



**BA100K Diesel Driven**  
Dewatering and Sewage Pump  
Max. 190 m<sup>3</sup>/hour, Max. 22 mwc



**Pump specifications:**

- Type ..... BA100K D193
- Max. flow ..... 190 m<sup>3</sup>/hour (836 US GPM)
- Max. pressure ..... 22 mwc (73 ft.)
- Solids handling ..... 82 mm (3,23")
- Impeller type ..... Channel impeller
- Priming system ..... BBA MP50
- Engine ..... Hatz 1D90Z DriveOn®
- Canopy ..... M10-18
- Connections ..... 4" or 6"
- Weight (net) ..... 1450 kg (3190 lb.)
- Sound level ..... Approx. 54 dB(A) at 10 m

**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
- Exhaust system prepared for installation DPF/DOC
- Corrosion free hot dip galvanised 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 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





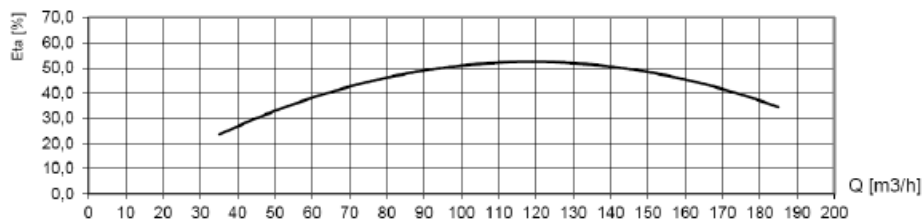
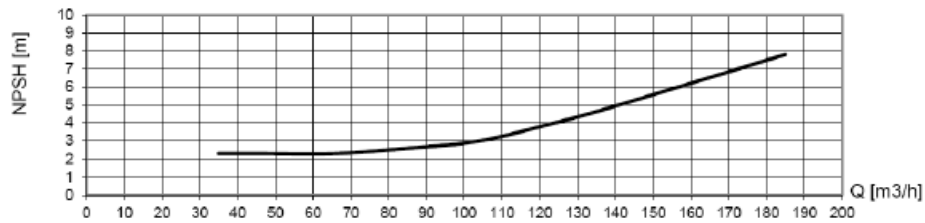
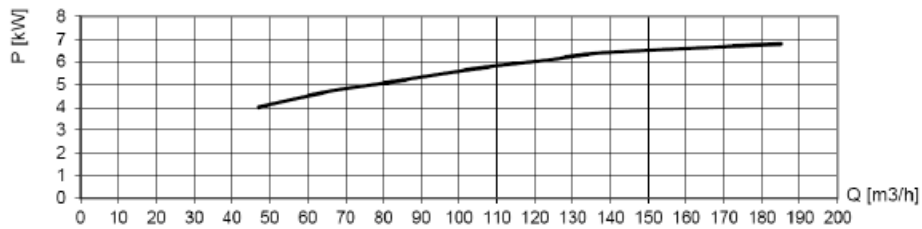
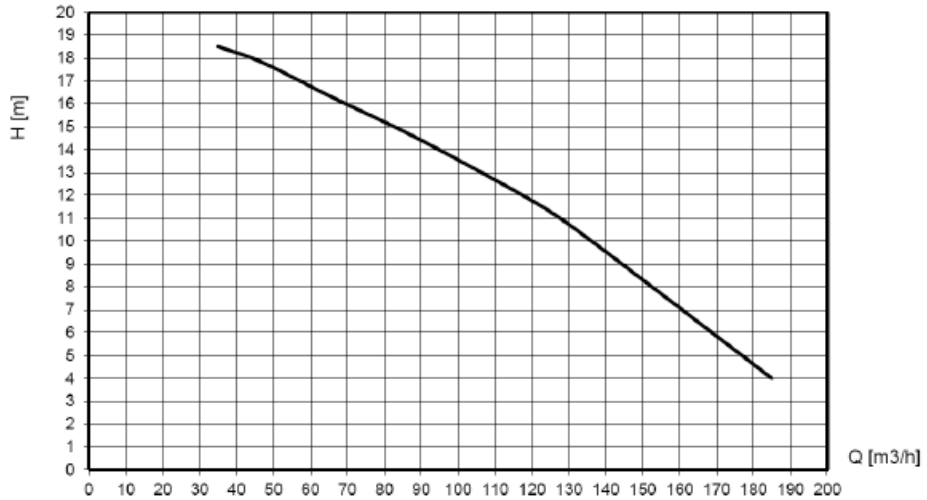
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**PERFORMANCE CURVES (1700 RPM)**

(measured with 6" connections)



Engine speed	rpm	Capacity Q in m <sup>3</sup> /h				Fuel consumption (BEP)
		40	80	120	150	l/h
H mwc	1700	18	15	12	8	1.6
	<b>1500</b>	<b>13</b>	<b>11</b>	<b>8</b>	<b>5</b>	<b>1.4</b>
	1300	10	7	4	-	1

The standard factory speed setting is **1500 rpm**. please consult [www.bbapumps.com](http://www.bbapumps.com) for different speed curves.





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**STANDARD TECHNICAL SPECIFICATIONS**

**BBA auto prime pump**

Pump type ..... BA100K D193  
 Max. flow (6" connections)... 190 m<sup>3</sup>/hour (836 US GPM)  
 Max. flow (4" connections)... 150 m<sup>3</sup>/hour (660 US GPM)  
 Max. head ..... 22 mwc (73 feet)  
 Impeller type ..... Channel impeller  
 Solids handling ..... 82 mm (3.23 inch)  
 Pump casing ..... Cast iron GG20  
 Impeller ..... Ductile iron GGG40  
 Pump shaft..... C45  
 Shaft sealing ..... Mechanical seal tung/tung/viton



**BBA 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 ..... 1D90Z electric start  
 Flywheel power (ICFN) ..... 6.5 kW (8.8 Hp)  
 Engine speed ..... Variable 1300 - 1700 RPM  
 Speed (factory standard) ..... 1500 rpm  
 Feature ..... DriveOn®  
 Oil change interval ..... 1500 running hours  
 Fuel consumption ..... 227 g/kWh (at max load)  
 Displacement ..... 0,722 l (44cu.in.)  
 Number of cylinders ..... 1  
 Exhaust emission EU ..... Not applicable  
 Exhaust emission US ..... EPA



**BBA dashboard LC20**

- Auto start/stop system
- Two float switches included (10 m cable)
- Switch Manual-O-Auto
- 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 100 mm
- Mechanical fuel injection system

**Electrical system & safety features**

- Nominal voltage 12 Volt
- Premium quality battery 72 amp.
- Low oil pressure shut down





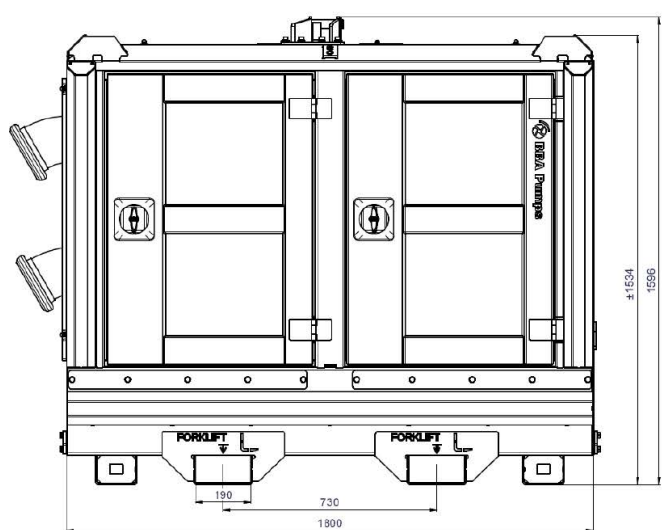
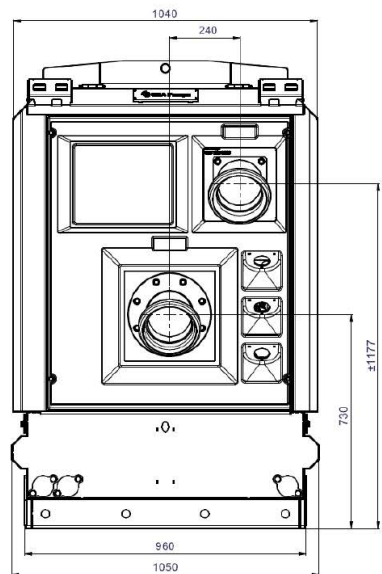
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**CANOPY M10-18**

- BBA 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 galvanised
- 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 ..... 120 hours (at 1700 rpm BEP)
- Fuel tank cap ..... 100 mm (4 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
- Spark arrestor ..... Lloyd & Veritas approved
- Documentation box ..... BBA user manual and warranty book

**BBA 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 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) may vary depending on selected quick couplings.



EXCLUSIVE DEALER



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**BBA Pumps**

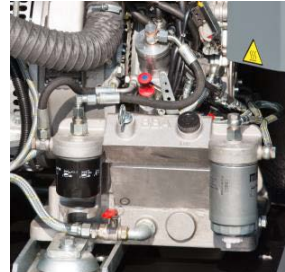
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#### Channel impeller

GGG40 channel impeller, ductile iron, solids handling 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.



#### RF System

The exhaust system is completed with a spark arrestor and prepared for installation of DPF/DOC.



#### Safety

Extremely durable and lockable T-locks offering perfect grip.



#### Large inspection covers

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



#### 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.



#### User Manual BA series

Extensive user manual with important information concerning the pump unit, pump installation and safety warnings. Available in several languages.






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**AUXILIARY ITEMS**

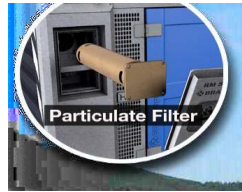
**Discharge connections**

Art.nr.		Ø inch	Ø mm	Connection	
05080874	30° male (ball)	4	100	System C	
05080878	30° male (ball/lever)	4	100	System B	
05080879	30° female (cup)	4	100	System B	
05080877	30° male (ball)	6	150	System C	
05080881	30° male (ball/lever)	6	150	System B	
05080876	30° female (cup)	6	150	System B	


**Suction connections**

Art.nr.		Ø inch	Ø mm	Connection	
05080891	30° male (ball)	4	100	System C	
05080886	30° male (ball/lever)	4	100	System B	
05080885	30° female (cup)	4	150	System B	
05080887	30° male (ball)	6	150	System C	
05080890	30° male (ball/lever)	6	150	System B	
05080889	30° female (cup)	6	150	System B	

**Environmental care**

<b>9306000110</b>	<p><b>Diesel Particulate Filter &amp; Oxidisation Catalyst</b> Fully integrated in the exhaust module Reduction of Particulate Matter, PM &gt; 95% Reduction of Hydrocarbon, HC &gt; 50% maximum 65% Reduction of Carbon Monoxide, CO &gt; 70% maximum 90% VERT® Certified</p>	
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**M10-23 Kit**

<b>93050002</b>	<b>M10-23 Kit</b>	
	- KO Oil drain pump	
	- External fuel tank connections	
	- Battery isolator switch	

**Recommended suction pipe ID vs flow rates by pipe dimension (maximum velocity = 4 m/sec)**

m <sup>3</sup> /h	US gallons	FLOW (L/sec)	4" 100	5" 125	6" 150	8" 200
72	317	20	2.55	1.63	1.13	0.64
90	396.3	25	3.18	2.04	1.41	0.80
108	475.5	30	3.82	2.44	1.70	0.95
144	634	40	5.09	3.26	2.26	1.27
180	792.5	50	6.37	4.07	2.83	1.59
216	951	60	7.64	4.89	3.40	1.91

