



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 banded unit eliminating fuel/oil spills at all times

Complete package designed & built by BBA Pumps

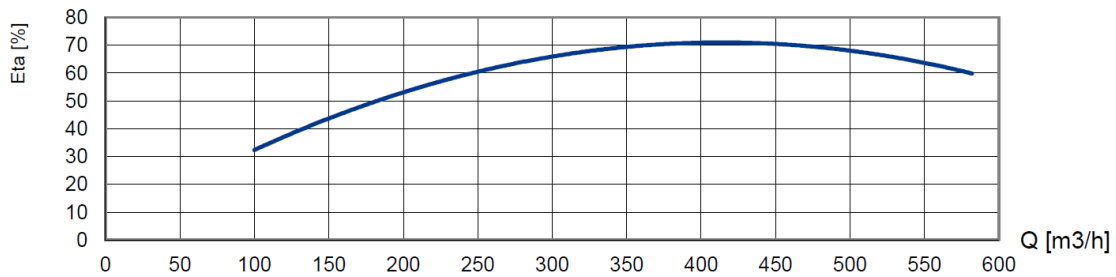
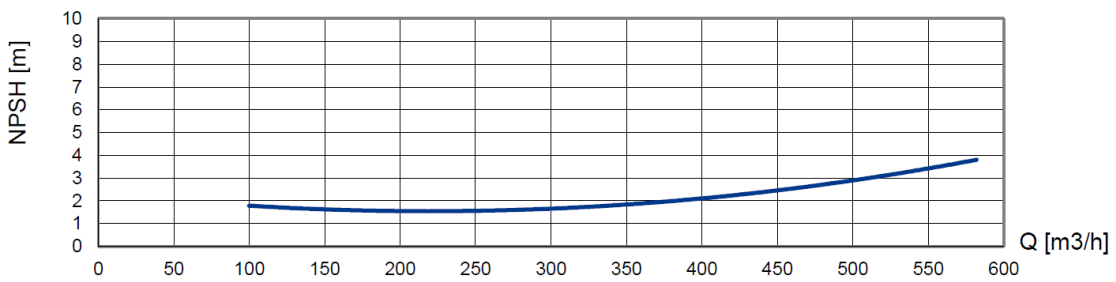
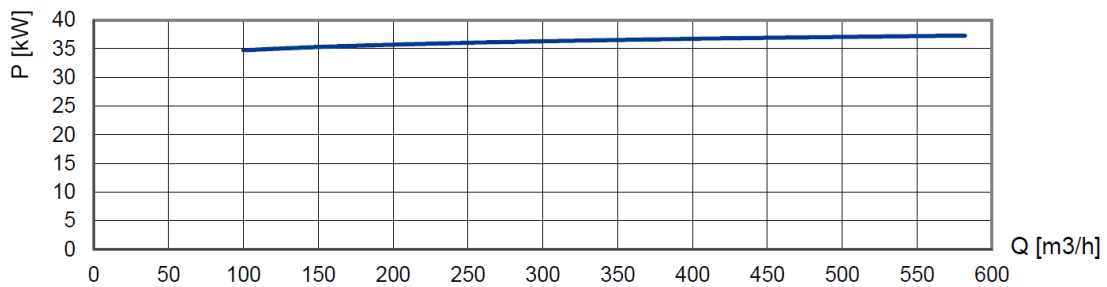
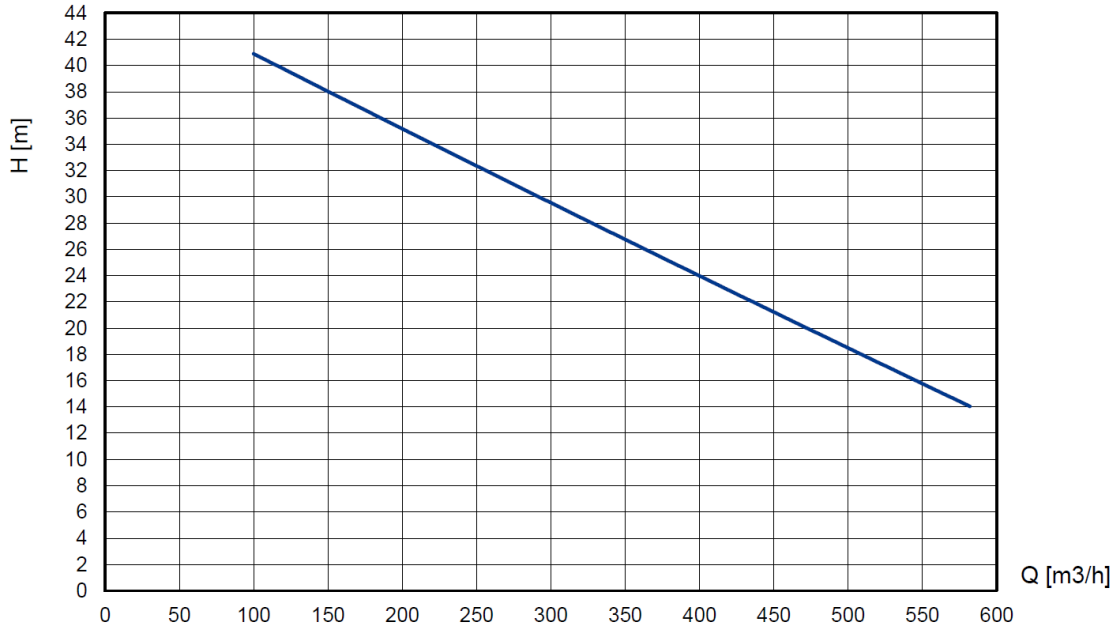
- Complete in-house design & production
- Over 60 years of experience in the market
- Extensive testing facility in-house
- Contemporary & functional design
- Durable & eco-friendly materials
- Custom builds available

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

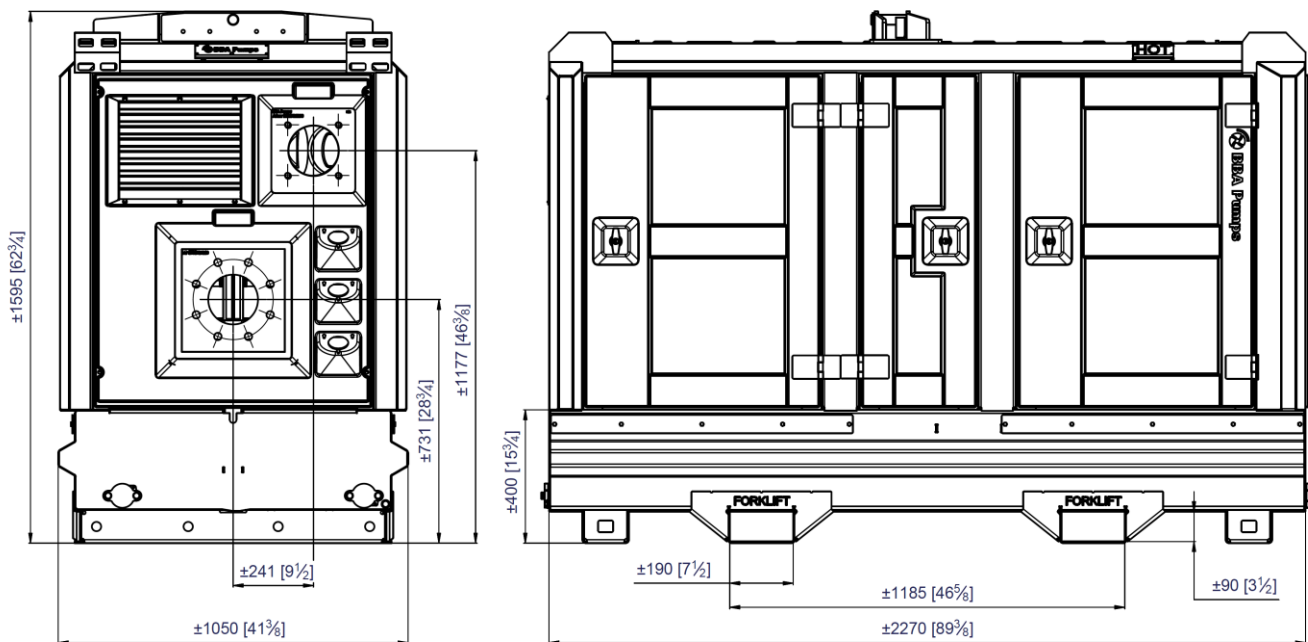
CANOPY M10-23X

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.



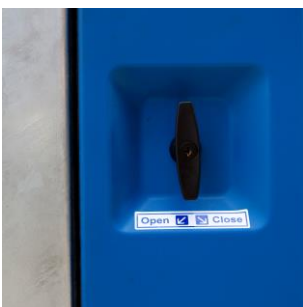
Large inspection covers
Easy access to float box, impeller and non-return valve.



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



Fuel tank
Fully 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.

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 |