


**Pump specifications:**

Type.....	BA180KS D315
Max. flow .....	580 m <sup>3</sup> /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 LPA.....	62 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
- 100% Oil-spill free priming system
- Fully bunded unit eliminating fuel/oil spills at all times

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

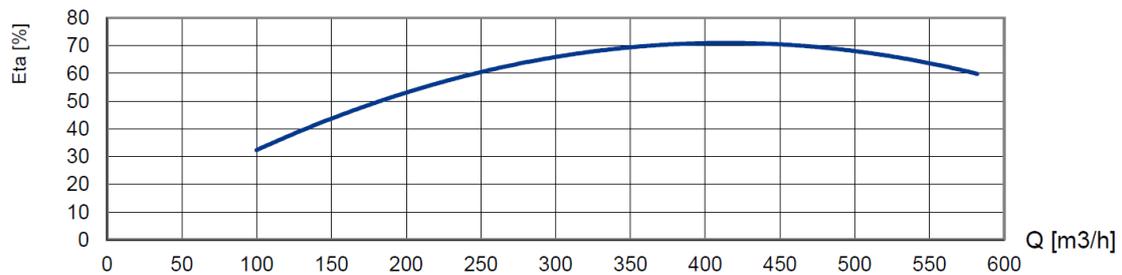
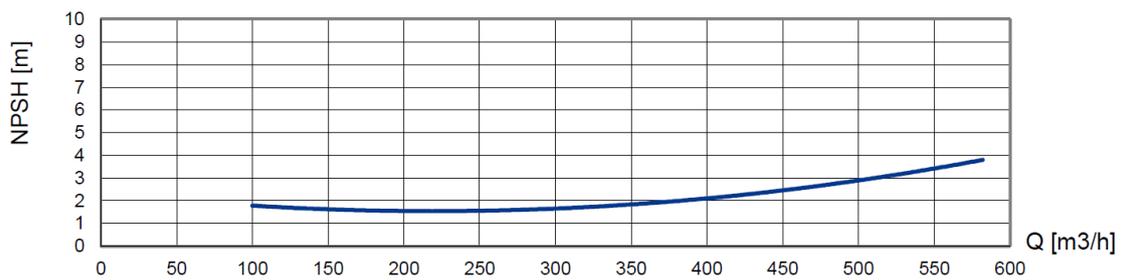
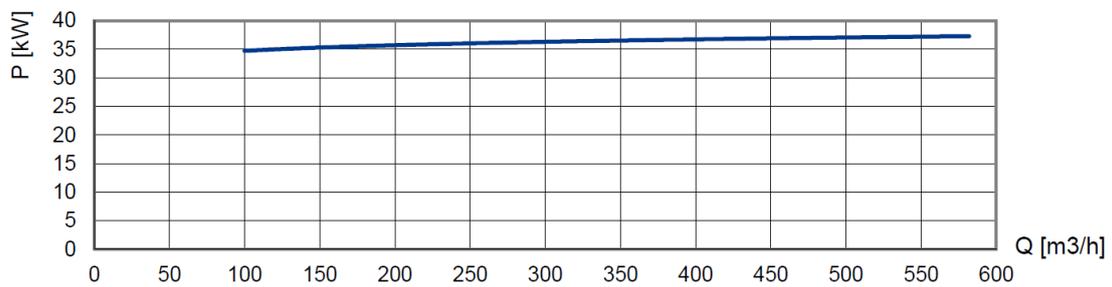
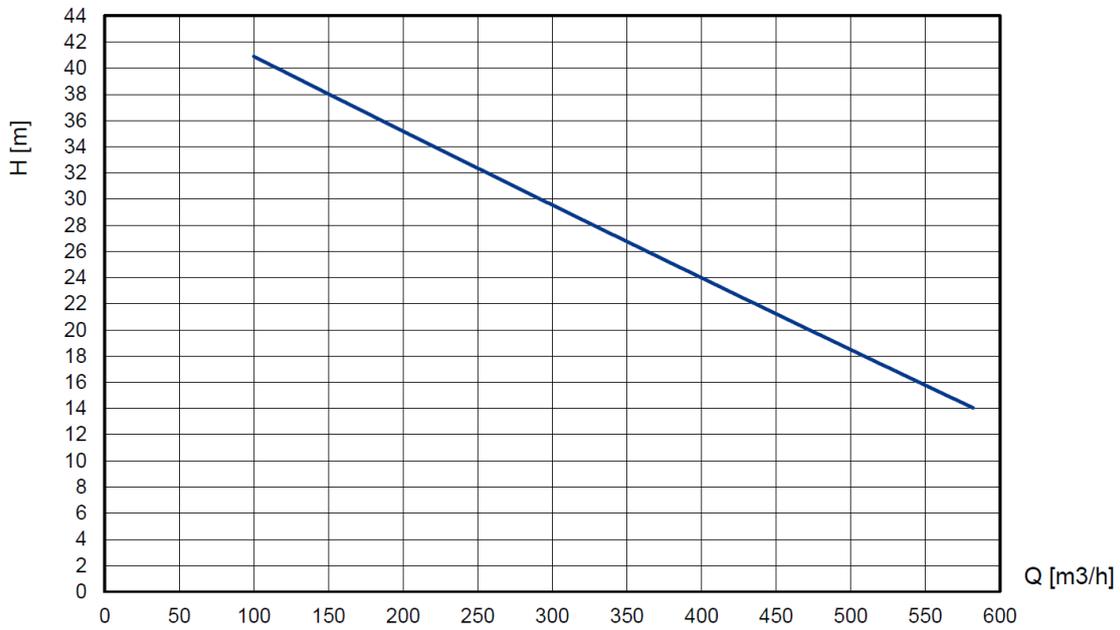
- Complete in-house design & production
- Over 70 years of experience in the market
- Extensive testing facility in-house
- Contemporary & functional design
- Durable & eco-friendly materials
- Custom builds available

**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 Pumps auto prime pump**

Pump type.....	BA180KS D315
Max. flow.....	580 m <sup>3</sup> /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 GG25
Impeller w/ cutter slots.....	Chrome Moly 42CrM04
Suction piece.....	Chrome Moly 42CrM04
Backplate w/ cutting edges..	GG25
Pump shaft.....	42CrMo4 heat treated
Shaft seal.....	Mechanical seal
Seal faces.....	Tung/Sic
Seal rubber.....	Viton


**BBA Pumps 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.....	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 cm <sup>3</sup>
Number of cylinders.....	4
Aftertreatment.....	EGR, DOC, DPF
Emission level.....	Stage V

**BBA Pumps 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**

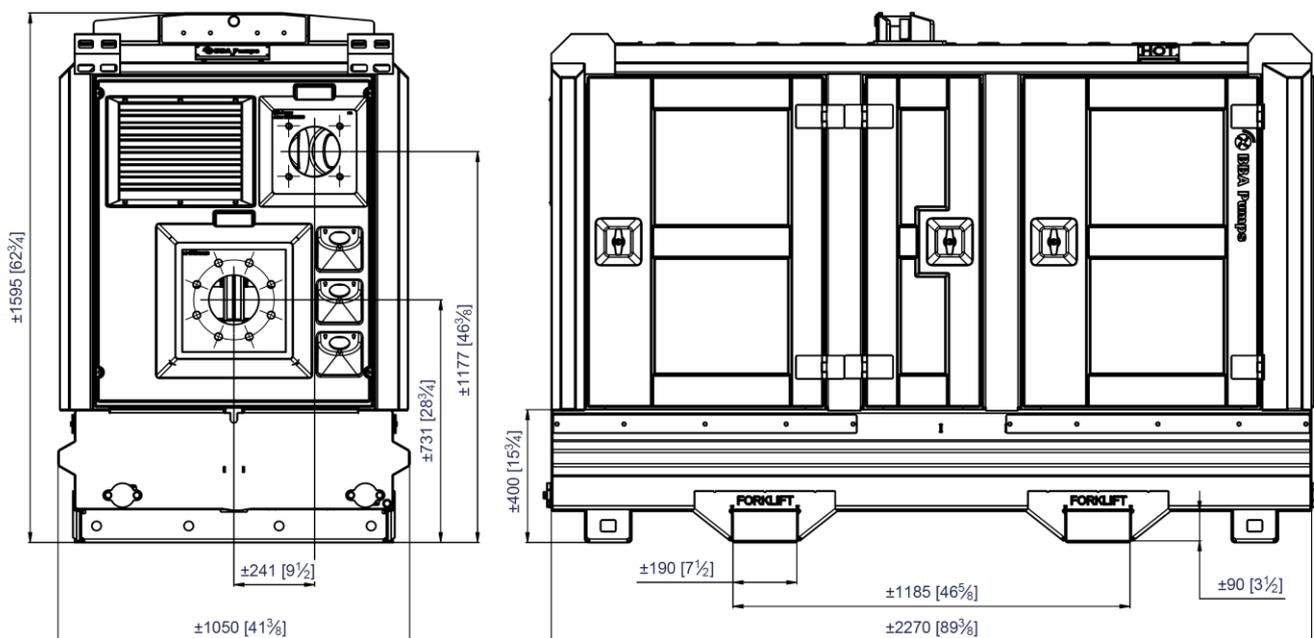
- Nominal voltage 12 Volt
- Premium quality battery
- Low oil pressure shut down

**CANOPY M10-23X**
**BBA Pumps 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
Doors .....	6 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
Sound power level (L <sub>WA</sub> ).....	91 dB(A) according ISO 3744:2010
Documentation box.....	BBA Pumps user manual and warranty book

**BBA E-lift<sup>®</sup> system**

The M10-23X canopy has been fitted with the BBA E-lift<sup>®</sup> 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 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.

## 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