# BA100K DriveOn®

Diesel Driven Pump for Sewage
Max. 185 $m^3$/hour, Max. 18 mwc

**Pump specifications:**

| | |
|---|---|
| Type | BA100K D193 |
| Max. flow | 185 $m^3$/hour (814 US gpm) |
| Max. pressure | 18 mwc (60 ft.) |
| Solids handling | 82 mm (3,23") |
| Impeller type | Channel impeller |
| Priming system | BBA MP50 |
| Diesel engine | Hatz 1D90Z DriveOn® |
| Emission standard | Stage V |
| Canopy | M10-18 |
| Connections | 4" or 6" |
| Sound level $L_{PA}$ | 50 dB(A) at 10 m |
| Dry weight | 1450 kg (3190 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”.

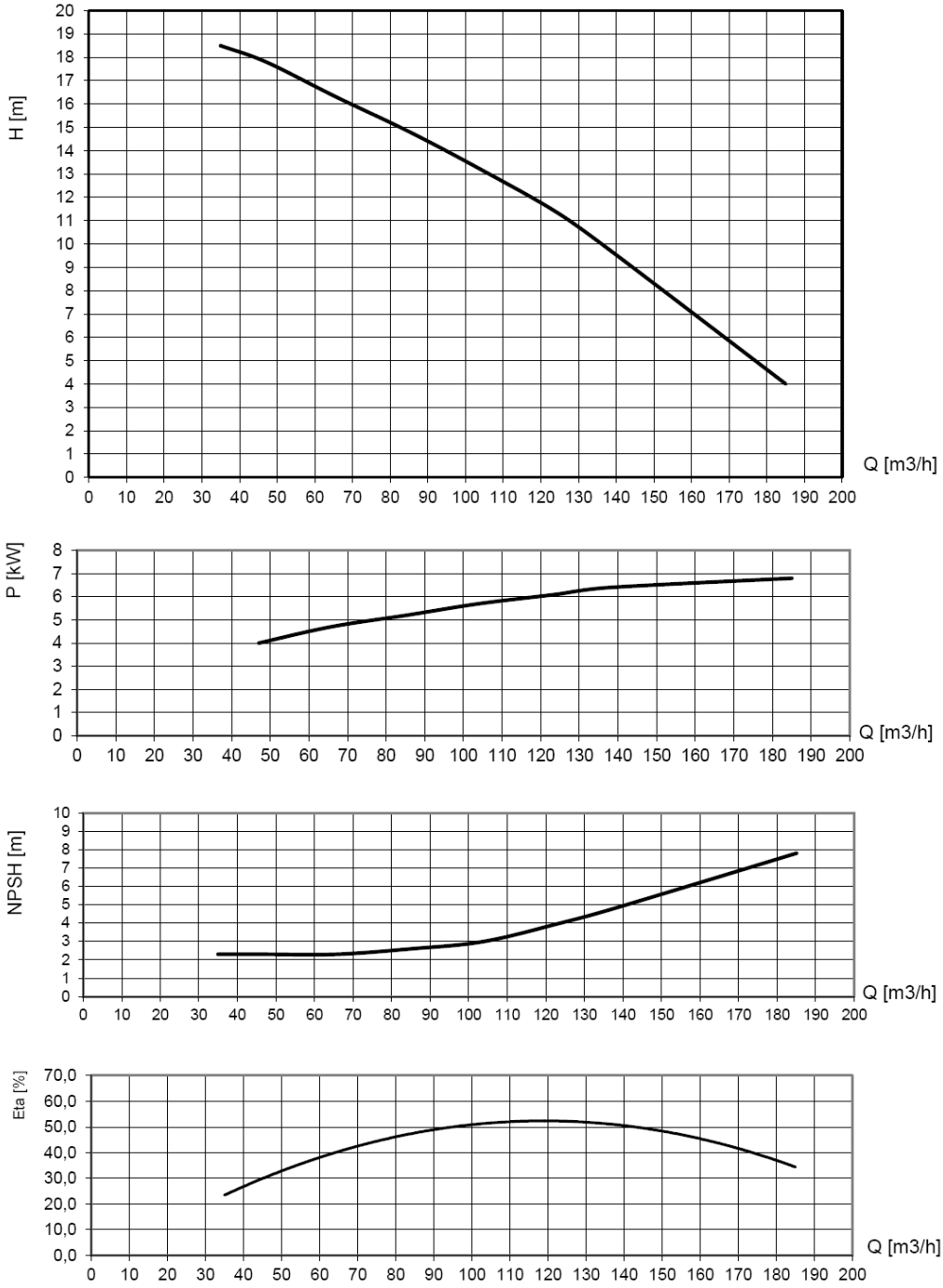
**Sustainability**
- High efficiency pumps minimising fuel consumption
- Corrosion free hot dip galvanized canopy
- Corrosion free composite door panels
- 100% Oil-spill free priming system
- Fully bunded unit eliminating fuel/oil spills at all times

**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 at 1700 rpm.

*(Continuous duty according to ISO 9906 and measured with 6" connections)*




| Engine speed rpm | | Capacity Q in m³/h 40 | 80 | 120 | 150 | Fuel consumption (BEP) l/h |
|---|---|---|---|---|---|---|
| 1700 | **H** | 18 | 15 | 12 | 8 | 1.8 |
| **1500** | mwc | **13** | **11** | **8** | **5** | **1.4** |
| 1300 | | 10 | 7 | 4 | - | 1 |

The standard factory speed setting is **1500 rpm**. please consult www.bbapumps.com for different speed curves.

## STANDARD TECHNICAL SPECIFICATIONS

**BBA Pumps auto prime pump**

| | |
|---|---|
| Pump type | BA100K D193 |
| Max. flow (6" connections) | 185 m³/hour (814 US gpm) |
| Max. flow (4" connections) | 150 m³/hour (660 US gpm) |
| Max. head | 18 mwc (60 feet) |
| Impeller type | Channel impeller |
| Solids handling | 82 mm (3.23 inch) |
| Pump casing | Cast iron GG25 |
| Impeller | Chrome Moly 42CrMo4 |
| Pump shaft | 42CrMo4 heat treated |
| Shaft seal | Mechanical seal |
| Seal faces | Tung/Sic |
| Seal rubber | Viton |

**BBA Pumps priming system**

| | |
|---|---|
| Pump type | MP50 diaphragm pump |
| Air handling capacity | 50 m³/h (30 CFM) |
| Max. vacuum | 8,5 m (25 inHg) |
| Drive | Toothed belt |
| Float box | Aluminium |
| Non return valve | Cast iron GG25 |
| Check valve disc | Buna-N |

**Engine**

| | |
|---|---|
| Engine brand | Hatz |
| Engine type | 1D90Z DriveOn® |
| Oil change interval | 1500 running hours |
| Power | 6,9 kW (9.4 Hp) |
| Engine speed | Variable 1300 - 1700 RPM |
| Speed (factory standard) | 1500 rpm |
| Fuel consumption | 227 g/kWh (at max load) |
| Displacement | 0,722 l (44 cu.in.) |
| Number of cylinders | 1 |
| Emission level | Stage V |

**BBA dashboard LC25**
- Auto start/stop system
- Two float switches included (10 m cable)
- Tachometer
- Hour counter
- Warning lights “oil and engine temperature”
- Warning light “auto stand-by”

**Fuel system**
- Composite fuel tank 220 litres (58 US gallon)
- Fuel tank cap Ø 60 mm
- Mechanical fuel gauge

**Electrical system & safety features**
- Nominal voltage 12 Volt
- Premium quality battery
- Low oil pressure shut down



PUMPS FROM HOLLAND

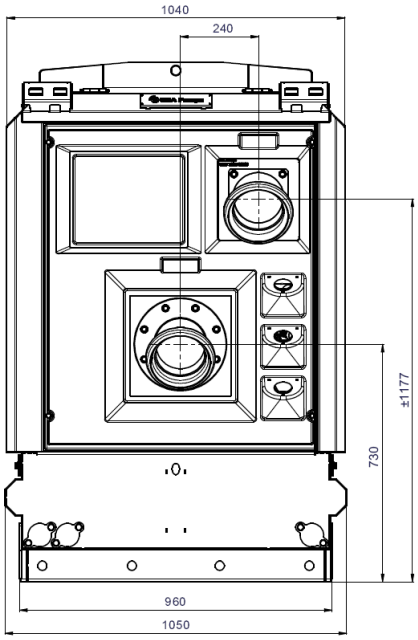
## CANOPY M10-18

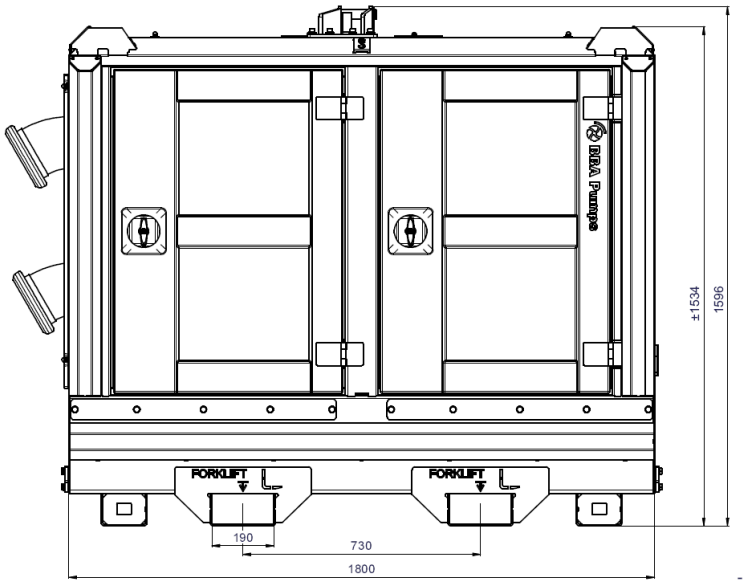
**BBA Pumps super silent canopy**

| | |
|---|---|
| Canopy type | M10-18 |
| Dimensions L x W x H | 1800 x 1050 x 1596 mm |
| Dimensions L x W x H | 71 x 41.3 x 63 inch |
| Basic frame | Hot dip galvanized |
| Roof panels (hinged) | Steel hot dip galvanised |
| Doors | 4 easy-access doors (lockable) |
| Grill and door panels | Composite ABS/ASA |
| Fuel tank | PE net 220 ltr (58 US gallon) |
| Fuel tank autonomy | 150 hours (at 1500 rpm BEP) |
| Fuel tank cap | 60 mm (2.5 inch) |
| Forklift pockets | Fitted with 2 forklift pockets |
| Lifting point | Fitted with single lifting point |
| Stackable | Canopy is stackable |
| Connections | Please consult “auxiliary items” |
| Oil drain pump | Please consult “auxiliary items” |
| Exhaust system | Fully integrated in the canopy |
| Sound power level ($L_{WA}$) | 79 dB(A) according to ISO 3744:2010 |
| Documentation box | BBA user manual and warranty book |

**BBA Pumps 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 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.



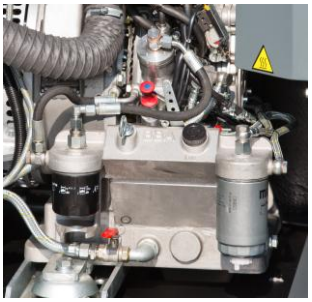




Actual dimensions (in mm) may vary depending on selected quick couplings.



PUMPS FROM HOLLAND

**Channel impeller**
Wear-resistant Chrome Moly channel impeller, capable of handling solids up to 82 mm.



**Hatz DriveOn®**
-Large engine oil sump
-Service interval 1500 hours
-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.

Pictures used are for illustration purposes only.



PUMPS FROM HOLLAND

## AUXILIARY ITEMS (configurable)

### Discharge connections

| Art.nr. | | Ø inch | Ø mm | Connection | |
|---|---|---|---|---|---|
| 5080874 | 30° male (ball) | 4 | 100 | System C | |
| 5080878 | 30° male (ball/lever) | 4 | 100 | System B | |
| 5080879 | 30° female (cup) | 4 | 100 | System B | |
| 5080877 | 30° male (ball) | 6 | 150 | System C | |
| 5080881 | 30° male (ball/lever) | 6 | 150 | System B | |
| 5080876 | 30° female (cup) | 6 | 150 | System B | |

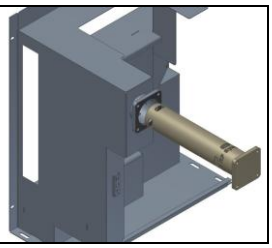
### Suction connections

| Art.nr. | | Ø inch | Ø mm | Connection | |
|---|---|---|---|---|---|
| 5080891 | 30° male (ball) | 4 | 100 | System C | |
| 5080886 | 30° male (ball/lever) | 4 | 100 | System B | |
| 5080885 | 30° female (cup) | 4 | 150 | System B | |
| 5080887 | 30° male (ball) | 6 | 150 | System C | |
| 5080890 | 30° male (ball/lever) | 6 | 150 | System B | |
| 5080889 | 30° female (cup) | 6 | 150 | System B | |

### M10-23 Kit

| | | |
|---|---|---|
| 93050002 | **M10-23 Kit** | |
| | - K0 oil drain pump | |
| | - External fuel tank connections | |
| | - Battery isolator switch | |

### Exhaust system

| | | |
|---|---|---|
| | **Exhaust module prepared for DPF/DOC**<br>Future proof with the unique BBA Pumps exhaust module. Fitted as standard with a certified spark arrestor and fully prepared for installation of a diesel particulate filter & oxidation catalyst. |  |

### Environmental care

| | | |
|---|---|---|
| | **Diesel Particulate Filter & Oxidation Catalyst**<br>- Fully integrated in the exhaust module<br>- Reduction of Particulate Matter, PM > 95%<br>- Reduction of Hydrocarbon, HC > 50% maximum 65%<br>- Reduction of Carbon Monoxide, CO > 70% maximum 90%<br>- VERT® Certified | |