


**Pump specifications:**

Type.....	BA180E D328
Max. flow .....	735 m <sup>3</sup> /hour (3230 US gpm)
Max. pressure .....	44 mwc (145 ft.)
Solids handling .....	80 mm (3,15")
Impeller type .....	Semi-open impeller
Priming system .....	BBA MP50
Engine .....	Perkins 904J-E36TA
Emission compliant.....	Tier 4 final - Stage V
Canopy .....	M12-29
Connections.....	DN200 (8")
Sound level.....	Approx. 74 dB(A) at 10 m
Dry weight.....	2750 kg (6050 lbs.)

**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
- Corrosion free hot dip galvanized canopy
- Corrosion free composite door panels
- 100% Oil-spill free priming system
- Fully banded unit eliminating fuel/oil spills at all times

**Complete package designed & built by BBA Pumps**

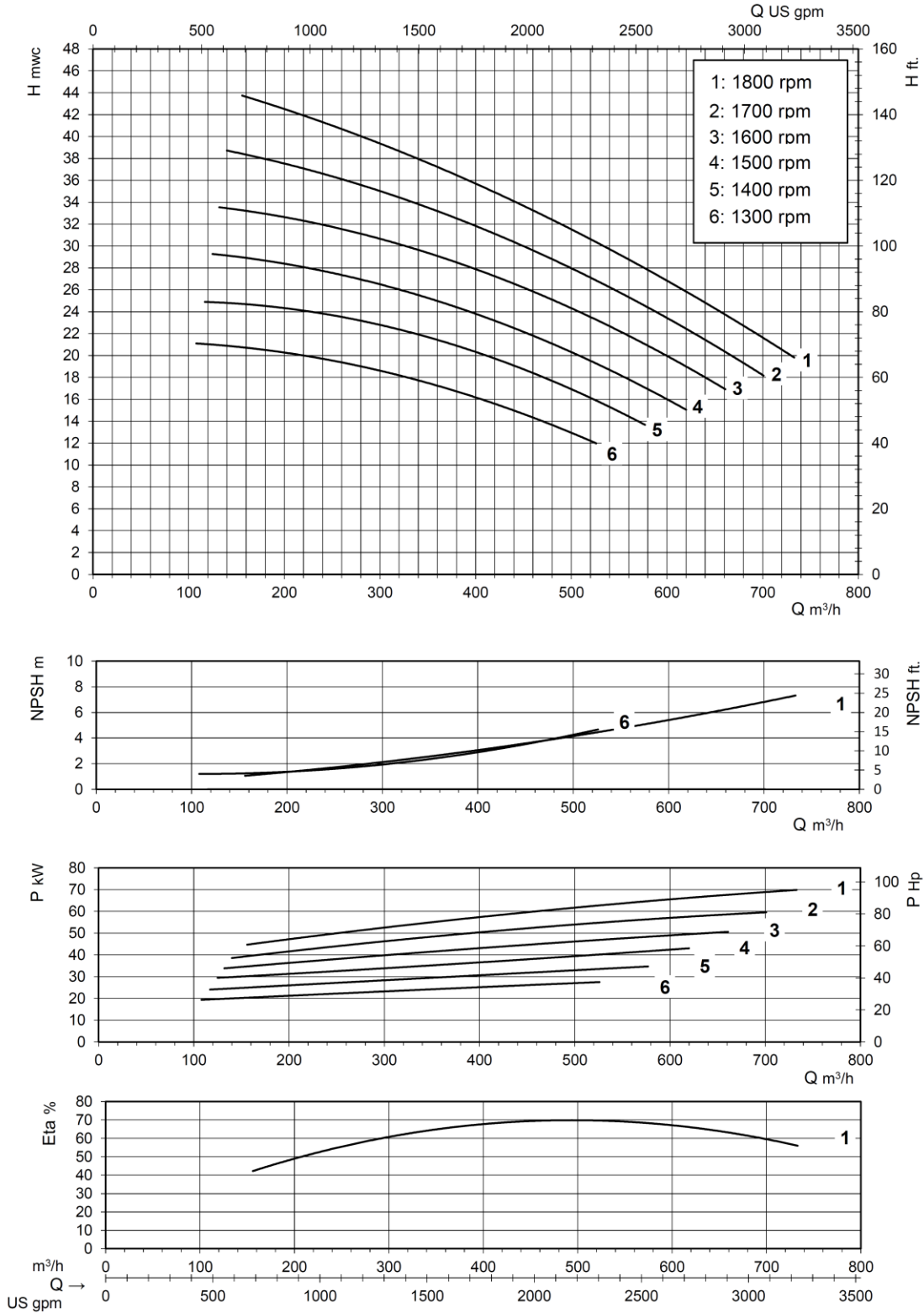
- Complete in-house design & production
- Over 60 years of experience in the market
- Extensive testing facility in-house
- Contemporary & functional design
- Durable & eco-friendly materials
- Custom builds available

**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

Continuous duty according ISO 9906



The pumpset is approved for operation at 1800 rpm with full engine load up to an ambient temperature of 43 °C.

**STANDARD TECHNICAL SPECIFICATIONS**
**BBA auto prime pump**

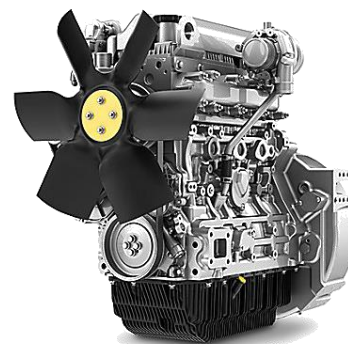
Pump type.....	BA180E D328
Max. flow.....	735 m <sup>3</sup> /hour (3230 US gpm)
Max. head.....	44 mwc (145 feet)
Impeller type.....	Semi-open impeller
Solids handling.....	80 mm (3,15 inch)
Pump casing.....	Cast iron GG20
Impeller.....	Chrome Moly 42CrMo4
Self-cleaning wear plate.....	Chrome Moly 42CrMo4 (cutter slots)
Pump shaft.....	42CrMo4 heat treated
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.....	904J-E36TA
Max. power @ 2400 rpm.....	90 kW (122 Hp)
Engine speed variable.....	1300 - 1800 RPM
Fuel consumption.....	220 g/kWh
Displacement.....	3,6 litres
Number of cylinders.....	4
Aftertreatment.....	DOC, DPF and SCR
Emissions compliant.....	Tier 4 final - Stage V


**BBA control panel LC45**

- Auto start/stop system
- Two float switches included (10m cable)
- Key switch
- Rpm. control with push buttons
- Warning lights
- 4.3" LCD display

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


**Fuel system**

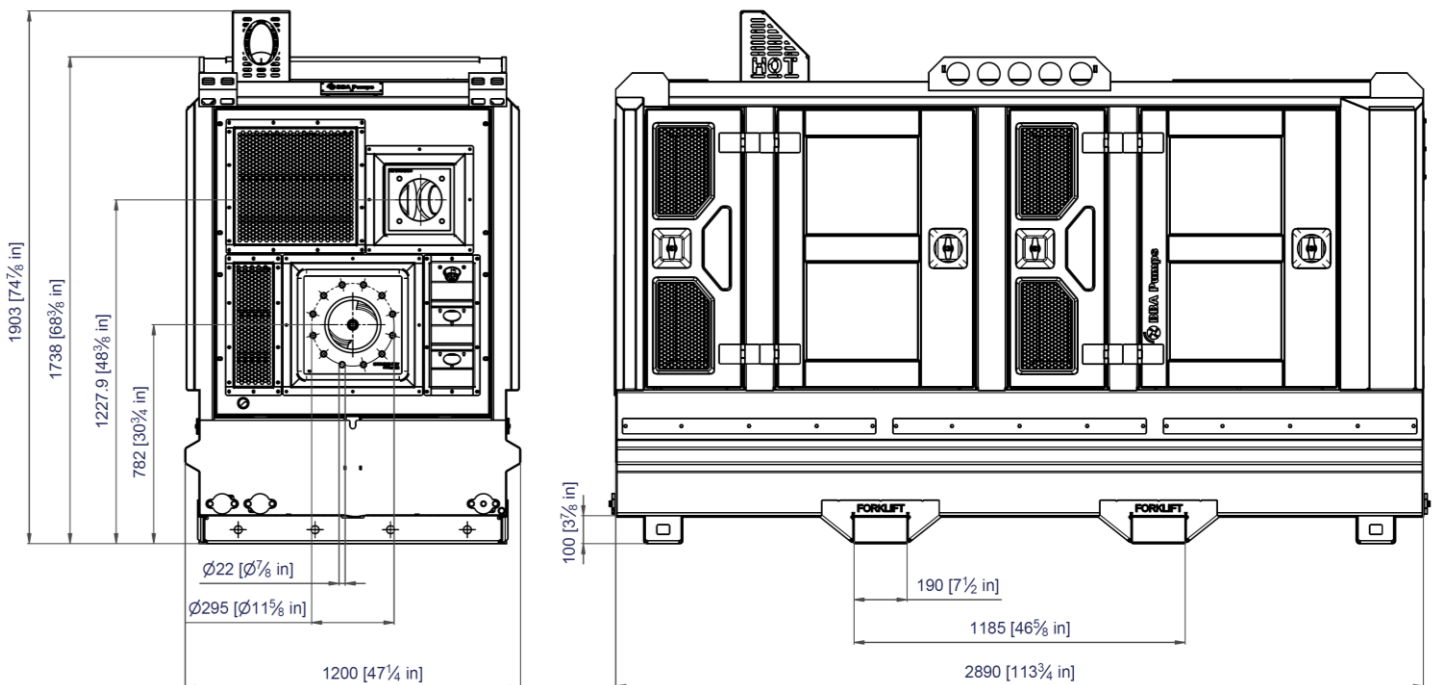
- Composite fuel tank 300 L (80 US gallon)
- Composite DEF tank 38 L (10 US gallon)
- Electronic fuel injection system

**Electrical system & safety features**

- Nominal voltage 12 Volt
- Premium quality battery
- Low oil pressure shut down

**CANOPY M12-29**
**BBA sound attenuating canopy**

Canopy type.....	M12-29
Dimensions L x W x H .....	2900 x 1200 x 1903 mm
Dimensions L x W x H .....	114 x 47.2 x 75 inch
Connections.....	See the connections list
Basic frame.....	Hot dip galvanized steel
Doors .....	8 composite easy-access doors (lockable)
Fuel tank.....	Composite net 300 ltr (80 US gallon)
Fuel tank autonomy .....	15 hours (at 1800 rpm BEP)
Fuel tank cap .....	100 mm (4 inch)
Additional.....	External fuel tank connection
DEF tank.....	Composite net 38 ltr (10 US gallon)
Forklift pockets.....	Fitted with 2 forklift pockets
Lifting point .....	Fitted with lifting points
Lighting .....	Interior and exterior lighting
Electrical isolation.....	Battery isolator switch
Safety.....	Emergency stop
Aftertreatment.....	Fully integrated in the canopy
Additional.....	Fitted with oil-water separator
Documentation box.....	BBA user manual and warranty book



Actual dimensions may vary depending on selected connections.



**Semi-open impeller**  
Corrosion and abrasion resistant pump impeller made of chrome moly (42CrMo4) alloy.



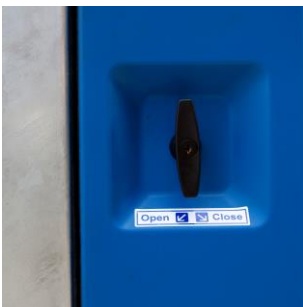
**LED lights**  
Fully integrated in the canopy for easy operation throughout the evening and night.



**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.




**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.

Pump specifications are subject to change without prior notice to improve reliability or design.


**AUXILIARY ITEMS**
**Discharge connections**

Art.nr.		Ø inch	Ø mm	Connection	
1516604209	30° flange DIN	8	200	Flange	
5080899	30° flange ANSI	8	200	Flange	
5080813	30° female (cup)	8	200	System B	
5080909	30° male (ball/lever)	8	200	System B	
5080895	30° male (ball/ring)	8	200	System IT	
5080898	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	
3611467	0° female (cup)	8	200	System B	
3811501	0° male (ball/ring)	8	200	System IT	
3811511	0° female (cup/lever)	8	200	System IT	
3111232	0° male (ball/ring)	10	250	System IT	
3111228	0° female (cup/lever)	10	250	System IT	

**Suction hose with strainer L= 6 metre**

Art.nr.	Ø inch	Ø mm	Connection	
7047043	8	200	System IT female (cup/lever)	
7047058	8	200	Flange K295	
7047063	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"	5"	6"	8"	10"	12"
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