

**Pump specifications:**

Type.....6TBA80D475
Max. flow475 m³/hour (2091 US GPM)
Max. pressure37 mwc (124 ft.)
Connections..... DN 150 (6")
Solids handling 80 mm (3,15")
Impeller type Semi-open impeller
Priming system MP50
Engine Perkins 404D-22T
Canopy M10-23
Weight (net) 1600 kg (3527 lb)
Sound level.....61 dB(A) at 10m

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

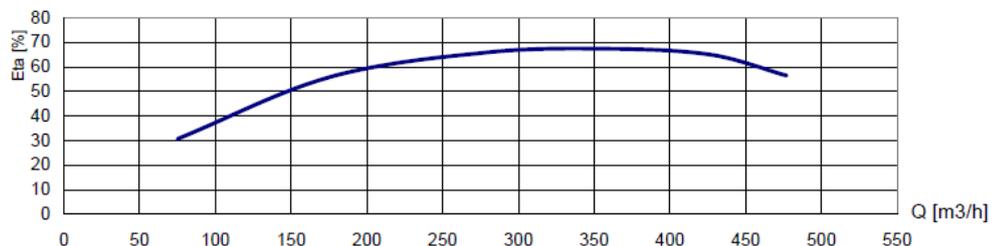
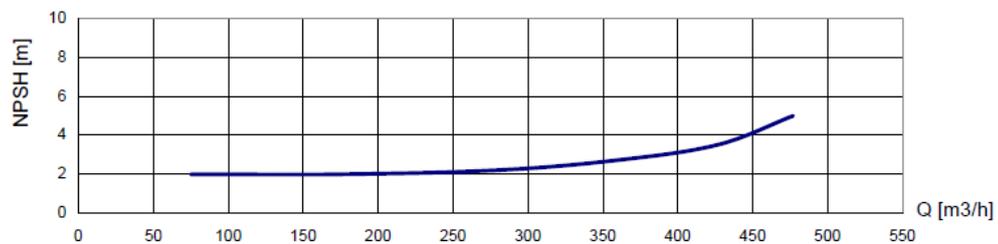
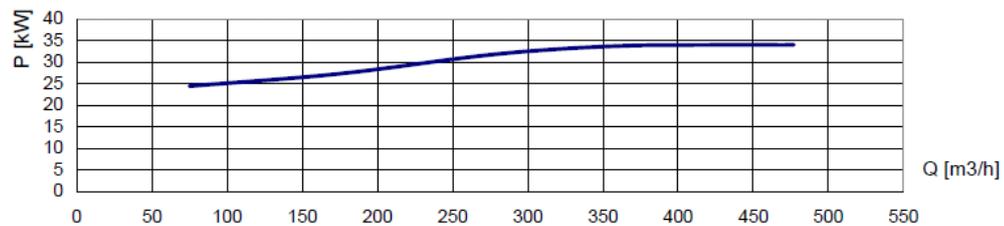
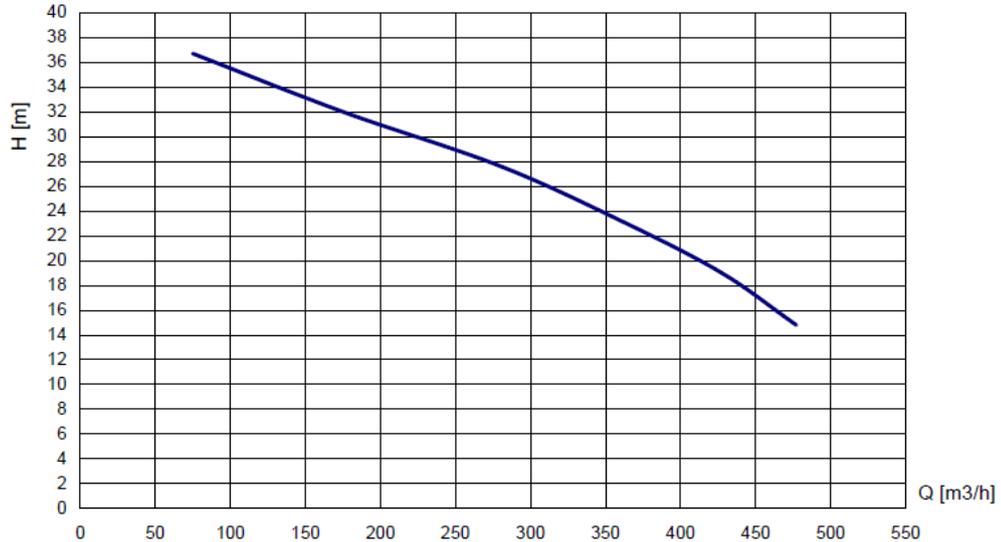
- Complete in-house design & production
- Extensive testing facility in-house
- Contemporary & functional design
- Durable & eco-friendly materials
- Custom builds available

After sales service & product support

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

PERFORMANCE CURVES (1800 RPM)

Continuous duty according ISO 9906



Engine speed rpm		Capacity Q in m ³ /h				Fuel consumption (BEP) l/h
		150	250	350	450	
1800	H mwc	33	29	24	17	10
1700		29	25	20	14	8
1600		25	21	16	10	7
1500		22	18	13	6	6

STANDARD TECHNICAL SPECIFICATIONS

Auto prime pump

Pump type..... TBA150E D285
 Max. flow..... 475 m³/hour (2090 US GPM)
 Max. head..... 37 mwc (125 feet)
 Impeller type..... Semi open impeller
 Solids handling..... 80 mm (3.15 inch)
 Pump casing..... Cast iron GG20
 Impeller..... Chrome Moly 42CrM04
 Wear plate..... Chrome Moly 42CrM04
 Pump shaft..... C45
 Shaft seal..... Mechanical seal 60mm (2.36 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..... St 37 hot dip galv.
 Non return valve..... Cast iron GG25
 Check valve disc..... Buna-N



Engine

Engine brand..... Perkins
 Engine type..... 404D-22T
 Flywheel power..... 37 kW (50 Hp)
 Max. engine speed..... 1500 – 1800 RPM
 Fuel consumption..... 237 g/kWh
 Displacement..... 2.2 l
 Number of cylinders..... 4
 Cooling system..... Water cooled
 Exhaust emission EU..... Stage IIIB
 Exhaust emission US..... Tier 4i

Control panel LC06

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



Fuel system

- PE fuel tank 300 L. net (80 US Gallon)
- Fuel tank cap Ø 100 mm
- 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 92 amp.
- Low oil pressure shut down
- High temperature shut down

CANOPY M10-23

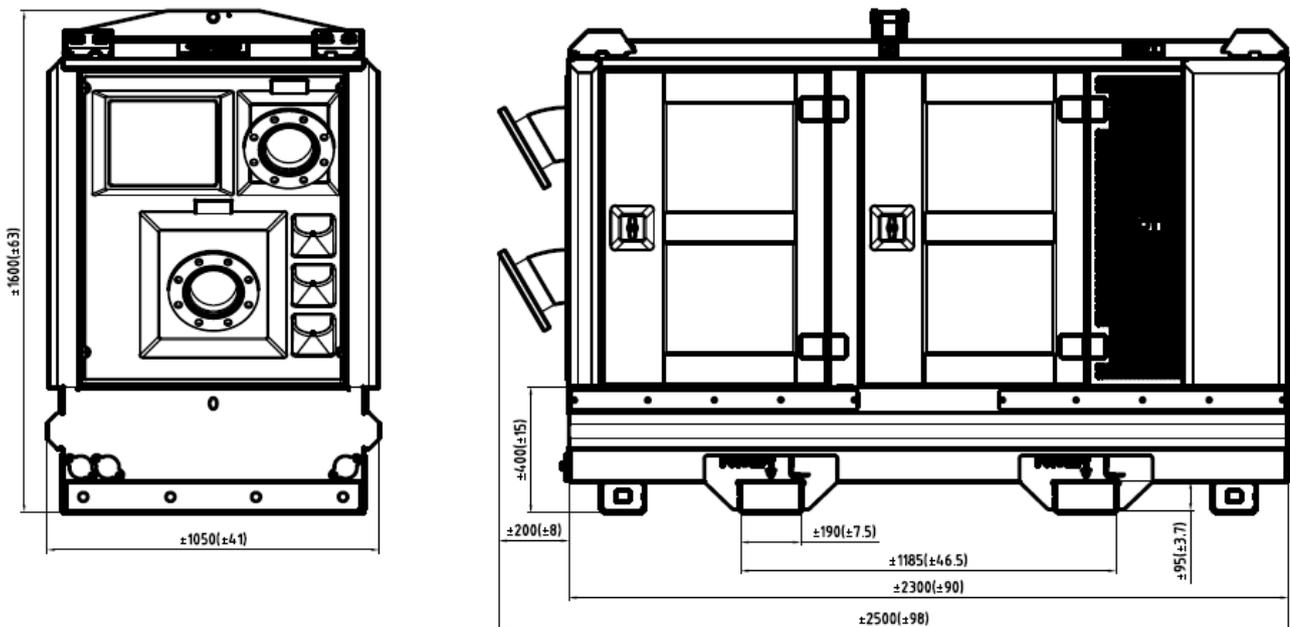
Sound attenuating canopy

Canopy type.....	M10-23
Dimensions L x W x H	2270 x 1050 x 1533 mm
Dimensions L x W x H	89.4 x 41.3 x 60.4 inch
Basic frame	Hot dip galvanised
Panels	ABS/ASA
Doors	4 Easy-access doors (lockable)
Fuel tank	PE net 300 ltr (80 US Gallon)
Fuel tank autonomy	30 hours (at 1800 rpm BEP)
Fuel tank cap	100mm (4 inch)
Forklift pockets	Fitted with 2 forklift pockets
Lifting point	Fitted with single lifting point
Stackable	Canopy is stackable
Oil drain pump	Please consult "auxiliary items" in overleaf
Connections.....	Please consult "auxiliary items" in overleaf
Exhaust system	Fully integrated in canopy
Radiator box	Fitted with quick release system for easy cleaning
Additional	Fitted with oil-water separator



E-lift[®] system

The M10-23 canopy has been fitted with the E-lift[®] system. By removing the roof panel, the pump and diesel engine as a whole can be removed from the canopy effortlessly allowing easy preventative maintenance on the pump and diesel engine. In addition, as the canopy is not fitted with padding or insulation materials, it can be cleaned quickly using a pressure washer.



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



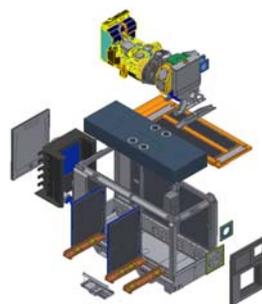
Semi-open impeller
Corrosion and abrasion resistant Chrome Moly (42CrM04) alloy.



Fuel tank
Fully bunded, corrosion-free, 300 liter, high-density polyethylene (HDPE) fuel tank, located in base of canopy.



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



Speedy servicing
By removing the roof panel, the pump and diesel engine as a whole can be removed from the canopy effortlessly allowing easy preventative maintenance on the pump and diesel engine.



Large inspection covers
Easy access to float box, impeller and non-return valve.



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



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



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
M10-23 Kit

93050002	M10-23 Kit	
	- K0 Oil drain pump	
	- External fuel tank connections	
	- Battery kill switch	

Discharge connections

Art.nr.		Ø inch	Ø mm	Connection	
05080873	30°	6	150	Flange K240	
1516604209	30°	8	200	Flange K295	
05080876	30° female (cup)	6	150	system B	
05080881	30° male (ball/lever)	6	150	system B	
05080877	30° male (ball)	6	150	system C	
05080882	30° female (cup/lever)	6	150	system C	

Suction connections

Art.nr.		Ø inch	Ø mm	Connection	
05080884	30°	6	150	Flange K240	
1516604208	30°	8	200	Flange K295	
05080889	30° female (cup)	6	150	System B	
05080890	30° male (ball/lever)	6	150	System B	
05080887	30° male (ball)	6	150	System C	
05080888	30° female (cup/lever)	6	150	System C	

Suction hose with strainer L=5 metre

Art.nr.	Ø inch	Ø mm	connection	
07047054	6	150	Flange K240	
07047057	8	200	Flange K295	
07047007	6	150	System B male (ball/lever)	
07047037	6	150	System C female (cup/lever)	

Suction hose with strainer L=6 metre

Art.nr.	Ø inch	Ø mm	connection	
07047055	6	150	Flange K240	
07047058	8	200	Flange K295	
07047008	6	150	System B male (ball/lever)	
07047038	6	150	System C female (cup/lever)	

Recommended suction pipe (maximum velocity = 4 m/sec)

M3/H	US gallons	FLOW (L/sec)	4" 100	5" 125	6" 150	8" 200	10" 250	12" 300
252	1110	70	8.91	5.70	3.96	2.23	1.43	0.99
288	1268	80	10.19	6.52	4.53	2.55	1.63	1.13
324	1427	90	11.46	7.33	5.09	2.86	1.83	1.27
360	1585	100	12.73	8.15	5.66	3.18	2.04	1.41
403	1775	112	14.26	9.13	6.34	3.57	2.28	1.58
432	1902	120	15.28	9.78	6.79	3.82	2.44	1.70
468	2061	130	16.55	10.59	7.36	4.14	2.65	1.84
504	2219	140	17.83	11.41	7.92	4.46	2.85	1.98

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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