



**Pump specifications:**

Type.....	BA100K D193
Max. flow .....	750 US gpm (170 m3/hour)
Max. pressure .....	56 ft. / 24 PSI (17 mwc)
Solids handling .....	3,23" (82 mm)
Impeller type .....	Channel impeller
Priming system .....	BBA MP50
Engine .....	Hatz 1D90E DriveOn®
Emission level.....	Tier 4 final
Canopy .....	M10-18
Connections.....	4" or 6"
Sound level.....	53 dB(A) at 33 ft.
Dry weight.....	3223 lbs. (1465 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
- 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**

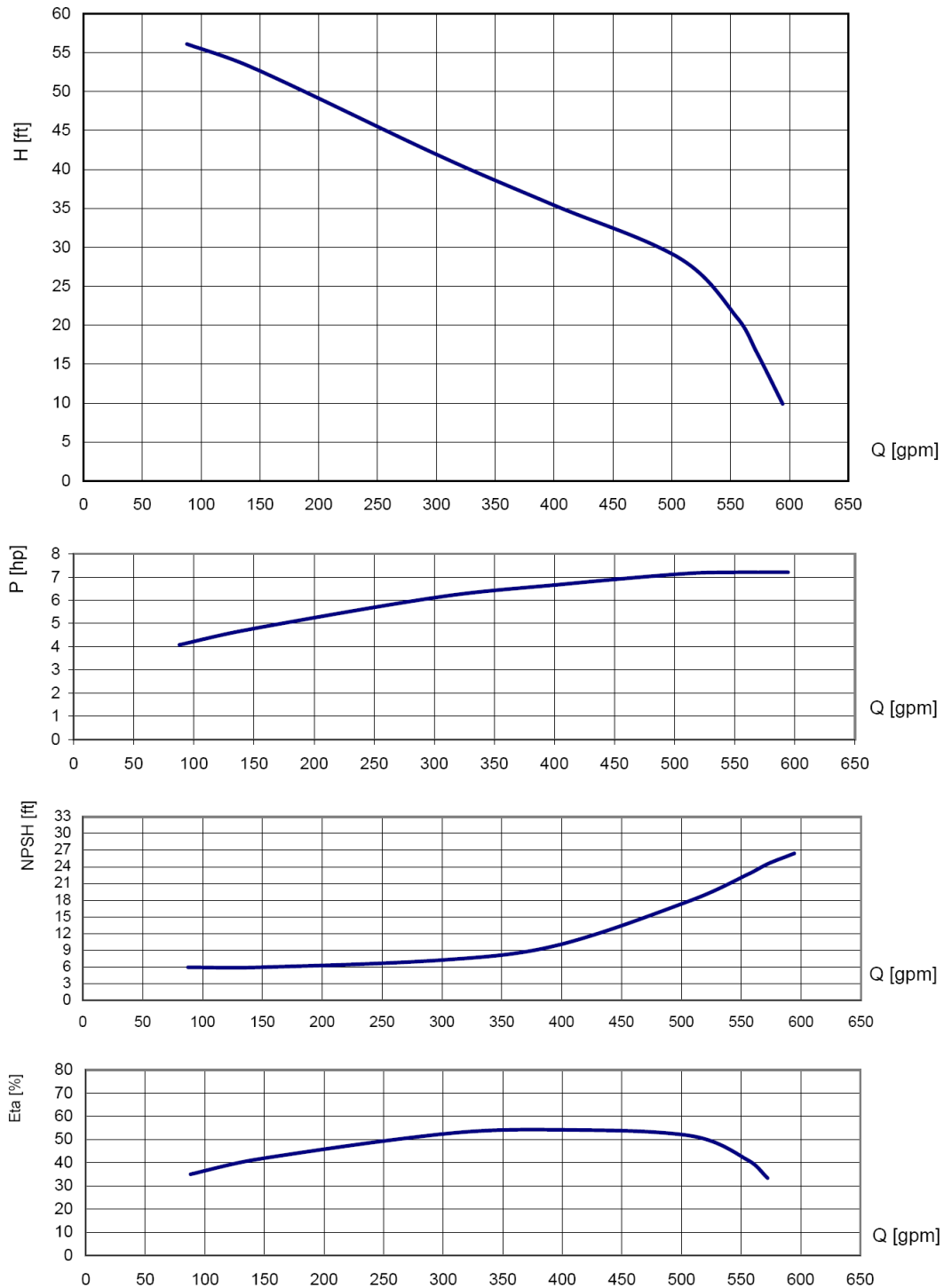
- Complete in-house design & production
- Over 60 years of experience in the market
- Extensive testing facility in-house
- Contemporary & functional design
- Durable & eco-friendly materials
- Custom builds available

**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 at 1500 rpm.**  
(measured with 4" connections)



## STANDARD TECHNICAL SPECIFICATIONS

### BBA auto prime pump

Pump type.....	BA100K D193
Max. flow (6" connections)...	750 US gpm (170 m <sup>3</sup> /hour)
Max. flow (4" connections)...	594 US gpm (135 m <sup>3</sup> /hour)
Max. head.....	56 feet / 24 PSI (17 mwc)
Impeller type .....	Channel impeller
Solids handling .....	3.23 inch (82 mm)
Pump casing.....	Cast iron GG25
Impeller .....	Ductile iron GGG40
Pump shaft.....	42CrMo4 heat treated
Mechanical seal .....	Tung/Sic/Viton



### BBA priming system

Pump type.....	BBA MP50 Diaphragm pump
Air handling capacity .....	30 CFM (50 m <sup>3</sup> /h)
Max. vacuum .....	29 inHg (8.5 m)
Drive .....	Toothed belt (continuous drive)
Float box .....	Aluminium
Non return valve .....	Cast iron GG25

### Engine

Engine brand .....	Hatz
Engine type.....	1D90E electric start
Fuel injection.....	Electronical
Flywheel power (ICFN) .....	7.7 Hp (5.7 kW)
Engine speed.....	1500 RPM
Feature .....	DriveOn®
Oil change interval.....	1500 running hours
Fuel consumption .....	235 g/kWh
Displacement.....	44 Cubic inch
Number of cylinders.....	1
Emission level.....	EPA Tier 4 final



### BBA control panel

- Auto start/stop system
- Two float switches included (10m cable)
- Connection for transducer
- Key switch and push buttons
- Display for engine data
- Warning light



### Fuel system

- Composite fuel tank 59 US gallon (220 L.) net
- Fuel tank cap Ø 2.5 inch (60 mm)
- Electronic fuel injection system

### Electrical system & safety features

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

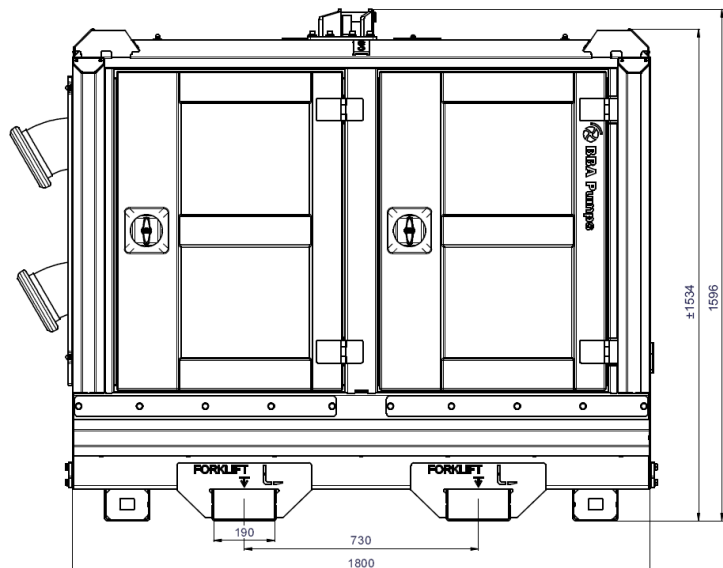
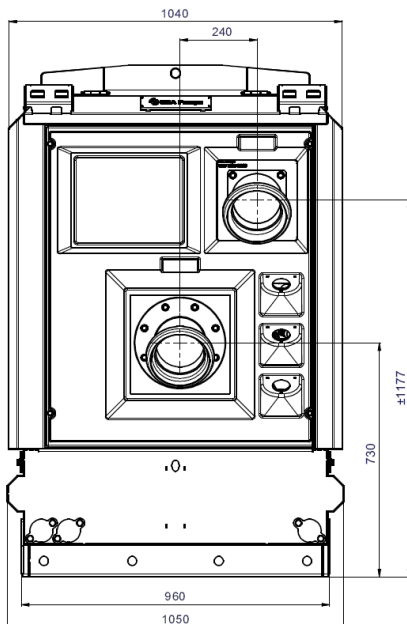
## CANOPY M10-18

### BBA super silent canopy

Canopy type.....	M10-18
Dimensions L x W x H .....	71 x 41.3 x 63 inch
Basic frame.....	Hot dip galvanized
Roof panels (hinged) .....	Steel hot dip galvanized
Doors .....	4 easy-access doors (lockable)
Grill and door panels .....	Composite ABS/ASA
Fuel tank .....	PE net 58 US gallon (220 ltr )
Fuel tank autonomy .....	135 hours (at 1500 rpm BEP)
Fuel tank cap .....	2.5 inch (60 mm)
Forklift pockets .....	Fitted with 2 forklift pockets
Lifting point .....	Fitted with single lifting point
Stackable .....	Canopy is stackable
Connections.....	Please consult "auxiliary items"
Exhaust system + DOC .....	Fully integrated in the canopy
Spark arrestor .....	Lloyd & Veritas approved
Documentation box.....	BBA user manual and warranty book

### BBA E-lift® system

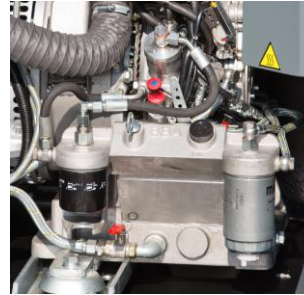
The M10-18 canopy has been fitted with the BBA E-lift® system. By removing the roof panel, the pump and diesel engine as a whole can be removed from the canopy effortlessly allowing easy preventative maintenance on the pump and diesel engine. In addition, as the canopy is not fitted with padding or insulation materials, it can be cleaned quickly using a pressure washer.



Actual dimensions (in mm) may vary depending on selected quick couplings.



**Channel impeller**  
GGG40 channel impeller,  
ductile iron, solids handling  
3.23" (82 mm).



**DriveOn® technology**  
-Service interval 1500 hours  
-66% less often maintenance  
-25% saving on engine oil  
-Ergonomic design



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



**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.




## AUXILIARY ITEMS

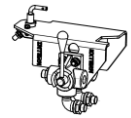
### Discharge connections

Art.nr.		Ø inch	Ø mm	Connection	
5080871	30° flange	4	100	ANSI	
5080878	30° male (ball/lever)	4	100	System B	
5080879	30° female (cup)	4	100	System B	
5080873	30° flange	6	150	ANSI	
5080881	30° male (ball/lever)	6	150	System B	
5080876	30° female (cup)	6	150	System B	

### Suction connections

Art.nr.		Ø inch	Ø mm	Connection	
5080892	30° flange	4	100	ANSI	
5080886	30° male (ball/lever)	4	100	System B	
5080885	30° female (cup)	4	150	System B	
5080884	30° flange	6	150	ANSI	
5080890	30° male (ball/lever)	6	150	System B	
5080889	30° female (cup)	6	150	System B	

### M10-23 Kit

1707214200	<b>US Kit</b>	
	- External fuel tank connections	
	- Battery isolator switch	
	- BBA mounting bracket	

### Recommended suction pipe diameter (maximum velocity = 4 m/sec)

m³/h	US gallons	FLOW (L/sec)	4" 100	5" 125	6" 150	8" 200
72	317	20	2.55	1.63	1.13	0.64
90	396.3	25	3.18	2.04	1.41	0.80
108	475.5	30	3.82	2.44	1.70	0.95
144	634	40	5.09	3.26	2.26	1.27
180	792.5	50	6.37	4.07	2.83	1.59
216	951	60	7.64	4.89	3.40	1.91