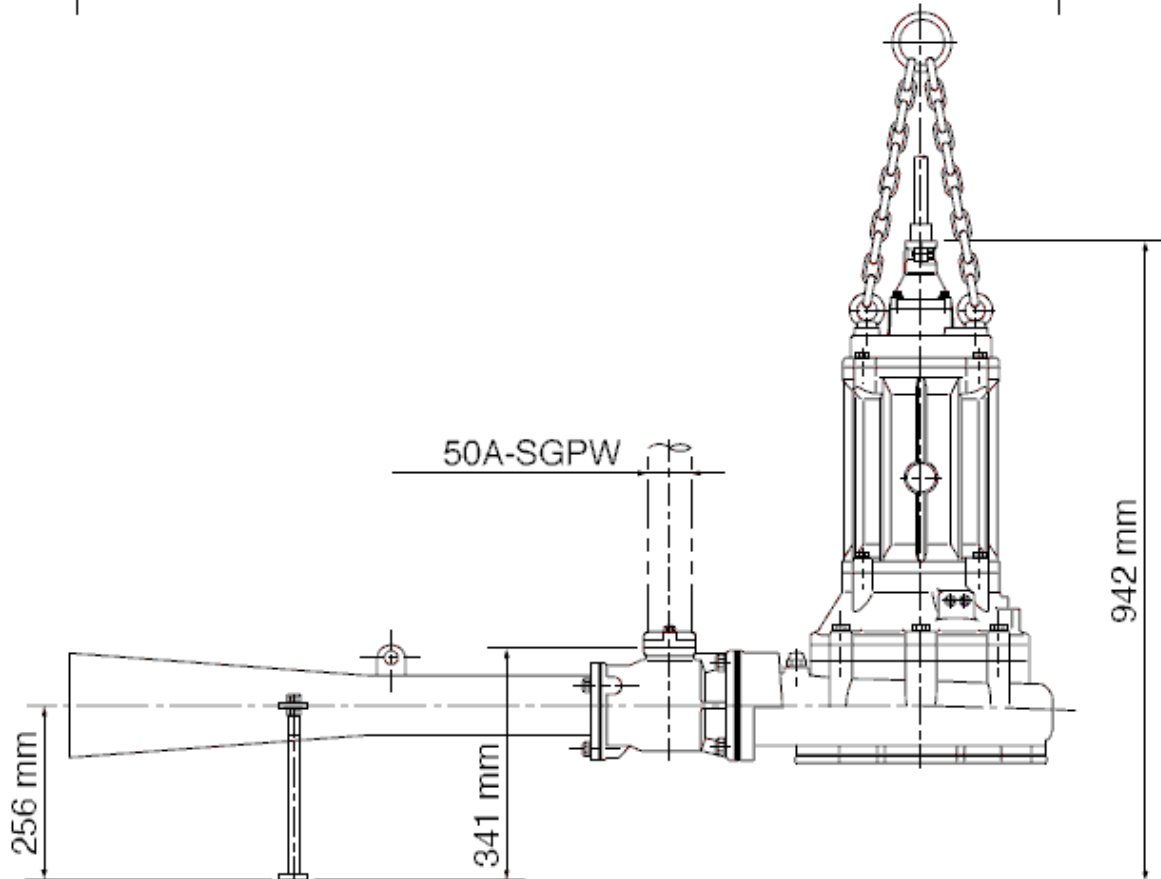
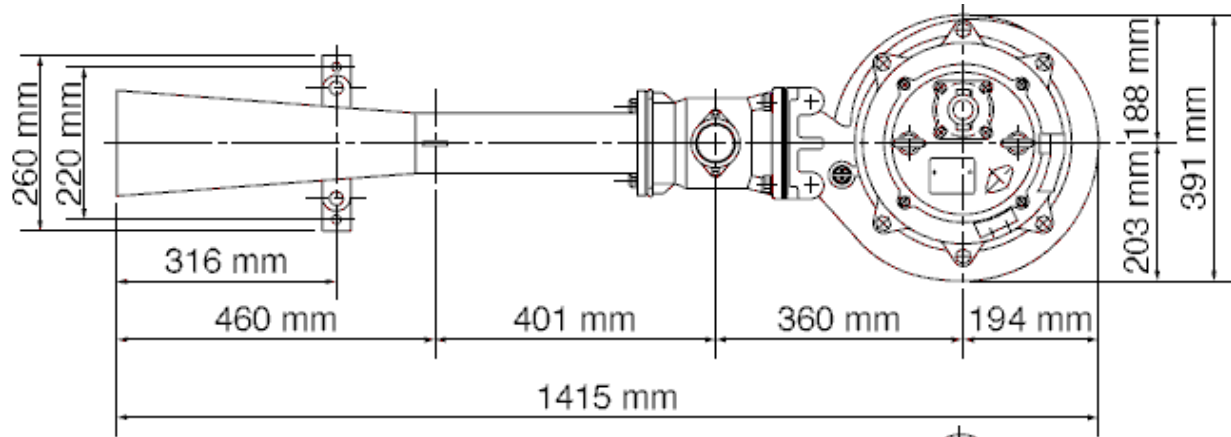
55-BER7

Air passage	2"
Air quantity	120 Nm³/h
water depth	3 mAq
max. water depth	6 mAq
Rated power	5.50 kW
Power input	6.92 kW
Phases	3
Voltages	400 V
Frequency	50 Hz
Rated current	12.1 A
Starting current	63.0 A
Number of poles	4
Speed	1443 U/min
Starting mode	Direct on line start
Insulation class	F



Dimensions

55-BER7



55-BER7

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



Tsurumi (Europe) GmbH

2025-03-03

V.01.02.2025

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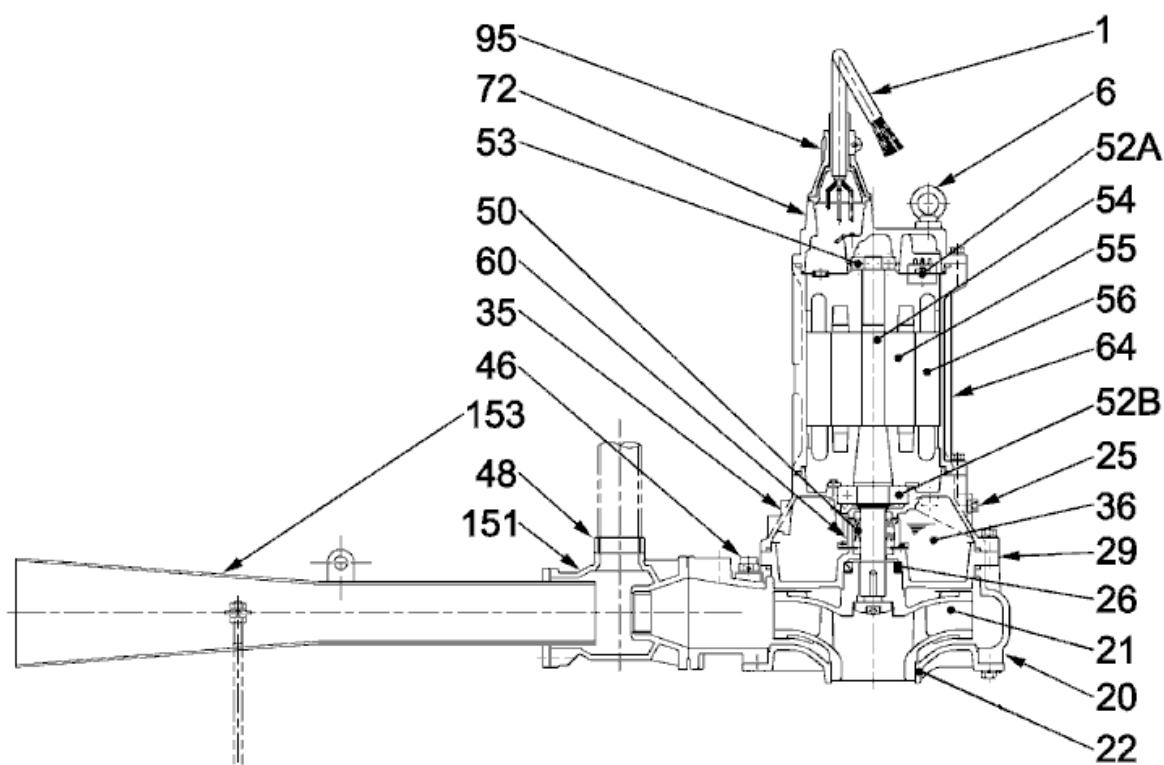
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Sectional drawing

55-BER7



55-BER7

No.	Description	Remark	No.	Description	Remark
1	Cable	NSSHÖU	52B	Lower bearing	6309ZZC3
6	Stuffing box	FC200 (EN-GJL-200)	53	Motor Protector 380/400/415V-50Hz	KA314-HRXL00 (H.C)
20	Pump casing	FC200 (EN-GJL-200)	54	Shaft	DIN 1.4028 (EN-X30Cr13)
21	Impeller	FC200 (EN-GJL-200)	55	Rotor	.
22	Suction cover	FC200 (EN-GJL-200)	56	Stator	.
23	Stand	Steel plate SPCC	60	Bearing Housing	FC200 (EN-GJL-200)
25	Mechanical seal	H-35A	64	Motor Frame	FC200 (EN-GJL-200)
26	Oil seal	TC608212	72	Eye screw (2x)	Construction steel SS400
29	Oil casing	FC200 (EN-GJL-200)	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			
50	Motor cover	FC200 (EN-GJL-200)			
52A	Upper bearing	630ZZC3			