



### Pump specifications:

Type.....BA180E D315
Max. flow ......720 m<sup>3</sup>/hour (3168 US GPM)

Max. pressure.......41 mwc (135 ft.)
Connections.......DN200 (8")
Solids handling......80 mm (3,15")
Impeller type.......Semi-open impeller

Priming system ...... BBA MP50

Engine ......Perkins 854E-E34TA Emission standard .. Stage IIIB / Tier 4i

Canopy ......M10-25

Weight (net) .....2090 kg (4600 lb)

Sound level.....Approx. 67 dB(A) at 10m

#### **FEATURES**

#### BA auto prime pump

The BA range of pumps has 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
- 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
- Complete 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 available
- Extensive training options available (technical & commercial), on-site or in-house

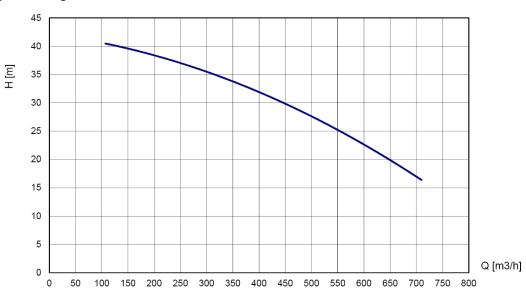


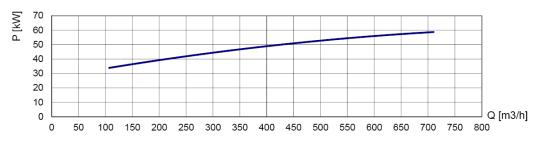


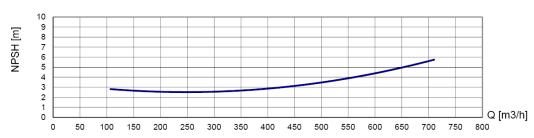


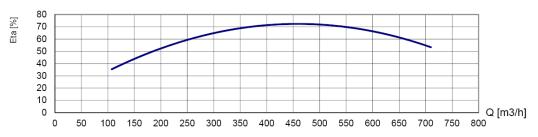
# **PERFORMANCE CURVES (1900 RPM)**

Continuous duty according ISO 9906









Please consult www.bbapumps.com for variable speed curves.

Engine speed			Ca	Fuel consumption (BEP)			
rpm		300	l/h				
1900	Н	35	32	27	22	17	15
1700	mwc	27	24	20	15	-	
1500		23	17	13	-	-	





#### STANDARD TECHNICAL SPECIFICATIONS

**BBA** auto prime pump

Pump type.....BA180E D315

Max. flow......720 m3/hour (3168 US GPM)

Impeller ...... Chrome Moly 42CrM04 Wear plate ...... Chrome Moly 42CrM04

Pump shaft......C45

Shaft seal.....Mechanical seal

Seal faces ......Tung/Sic Seal rubbers ......Viton

**BBA** priming system

Pump type......BBA 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 ......Cast iron GG25

Check valve disc.....Buna-N

**Engine** 

Number of cylinders.....4

Aftertreatment......DOC, DPF (3000 hours service interval)

Exhaust emission EU .......Stage IIIB Exhaust emission US ......Tier 4i

### **BBA** control panel LC30

- Auto start/stop system
- Two float switches included (10m cable)
- Switch Manual-0-Auto
- RAMP-UP/DOWN function
- Rpm. control with push buttons
- Warning lights
- 4.3" LCD monitor

The LCD monitor displays additional engine data, e.g. actual engine speed, working hours, battery voltage, fuel consumption and failures in clear text (10 language support)

# **Fuel system**

- Composite fuel tank 300 L. net (80 US Gallon)
- Fuel tank cap Ø 100 mm
- Electronic fuel injection system







## Electrical system & safety features

- Premium quality battery
- Nominal voltage 12 Volt
- Engine safety features like overload shutdown





#### **CANOPY M10-25**

### **BBA** sound attenuating canopy

Canopy type......M10-25

Dimensions L x W x H .......2500 x 1050 x 1680 mm Dimensions L x W x H .......100 x 41.3 x 66.1 inch Basic frame......Hot dip galvanised

Doors ......4 easy-access doors (lockable)

Front- and door panels ...... Composite ABS/ASA

Fuel tank .......PE net 300 ltr (80 US Gallon)
Fuel tank autonomy ......20 hours (at 1900 rpm BEP)

Fuel tank cap ......100 mm (4 inch)

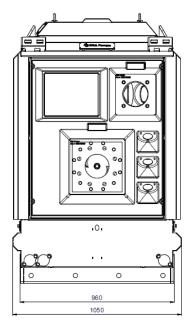
Module (10-23 kit).....Oil drain pump – battery isolator – external fuel tank connector

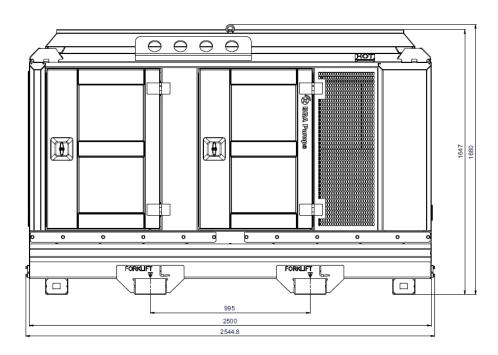
Forklift pockets.....Fitted with 2 forklift pockets Lifting point .....Fitted with 2 lifting points

Connections......Please consult "auxiliary items" in overleaf

Exhaust system ......Fully integrated in canopy Additional .....Fitted with oil-water separator

Documentation box.....BBA user manual and warranty book





Actual dimensions (in mm) 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 all easily accessible.



Priming system
Diaphragm pump,
air-cooled, water-resistant
and oil-spillage free.
Air capacity of
50 m<sup>3</sup> per hour.



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



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



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
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**

**Discharge connections** 

Discharge connections							
Art.nr.		Ø inch	Ø mm	Connection			
1516604209	30° flange DIN	8	200	Flange			
05080899	30° flange ANSI	8	200	Flange			
05080813	30° female (cup)	8	200	System B			
05080909	30° male (ball/lever)	8	200	System B			
05080895	30° male (ball/ring)	8	200	System IT			
05080898	30° female (cup/lever)	8	200	System IT			



#### Suction connections

ouction connections				
Art.nr.		Ø inch	Ø mm	Connection
17160295	0° flange K295 x K350	8-10	200-250	DIN Flange
05080911	0° male (ball/lever)	8	200	System B
05080914	0° female (cup)	8	200	System B
03811500	0° male (ball/ring)	8	200	System IT
03811510	0° female (cup/lever)	8	200	System IT
03811505	0° male (ball/ring)	10	250	System IT
03811506	0° female (cup/lever)	10	250	System IT



### Suction hose with strainer L=5 metre

Art.nr.	Ø inch	Ø mm	Connection
07047042	8	200	System IT female (cup/lever)
07047057	8	200	Flange K295
07047062	10	250	Flange K350



### Suction hose with strainer L=6 metre

Art.nr.	Ø inch	Ø mm	Connection
07047043	8	200	System IT female (cup/lever)
07047058	8	200	Flange K295
07047063	10	250	Flange K350



### Recommended suction pipe ID vs flow rates by pipe dimension (maximum velocity = 4 m/sec)

M3/H	US	FLOW	4"	5"	6"	8"	10"	12"
IVI 3/ FI	gallons	(L/sec)	100	125	150	200	250	300
360	1585	100	12.73	8.15	5.66	3.18	2.04	1.41
403.2	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	2060	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
540	2337	150	19.10	12.22	8.49	4.77	3.06	2.12
612	2694	170	21.65	13.85	9.62	5.41	3.46	2.41
648	2853	180	22.92	14.67	10.19	5.73	3.67	2.55
684	3011	190	24.19	15.48	10.75	6.05	3.87	2.69
720	3170	200	25.46	16.30	11.32	6.37	4.07	2.83

