DEWATERING PUMP SET



GPE

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DIESEL DRIVEN
HIGH HEAD SOLIDS
HANDLING PUMP



DEWATERING PUMP SET



PUMP SPECIFICATION

Max. Flow : 1100 m³/hour max (4843 US GPM)

Max. Pressure : 107 mwc (358 ft.)

Connections : Discharge DN 200 (8")

Connections : Suction DN 250 (10")

Solids Handling : 86 mm (3.4")

Impeller Type : Semi-open impeller

Priming System : BBA MP 100

Engine : Caterpillar C9 ACERT™

Frame : ET 12-40 Weight (net) : Kg (lb)

BA AUTO PRIME PUMP

The BA range of pumps have 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 effieciency 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
- Emissions in accordance with EU stage & US EPA Tier regulations
- Corrosion free hot dip galvanised frame
- 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
- 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 departement in-house
- Global parts distribution network
- Optional global on-site servicing available
- Extensive training options available (techinical & commercial), on-site or in-house



STANDARD TECHNICAL SPECIFICATIONS

BBA AUTO PRIME PUMP

Max. Flow : 1100 m³/hour max (4843 US GPM)

: 107 mwc (358 feet) Max. Head Impeller Type : Semi - open impeller Solids Handling : 86 mm (3.4 inch) Pump Casing : Cast iron GG20 **Impeller** : Cast iron GG20 : 17-4Ph Pump Shaft : Cycloseal® Shaft Seal Seal Faces : Tungsten/Sic

Additional : (DVS) Double Volute System





BBA PRIMING SYSTEM

Air Handling Capacity : 100 m³/h (59 CFM)

Max. Vacuum : 8.5 (29 inHg)

Drive : Toothed belt (continuous drive)

Float Box : Alumunium
Float : SSte 304
Non Return Valve : Cast Iron GG25
Check Valve Disc : Buna-N

Engine Brand : Cartepillar
Engine Type : C9 ACERT
Flywheel Power : 198 kW (270 Hp)
Max. Engine Speed : 1800 RPM
Fuel Consumption : 215 g/kWh
Displacement : 8.8 I
Number of cylinders : 6

Cooling System : Water Cooled Exhaust Emission EU : Stage IIIA Exhaust Emission US : Tier 3





BBA AUTO PANEL LC08

- Auto start / stop system
- Two float switches included (10 cable)
- RAMP-UP / DOWN function
- Rpm. Control with push buttons
- Fuel gauge
- Warning lights
- CAN Monitor Display

The CAN-MD Display additional engine data, e.g. Actual engine speed, working hours, battery volatge, fuel consumption and failures in clear text etc.

FUEL SYSTEM

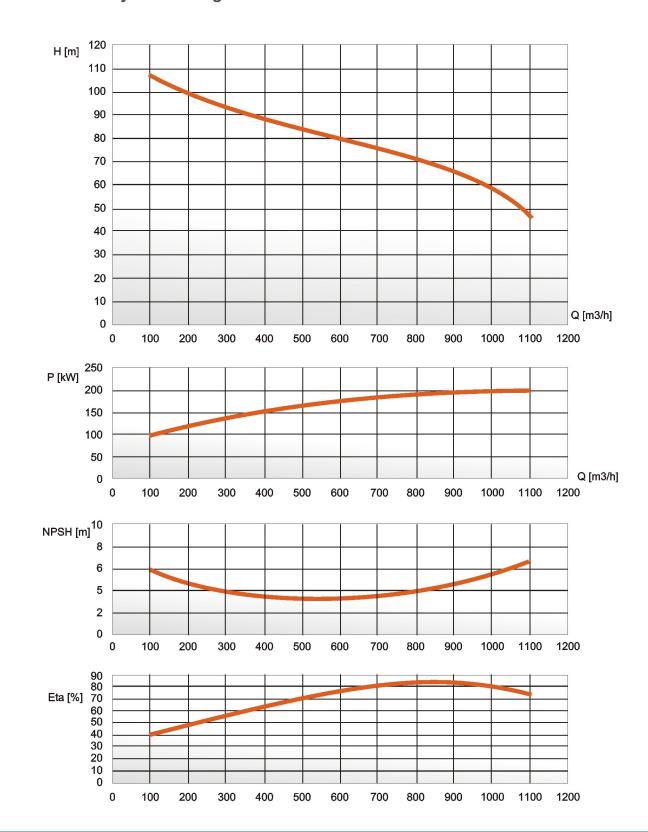
- PE fuel tank 300 L. Net (80 US Gallon)
- Fuel tank cap O 60 mm
- Electronic fuel injection system (ACERT ™)
- Fitted with water separator & extra in-line fuel filter

ELECTRICAL SYSTEM & SAFETY FEATURES

- Premium quality battery 180 amp. 24 volt
- Low oil pressure shut down
- High temperature shut down
- Overload shutdown

PERFORMANCE CURVES (1800 RPM)

Continuous duty according ISO 9906



Engine Speed Rpm		Capacity Q in m ³ /h 400 600 800 1000				Fuel Consumption (BEP) I/h
1800	H mwc	87	78	70	58	55
1650		73	65	58	48	43
1500		60	52	42	28	30

FR ET 12-40

BBA Open Diesel

Frame Type : ET 12 - 40
Dimension L x W x H : 4000 x 1200 x 2300 mm

Dimension L x W x H : $157.5 \times 47.2 \times 90.5$ Basic Frame : Hot dip galvanised

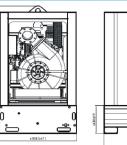
Fuel Tank : PE net 300 ltr (80 US Gallon)
Fuel Tank Autonomy : 5 hours (at 1800 rpm BEP)

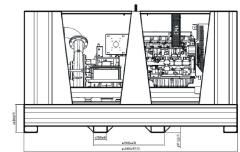
Fuel Tank Cap : 60 mm (2.5 inch)

Forklift Pockets : Fitted with 2 forklift pockets
Lifting Point : Fitted with single lifting point

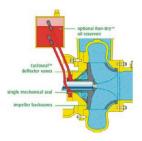
Connections : Please consult "auxiliary items" in overleaf

Exhaust System : Exhaust is mounted on the engine Additional : Fitted with oil-water seperator





Actual dimensions in mm & inches (and may not reflect final execution)



CYCLOSEAL®

Cylcloseal® desigin, with its unique deflector vanes, works with the impeller backvanes to create a cylcloaction. This action removes solids and abrasive material from the seal area.



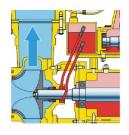
DOUBLE VACUUM PUMP

Diaphragm pump, air-cooled, water-resistant and oil-spillage free. Air capacity of 100 m³/hour.



FUEL TANK

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



RUN-DRY OPTION

All of the pumps in the BA series are designed to run dry for longer periods. The mechanical seal is cooled by an external oil corculation system.



CARDAN SHAFT

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



INTERCHANGEABLE PARTS

Modular construction to ensure minimal spare part stock levels.



USER MANUAL BA and BA-C

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

* Picture used are for illustration purposed only

