


Pump specifications:

Type.....	BA180E D328
Max. flow	3230 US GPM (735 m3/hour)
Max. pressure	145 ft. / 62 PSI (44 mwc)
Solids handling	3.15" (80 mm)
Impeller type	Open impeller
Priming system	BBA MP50
Engine	Perkins 904J-E36TA
Emission compliant.....	Tier 4 final – Stage V
Canopy	M12-29
Connections.....	8" (DN200)
Sound level.....	Approx. 74 dB(A) at 33 ft.
Dry weight.....	6050 lbs. (2750 kg)

FEATURES
BA auto prime pump

The BA range of pumps has been designed with a clear focus on reliability, efficiency and durability. Featuring a fully automatic 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 demanding construction market.

World-class performance

The BA range is built to be deployed on the most demanding 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

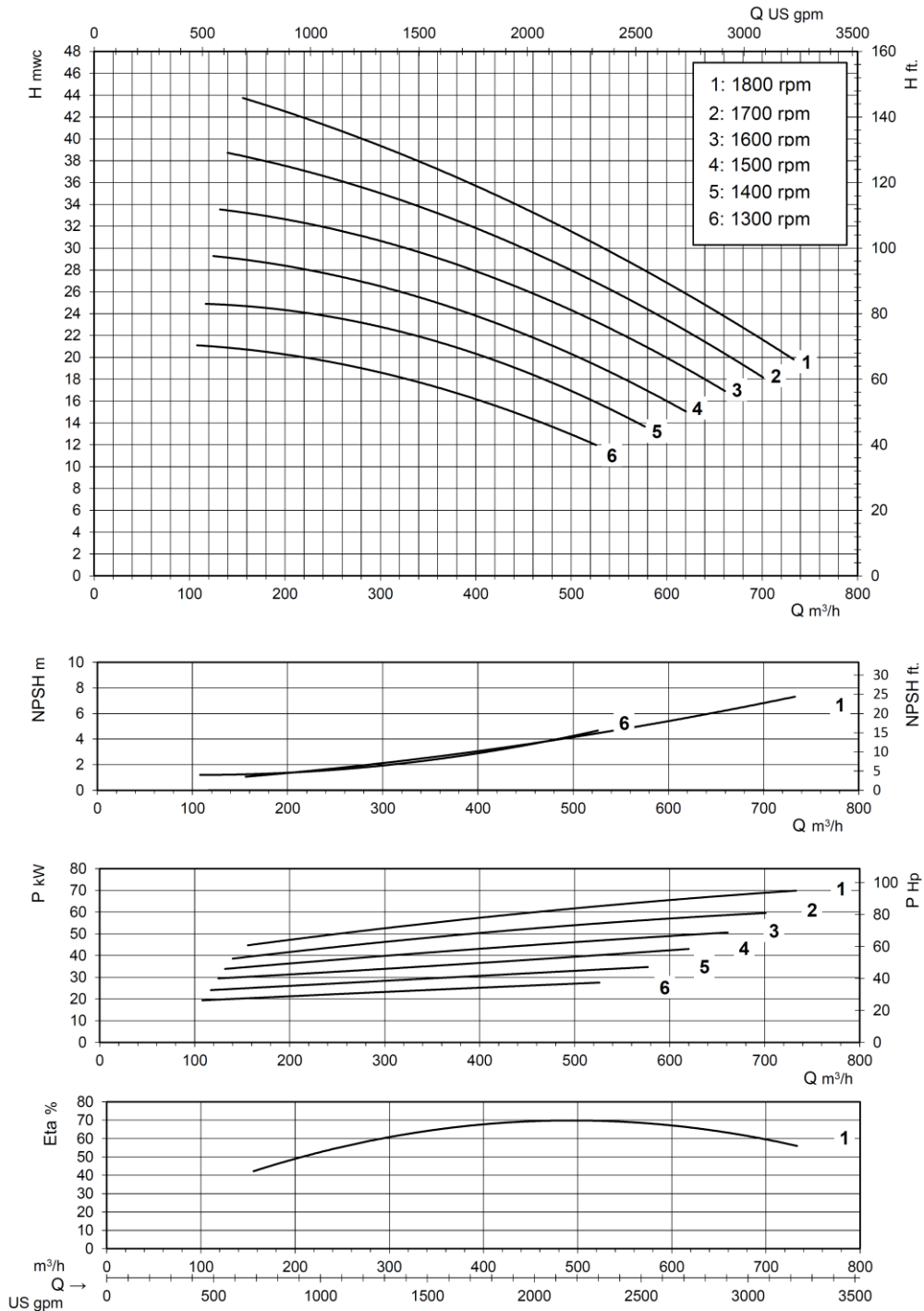
- High efficiency pumps minimising fuel consumption
- Corrosion free hot dip galvanized canopy
- Corrosion free composite door panels and powder coated plating
- 100% Oil-spill free priming system
- Fully self-contained unit featuring a double wall fuel containment tank and fluid containment system eliminating 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 109 °F.

STANDARD TECHNICAL SPECIFICATIONS

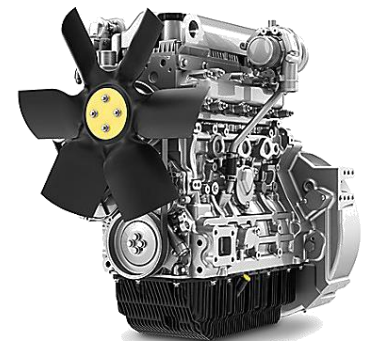
BBA auto prime pump

Pump type.....BA180E D328
 Max. flow.....3230 US gpm (735 m3/hour)
 Max. head.....145 feet / 62 PSI (44 mwc)
 Impeller typeOpen impeller
 Solids handling3.15 inch (80 mm)
 Pump casing.....Cast iron GG20
 ImpellerChrome Moly 42CrMo4
 Self-cleaning wear plateChrome Moly 42CrMo4 (w/ cutter slots)
 Pump shaft.....42CrMo4 heat treated
 Shaft seal.....Mechanical seal
 Seal facesTung/Sic
 Seal rubbersViton



BBA priming system

Pump type.....BBA MP50 Diaphragm pump
 Air handling capacity30 CFM (50 m³/h)
 Max. vacuum29 inHg (8.5 m)
 DriveToothed belt (continuous drive)
 Float boxAluminium
 Non return valveCast iron GG25
 Check valve disc.....Buna-N



Engine

Engine brandPerkins
 Engine type.....904J-E36TA
 Max. power @ 2400 rpm122 Hp (90 kW)
 Engine speed variable1300 - 1800 RPM
 Fuel consumption220 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



Fuel system

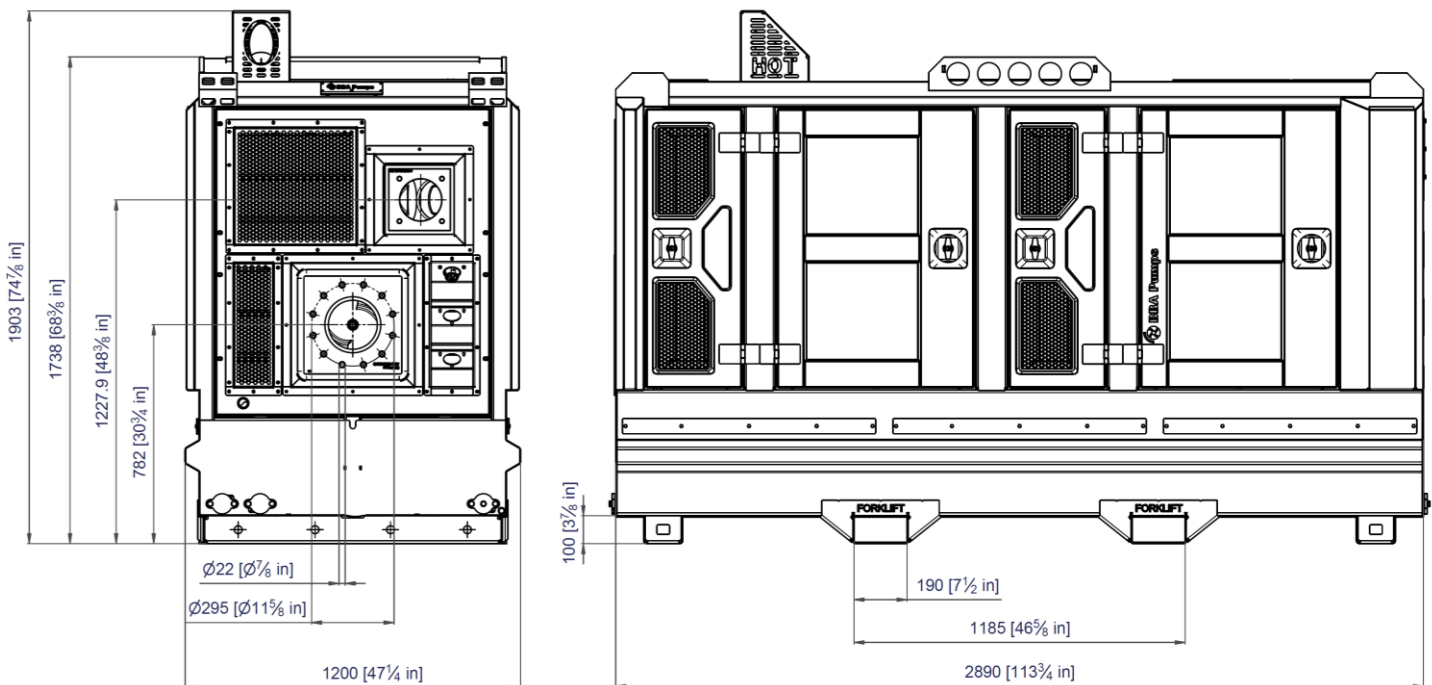
- Composite fuel tank 80 US gallon (300 L.) net
- Composite DEF tank 10 US gallon (38 L.) net
- Electronic fuel injection system

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	114 x 47.2 x 75 inch
Dimensions L x W x H	2900 x 1200 x 1903 mm
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 (in mm & inches) may vary depending on selected quick couplings.



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, 80 gallon, 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.

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 = 20 ft.

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" 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