BA700G Diesel Driven
Ultra High Flow Dewatering Pump
Max. 7800 m³/hour, Max. 23 mwc

Pump specifications:

Type	BA700G D810
Max. flow	7800 m³/hour (34,300 US gpm)
Max. pressure	23 mwc (76 ft.)
Discharge x suction	DN700 x DN800
Solids handling	145 mm (5.7")
Impeller type	Mixed flow impeller
Priming system	BBA MP100
Engine	Volvo Penta TAD1345VE
Emission standard	Stage II – Tier 2
Canopy	EL23-58
Sound level L_{PA}	76 dB(A) at 10 m
Dry weight	12.000 kg (26,400 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”.

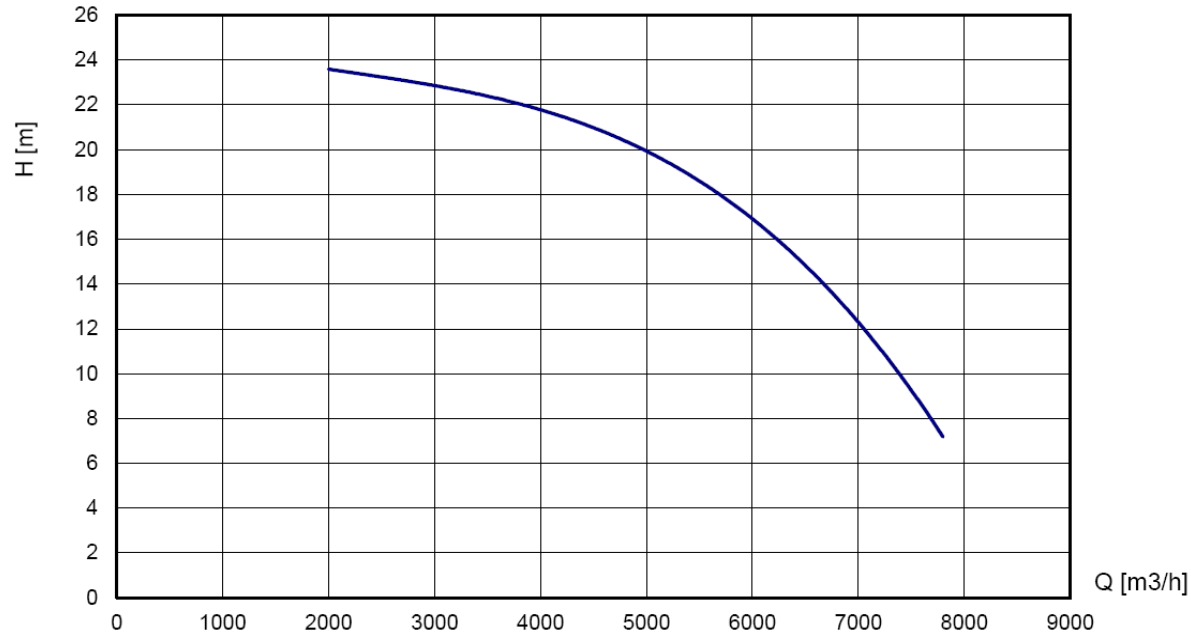
Sustainability
- High efficiency pumps minimising fuel consumption
- Corrosion free hot dip galvanised canopy
- Corrosion free composite door panels
- 100% Oil-spill free priming system
- Fully bunded unit eliminating fuel/oil spills at all times

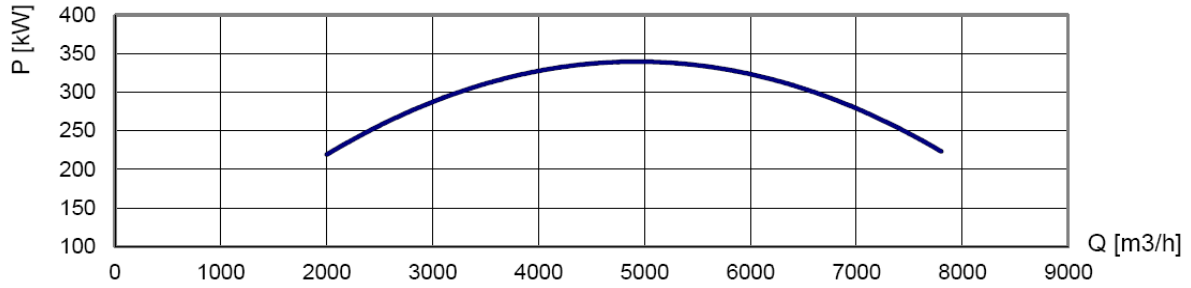
Complete package designed & built by BBA Pumps
- Complete in-house design & production
- Over 70 years of experience in the market
- Complete testing facility in-house
- Contemporary & functional design
- Durable & eco-friendly materials
- Custom builds available

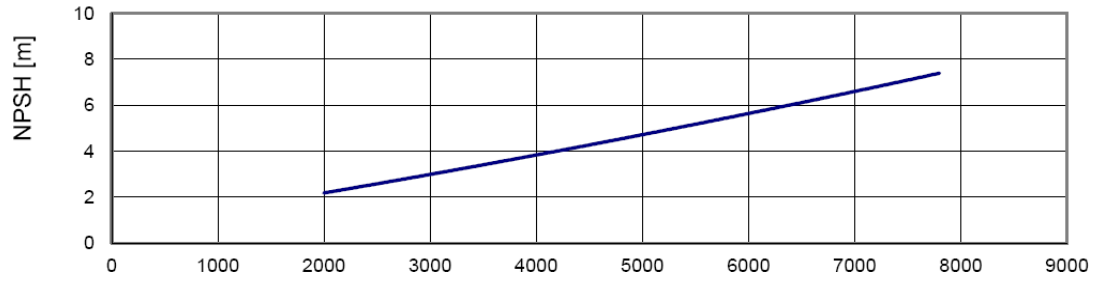
After sales service & product support
- Single supplier for parts, spares & accessories
- Dedicated customer help-desk (24h service)
- Dedicated service department in-house
- Global parts distribution network
- Optional global on-site servicing available
- Extensive training options available (technical & commercial), on-site or in-house

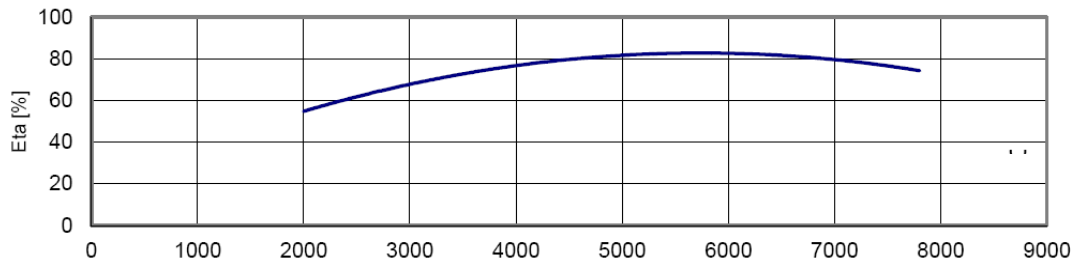
PERFORMANCE CURVES (590 RPM)

Continuous duty according ISO 9906









STANDARD TECHNICAL SPECIFICATIONS

BBA auto prime pump

Pump type	BA700G D810
Max. flow	7800 m³/hour (34,300 US gpm)
Max. head	23 mwc (76 feet)
Discharge flange	DN700 (PN6) K810
Suction flange	DN800 (PN6) K920
Impeller type	Mixed flow impeller
Solids handling	145 mm (5.7 inch)
Best efficiency point	85%
Pump casing	Cast iron GG25
Impeller	Ductile iron GGG40
Pump shaft	42CrV6
Shaft seal	Mechanical seal

BBA priming system

Pump type	BBA MP100 Diaphragm pump
Air handling capacity	100 m³/h (59 CFM)
Max. vacuum	8.5 m (29 inHg)
Drive	E-motor 24V
Float box	St 37 hot dip galv.
Float	Stainless steel 304
Start/stop	Fully automatic

Engine

Engine brand	Volvo Penta
Engine type	TAD1345VE
IFN power	368 kW (500 Hp)
Rating	IFN power
Fuel consumption	200 g/kWh
Governor type	Electronic
Displacement	12.78 l
Number of cylinders	6
Emission level	Stage II – Tier 2

BBA control panel LC45

- 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)

BBA non-return valve DN700

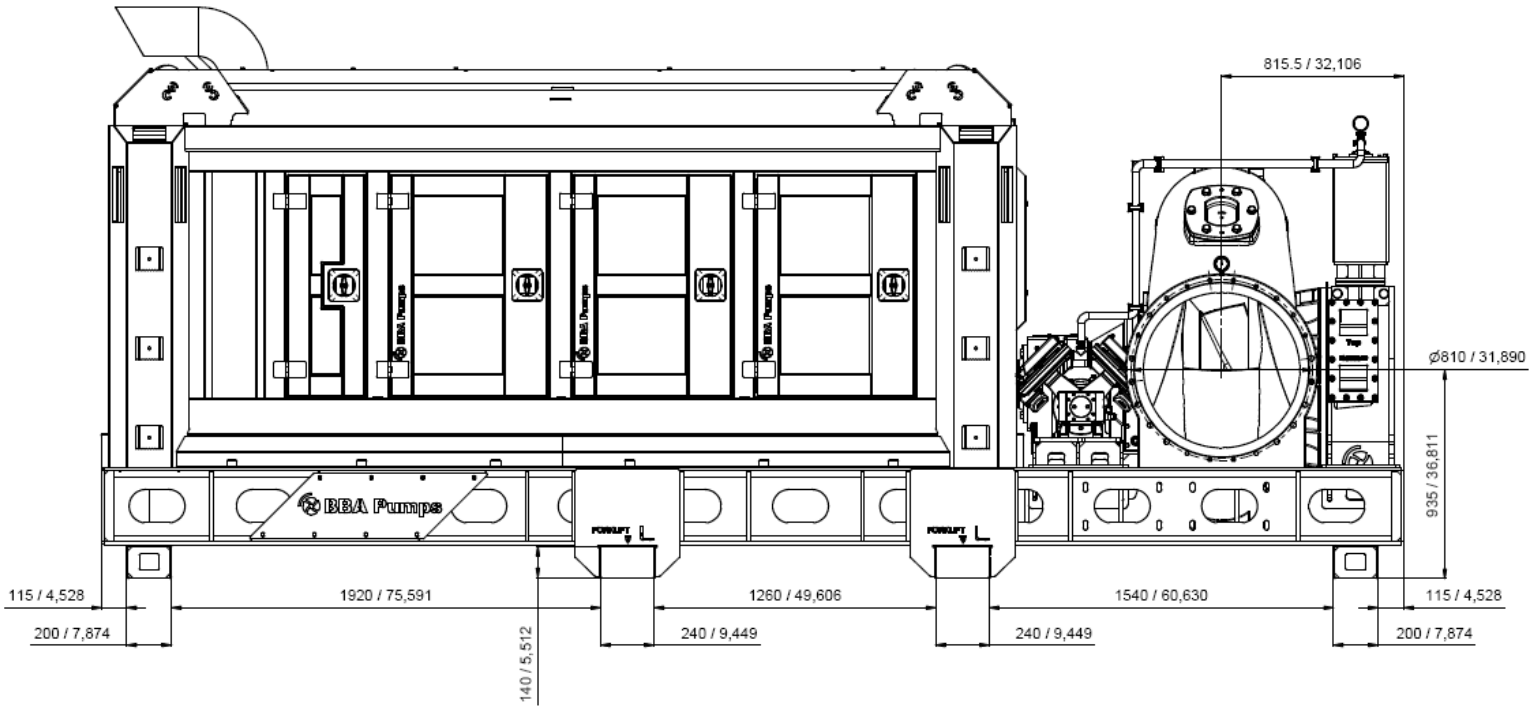
Flange size entrance	DN700 PN6
Flange size delivery	DN800 PN6
Casing	St 37 hot dip galvanised
Max. pressure	3.5 bar – 50 PSI

(More technical details see separate non-return valve data sheet)

CANOPY EL23-58

BBA sound attenuating canopy

Canopy type	EL23-58
Dimensions L x W x H	5830 x 2306 x 2300 mm
Dimensions L x W x H	229 x 90.8 x 90.5 inch
Basic frame	Hot dip galvanised
Doors	8 Easy-access doors (lockable)
Door panels	ABS/ASA
Fuel tank	PE net 300 ltr. (80 US Gallon)
Fuel tank autonomy	3 hours (at 1500 rpm BEP)
Fuel tank cap	60 mm (2.5 inch)
Forklift pockets	Fitted with 2 forklift pockets
Lifting point	Fitted with 4 lifting points
Oil drain pump	Drain pump for motor oil installed (hand pump)
Connections	Please consult “auxiliary items”
Exhaust system	Integrated in the canopy
Emergency stop	Applicable
Additional	Fitted with oil-water separator
Sound power level (L_{WA})	105 dB(A) according ISO 3744:2010
Documentation	User manual & BBA warranty book



Actual dimensions (in mm & inches) may vary depending on selected connections.

BBA Pumps

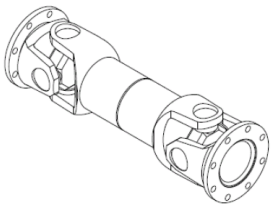
BA700G Diesel Driven
Ultra High Flow Dewatering Pump
Max. 7800 m^3/hour, Max. 23 mwc

Factory Acceptance Test
Extensive testing facility in-house. FAT must be conducted formally and be witnessed by the owner and/or project manager.

LED lights
Fully integrated in the canopy for easy operation throughout the evening and night.

Safety
Extremely durable and lockable T-locks offering perfect grip.

Fuel tank
Fully bunded, corrosion-free, 300 liter, high-density polyethylene (HDPE) fuel tank, located in base of canopy.



Cardan shaft
Cardan shaft between pump and diesel engine for smooth operation, assembly angle 2.5° - 3°.

Ratio transmission gearbox
Hydraulically actuated clutches and helical gearing for a smooth operating speed reduction between engine and pump.

Double vacuum pump
Diaphragm pump, air-cooled, water-resistant and oil-spillage free.
Air capacity of 100 m^3 per hour.

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

Pictures used are for illustration purposes only.

PUMPS FROM HOLLAND