


Pump specifications:

Type.....	BA180KS D315
Max. flow	2550 US GPM (580 m3/hour)
Max. pressure.....	135 ft. / 58 PSI (41 mwc)
Connections.....	8" (DN200)
Solids handling	4.9" (125 mm)
Impeller type	Screw channel impeller
Priming system	BBA MP50
Engine	Hatz 4H50TIC DriveOn®
Emission standard	Tier 4 final
Canopy	M10-23X
Sound level.....	Approx. 64 dB(A) at 33 ft.
Dry weight.....	3795 lbs. (1725 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

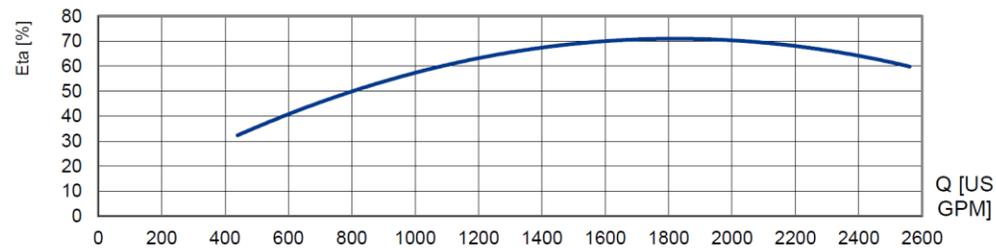
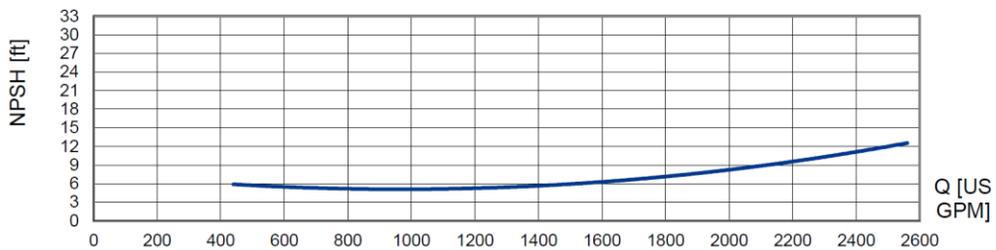
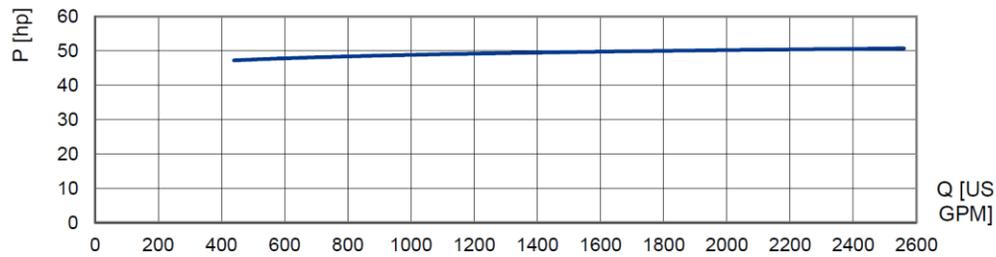
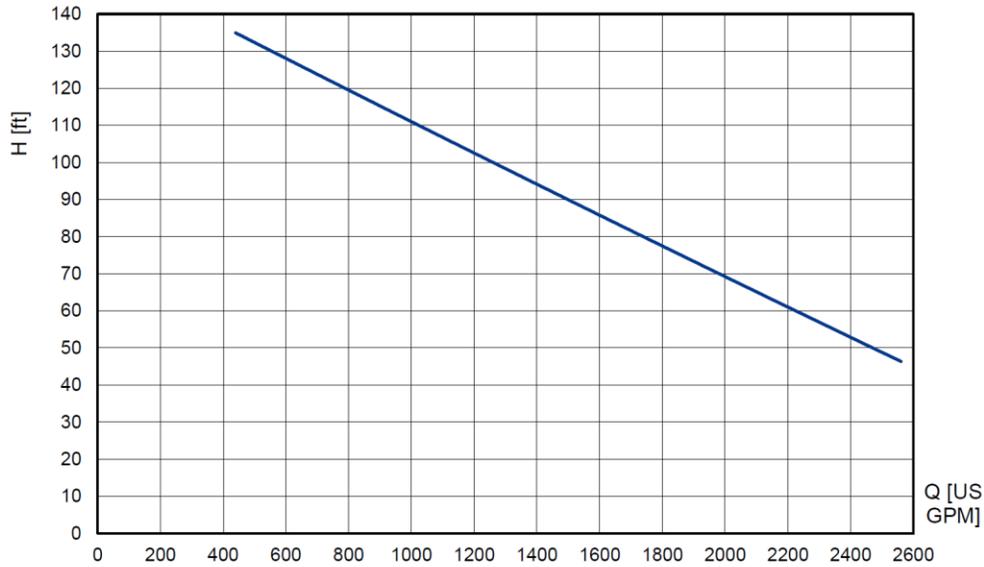
- Complete in-house design & production
- Over 60 years of experience in the market
- Extensive testing facility in-house
- Contemporary & functional design
- Durable & eco-friendly materials
- Custom builds available

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 (1750 RPM)

Continuous duty according ISO 9906



STANDARD TECHNICAL SPECIFICATIONS

BBA auto prime pump

Pump type.....	BA180KS D315
Max. flow.....	2550 US GPM (580 m3/hour)
Max. head.....	135 feet / 58 PSI (41 mwc)
Impeller type	Screw channel impeller
Solids handling	4.9 inch (125 mm)
Pump casing.....	Cast iron GG20
Impeller w/ cutter slots.....	Chrome Moly 42CrM04
Suction piece	Chrome Moly 42CrM04
Backplate w/ cutting edges..	GG25
Pump shaft.....	42CrV6
Shaft seal.....	Mechanical seal
Seal faces	Tung/Sic
Seal rubbers	Viton



BBA priming system

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

Engine

Engine brand	Hatz
Engine type.....	4H50TIC DriveOn®
Oil change interval.....	1500 running hours
Max. power output	75 Hp (55.4 kW)
Variable engine speed.....	1300 - 1750 RPM
Fuel consumption	220 g/kWh
Displacement.....	1.952 cm ³
Number of cylinders.....	4
Aftertreatment.....	EGR, DOC
Exhaust emission US	Tier 4 Final



BBA control panel LC40

- 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

- PE fuel tank 80 US gallon (300 L.) net
- Fuel tank cap Ø 4" (100 mm)
- Electronic fuel injection system

Electrical system & safety features

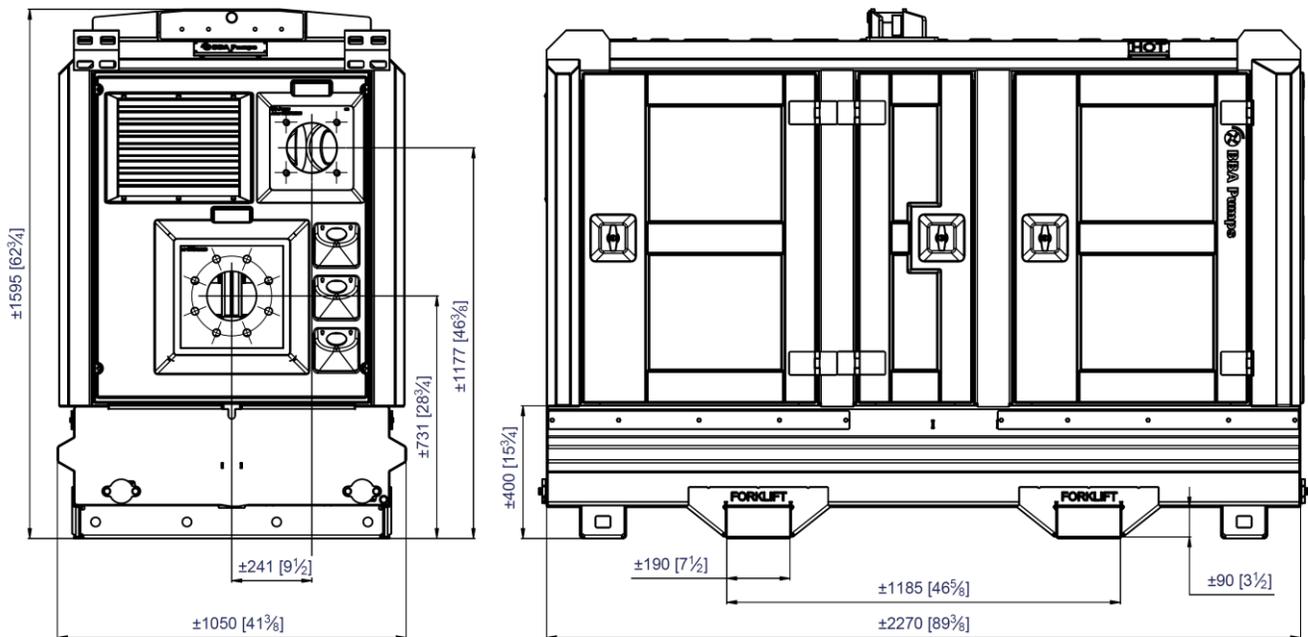
- Nominal voltage 12 Volt
- Premium quality battery
- Low oil pressure shut down

CANOPY M10-23X
BBA sound attenuating canopy

Canopy type.....	M10-23X
Dimensions L x W x H	89.4 x 41.3 x 62.8 inch
Dimensions L x W x H	2270 x 1050 x 1595 mm
Basic frame.....	Hot dip galvanized
Doors	6 lockable composite doors
Fuel tank	PE net 80 US gallon (300 ltr)
Fuel tank autonomy	28-30 hours (at 1750 rpm BEP)
Fuel tank cap	4 inch (100mm)
Forklift pockets.....	Fitted with 2 forklift pockets
Lifting point	Fitted with single lifting point
Stackable	Canopy is stackable
Exhaust system	Fully integrated in canopy
Additional	Fitted with oil-water separator and battery isolator switch
Connections.....	Please consult "auxiliary items" in overleaf
Documentation box.....	BBA user manual and warranty book

BBA E-lift® system

The M10-23X 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 & inches) may vary depending on selected quick couplings.



Screw channel impeller
This special designed closed screw impeller is a real waste warrior. Even at higher speed, or with pumping air bubbles, the pump runs vibration-free. The best choice for your sewer bypass jobs.

DriveOn®

DriveOn® technology

- Service interval 1500 hours
- 66% less often maintenance
- Saving on engine oil & filters
- 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
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" 100	5" 125	6" 150	8" 200	10" 250	12" 300
324	1426	90	11.46	7.33	5.09	2.86	1.83	1.27
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
576	2536	160	20.37	13.04	9.05	5.09	3.26	2.26
612	2694	170	21.65	13.85	9.62	5.41	3.46	2.41

Pictures used are for illustration purposes only.