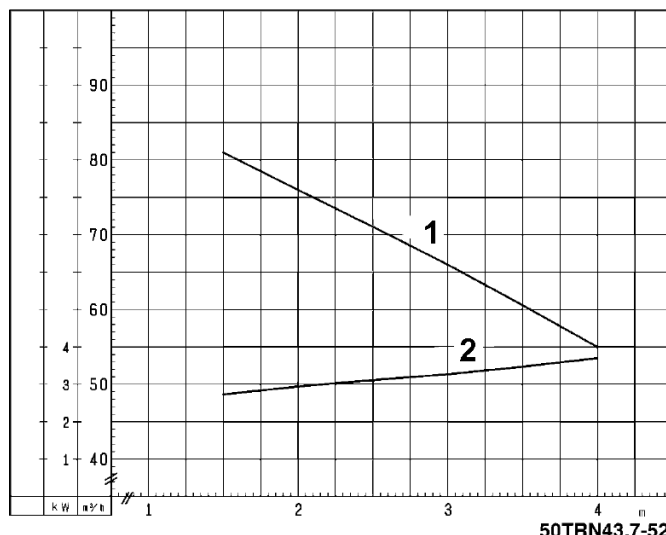
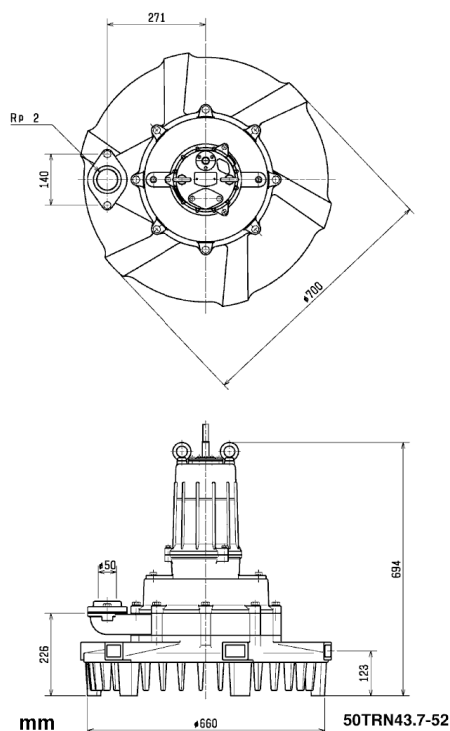


Data sheet 50TRN43.7-52



1 ... Air quantity - Water depth

2 ... Output kW - Water depth

Specification

Electric submersible aerator
Degree of protection IP 68
Depth of submersion max. 4m (self-aspiring)
Open type / closed type impeller
Free passage
aeration of activated sludge
(municipal sewage, food industry)

Electric motor

Dry-type submersible induction motor
Insulation class F, 4 poles, 1410 r.p.m.
Starting mode Direct on line start
Rated voltage 400V, 50Hz, 3-phase
Power uptake 3,70 kW
Rated power 5,10 kW
Rated current 8,6 A
Start current 49,0 A

Cable

10m H07RN-F 4Cx1,5mm²

Motor Protection

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

Weight

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

Air passage

50mm screwed-in mating flange

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	SCS1 (DIN 1.4008)
Suction cover	SCS1 (DIN 1.4008)
Middle Plate	SUS410 (EN-X10Cr13)
Guide vane	FC200 (EN-GJL-200)
Air passage	FC200 (EN-GJL-200)
Bearing Housing	FC150 (EN-GJL-150)
Shaft	Stainless steel SUS420J2

Noise level

70 d-BA under following conditions:
water depth 4,0 mAq

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 ø9mm (760kg), shackle ø10mm (400kg)
Sling chain ø9mmx7Lx2 (760kg), shackle ø10mm (400kg)



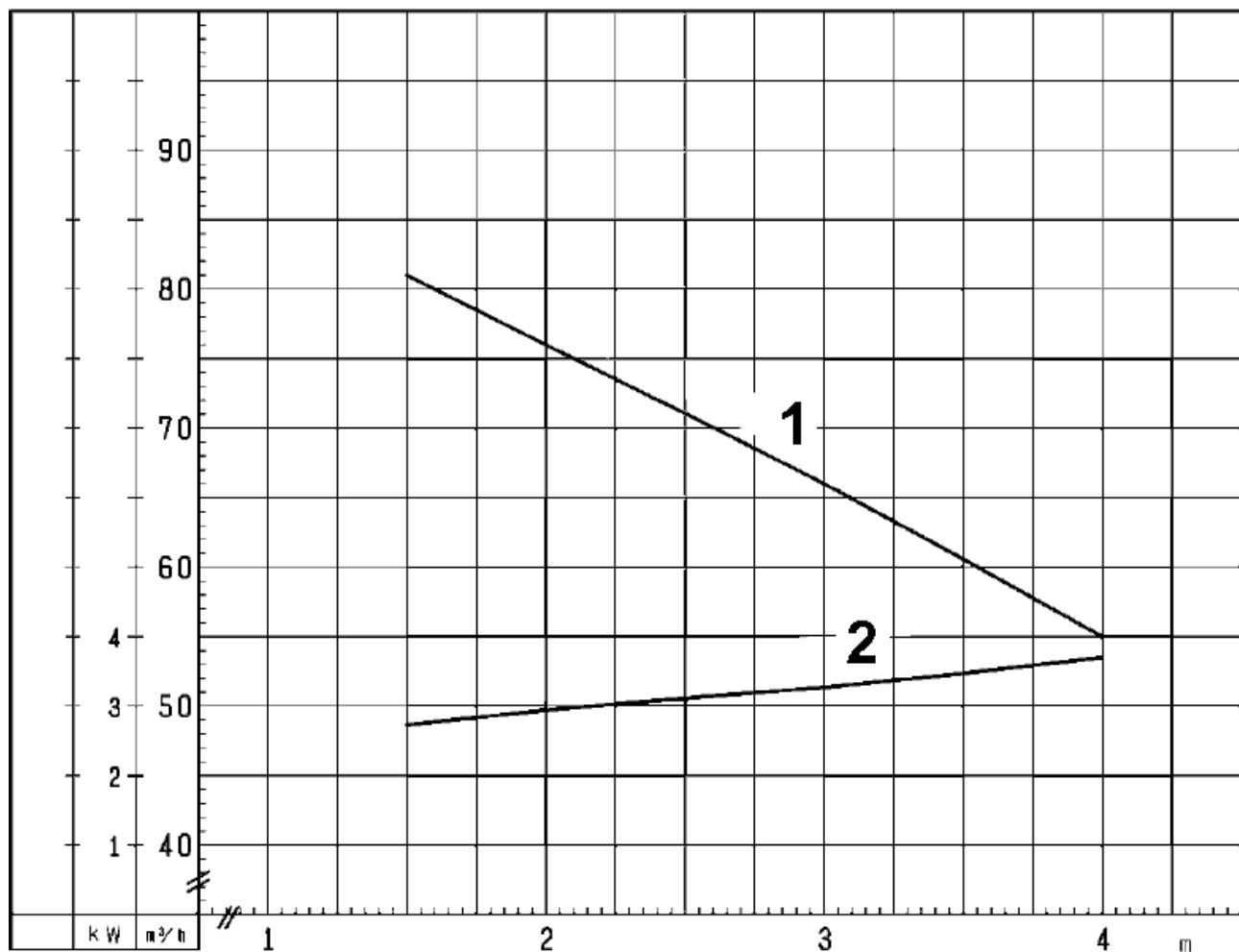
Tsurumi Europe GmbH
24.08.2011

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Performance curve

50TRN43.7-52

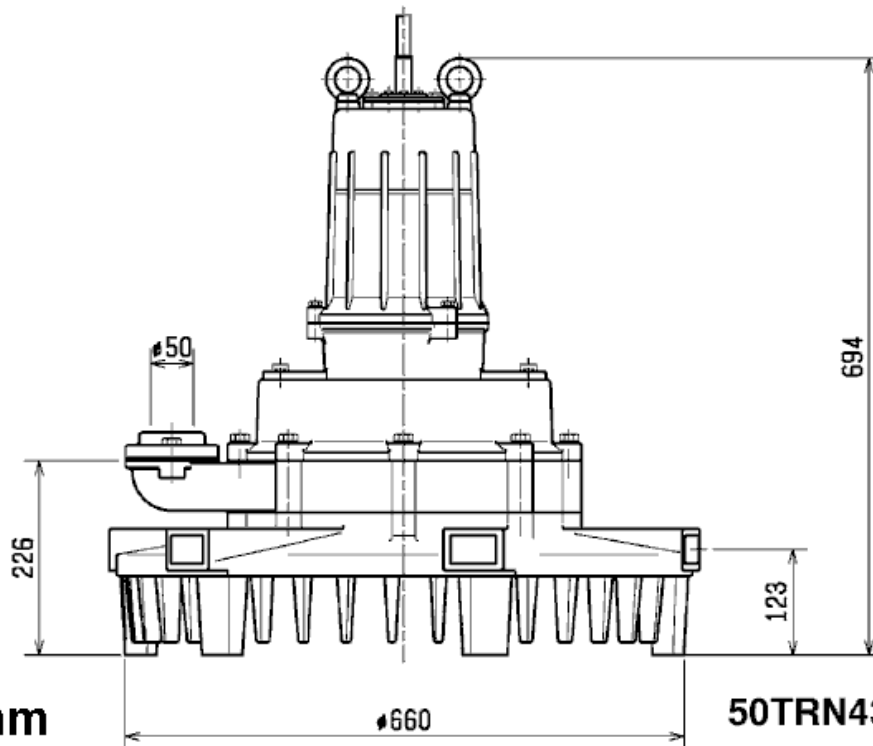
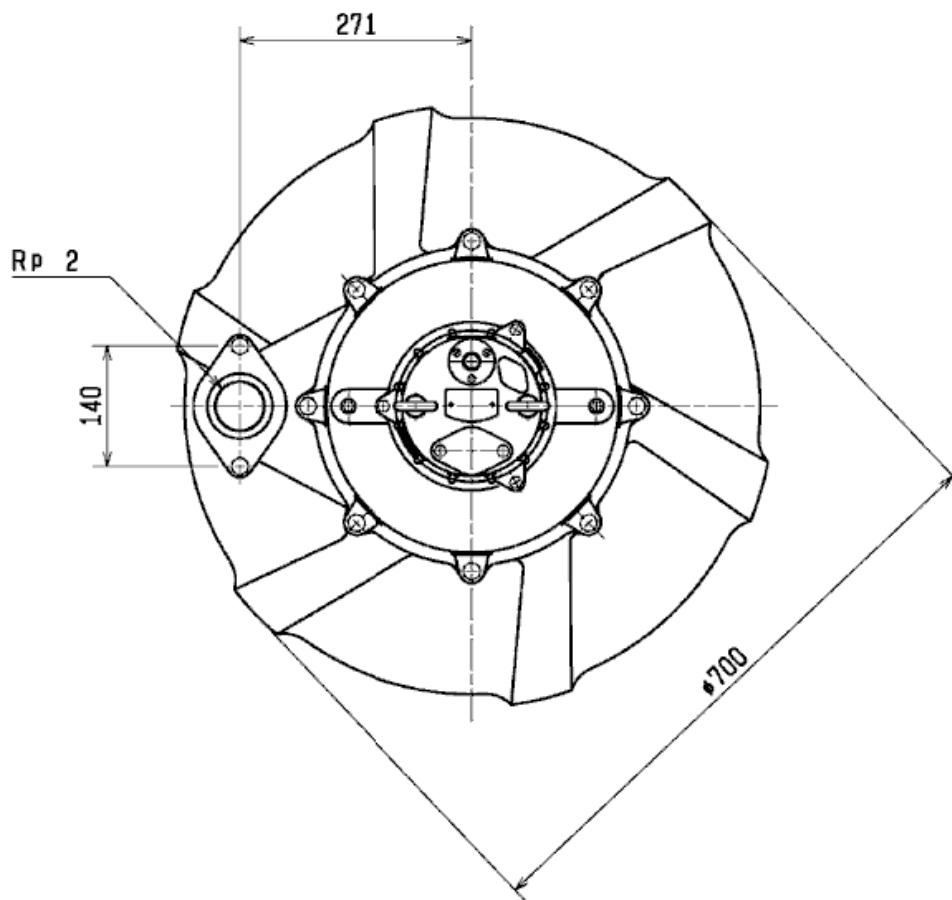
Air passage	2"
Air quantity	55,0 Nm³/h
water depth	4,0 mAq
max. water depth	4,0 mAq
Rated power	3,70 kW
Power input	5,10 kW
Phases	3
Voltages	400 V
Frequency	50 Hz
Rated current	8,6 A
Starting current	49,0 A
Number of poles	4
Speed	1410 U/min
Starting mode	Direct on line start
Insulation class	F



50TRN43.7-52

Dimensions

50TRN43.7-52



mm

50TRN43.7-52

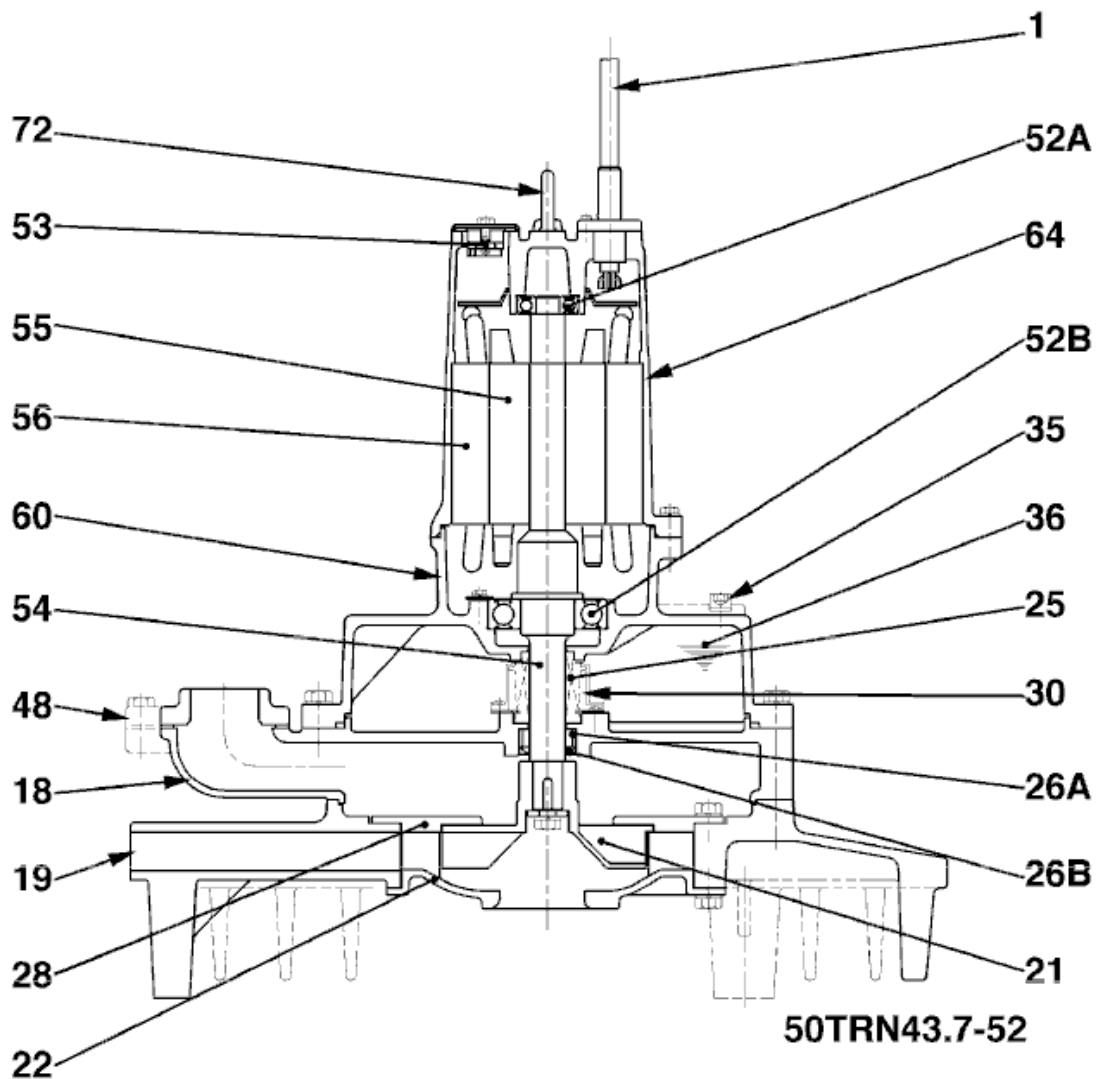
CWL: Continuous running water level
LWL: Lowest running water level

 **TSURUMI PUMP**

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Sectional drawing 50TRN43.7-52



No.	Denomination	Remark	No.	Denomination	Remark
1	Connection cable	H07RN-F	54	Shaft	Stainless steel SUS420J2
18	Air passage	FC200 (EN-GJL-200)	55	Rotor	.
19	Guide vane	FC200 (EN-GJL-200)	56	Stator	.
21	Impeller	SCS1 (DIN 1.4008)	60	Bearing Housing	FC150 (EN-GJL-150)
22	Suction cover	SCS1 (DIN 1.4008)	64	Motor Frame	FC150 (EN-GJL-150)
25	Mechanical seal	H-30A	72	Eye screw (2x)	Stainless steel SUS304
26A	Distance piece	Carbon steel pipe			
26B	Oil seal	VC30486			
28	Middle Plate	SUS410 (EN-X10Cr13)			
30	Oil distributor	Plastic			
35	Oil screw (2x)	Stainless steel SUS304			
36	Lubricant	Turbine oil (ISO VG32)			
48	Screwed Flange	FC200 (EN-GJL-200)			
52A	Upper bearing	6304ZZC3			
52B	Lower bearing	6309ZZC3			
53	Motor Protector	.			