

RESOLUTION NO. 23-212

A RESOLUTION OF THE CITY OF PANAMA CITY BEACH, FLORIDA, APPROVING THE PURCHASE OF AN EIGHT INCH PORTABLE BYPASS PUMP FROM AAG SERVICES, INC., IN THE TOTAL AMOUNT OF \$103,630; AND AGREEING TO BE BOUND BY THE TERMS AND CONDITIONS OF THE FLORIDA SHERIFFS ASSOCIATION COOPERATIVE PURCHASING PROGRAM GOVERNING THAT PURCHASE.

BE IT RESOLVED by the City Council of the City of Panama City Beach, Florida that:

1. The appropriate officers of the City are authorized to execute and deliver on behalf of the City that certain proposal between the City and AAG Services, Inc., relating to the purchase of an Eight-Inch Diesel Powered High Head Portable Bypass Pump for the Lift Stations Division in the amount of One Hundred Three Thousand, Six Hundred and Thirty Dollars (\$103,630.00) in substantially the form **attached** as Exhibit A and presented to the Council today, with such changes, insertions or omissions as may be approved by the City Manager and whose execution shall be conclusive evidence of such approval.
2. By accepting the proposal referenced above, that the City agrees to be bound to the same terms and conditions as were obtained by the Florida Sheriffs Association, through an advertised, competitive bidding process, Contract No. FSA20-EQU18.0 Heavy Equipment, in the form **attached** as Exhibit B.

THIS RESOLUTION shall be effective immediately upon passage.

PASSED in regular session this 24th day of August, 2023.

CITY OF PANAMA CITY BEACH

By: 
Mark Sheldon, Mayor

ATTEST:


Lynne Fasone, City Clerk



7222 Cross Park Drive, North Charleston, SC 29418 | United States | 00+1 843.849.3676
info@bbapumps.com | www.bbapumps.com

FSA Contract Authorized Distributor Letter

Date: Tuesday, 15 August 2023

To whom it may concern,

This letter is to certify that **AAG Services, Inc.** is an authorized distributor of BBA Pumps, Inc. in Florida for all items listed on the FSA contract; FSA20-EQU18.0, Heavy Equipment, Group: Pump, Item: 267.

Distributor:
AAG Services, Inc.
2340 Industrial Drive
Panama City, FL 32405

Office: 850.763.9386

AAG Services, Inc. has been approved to promote, distribute, sell and offer technical assistance for BBA Pumps, Inc.

If you should have any questions, please don't hesitate to contact me.

Best regards,

Rob Blakely

Robert Blakely
Vice President
BBA Pumps, Inc.

Cell: 813.347.2367
Email: rblakely@bbapumps.com



2340 Industrial Dr Panama City, FL 32405

Phone: 850-763-9386 Fax: 850-785-8545

Cell: 850-814-7702

brian@aagpumps.com

www.aagpumps.com



PROPOSAL & SCOPE OF SUPPLY

DATE: 07/27/2023
PROPOSAL No.: 07272023BDJ
PROPOSAL NAME: PCB – 8” Bypass Pump 7-2023
LOCATION: Panama City Beach, Florida
REPRESENTATIVE: AAG Services, Inc.
CONTACT: Brian D. Justice

AAG Services is pleased to offer the following quote for your consideration.

8” BYPASS PUMP EQUIPMENT:

Quantity ONE (1) BBA Skid Mount BYPASS Pump, Model No.: BA180E D328, w/FDOT Tandem Axle Trailer

Includes the following features and accessories:

Pump Features:

- BBA Auto Prime Pump
- Tungsten Carbide vs. Silicon Carbide Seal
- BBA Diaphragm Pump Priming System
- Dry Run Reservoir Seal Protection
- Grease Lubricated Bearings
- High Efficient Enclosed Chrome Moly Open Impeller & Wear Plate w/3.15” (80mm) Solids Handling
- Suction Diameter: 8”
- Discharge Diameter: 8”

Engine Features:

- Perkins Model 904J-E36TA, In-Line 4 Cylinder Diesel, 122HP
- Variable speed, 1300 - 1800 RPM
- EPA Tier 4 Exhaust Emissions
- BBA LC45 Controller

Additional Items:

- Hot Dipped Galvanized Basic Frame
- Skid Mounted w/Integrated 80gal Composite Fuel Cell, 15 hour max run time (at 1800 rpm BEP)
- 10gal Composite DEF Cell
- Oil-Water Separator
- Battery Isolator Switch & 10A Battery Trickle Charger
- Sound Attenuated Enclosure w/8 lockable composite doors, 74dB (A) @ 33’
- 50’ Float Set, Weighted 2-Wire, (2 ea.)
- Junction box connections for SCADA tie-in
- Interior & Exterior Lighting

WARRANTY:

This proposal is offered as an acceptable pumping system based upon descriptive items listed above. Deviations from the equipment described could result in a price adjustment.

- **Bypass Pumping System Equipment:** BBA Pumps products offers a Four (4) year limited warranty against defects in materials and workmanship. A copy of the warranty document is included with this Proposal.

PRICING:

Total price, F.O.B. shipping point, freight allowed to jobsite in contiguous 48 U.S. states, plus any Federal, State or Local Taxes which may apply.

NOTE: All Pricing Below is Per FSA Contract FSA20-EQU-18.0

6” BYPASS PUMP EQUIPMENT (Per FSA Schedule “Southern Zone” Base Model BA150E):	\$ 47,383.00
OPTION for 8” ATTENUATED PUMP w/ TANDEM TRAILER (Per FSA Schedule, BA180ED328SATM):	\$ 56,247.00
TOTAL FOR ONE (1) UNIT:	\$103,630.00



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ESTIMATED DOCUMENT & EQUIPMENT DELIVERY:

Submittal Drawings: **1 to 2 Weeks** after placement of an acceptable order (IF NECESSARY).
Assembly & Delivery: **2 to 4 Weeks** (1 in hand PC, 1 in hand South Carolina)

Based on receipt in our office of complete approval of submittal data, if required. Freight allowed to job site. AAG will provide operation and maintenance manuals to the Owner.

TERMS:

100% due and payable 30 days from date of each invoice, subject to continuing approval of credit. Payment of this invoice is in no way contingent upon payment by others. In event any amount becomes past due, buyer agrees to pay seller a fee of 1 1/2% of unpaid balance each month until paid, at the highest legal rate allowed by law, whichever is lower, plus all costs of collection including reasonable attorney's fees. Failure to pay in accordance with terms voids all warranties and no service or start-up will be authorized until account is paid in full including service fee and collection costs.

ACCEPTED THIS 28th DAY OF August 2023



PURCHASER REPRESENTATIVE

Drew Whitman, City Manager
PRINT NAME

SUBMITTED this 27th DAY of July, 2023

Brian D. Justice, P.E.
AAG REPRESENTATIVE

COMPANY NAME and CONTACT INFORMATION

City of Panama City Beach
17007 Panama City Beach Parkway
Panama City Beach, FL 32413
Phone: 850-233-5100



2340 Industrial Dr Panama City, FL 32405

Phone: 850-763-9386 Fax: 850-785-8545

Cell: 850-814-7702

brian@aagpumps.com

www.aagpumps.com



Proposal/Order Acknowledgement and Standard Terms of Sale

- 1. APPLICABLE TERMS.** These terms govern the sale by AAG ELECTRIC MOTORS AND PUMPS, INC. ("AAG") of the equipment and related services, if any (collectively referred to as the "Products"), referred to in AAG's quotation, proposal or order acknowledgment, as the case may be (collectively referred to as the "AAG's Documentation"). If any terms are included in any purchase order or other offer made by Buyer, AAG's acceptance of any such purchase order or offer is conditioned on Buyer's assent to these terms. AAG specifically rejects all additional or different terms in any of Buyer's forms or documents.
- 2. PAYMENT.** All orders are subject to credit approval. All payments for Water Management Products must be made within thirty (30) days of the date of invoice. Standard payment terms for all Building Services or Groundwater products are 2%, 10th prox. The Buyer agrees that if charges are not paid within thirty (30) days, a service charge of \$250 per month shall apply to each past due invoice. In addition, all amounts that are past due shall bear interest at the rate of two percent (2%) per month (twenty-four percent (24%) annual rate) or the maximum rate allowed by applicable law, whichever is less, will be assessed and due on the past due account. Payment of the service charge is not an alternative to payment in full. Buyer shall pay AAG the full purchase price as set forth in AAG's Documentation. Unless AAG's Documentation provides otherwise, freight, storage, insurance and all taxes, duties or other governmental charges relating to the Products shall be paid by Buyer. If AAG is required to pay any such charges, Buyer shall immediately reimburse AAG. Buyer shall pay all of AAG's reasonable costs (including attorneys' fees) of collecting amounts due but unpaid.
- 3. ORDER REQUIREMENTS/EXPRESS/CANCELLATIONS/RETURN POLICY.** Orders totaling less than \$100 (net price) shall be subject to a minimum billing charge of \$100. **Express orders** - Orders requiring special handling to ensure shipment in less than the normal lead time or same day orders are subject to an additional \$50.00 Special Handling Charge. No Special Handling Charge will be applied if the Express Order does not ship by the date committed to by the AAG Buyer Service Representative. **Cancellations** - Orders that have been approved and accepted by AAG are firm commitments and are not subject to cancellation without written consent of AAG. If cancellation is approved, it is subject to a minimum 25% charge for accrued material and fabrication costs, special engineering costs and testing, handling, and accounting costs if they are applicable. **Returned Orders** - A 25% restock fee shall apply to returned orders of off-the-shelf Products. A 15% restock fee shall apply to returned orders of off-the-shelf Products if concurrently placing orders of equal or greater value. A 50% restock fee shall apply to returned offers of assembled Products. A 100% restocking fee shall apply to returned orders of configured or manufactured Products.
- 4. SUBMITTALS.** Buyer shall prepare all drawings, specification sheets and related documents ("Submittals"). Upon Buyer's request, AAG can prepare the Submittals. AAG shall have no liability for any claimed loss incurred by the Buyer, including any claim for lost time or expenses until such Submittals are approved by Buyer or the building owner or governmental authority. Changes of any kind to approved Submittals may result in additional expenses to the Buyer, including but not limited to a change in the sale price of equipment, alternate materials of construction, additional materials testing and additional hydraulic or vibration testing. Unless Buyer authorizes and pays such additional charges and compensation, AAG may cancel the purchase agreement without incurring any financial liability.
- 5. DELIVERY.** Buyer orders will be shipped freight collect, unless the order qualifies for prepaid freight (noted below). On non-prepaid orders AAG may agree to pay freight charges and add these charges, plus a 10% handling charge (on freight charge only) to the Buyer's invoice. Single orders with ONE destination within the 48 contiguous states may qualify for freight charges to be prepaid by AAG. All Water Management and Groundwater orders will ship prepaid and charged. "Single orders" are defined as one Buyer requested ship date, with one delivery address, on one purchase order. Multiple requested ship dates must individually qualify under ONE of the following conditions:

 - a. The order includes at least 25 COMPLETE UNITS, excluding boxed domestic circulator pumps. One complete unit is defined as one pump/motor combination, or one pump end and one motor.
 - b. The net value of a single Building Services order is equal to/greater than \$5,000.
 - c. The order includes domestic circulator pumps in full skid quantities.
 - d. On qualifying prepaid shipments, Buyers may choose to ship on a carrier other than that of the AAG preferred carrier and Buyer will be billed for any applicable freight variance. Drop shipments are allowable and subject to the prepaid freight conditions above and additionally must be to a pre-approved "ship to" location. Emergency situations will require approval from AAG. Buyer may also pick up from AAG facility during normal warehouse hours given reasonable notice.
- 6. OWNERSHIP OF MATERIALS.** All devices, designs (including drawings, plans and specifications), estimates, prices, notes, electronic data and other documents or information prepared or disclosed by AAG, and all related intellectual property rights (hereinafter collectively referred to as "Trade Secrets"), shall remain AAG's property. Buyer shall not in any fashion, form or manner, misappropriate (or cause the misappropriation of) any confidential information or "Trade Secret" (as defined in the Uniform Trade Secrets Act) of AAG. AAG grants Buyer a non-exclusive, non-transferable, revocable license to use any such material solely for Buyer's use of the Equipment. Buyer shall not disclose any confidential information or trade secret to any third parties without AAG's prior written consent.
- 7. CHANGES.** AAG shall not implement any changes in the scope of work described in AAG's Documentation unless Buyer and AAG agree in writing to the details of the change and any resulting price, delivery schedule or other contractual modifications. This includes any changes necessitated by a change in applicable law occurring after the effective date of any contract including these terms.
- 8. WARRANTY. EXCEPT AS EXPRESSLY PROVIDED HEREIN, AAG MAKES NO REPRESENTATION OR WARRANTY OF ANY KIND, EXPRESSED OR IMPLIED WITH RESPECT TO ANY PUMPS, PRODUCTS, PARTS OR SERVICES PROVIDED BY AAG INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE,**



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APPLICATION OR USE. The Limited Warranty provided herewith and hereby made a part hereof states the sole and exclusive limited warranty applicable to the equipment. Such Limited Warranty can also be found at www.wilo-usa.com.

9. FORCE MAJEURE. Neither AAG nor Buyer shall have any liability for any breach (except for breach of payment obligations) caused by extreme weather or other act of God, strike or other labor shortage or disturbance, fire, accident, war or civil disturbance, delay of carriers, failure of normal sources of supply, act of government or any other cause beyond such party's reasonable control.

10. LIMITATION OF LIABILITY. NOTWITHSTANDING ANYTHING ELSE TO THE CONTRARY, AAG SHALL NOT BE LIABLE FOR ANY CONSEQUENTIAL, INCIDENTAL, SPECIAL, PUNITIVE OR OTHER INDIRECT DAMAGES, AND AAG'S TOTAL LIABILITY ARISING AT ANY TIME FROM THE SALE OR USE OF THE EQUIPMENT SHALL NOT EXCEED THE PURCHASE PRICE PAID FOR THE EQUIPMENT. THESE LIMITATIONS APPLY WHETHER THE LIABILITY IS BASED ON CONTRACT, TORT, STRICT LIABILITY OR ANY OTHER LEGAL OR EQUITABLE RECOVERY THEORY.

11. MISCELLANEOUS. If Buyer has advised in advance that the equipment is being sold in connection with a contract with the Federal government, these terms shall be deemed to include those federal acquisition regulations that are required by law to be included. These terms, together with any quotation or acknowledgement issued or signed by the AAG, comprise the complete and exclusive statement of the agreement between the parties (hereinafter referred to as the "Agreement") and supersede any terms contained in Buyer's documents, unless separately signed by AAG. No part of the Agreement may be changed or cancelled except by a written document signed by AAG and Buyer. No course of dealing or performance, usage of trade or failure to enforce any term shall be used to modify the Agreement. If any of these terms is unenforceable, such term shall be limited only to the extent necessary to make it enforceable, and all other terms shall remain in full force and effect. Buyer may not assign or permit any other transfer of the Agreement without AAG's prior written consent. The Agreement shall be governed by the laws of the State of Florida without regard to its conflict of laws provisions. Any litigation or other proceeding involving any dispute between Buyer and AAG shall be brought and maintained exclusively in either the state or federal courts located in Bay County, Florida and Buyer and AAG expressly consent to the exclusive jurisdiction of such Courts.

Bid Award

Contract: FSA20-EQU18.0, Heavy Equipment

Group: PUMP: 6 Inch Mobile Pump Package

Item: 267, BBA Pumps, BA150E, BA150E

Zone	Rank	Vendor	Price	Percent:	Build File	Options File
Western	Primary	BBA PUMPS	\$47,383.00	18.00%	Build	Options
Northern	Primary	BBA PUMPS	\$46,740.00	18.00%	Build	Options
Central	Primary	BBA PUMPS	\$46,740.00	18.00%	Build	Options
Southern	Primary	BBA PUMPS	\$47,383.00	18.00%	Build	Options

Florida Sheriffs Association Cooperative Purchasing Program
 Contract: FSA20-EQU18.0, Heavy Equipment
 Group: PUMP: 6 Inch Mobile Pump Package
 Item: 267, BBA Pumps, BA150E

Zone	Vendor	Base Model	Base Price
Western	BBA Pumps	BA150E	\$ 47,383.00
Northern	BBA Pumps	BA150E	\$ 46,740.00
Central	BBA Pumps	BA150E	\$ 46,740.00
Southern	BBA Pumps	BA150E	\$ 47,383.00

Order No.#	Description	Add/Deduct	Pricing
4" Pump Options			
BA100KD193SA	BA100K D193 - sound attenuated - no trailer	deduct	\$ (2,366.00)
BA100KD193SATM	BA100K D193 - sound attenuated - with trailer	add	\$ 3,717.00
BA100ED265SA	BA100E D265 - sound attenuated - no trailer	add	\$ 8,626.00
BA100ED265SATM	BA100E D265 - sound attenuated - with trailer	add	\$ 15,341.00
BA100ED265SAUTI	BA100E D265 - sound attenuated - trailer mounted with hose rack & 150 gallon fuel tank	add	\$ 28,199.00
47962	4" male camlock x 150lb flange		\$ 138.28
47961	4" female camlock x 150lb flange		\$ 179.56
6" Pump Options			
BA150ED285SA	BA150E D285 - sound attenuated - no trailer	add	\$ 9,343.00
BA150ED285SATM	BA150E D285 - sound attenuated - with trailer	add	\$ 16,058.00
BA150ED285SAUTI	BA150E D285 - sound attenuated - trailer mounted with hose rack & 150 gallon fuel tank	add	\$ 28,916.00
BA150KSD285SA	BA150KS D285 - screw impeller - sound attenuated - no trailer	add	\$ 8,701.00
BA150KSD285SATM	BA150KS D285 - screw impeller - sound attenuated - with trailer	add	\$ 15,416.00
BA150KSD285SAUTM	BA150KS D285 - screw impeller - sound attenuated - trailer mounted with hose rack & 150 gallon fuel tank	add	\$ 28,274.00
BA150KSD285SUBSA	BA150KS D285 SUB - hydraulic submersible - screw impeller - sound attenuated - no trailer	add	\$ 32,013.00

BA150KSD285SUBSATM	BA150KS D285 SUB - hydraulic submersible - screw impeller - sound attenuated - with trailer		add	\$	38,728.00
24488	6" male camlock x 150lb flange			\$	303.40
24489	6" female camlock x 150lb flange			\$	324.05
8" Pump Options					
BA180ED328SA	BA180E D328 - sound attenuated - no trailer		add	\$	46,841.00
BA180ED328SATM	BA180E D328 - sound attenuated - with trailer		add	\$	56,247.00
BA180KSD315SA	BA180KS D315 - screw impeller - sound attenuated - no trailer		add	\$	12,186.00
BA180KSD315SATM	BA180KS D315 - screw impeller - sound attenuated - with trailer		add	\$	18,901.00
BA200ED405SA	BA200E D405 - sound attenuated - no trailer		add	\$	71,911.00
BA200ED405SATM	BA200E D405 - sound attenuated - with trailer		add	\$	84,018.00
8MCAM	8" male camlock x 150lb flange			\$	680.31
8FCAM	8" female camlock x 150lb flange			\$	757.04
18" Pump Options					
BA-C400S8D559	BA-C400S8 D559 - sound attenuated - no trailer		add	\$	248,617.00
Warranty					
	BBA Pumps standard 4-year limited warranty				Standard
Startup					
	Authorized factory representative and/or authorized vendor representative to perform initial startup and field testing of unit after delivery. At the same time, authorized personnel will provide training on all necessary operation and field maintenance.				Included
Freight					
	Shipment and delivery of all pump orders				Included

Florida Sheriffs Association 2020/2021 – Build Form

DESIGN REQUIREMENTS: Discharge size: 6 inches; Suction size: 6 inches; Capable of 1750 GPM minimum; Capable of 160 ft. Total Dynamic Head (TDH) minimum; Duty Point, Maximum: 1,000 gallons per minute minimum (GPM) at 120 ft. Total Dynamic Head (TDH); Solids handling capability size, minimum size: 3 inches.

ENGINE: Diesel engine, appropriate to pump size at continuous duty; Emission compliant engine; Industrial grade exhaust muffler and rain cap; Oil and coolant drain lines with ball valves; Low water level shutdown switch; 12vdc system with battery rack and cables; 50 gallon minimum fuel tank with low fuel level alarm and shutdown.

PUMP: Check valve; Self-priming system.

CONTROLS: Solid state, microprocessor-based pump controls; Controls shall provide all operating, monitoring and control functions for the pump set; Controller will also provide 2 fully programmable contacts for input and output signals accordingly; Controller will provide remote start stop control with adjustable ramp (speed) time control; UL 508 R and CSA C22.2 No. 14 approved.

TRAILER: The manufacturer shall mount the diesel engine and pump unit with the above 50 gallon subbase tank on a street legal D.O.T. approved trailer; This trailer will be able to be rated for a safe travel at speeds of 60 mpg and not be limited to the following specifications: Trailer design shall be such that the County/City may easily remove the entire engine, fuel tank and pump from the trailer; 12vdc electric system; Lunette or military type towing ring with safety chains; Single point lifting bar; License plate bracket; Sand shoe type support stands front and rear; Torque spring axles to meet load of trailer; The trailer must have a VIN and a certificate of origin.

STARTUP AND COMMISSIONING: Vendor must coordinate all startup and testing activities with the engineer/owner; After field delivery of the pump and trailer, an authorized factory representative shall perform the initial startup and field testing of the pump and trailer; If conditions permit, a site will be determined where connection will be made by the County/City to test the pump package; If a site cannot be prepared a standard operational test will be performed; At the same time the startup test is performed, the factory representative will provide all necessary operation, field maintenance and minor repair training as necessary; This will also include safety procedures and hazard assessment.



Pump specifications:

Type.....	BA150E D285
Max. flow	2200 US GPM (500 m3/hour)
Max. pressure	125 ft. / 54 PSI (38 mwc)
Connections.....	6" (DN150)
Solids handling	3,15" (80 mm)
Impeller type	Open impeller
Priming system	BBA MP50
Engine	Hatz 4H50TIC
Emission standard	Tier 4 final
Trailer.....	Galvanized single axle trailer
Dry weight.....	3630 lbs. (1650 kg)

FEATURES

BA auto prime pump

The BA range of pumps has been designed with a clear focus on reliability, efficiency and durability. Featuring a fully automatic 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 demanding construction market.

World-class performance

The BA range is built to be deployed on the most demanding 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
- Emissions in accordance with EU stage & US EPA Tier regulations
- Corrosion free hot dip galvanized frames
- 100% Oil-spill free priming system

Portable pumping solutions

All of our pump trailers are specifically designed for BBA Pumps, which can be towed by most full-size pickup trucks. The BBA trailer allows contractors and rental companies the ability to safely transport our pumps from jobsite-to-jobsite.

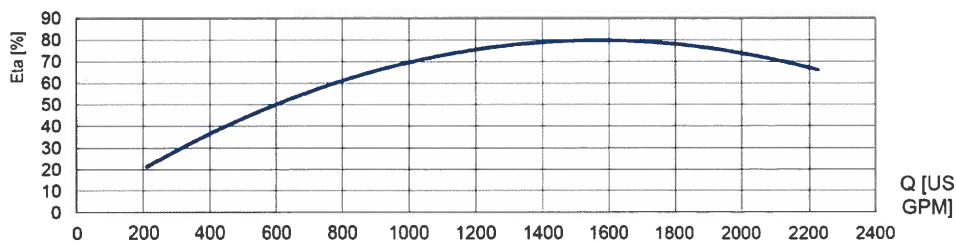
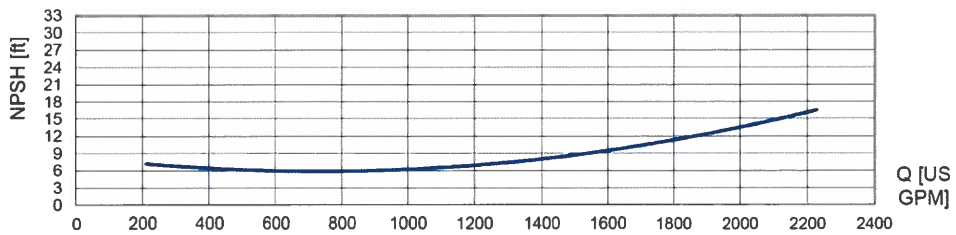
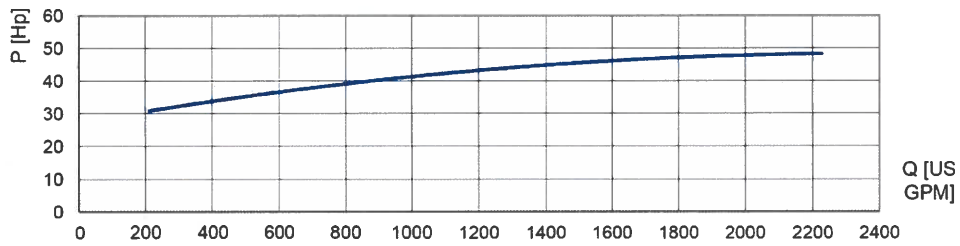
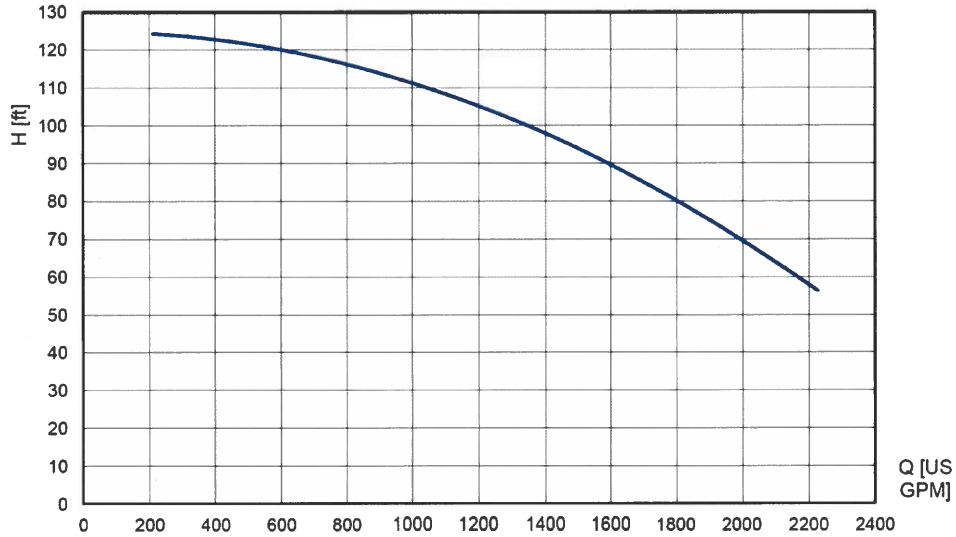
Trailer package

- Sits lower to the ground for pumping purposes
- Single torsion axle
- Corrosion resistant (galvanized)
- LED lights on the rear
- Adjustable pintle hitch
- Maintenance free design



PERFORMANCE CURVES (1900 RPM)

Continuous duty according ISO 9906



STANDARD TECHNICAL SPECIFICATIONS

BBA auto prime pump

Pump type.....BA150E D285
 Max. flow.....2200 US GPM (500 m³/hour)
 Max. head.....125 feet / 54 PSI (38 mwc)
 Impeller typeOpen impeller
 Solids handling3.15 inch (80 mm)
 Pump casingCast iron GG20
 ImpellerChrome Moly 42CrM04
 Self-cleaning wear plateChrome Moly 42CrM04 (cutter slots)
 Pump shaft.....C45
 Shaft seal.....Mechanical seal
 Seal faces.....Tung/Sic
 Seal rubbersViton

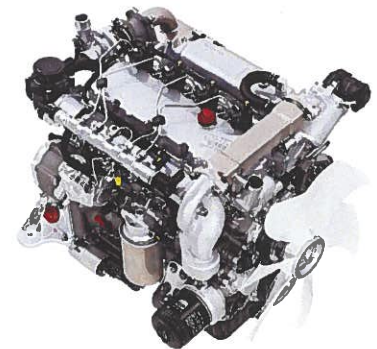


BBA priming system

Pump type.....BBA MP50 Diaphragm pump
 Air handling capacity30 CFM (50 m³/h)
 Max. vacuum29 inHg (8.5 m)
 DriveToothed belt (continuous drive)
 Float boxAluminium
 Non return valveCast iron GG25
 Check valve disc.....Buna-N

Engine

Engine brandHatz
 Engine type.....4H50TIC
 Max. power output75 Hp (55.4 kW)
 Variable engine speed1300 - 1900 RPM
 Fuel consumption220 g/kWh
 Displacement1,952 cm³
 Number of cylinders.....4
 Aftertreatment.....EGR, DOC
 Exhaust emission USTier 4 Final



LOFA control panel

- Auto start/stop system
- Two float switches included (10m cable)
- Switch Manual-0-Auto
- Warning lights
- Safety features to protect the engine
- High resolution 4.3" LCD monitor



Fuel system

- PE fuel tank 80 US Gallon (300 L.) net
- Fuel tank cap Ø 4" (100 mm)
- Electronic fuel injection system

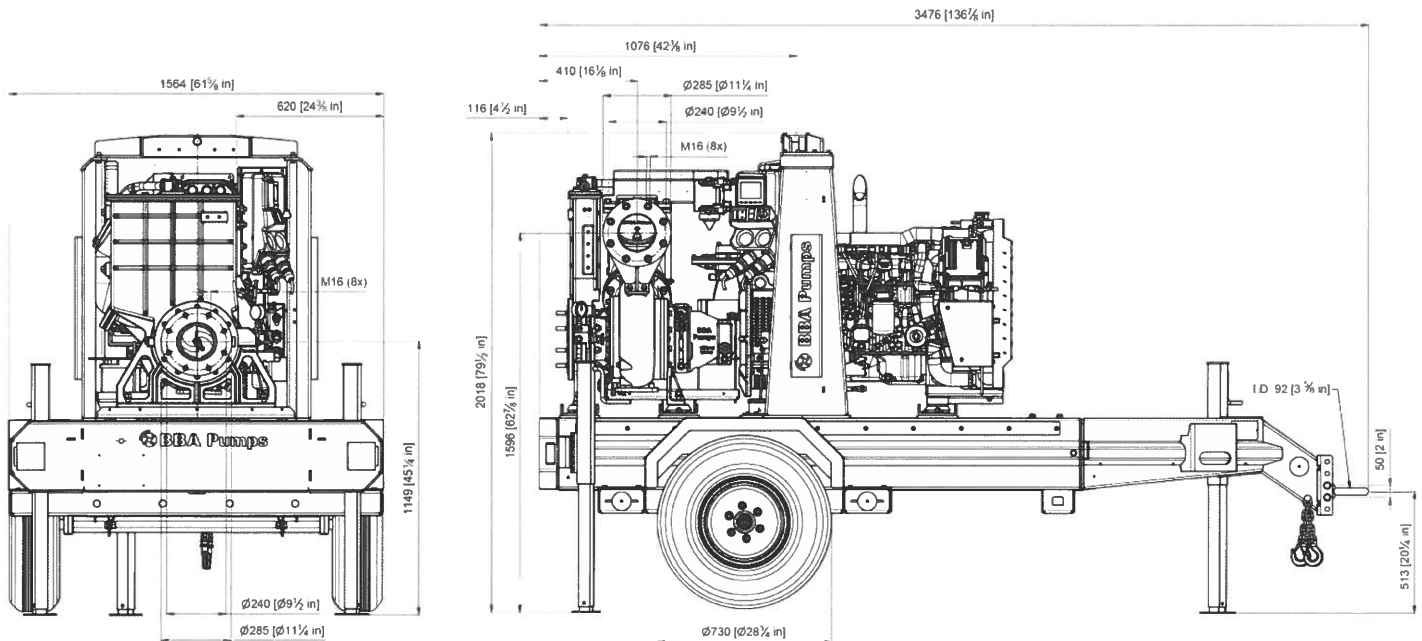
Electrical system & safety features

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

PACKAGE

BBA trailer package

- Dimensions L x W x H 136.9 x 61.5 x 79.5 inch
- Dimensions L x W x H 3476 x 1564 x 2019 mm
- Steel frame Hot dip galvanized
- Pintle hitch Height adjustable 18 – 24 inch
- Fuel tank PE net 80 US Gallon (300 ltr)
- Fuel tank autonomy 30 hours (at 1900 rpm BEP)
- Fuel tank cap Lockable
- Lifting point Fitted with single lifting point
- Jacks Front & rear jacks
- Lighting DOT approved LED lights
- Axle Single torsion axle (2 inch suspension)
- Nose load 275 lbs with filled fuel tank
- Connections Please consult “auxiliary items” in overleaf



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



Open impeller
Corrosion and abrasion resistant Chrome Moly (42CrM04) alloy.



Priming system
Diaphragm pump, air-cooled, water-resistant and oil-spillage free. Air capacity of 30 CFM per hour.



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.



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
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.


Pump specifications:

Type.....	BA180E D328
Max. flow	3230 US GPM (735 m3/hour)
Max. pressure.....	145 ft. / 62 PSI (44 mwc)
Solids handling	3.15" (80 mm)
Impeller type	Open impeller
Priming system.....	BBA MP50
Engine	Perkins 904J-E36TA
Emission compliant.....	Tier 4 final – Stage V
Canopy	M12-29
Connections.....	8" (DN200)
Sound level.....	Approx. 74 dB(A) at 33 ft.
Dry weight.....	6050 lbs. (2750 kg)

FEATURES
BA auto prime pump

The BA range of pumps has been designed with a clear focus on reliability, efficiency and durability. Featuring a fully automatic 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 demanding construction market.

World-class performance

The BA range is built to be deployed on the most demanding 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

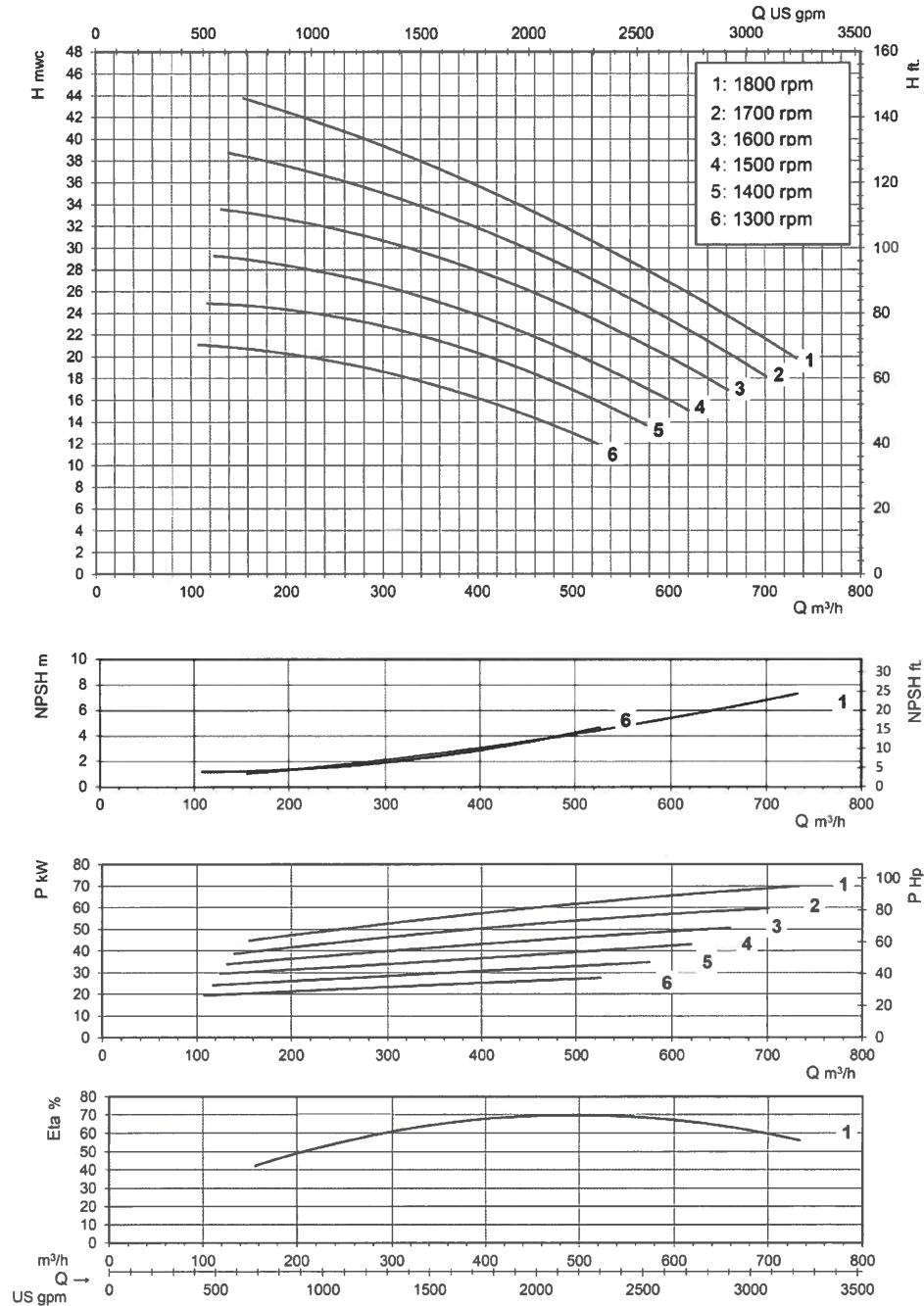
- High efficiency pumps minimising fuel consumption
- Corrosion free hot dip galvanized canopy
- Corrosion free composite door panels and powder coated plating
- 100% Oil-spill free priming system
- Fully self-contained unit featuring a double wall fuel containment tank and fluid containment system eliminating 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
Continuous duty according ISO 9906


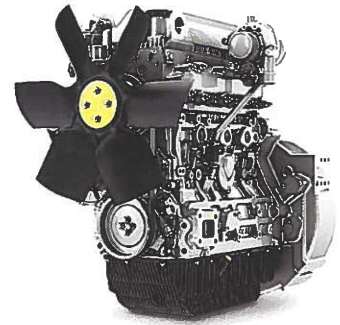
The pumpset is approved for operation at 1800 rpm with full engine load up to an ambient temperature of 109 °F.

STANDARD TECHNICAL SPECIFICATIONS
BBA auto prime pump

Pump type.....	BA180E D328
Max. flow.....	3230 US gpm (735 m ³ /hour)
Max. head.....	145 feet / 62 PSI (44 mwc)
Impeller type	Open impeller
Solids handling	3.15 inch (80 mm)
Pump casing	Cast iron GG20
Impeller	Chrome Moly 42CrMo4
Self-cleaning wear plate	Chrome Moly 42CrMo4 (w/ cutter slots)
Pump shaft.....	42CrMo4 heat treated
Shaft seal.....	Mechanical seal
Seal faces.....	Tung/Sic
Seal rubbers	Viton


BBA priming system

Pump type.....	BBA MP50 Diaphragm pump
Air handling capacity	30 CFM (50 m ³ /h)
Max. vacuum	29 inHg (8.5 m)
Drive	Toothed belt (continuous drive)
Float box	Aluminium
Non return valve	Cast iron GG25
Check valve disc.....	Buna-N


Engine

Engine brand	Perkins
Engine type.....	904J-E36TA
Max. power @ 2400 rpm	122 Hp (90 kW)
Engine speed variable	1300 - 1800 RPM
Fuel consumption	220 g/kWh
Displacement	3,6 litres
Number of cylinders.....	4
Aftertreatment.....	DOC, DPF and SCR
Emissions compliant.....	Tier 4 final - Stage V

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


Fuel system

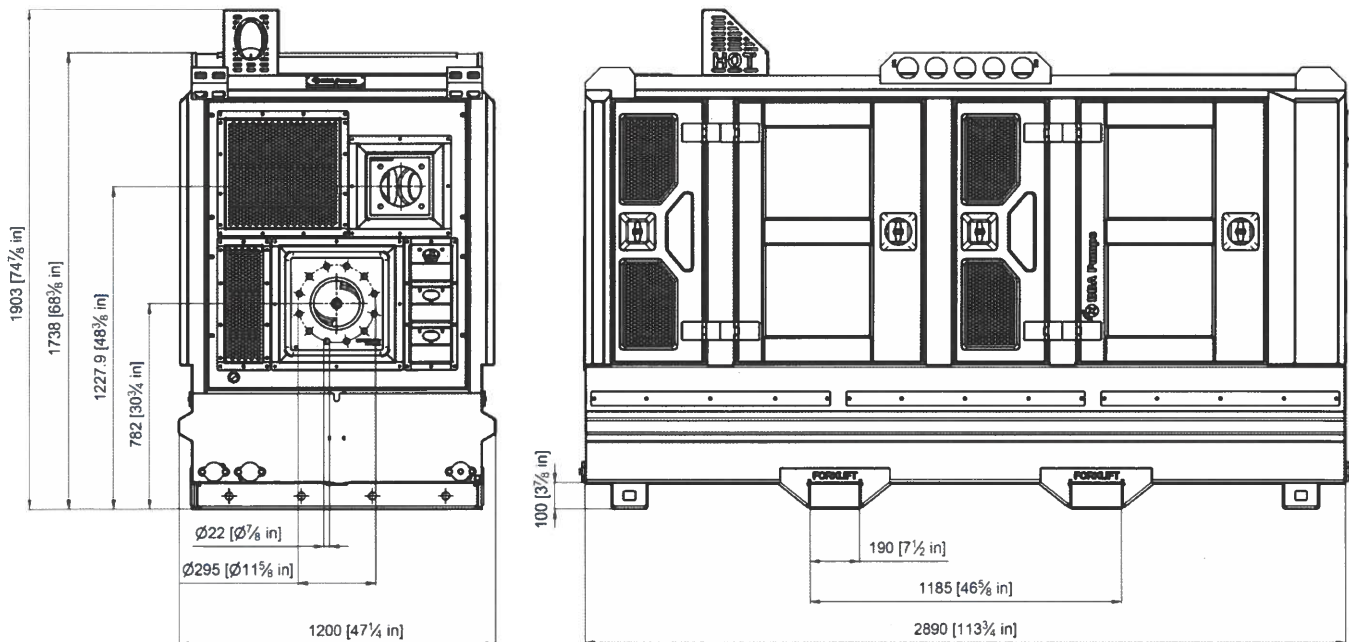
- Composite fuel tank 80 US gallon (300 L.) net
- Composite DEF tank 10 US gallon (38 L.) net
- Electronic fuel injection system

Electrical system & safety features

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

CANOPY M12-29
BBA sound attenuating canopy

Canopy type.....	M12-29
Dimensions L x W x H	114 x 47.2 x 75 inch
Dimensions L x W x H	2900 x 1200 x 1903 mm
Connections.....	See the connections list
Basic frame.....	Hot dip galvanized steel
Doors	8 composite easy-access doors (lockable)
Fuel tank	Composite net 300 ltr (80 US gallon)
Fuel tank autonomy	15 hours (at 1800 rpm BEP)
Fuel tank cap	100 mm (4 inch)
Additional	External fuel tank connection
DEF tank.....	Composite net 38 ltr (10 US gallon)
Forklift pockets.....	Fitted with 2 forklift pockets
Lifting point	Fitted with lifting points
Lighting	Interior and exterior lighting
Electrical isolation	Battery isolator switch
Safety.....	Emergency stop
Aftertreatment.....	Fully integrated in the canopy
Additional	Fitted with oil-water separator
Documentation box.....	BBA user manual and warranty book



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



Open impeller
Corrosion and abrasion resistant pump impeller made of chrome moly (42CrMo4) alloy.



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



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



Fuel tank
Fully bunded, corrosion-free, 80 gallon, 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.

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 = 20 ft.

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
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
612	2694	170	21.65	13.85	9.62	5.41	3.46	2.41
648	2853	180	22.92	14.67	10.19	5.73	3.67	2.55
684	3011	190	24.19	15.48	10.75	6.05	3.87	2.69
720	3170	200	25.46	16.30	11.32	6.37	4.07	2.83



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BBA Pumps Warranty Procedure

This procedure outlines the process for completing a BBA Pumps (BBA) warranty investigation form. In order for a warranty investigation form to be reviewed, all the following must be completed and submitted according to the procedure listed below.

The entire warranty investigation form must be completed. This includes the following:

- Date of the noticed issue.
- Customer name, address, phone number, email and name of the main point of contact.
- Pump model number, pump serial number, current hours on the pump, engine serial number and the control panel model number.
- Description of the issue, which should be as detailed as possible. The more information the better.
- Codes that are displayed on the control panel, and any additional information that may be pertinent to the issue should be included in the warranty investigation form.

Pictures of the following must be included:

- Picture of the pump serial plate. This is located between the two doors on the control panel side of the pump.
- Picture of the current hours displayed on the control panel.
- Pictures of the referenced issue.

The pump application must be included with the warranty investigation form email submittal. This can be described in the body of the email and / or on a separate word document.

All warranty investigation forms must be emailed to service@bbapumpsusa.com within 8 days of the discovered issue. Failure to report the issue within 8 days voids the warranty investigation form for the referenced issue.

BBA will respond within 8 business days to the point of contact with whom submitted the warranty investigation form. The BBA response will include one of the following:

- Approval of the warranty investigation form and any details to follow.
- Denial of the warranty investigation form with an explanation of the denial.
- Not enough information provided to process the warranty investigation. Any additional information required will be included with this email.

Subject line of the email should include the Company name, the pump serial number and "warranty". Similar to the following: XYZ Rental - 21011234 – warranty

Failure to follow the process above will result in a denied warranty investigation form.

BBA Pumps N.A. Warranty Information

INTRODUCTION

Thank you for selecting a BBA Pumps product. This product is covered by the BBA Pumps "International limited warranty conditions". Prior to installing/using the product(s) please ensure that you have carefully read the user manual and that you have taken note of all stipulations in this warranty book.

Please note: All user manuals and warranty books have been translated from the Dutch language. As a result, some items may get lost in translation and/or the content and subsequent interpretation of content may be different than originally intended by BBA Pumps. Should there be any disputes about the content of these documents, the Dutch instructions will be viewed as the sole and original source to determine intended content and meaning of the instructions.

GENERAL

With this writing BBA Pompen & Buizen BV (BBA Pumps hereafter) declares that all products are free from defects in materials and craftsmanship. This warranty is covered by, and limited to, the conditions and stipulations provided in this warranty book.

Should any local legislation be in place that provides additional rights, over and above the rights described by the BBA Pumps International Limited Warranty, this legislation will be applicable and will prevail over the limitations of the warranty.

Any disputes arising from or in any way connected with the subject matter of the BBA Pumps International Limited Warranty book shall be subject to the laws of the Netherlands and shall be subject to the jurisdiction of the Dutch Court in Zutphen (NL) only except that BBA Pumps may seek injunctive relief outside such jurisdiction.

CHANGES IN PRODUCT and/or SPECIFICATIONS

BBA Pumps reserves the right to change standard specifications, product descriptions, pricing and application of any product produced, designed and/or sold by BBA Pumps at any time without prior written or oral notice. Any changes made to these products will not give any rights nor give rise to claims to update products sold and/or supplied previous to the relevant changes.

BEFORE FIRST COMMISSIONING

All products produced and/or sold by BBA Pumps have been extensively tested for quality and their correct functioning prior to shipment. Due to the nature of the products, the functioning of the products is directly linked to the manner in which the products are installed and/or deployed. As BBA Pumps has no influence over the manner of installation, we would like to advise all dealers, resellers and end-users to verify that the products are correctly installed before putting them into operation.

Damages caused by faulty installation, operator error and/or mis-use of the products will not be covered by the BBA Pumps International Limited Warranty.

WARRANTY PERIODS

The warranty period commences on the day of delivery to the first owner/end-user, or 12 months after the date of shipping from the BBA Pumps factory, whichever comes first. Any residual time of the warranty period is transferrable to subsequent owners should this be applicable. In case of repairs, the remaining period of the original warranty will apply to any component or part that was replaced or repaired under warranty. The BBA international limited warranty will expire after the stated amount of months, or after the maximum amount of running hours is achieved, whichever is first.

	Warranty periods (effective 01/01/2014)				
PRODUCT	0-12 months	13-24 months	25-36 months	37-48 months	Max. operating hours
BA series/BE series	100%	100%	75%	50%	2000
BA-C series	100%	100%			2000
BV series	100%				2000
PT series	100%	100%	75%	50%	2000
BL series	100%				2000
MP50-100	100%	100%	75%	50%	2000
Custom units	100%				2000
Piping, accessories* and (pump) parts	100%				N/A
For all products, or components thereof, not manufactured by BBA Pumps, all warranties extended to BBA Pumps will be passed on to our customers. The terms and conditions determined by the original manufacturer will apply. This includes, but is not limited to, drive components such as electric motors and/or diesel engines.					
Custom units are products that have been built to customer specifications and are not part of our standard product ranges.					
<i>* Layflat hoses are excluded from the standard BBA Limited Warranty</i>					

WHAT THE WARRANTY DOES COVER

The warranty covers the costs of the replacement or repair of defective parts or of obtaining equal parts – whichever creates the least cost for BBA Pumps. A faulty product under the conditions of this warranty, is defined as a product (or part thereof) that has been found to have a technical defect at the time of delivery.

All repairs done under warranty need to be done using original BBA spare parts and by a certified BBA Pumps distributor, re-seller or mechanic during normal office hours.

WHAT THE WARRANTY DOES NOT COVER

The BBA Pumps International Warranty does not cover products or parts thereof that have been damaged during transport, installation or repairs or due to faulty use, carelessness or negligence, overloading, insufficient lubrication, cavitation, normal wear and tear, faulty installation, abuse or not following the procedures as stipulated in the user manuals. Any damages caused by foreign objects being inserted into, or passed through, the pump are also not covered by the warranty. Furthermore, shaft seals and damages caused by frost, “exploding” pump casings and shaft breakages are excluded from the warranty.

In addition, modifying or altering BBA products and using parts other than the original BBA spare parts will void the warranty as a whole. This includes modifications of any software or electronic part that has altered the function, performance and/or durability of the product, or if the changes alter the original field of use (to be determined by BBA Pumps). The warranty is also void when seals are broken, settings are changed or if the product(s) have been used for purposes for which it is clearly not intended or that are in breach of legislation. The warranty does not cover any damages resulting from coupling the pump to engines, gearboxes or any other products, including but not limited to electric components, that have not been approved by BBA Pumps.

Under no circumstance will BBA Pumps provide compensation for indirect damages, subsequent damages, incidental costs or any costs resulting from these or related to these damages. Including, but not limited to, travel expenses, transport costs, costs incurred to gain access to the product(s), costs for lifting equipment, costs for replacing products (including rental costs), time lost due to the breakage, loss of income, loss of time, loss of property, personal injury or damages to anything other than the product(s) supplied by BBA Pumps.

OBLIGATIONS OF THE OWNER

The owner of the product(s) is, at all times, responsible for the correct operation, maintenance and servicing of the BBA product(s) as described in the owner’s manual and this warranty book. In order to establish that the products have been serviced as per the provided instructions, the owner is required to provide a complete service history in writing for these products. This service history needs to be provided to subsequent owners (if any) for the BBA Pumps International limited warranty to be transferred.

In order for the warranty as described in this document to apply, in any form or manner, the owner is required to comply with the regulations as stated in this publication, or any other relevant document provided by BBA Pumps. Failure to comply with these regulations and prerequisites will void the warranty as a whole.

REPORTING A DEFECT

In the case that a defect is detected, it is the responsibility of the owner to stop using the product immediately, and/or decommission it. The defect shall then be reported to a BBA Pumps importer, distributor, dealer or workshop using the accompanying warranty request form within eight (8) days.

Such notifications should be made as soon as possible, and no later than eight (8) days after the date the user has noticed the defect, or should have noticed it, and therefore no later than eight (8) days after the warranty has expired.

We recommend the owner secures some evidence with regards to the date the defect has been reported, such as a copy of a letter.

The warranty request form should be filled out completely and truthfully by a BBA importer, distributor or dealer, and handed over to the BBA Pumps BV service coordinator, together with the defective product concerned and/or explicit photographs. You can find the warranty request form at the back of this booklet (or on www.bbapumps.com/warranty)

If BBA Pumps replaces spare parts/products in order to comply with the warranty obligations, all parts/products replaced will become the property of BBA Pumps. Transport costs for any products or spare parts are to be paid by the other party.

APPROVAL OF A WARRANTY CLAIM

Warranty claims can only be considered and approved by persons appointed by BBA Pumps, and only after all materials have been delivered for assessment.

Any new parts sent in advance will be delivered and invoiced according to the BBA Pumps Terms of Delivery and all payment should be made within the specified period. Any reimbursements and/or credits due after the warranty claim has been approved will be settled afterwards.



Warranty Investigation Request

Customer Data:		Pump Data:	
Company name		Pump model	
Location		Pump serial number	
Address		In-service date	
Contact		Running hours	
Phone		E-motor / Diesel engine	
Email		Engine serial number	
		Control panel model	
Warranty Request:			
Date of issue			

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Requested parts / article numbers with descriptions

Quantity	Part / Article number part(s)	Description

Description of issue:

The following must be included:

Pictures must be included with the warranty request. All warranty request must be submitted within 8 days of the date of issue. All warranties must be approved in writing prior to any warranty repairs being initiated. Failure to follow the warranty procedure will result in a denied warranty investigation.

BBA Pumps, Inc.
Attn. Service Department
7222 Cross Park Drive
North Charleston, SC 29418
Tel: 843.849.3676
service@bbapumpsusa.com