

BA80H Diesel Driven High Head Clear Liquid Pump Max. 130 m³/hour, Max. 90 mwc



Pump specifications:

Type.....	BA80H D275
Max. flow	130 m ³ /hour max (572 US GPM)
Max. pressure	90 mwc (301 ft.)
Connections.....	Discharge DN 80 (3")
Connections.....	Suction DN 150 (6")
Solids handling	25 mm (1")
Impeller type	Closed impeller
Priming system	BBA MP50
Engine	Perkins 404D-22T
Canopy	M10-23
Weight (net)	1600 kg (3527 lb.)
Sound level.....	73 dB(A) at 10m

FEATURES

BA auto prime pump

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

World-class performance

The BA 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 bunded unit eliminating fuel/oil spills at all times

Complete package designed & built by BBA Pumps

- Complete in-house design & production
- Over 60 years of experience in the market
- Extensive testing facility in-house
- Contemporary & functional design
- Durable & eco-friendly materials
- Custom builds available

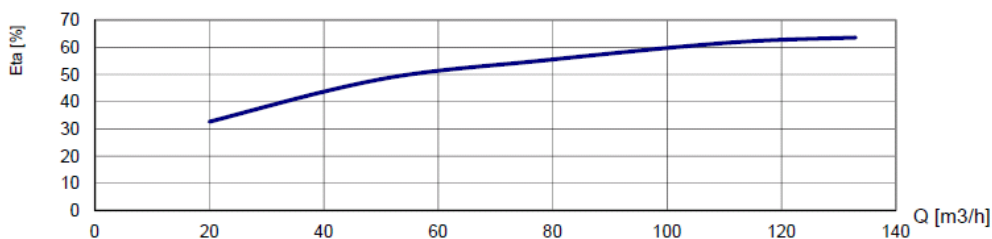
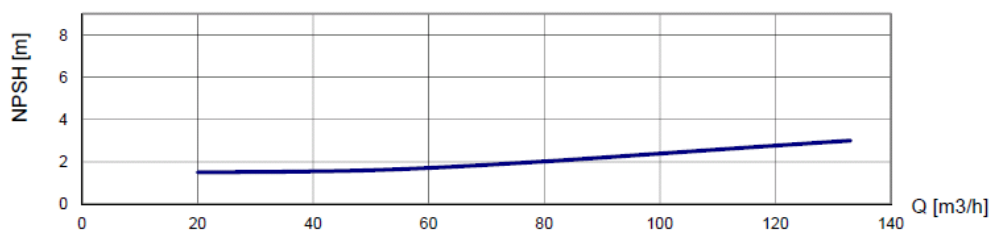
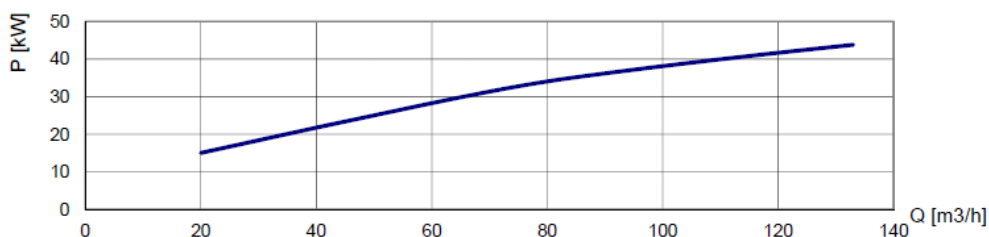
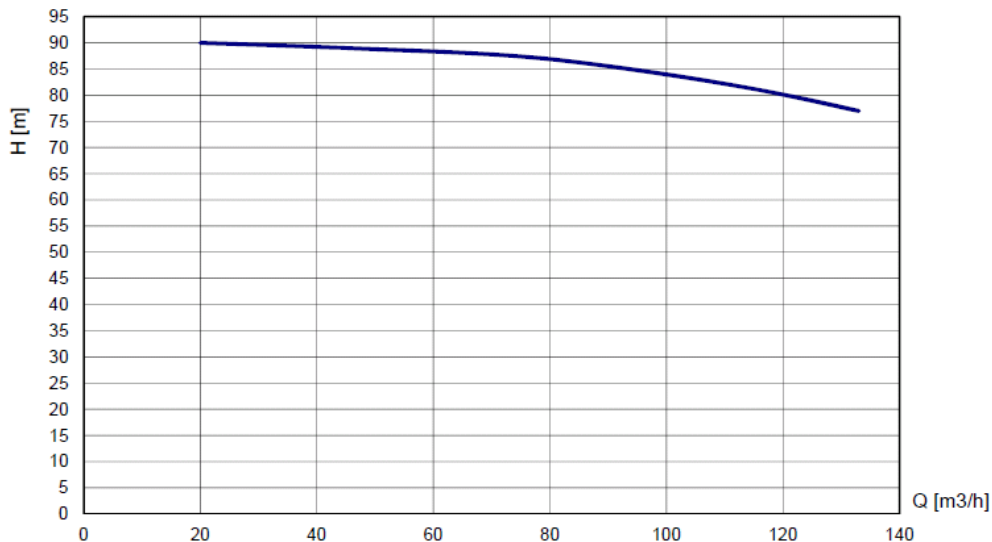
After sales service & product support

- Single supplier for parts, spares & accessories
- Dedicated customer help-desk (24h service)
- Dedicated service department in-house
- Global parts distribution network
- Optional global on-site servicing
- Extensive training options available (technical & commercial), on-site or in-house



PERFORMANCE CURVES (2800 RPM)

Continuous duty according ISO 9906



Engine speed rpm		Capacity Q in m ³ /h				Fuel consumption (BEP) l/h
		50	75	100	125	
2800	H mwc	88	87	84	78	14
2400		64	63	61	57	8
2000		44	43	41	38	5
1600		28	27	26	24	3

STANDARD TECHNICAL SPECIFICATIONS

BBA auto prime pump

Pump type.....	BA80H D275
Max. flow.....	130 m ³ /hour (572 US GPM)
Max. head.....	90 mwc (301 feet)
Impeller type.....	Closed impeller
Solids handling.....	25 mm (1 inch)
Pump casing.....	Cast iron GG20
Impeller.....	Ductile iron GGG40
Wear ring.....	Cast iron GG20
Pump shaft.....	Stainless steel 316
Shaft seal.....	Mechanical seal 40 mm (1.57 inch)
Seal faces.....	Tung/Sic
Seal rubbers.....	Viton



BBA priming system

Pump type.....	BBA MP50 Diaphragm pump
Air handling capacity.....	50 m ³ /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.....	44 kW (60 Hp)
Max. engine speed.....	800 – 2800 RPM
Fuel consumption.....	265 g/kWh
Displacement.....	2.2 l
Number of cylinders.....	4
Cooling system.....	Water cooled
Exhaust emission EU.....	Stage IIIA
Exhaust emission US.....	Tier 4i

BBA dashboard LC20

- Auto start/stop system
- Two float switches included (10m cable)
- Switch Manual-0-Auto
- Tachometer
- Hour counter
- Warning lights "oil and engine temperature"
- Warning light "auto stand-by"



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

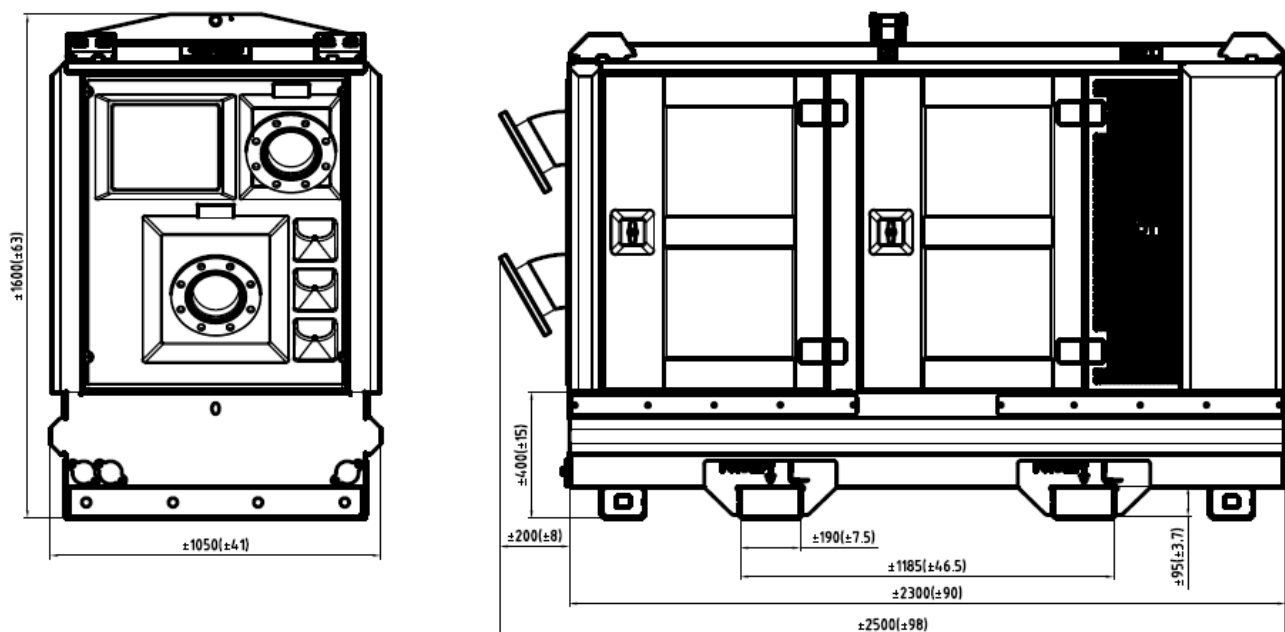
BBA sound attenuating canopy

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	20 hours (at 2800 rpm BEP)
Fuel tank cap	100 mm (4 inch)
Forklift pockets	Fitted with 2 forklift pockets
Lifting point	Fitted with single lifting point
Stackable	Canopy is stackable
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



BBA E-lift® system

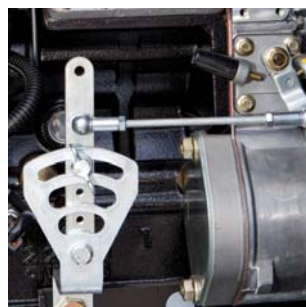
The M10-23 canopy has been fitted with the BBA E-lift® system. By removing the roof panel, the pump and diesel engine as a whole can be removed from the canopy effortlessly allowing easy preventative maintenance on the pump and diesel engine. In addition, as the canopy is not fitted with padding or insulation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



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



Closed impeller
Ductile iron GGG40
abrasion resistant, free
passage 25mm.



Speed control
For easy switch between
stationary and full throttle.



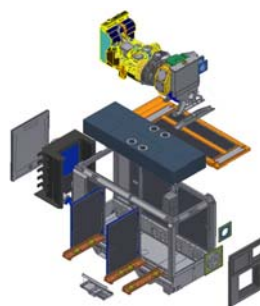
Easy inspection
Oil glasses, drain valves and
fill plugs are all easily
accessible.



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



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



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.

E-lift



4 Year limited warranty
The BBA limited warranty
covers years or operating
hours whichever occurs first.
For more details please
consult the BBA warranty
book.



User Manual BA series
Extensive user manual with
important information
concerning the pump unit,
pump installation and safety
warnings. Available in several
languages.

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	
05080904	30° flange	4	100	Flange DIN	
05080869	30° male (ball/lever)	3	75	System B	
05080908	30°	3	75	Outer thread	

Suction connections

Art.nr.		Ø inch	Ø mm	Connection	
05080884	30°	6	150	Flange K240	
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	
07047072	6	150	Flange K240	
07047023	6	150	System B male (ball/lever)	
07047077	6	150	System C female (cup/lever)	

Suction hose with strainer L=6 metre

Art.nr.	Ø inch	Ø mm	Connection	
07047073	6	150	Flange K240	
07047024	6	150	System B male (ball/lever)	
07047078	6	150	System C female (cup/lever)	