



**Pump specifications:**

Type.....BA180E D328  
 Max. flow ..... 780 m<sup>3</sup>/hour (3430 US GPM)  
 Max. pressure ..... 50 mwc (165 ft.)  
 Connections..... DN200 (8")  
 Solids handling ..... 80 mm (3,15")  
 Impeller type ..... Semi-open impeller  
 Priming system ..... BBA MP50  
 Engine ..... Perkins 1104D-44TA  
 Emission standard .. Stage IIIA  
 Canopy ..... M10-25  
 Weight (net) ..... 2150 kg (4730 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 the regulations in all continents except Europe and North America
- 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
- Complete testing facility in-house
- Contemporary & functional design
- Durable & eco-friendly materials
- Custom builds available

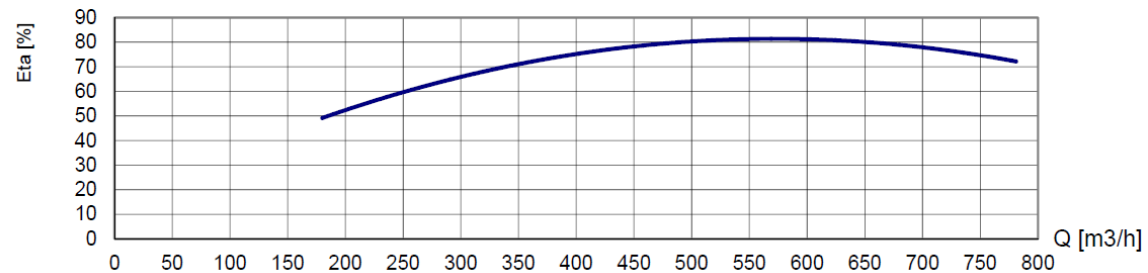
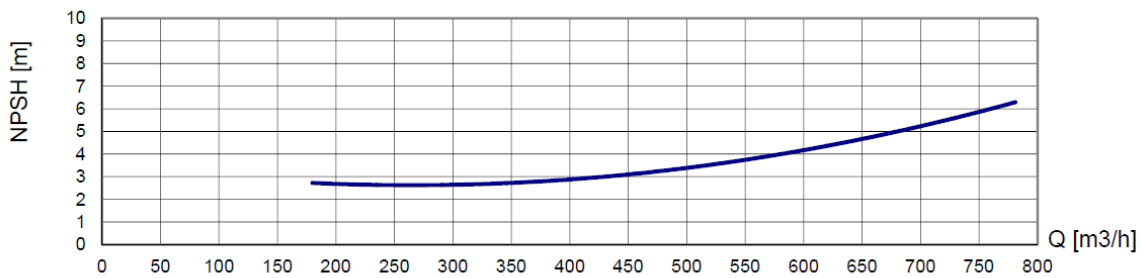
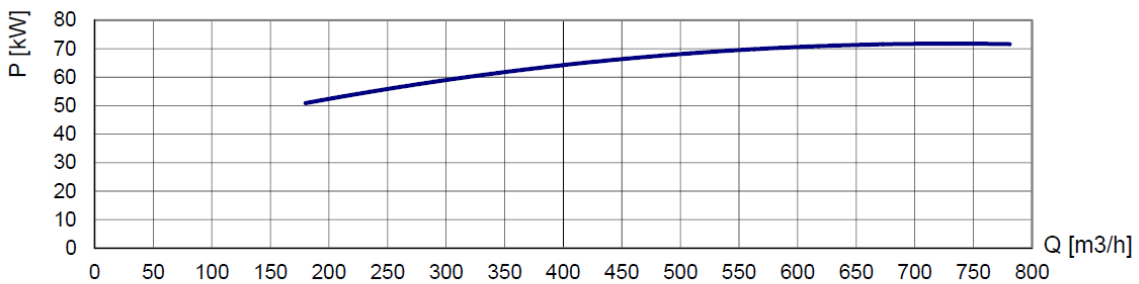
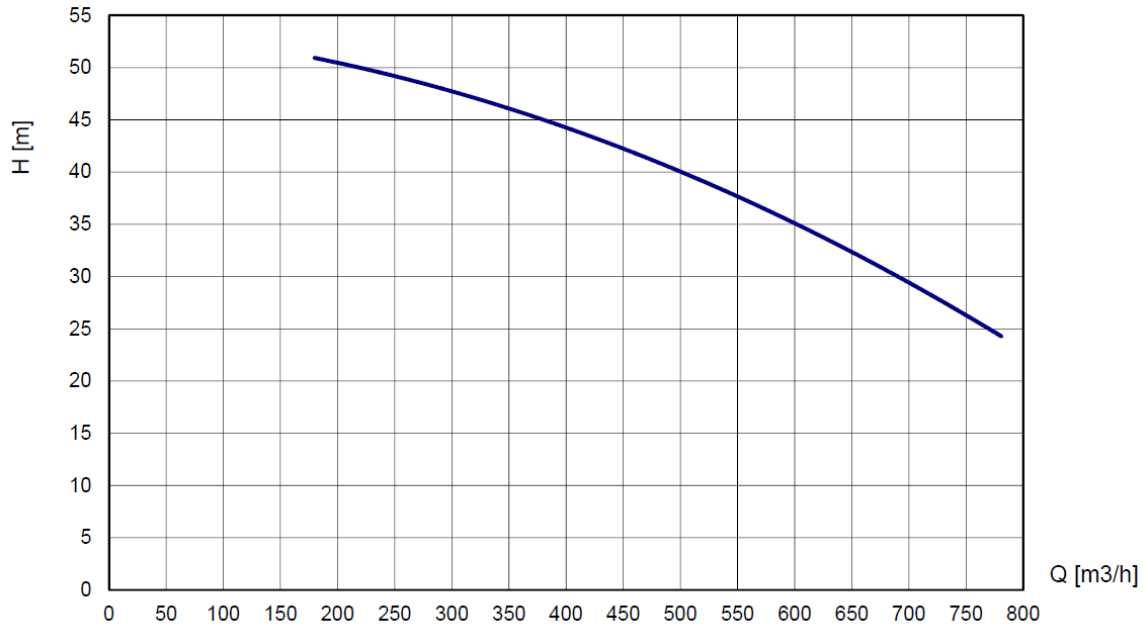
**After sales service & product support**

- 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 (1800-1900 RPM)**

Continuous duty according ISO 9906



**STANDARD TECHNICAL SPECIFICATIONS**

**BBA auto prime pump**

Pump type.....	BA180E D328
Max. flow.....	780 m <sup>3</sup> /hour (3430 US GPM)
Max. head.....	50 mwc (165 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
Seal faces.....	Tung/Sic
Seal rubbers.....	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.....	Aluminium
Non return valve.....	Cast iron GG25
Check valve disc.....	Buna-N



**Engine**

Engine brand.....	Perkins
Engine type.....	1104D-44TA
Gross power.....	80 kW (108 Hp)
Max. engine speed.....	1800-1900 RPM
Fuel consumption.....	230 g/kWh
Displacement.....	4.4 l
Number of cylinders.....	4
Cooling system.....	Water cooled
Emission level.....	Stage IIIA

**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**

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

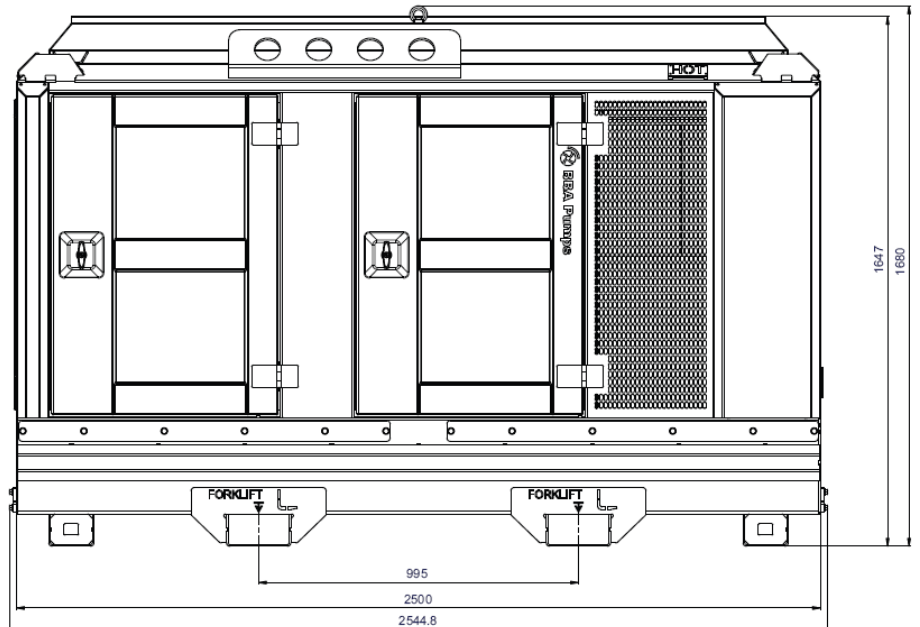
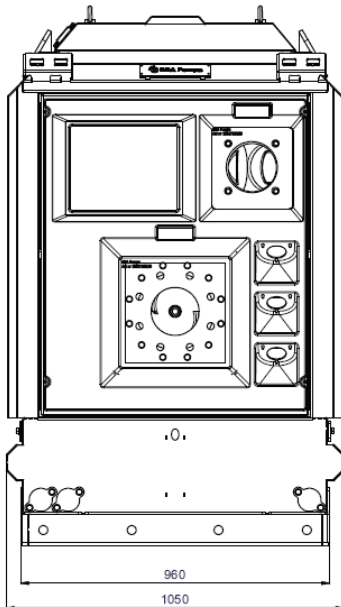
**Electrical system & safety features**

- 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 ..... 15 hours (at 1800 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.



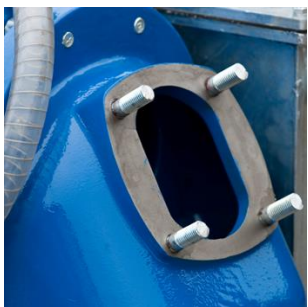
**Fuel tank**  
Fully bunded, corrosion-free, 300 liter, high-density polyethylene (HDPE) fuel tank, located in base of canopy.



**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**

Art.nr.		Ø inch	Ø mm	Connection	
1516604209	30° flange DIN	8	200	Flange	
05080899	30° flange ANSI	8	200	Flange	
05080913	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**

Art.nr.		Ø inch	Ø mm	Connection	
17160297	0° flange K295 x K350	8-10	200-250	DIN Flange	
03611467	0° female (cup)	8	200	System B	
03811501	0° male (ball/ring)	8	200	System IT	
03811511	0° female (cup/lever)	8	200	System IT	
03111232	0° male (ball/ring)	10	250	System IT	
03111228	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 gallons	FLOW (L/sec)	4" 100	5" 125	6" 150	8" 200	10" 250	12" 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