


Pump specifications:

Type.....4TBA82D135
 Max. flow 135 m³/hour (594 US GPM)
 Max. pressure..... 18 mwc (60 ft.)
 Connections..... DN 100 (4")
 Solids handling 82 mm (3,23")
 Impeller type Channel impeller
 Priming system MP50
 Engine Hatz 1D81Z es
 Canopy M10-19
 Weight (net) 1100 kg (2420 lb.)
 Sound level.....52 dB(A) at 10 m

FEATURES
TBA auto prime pump

The TBA range of pumps have been designed with a clear focus on reliability, efficiency and durability. Featuring a 100% mechanical priming system, the TBA series pumps quickly prime and re-prime, even from dry conditions. The heavy build style of both pump and canopy make the TBA range perfect for use in the strenuous contractor market.

World-class performance

The TBA range is built to be deployed on the most demanding dewatering and sewage bypassing applications. Using high efficiency pumps and state-of-the-art diesel engines, the pumps offer maximum performance at minimal cost, fully in-sync with the company philosophy of "Lowest cost of ownership".

Sustainability

- High efficiency pumps minimising fuel consumption
- Emissions in accordance with EU stage & US EPA Tier regulations
- Corrosion free hot dip galvanised canopy
- Corrosion free composite door panels and powder coated plating
- 100% Oil-spill free priming system
- Fully banded unit eliminating fuel/oil spills at all times

Complete package designed & built by Tsurumi

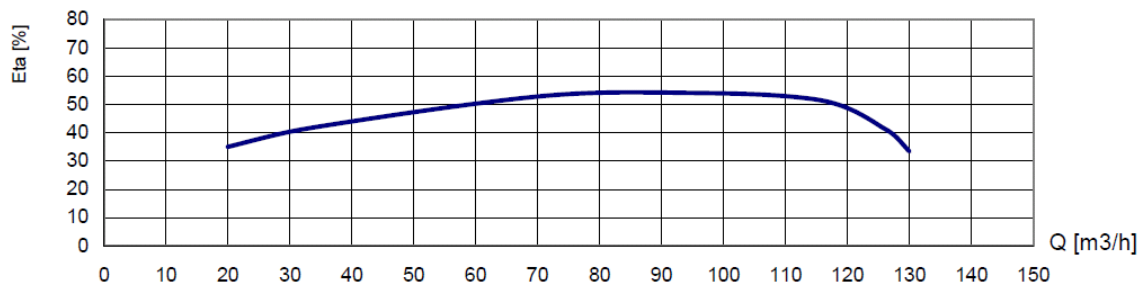
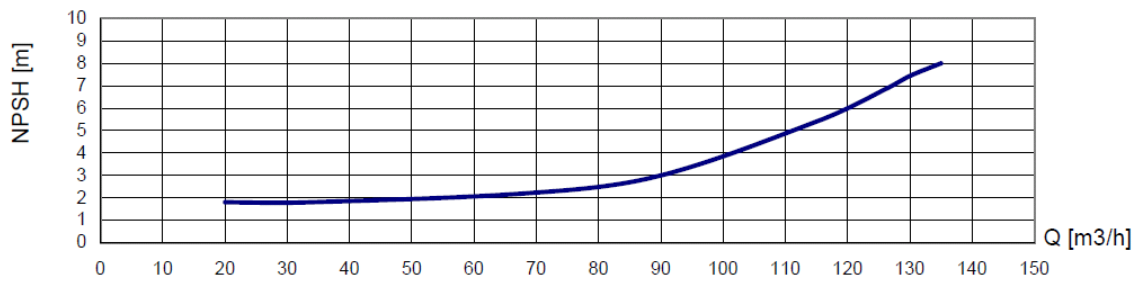
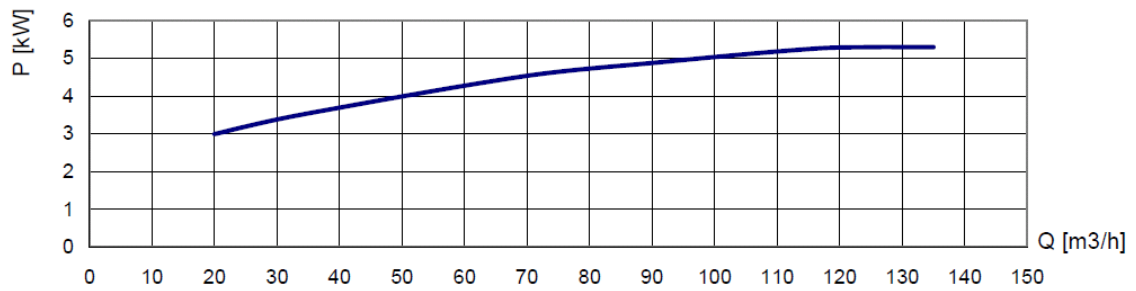
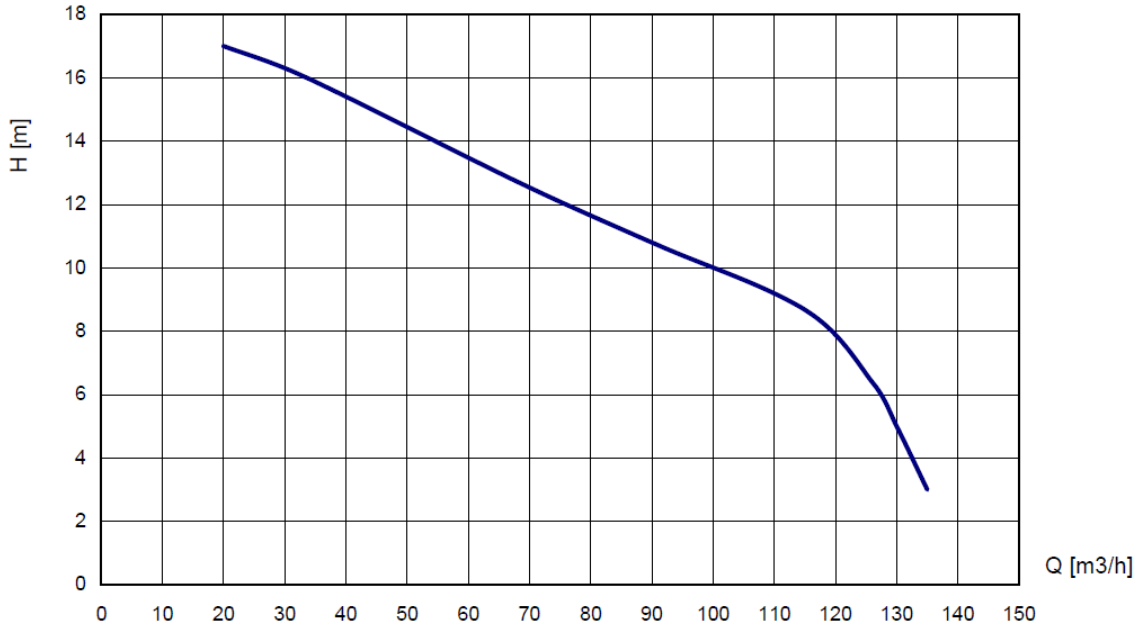
- Complete in-house design & production
- Extensive testing facility in-house
- Contemporary & functional design
- Durable & eco-friendly materials
- Custom builds available

After sales service & product support

- Single supplier for parts, spares & accessories
- Dedicated service department in-house
- Extensive training options available

PERFORMANCE CURVES (1500 RPM)

Continuous duty according ISO 9906



STANDARD TECHNICAL SPECIFICATIONS

Auto prime pump

Pump type..... TBA100K D193
 Max. flow..... 135 m³/hour (594 US GPM)
 Max. head..... 18 mwc (60 feet)
 Impeller type..... Channel impeller
 Solids handling..... 82 mm (3.23 inch)
 Pump casing..... Cast iron GG20
 Impeller..... Ductile iron GGG40
 Pump shaft..... C45
 Shaft seal..... Mechanical seal 35mm (1.38 inch)
 Seal faces..... Sic/Sic
 O-ring..... Viton



Priming system

Pump type..... MP50 Diaphragm pump
 Air handling capacity..... 50 m³/h (30 CFM)
 Max. vacuum..... 8.5 m (29 inHg)
 Drive..... Toothed belt (continuous drive)
 Float box..... Aluminium
 Non return valve..... Ball valve GG25



Engine

Engine brand..... Hatz
 Engine type..... 1D81Z
 Flywheel power..... 5 kW (6.8 Hp)
 Max. engine speed..... 1500 RPM
 Fuel consumption..... 245 g/kWh
 Displacement..... 0,667 l
 Number of cylinders..... 1
 Cooling system..... Air cooled
 Exhaust emission EU..... Not applicable
 Exhaust emission US..... Tier 4



Control panel LC04

- Auto start/stop system
- Two float switches included (10m cable)
- Switch Manual-0-Auto
- Hour counter
- Warning light "oil temperature"
- Warning light "alternator"

Fuel system

- Steel fuel tank 220 L. net (59 US Gallon)
- Fuel tank cap Ø 60 mm (2.5 inch)
- Fuel gauge on tank
- Mechanical fuel injection system
- Fitted with water separator & extra in-line fuel filter

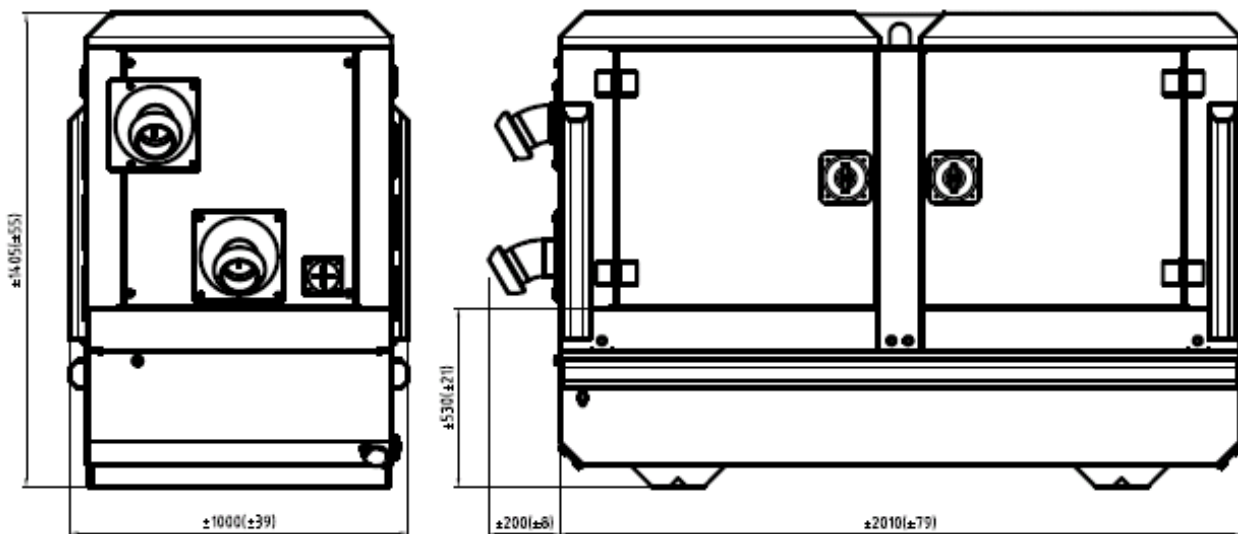
Electrical system & safety features

- Nominal voltage 12 Volt
- Premium quality battery 72 amp.
- Low oil pressure shut down

CANOPY M10-19

Sound attenuating canopy

Canopy type.....	M10-19
Dimensions L x W x H	2010 x 1000 x 1405 mm
Dimensions L x W x H	75 x 39.4 x 55 inch
Basic frame	Hot dip galvanised
Panels	zinc plated panels
Doors	4 Easy-access doors (lockable)
Fuel tank	Steel net 220 ltr (59 US Gallon)
Fuel tank autonomy	140 hours (at 1500 rpm BEP)
Fuel tank cap	60 mm (2.5 inch)
Lifting point	Fitted with single lifting point
Oil drain pump	Drain pump for motor oil installed (hand pump)
Connections	Please consult "auxiliary items" in overleaf
Exhaust system	Fully integrated in canopy
Additional	Fitted with oil-water separator



Actual dimensions (in mm & inches) may vary depending on selected quick couplings.



Channel impeller
GGG40 channel impeller,
ductile iron, solids handling
82 mm.



Protection bars
For a durable look and
long lifetime.



Easy inspection
Oil glasses, drain valves and
fill plugs are all easily
accessible.



Auto-start control panel
The auto-start control
panel saves fuel and
running hours.



Safety
Extremely durable and
lockable T-locks offering
perfect grip.



Stainless steel hinges
Heavy-duty stainless steel
hinges with lubrication
point.




Interchangeable parts.
Modular construction to
ensure minimal spare part
stock levels.




User manual
Extensive user manual
with important information
concerning the pump unit,
pump installation and
safety warnings.

Pictures used are for illustration purposes only.


AUXILIARY ITEMS
Discharge connections

Art.nr.		Ø inch	Ø mm	Connection	
1516604191	30°	4	100	Flange DIN	
1516604193	30°	4	100	Flange ANSI	
1174186058	30°	4	100	BSP	
1174186069	30° male (ball)	4	100	System C	
1174186071	30° female (cup)	4	100	System B	
1174186072	30° male (ball/lever)	4	100	System B	


Suction connections

Art.nr.		Ø inch	Ø mm	Connection	
1516604190	30°	4	100	Flange DIN	
1516604192	30°	4	100	Flange ANSI	
1016140164	30°	4	100	BSP	
1016140162	30° male (ball)	4	100	System C	
1016140163	30° female (cup)	4	100	System B	


Suction hose with strainer L= 4 meter

Art.nr.	Ø inch	Ø mm	connection	
07047110	4	100	Flange DIN	
07047001	4	100	System B male (ball/lever)	
07048170	4	100	System C female (cup/lever)	

Suction hose with strainer L= 5 meter

Art.nr.	Ø inch	Ø mm	connection	
07047111	4	100	Flange DIN	
07047002	4	100	System B male (ball/lever)	
07047032	4	100	System C female (cup/lever)	

Suction hose with strainer L= 6 meter

Art.nr.	Ø inch	Ø mm	connection	
07047112	4	100	Flange DIN	
07047003	4	100	System B male (ball/lever)	
07047033	4	100	System C female (cup/lever)	

We reserve the right to change specifications and designs herein for improvement without prior notice. Our pumps are for professional use only. In the event that Tsurumi (Europe) GmbH have, in exceptional cases taken over, a manufacturer's warranty, this entitles the enduser to assert remedy free of charge against Tsurumi (Europe) GmbH due to any defect to the product occurring during the guarantee period (see below), also then when the warranty claims against the seller do not or no longer exist. In the event of malfunction, which is attributable to the improper handling by the enduser, no guarantee claim shall arise. Further claims shall not result from the warranty, unless if something to the contrary has explicitly been determined. The decision as to whether remedy is effected by way of replacement or repair shall be at the choice of Tsurumi (Europe) GmbH. The claims shall be time barred after a period of three months after expiry of the guarantee period, however, not before expiry of the warranty period which is valid towards the seller. In the event of doubt, the warranty period shall correspond with the warranty period which is valid between the end-user and his seller.

Please refer to our general conditions of supply www.tsurumi.eu/english/gcs.htm

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