

## BA150E Diesel Driven Dewatering and Sewage Pump Max. 475 m<sup>3</sup>/hour, Max. 37 mwc



### Pump specifications:

Type.....	BA150E D285
Max. flow .....	475 m <sup>3</sup> /hour (2091 US GPM)
Max. pressure .....	37 mwc (124 ft.)
Connections.....	DN 150 (6")
Solids handling .....	80 mm (3,15")
Impeller type .....	Semi-open impeller
Priming system .....	BBA MP50
Engine .....	Perkins 404D-22T
Canopy .....	M10-23
Weight (net) .....	1600 kg (3527 lb)
Sound level.....	61 dB(A) at 10 m

## 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

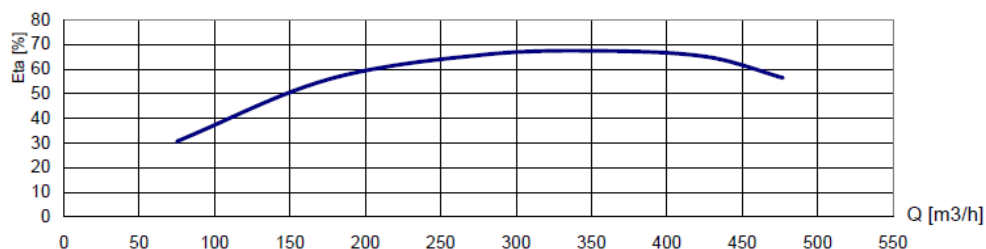
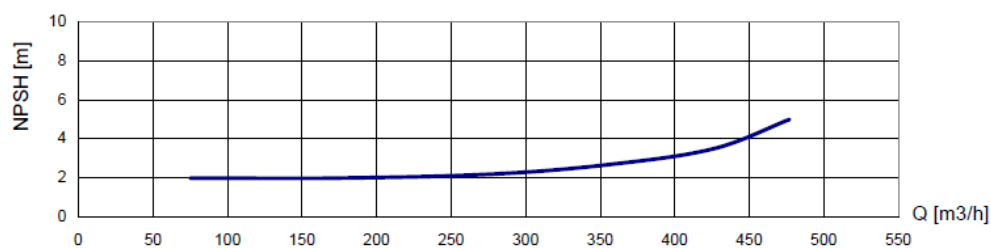
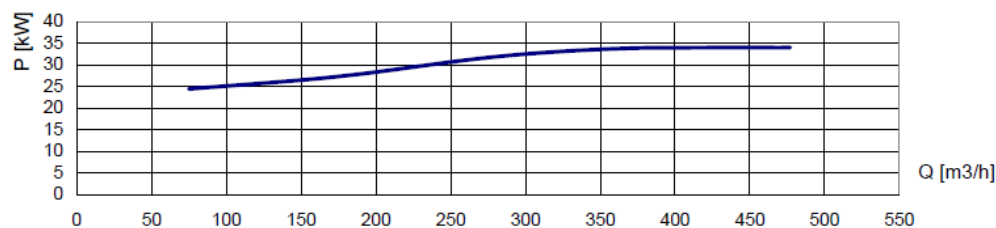
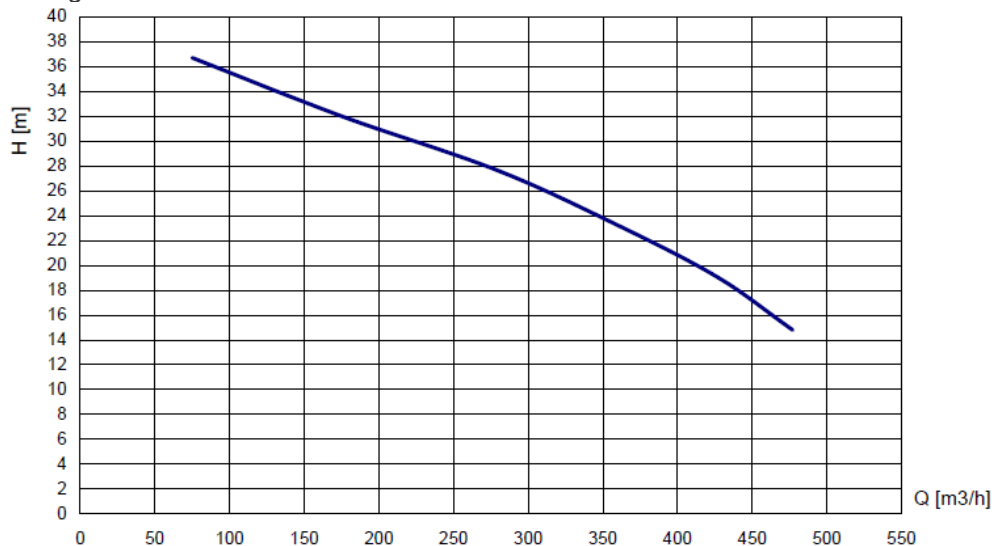
### After sales service & product support

- 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 (1800 RPM)

Continuous duty according ISO 9906



Engine speed rpm		Capacity Q in m <sup>3</sup> /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

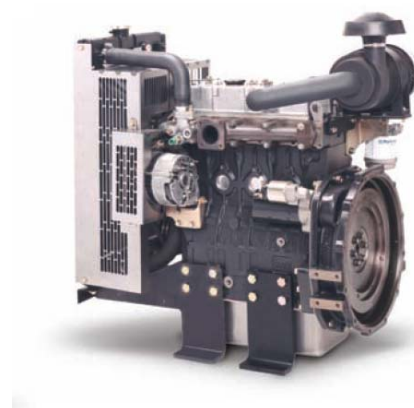
### BBA auto prime pump

Pump type.....	BA150E D285
Max. flow.....	475 m <sup>3</sup> /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 60 mm (2.36 inch)
Seal faces.....	Tung/Sic
Seal rubber.....	Viton



### BBA priming system

Pump type.....	BBA MP50 Diaphragm pump
Air handling capacity.....	50 m <sup>3</sup> /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 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

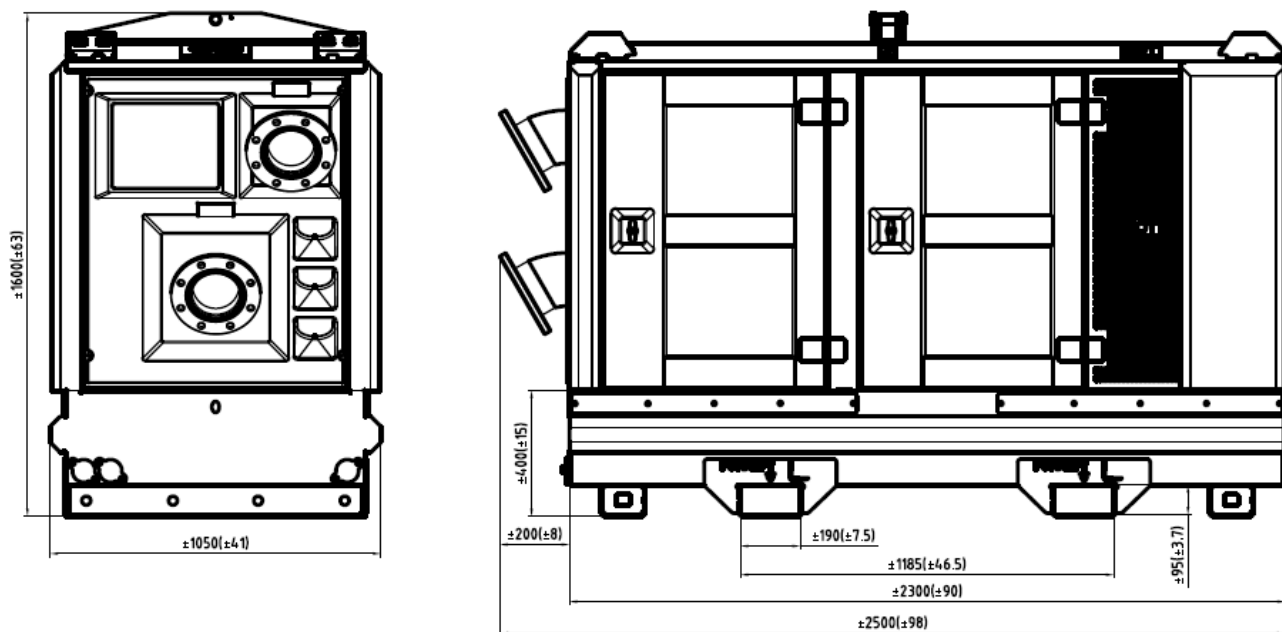
### BBA sound attenuating canopy

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 .....	30 hours (at 1800 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
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



### 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.





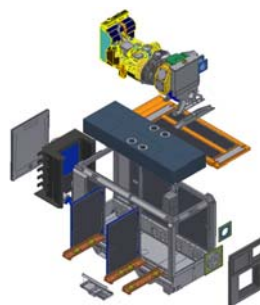
**Semi-open impeller**  
Corrosion and abrasion resistant Chrome Moly (42CrM04) alloy.



**Fuel tank**  
Fully bonded, 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**



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



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



**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	<b>M10-23 Kit</b>	
	- 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