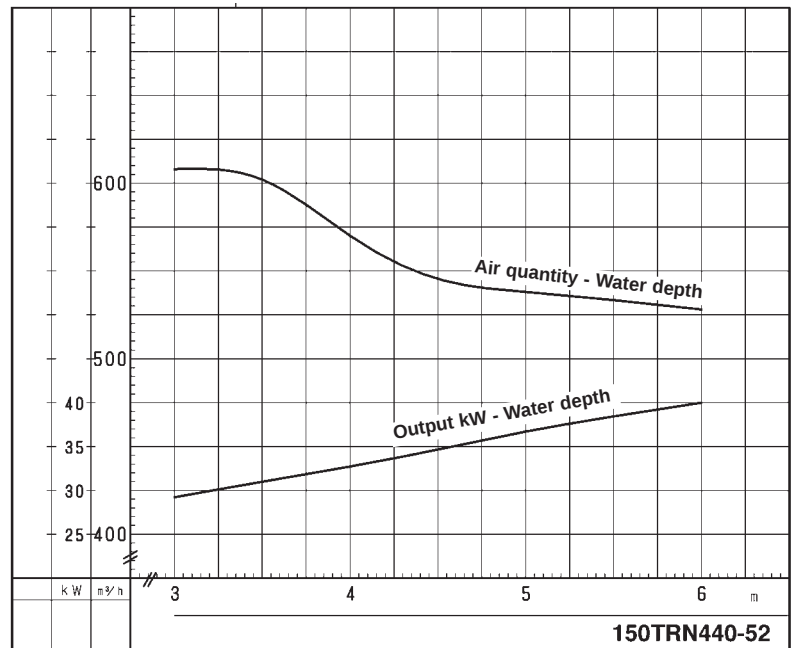
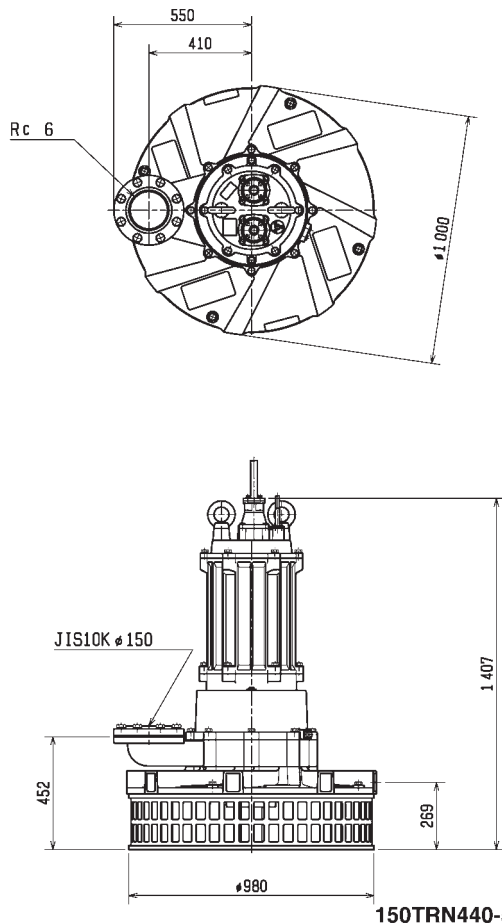


Data Sheet 150TRN440-52



Classification

Electric submersible aerator
Protection class IP68
Depth of submersion:
max. 6m (self-aspiring), max. 10m (with blower)
Open type impeller
Purpose: aeration of activated sludge
(municipal sewage only)

Electric Motor

Dry-type submersible induction motor,
Insulation class F, 4 poles, 1475 r.p.m.
Star-delta-start

Voltage:	400V, 50Hz, 3-phase
Power input:	47,0kW
Power output:	40,0kW
Nominal current:	83,0A
Start current:	529,0A

Electric Cable

20m H07RN-F 4Cx10mm²
20m H07RN-F 3Cx10mm²
20m 2PNCT 2Cx1,25mm²

Motor Protection

Miniature protector in motor windings
(snap-action bi-metal device)

Weight

635 kg (dry weight of the pump without cable)

Air inlet

150 mm screwed-in flange

Shaft Seal

Double mechanical seal in oil bath
additional lubrication by oil lifting device

Primary Seal:

silicon carbide on silicon carbide

Secondary Seal:

silicon carbide on silicon carbide

Bearings

Shielded ball bearings, maintenance-free

Materials

Impeller:	SCS1 (DIN 1.4008)
Suction Cover:	SCS1 (DIN 1.4008)
Middle Plate:	SCS1 (DIN 1.4008)
Guide vane:	FC200 (EN-GJL-200)
Air passage:	FC200 (EN-GJL-200)
Bearing housing:	FC200 (EN-GJL-200)
Shaft:	SUS420J1 (EN-X20Cr13)

Noise level

74 d-BA, under following conditions:
water depth: 6m

Silencer is set 1,6m above ground level. Microphone for measurement is placed at a distance of 1m from the silencer and 1,6m above ground level.

Lifting chain (not included)

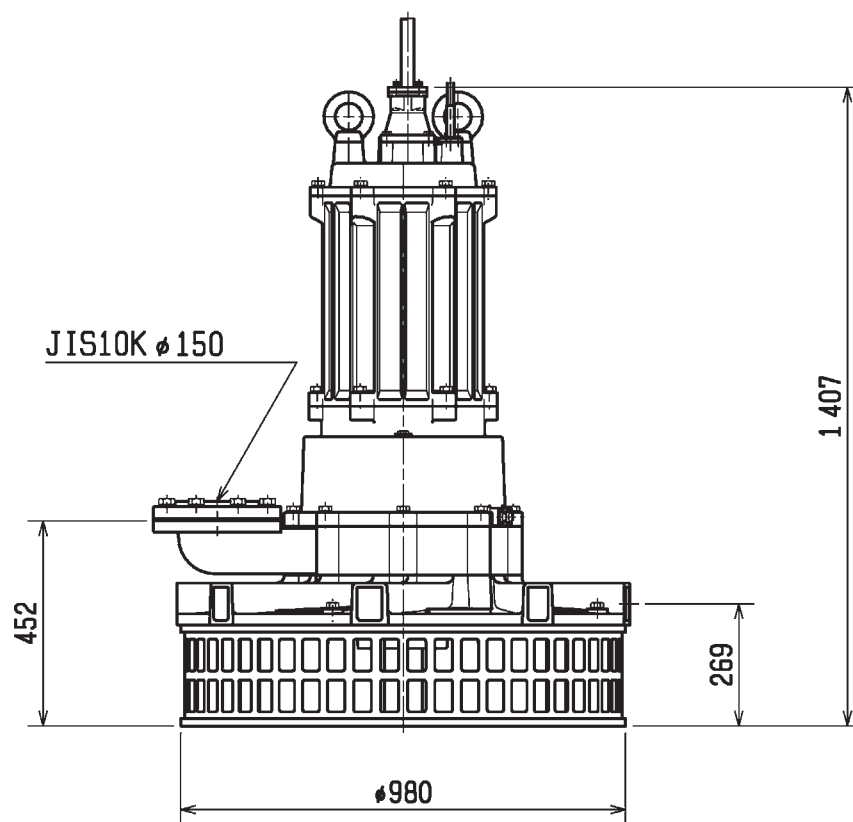
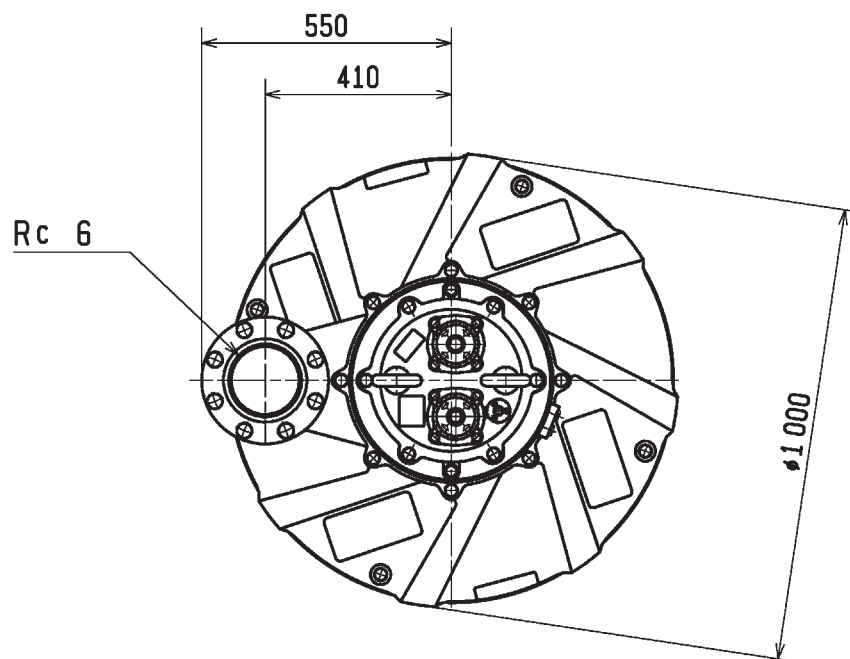
Straight chain Ø11mm (1140kg), shackle Ø16mm (900kg)
Sling chain Ø11mmx8Lx2 (1140kg), shackle Ø16mm (900kg)



Tsurumi Europe GmbH
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Heltorfer Str.14 • 40472 Düsseldorf • Germany
Tel.: +49-211-4179373 • Fax: +49-211-4791429
Sales@tsurumi-europe.com • www.Tsurumi-Europe.com

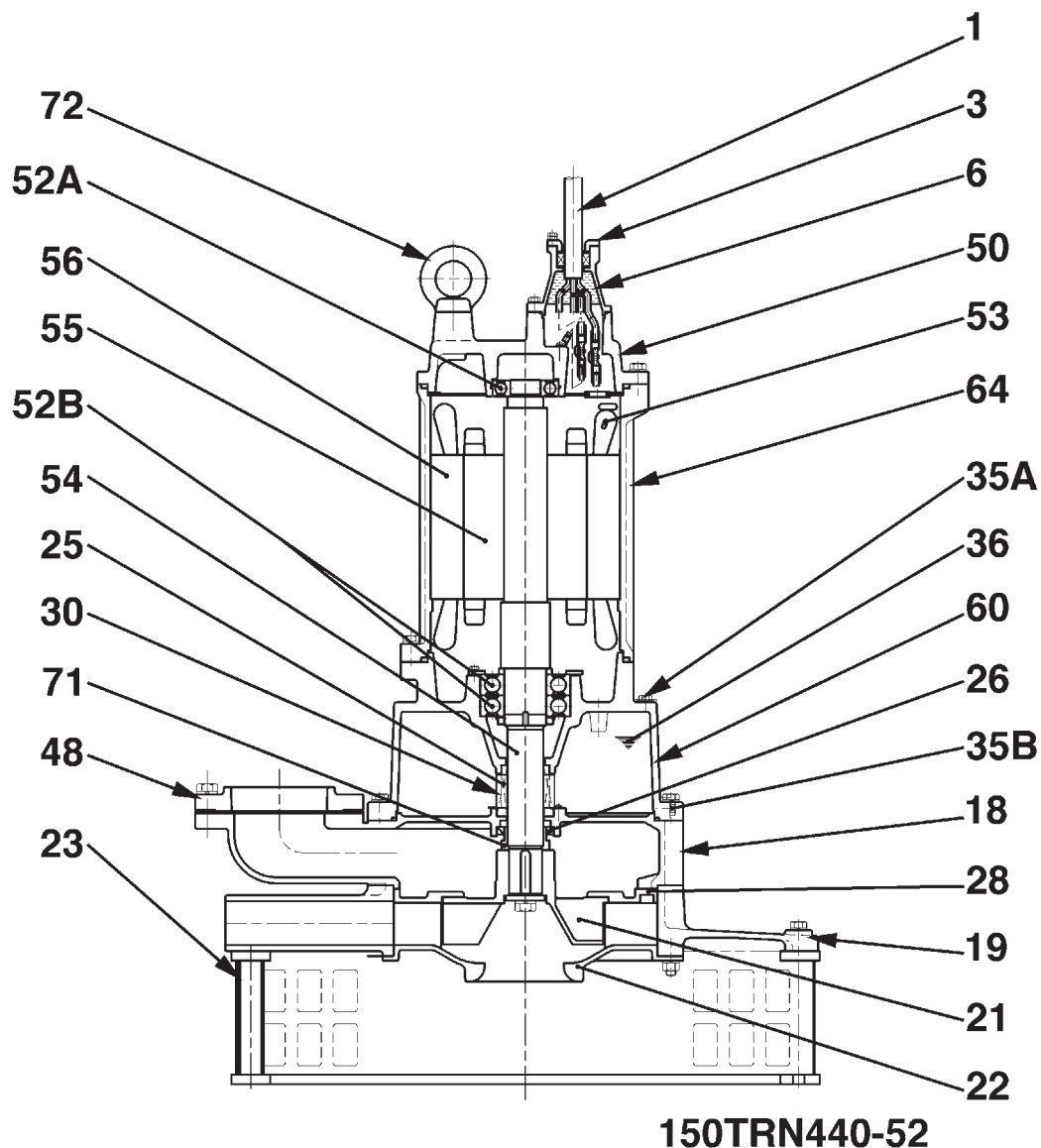
Dimensional Drawing 150TRN440-52



150TRN440-52

Sectional Drawing

150TRN440-52



No.	Description	Qty.	Remarks	No.	Description	Qty.	Remarks
1	Cabtyre Cable	3	H07RN-F	36	Lubricant		Turbine Oil (ISO VG32)
3	Gland	2	FC200 (EN-GJL-200)	48	Screwed Flange	1	FC200 (EN-GJL-200)
6	Stuffing Box	2	FC200 (EN-GJL-200)	50	Motor Bracket	1	FC200 (EN-GJL-200)
18	Air Passage	1	FC200 (EN-GJL-200)	52A	Upper Bearing	1	6310ZZC3
19	Guide Vane	1	FC200 (EN-GJL-200)	52B	Lower Bearing	1	6314ZZC3
21	Impeller	1	SCS1 (DIN GX12Cr14)	53	Motor Protector	3	
22	Suction Cover	1	SCS1 (DIN GX12Cr14)	54	Shaft	1	SUS420J21 (EN X20Cr13)
23	Strainer Stand	1	SS400 (DIN 1.0040) + SUS304 (EN X5CrNi18-10)	55	Rotor	1	
25	Mechanical Seal	1	H-60	56	Stator Complete	1	
26	Oil Seal	1	SC709513	60	Bearing Housing	1	FC200 (EN-GJL-200)
28	Middle Plate	1	SCS1 (DIN GX12Cr14)	64	Motor Frame	1	FC200 (EN-GJL-200)
30	Oil Lifter	1	Plastic	72	Lifting Eye Bolt	2	SUS304 (EN-X5CrNi18-10)
35A	Oil Plug	2	SUS304 (EN-X5CrNi18-10)				
35B	Oil Plug	2	SUS304 (EN-X5CrNi18-10)				

Aerator Performance Curve

150TRN440-52

Air Inlet Bore	150 mm
Air Quantity	528 Nm ³ /h
Water Depth	6,0 mAq
Max. Water Depth	6,0 mAq
Motor Output	40,0 kW
Motor Input	47,0 kW
Phase	3
Voltage	400 V
Frequency	50 Hz
Rated Current	83,0 A
Starting Current	529,0 A
Poles	4
Revolution	S.S. 1475 r.p.m.
Starting Method	star-delta
Insulation Class	F

