



Pump specifications:

Type.....	BA180KS D315
Max. flow	580 m ³ /hour (2550 US GPM)
Max. pressure.....	41 mwc (135 ft.)
Connections.....	DN200 (8")
Solids handling	125 mm (5")
Impeller type	Screw channel impeller
Priming system	BBA MP50
Engine	Hatz 4H50TICD
Emission level.....	Stage V
Canopy	M10-23X
Sound level.....	Approx. 64 dB(A) at 10 m
Dry weight.....	1750 kg (3850 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 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

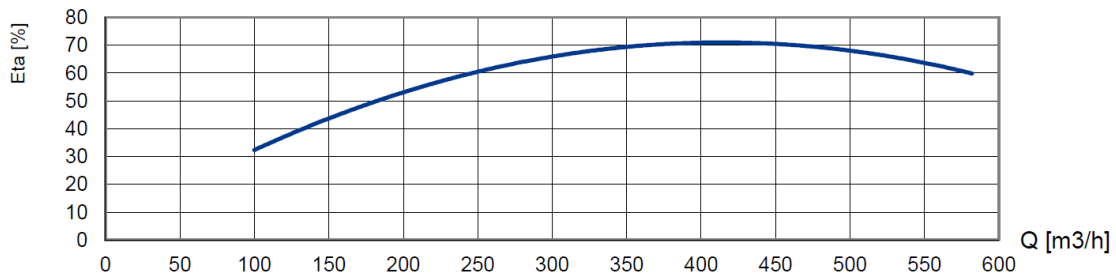
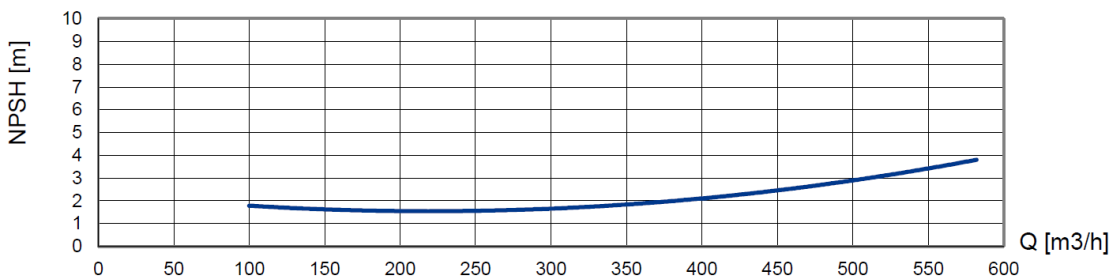
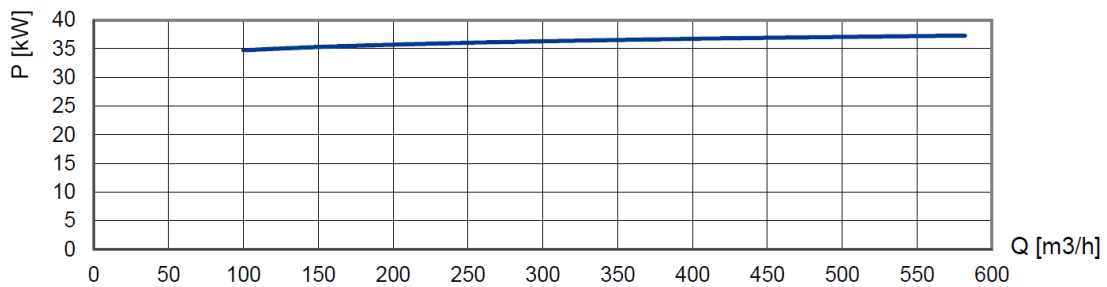
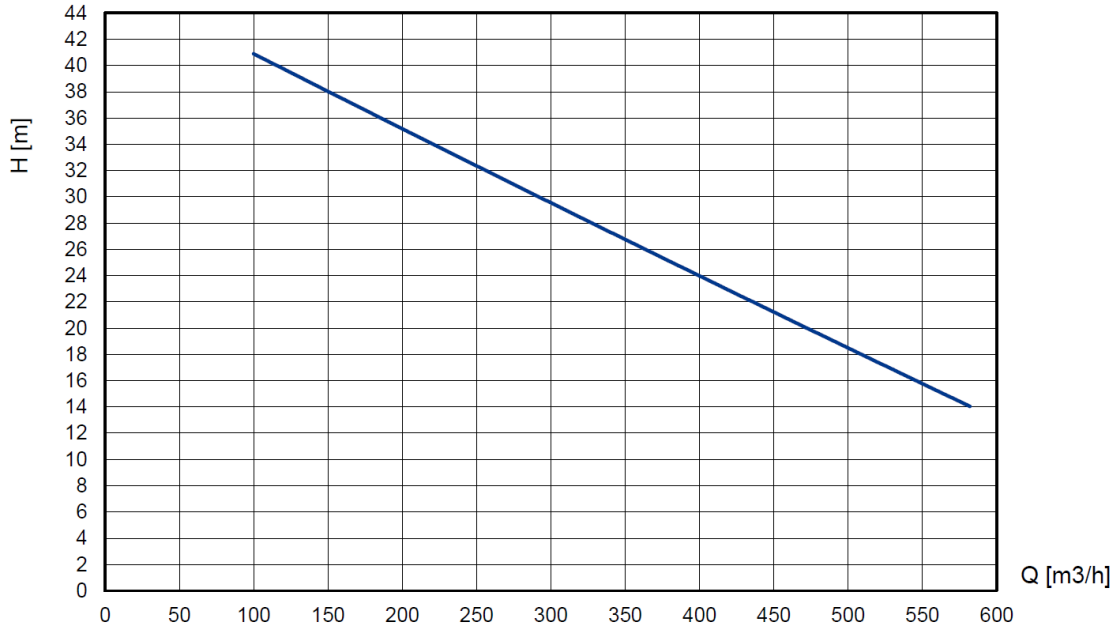
- Complete in-house design & production
- Over 60 years of experience in the market
- Extensive testing facility in-house
- Contemporary & functional design
- Durable & eco-friendly materials
- Custom builds available

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.....580 m³/hour (2550 US GPM)
 Max. head.....41 mwc (135 feet)
 Impeller type.....Screw channel impeller
 Solids handling.....125 mm (5 inch)
 Pump casing.....Cast iron GG20
 Impeller w/ cutter slots.....Chrome Moly 42CrM04
 Suction piece.....Chrome Moly 42CrM04
 Backplate w/ cutting edges..GG25
 Pump shaft.....C45
 Shaft seal.....Mechanical seal
 Seal faces.....Tung/Sic
 Seal rubber.....Viton



BBA priming system

Pump type.....BBA MP50 Diaphragm pump
 Air handling capacity.....50 m³/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.....Hatz
 Engine type.....4H50TICD
 Max. power IFN.....55.4 kW (75 Hp)
 Variable engine speed.....1300 - 1750 RPM
 Fuel consumption.....220 g/kWh
 Displacement.....1,952 cm³
 Number of cylinders.....4
 Aftertreatment.....EGR, DOC, DPF
 Emission level.....Stage V

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

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)
- Fuel tank cap Ø 100 mm (4 inch)
- Electronic fuel injection system

Electrical system & safety features

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

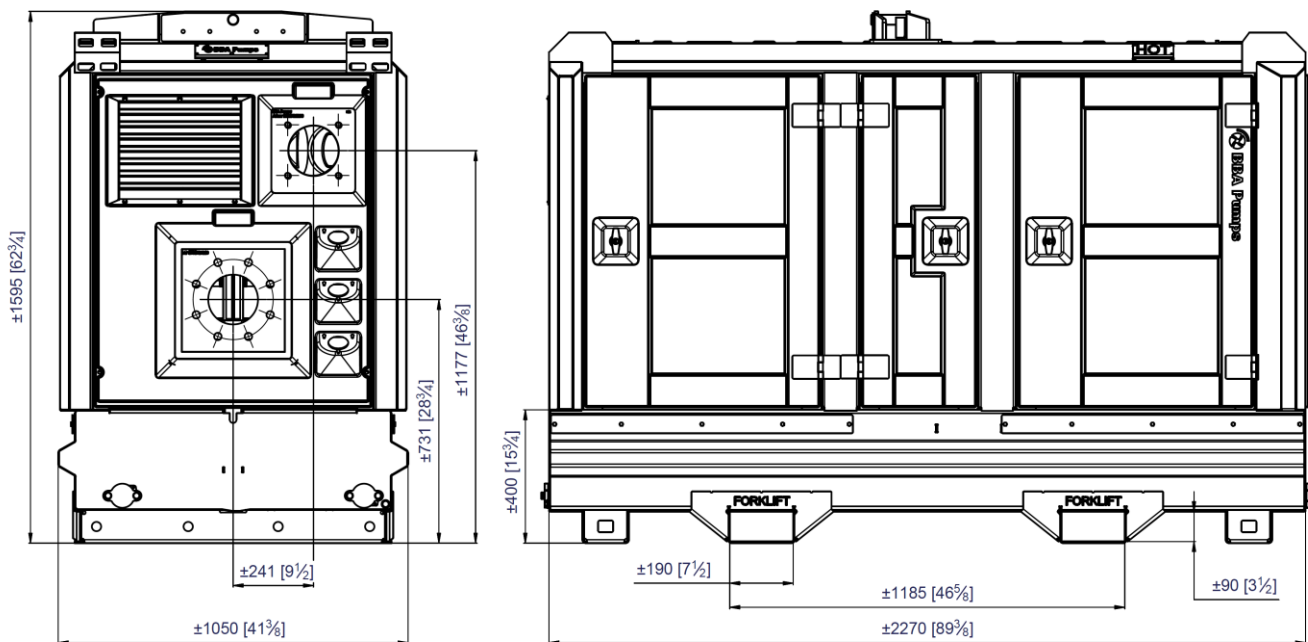
CANOPY M10-23X

BBA sound attenuating canopy

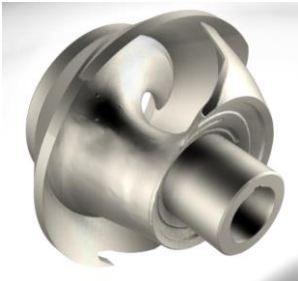
Canopy type.....	M10-23X
Dimensions L x W x H	2270 x 1050 x 1595 mm
Dimensions L x W x H	89.4 x 41.3 x 62.8 inch
Basic frame	Hot dip galvanized
Roof panel	Composite roof panel
Doors	5 lockable composite doors
Fuel tank	PE net 300 ltr (80 US Gallon)
Fuel tank autonomy	28-30 hours (at 1750 rpm BEP)
Fuel tank cap	100 mm (4 inch)
Electrical isolation	Battery isolator switch
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
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.



Large inspection covers
Easy access to float box, impeller and non-return valve.



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



Fuel tank
Fully banded, 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.

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	
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=5 metre

Art.nr.	Ø inch	Ø mm	Connection	
7047042	8	200	System IT female (cup/lever)	
7047057	8	200	Flange K295	
7047062	10	250	Flange K350	

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