IMPORTANT: RECEIVING INSTRUCTIONS: Visually inspect all components for shipping damage. If any shipping damage is found, notify carrier at once. Shipping damage is NOT covered by warranty. The carrier is responsible for all repair or replacement costs resulting from damage in shipment.

SAFETY FIRST

IMPORTANT—USER SAFETY AND PROTECTION: In setting up systems to fit your operations, care must be taken to select the proper components and design to insure appropriate integration with your operations and existing equipment. All safety measures must be taken to avoid the risk of personal injury and property damage from your application or system.

Gardner Bender CANNOT BE RESPONSIBLE FOR DAMAGE OR INJURY CAUSED BY UNSAFE USE, MAINTENANCE OR APPLICATION OF ITS PRODUCTS. Please contact Gardner Bender for guidance when you are in doubt as to the proper safety precautions to be taken in designing and setting up your particular application.

Description

Blo-Vac™ power fishing systems, BV208DA. Each model is designed for blowing or vacuuming pull line into electrical conduit. In addition, each Blo-Vac also operates as a standard shop type wet and dry vacuum cleaner.

The Blo-Vac unit has three compartments which are easily separated. The top section contains the power unit, the center section (recovery compartment) collects refuse and the bottom section (tool storage) is storage for accessories (see Fig. 1). Model BV208D is expandable to 9 gallons. The BV208D is constructed from high impact polypropylene.

Blo-Vac Power finishing system is capable of injecting cable pull line into 1/2" to 6" conduit. Accessories and materials vary depending on job requirements. Specifications for length of conduit runs are guidelines and are not applicable 100% of the time. (See Technical Specifications on page 4). Conditions such as debris in conduit and fitting leakage will reduce the effectiveness of the Blo-Vac system.

Special Features

- Heavy Duty 8 ft hose. Optional 15 ft. hose available.
- Complete set of tools for injecting pull line into 1/2" to 6" conduit.
- Four gallon recovery compartment. Expandable to nine gallons on BV208DA.
- Heavy duty welded steel cart with casters and wheels.
**Operation**

**WARNING** Blo-Vac motors are not explosion proof. Do not operate Blo-Vacs in underground locations or where flammable vapors exist.

**IMPORTANT:** Read all operating instructions prior to using Blo-Vac System.

1. Connect power cord to 115 VAC outlet on a 20 amp circuit.

2. Connect the 8 foot hose to either the inlet or outlet fitting on the Blo-Vac (see Figure 2). The outlet is for blowing and the inlet is for vacuuming.

3. Select a seal-off, seal-off body and line carrier to match the size conduit on the job (see "Line Carriers" and "Pull Line" for more information). The same items are required for vacuuming or blowing into conduit.

4. Using the vacuuming method requires two people. The Blo-Vac and the operator are at one end of the conduit, another person is required to feed the line carrier and pull line into the opposite end of the conduit. Blowing pull line can be accomplished by one person.

   - **Conduit sizes 1/2" to 1-1/4"**
     i. Use the BV12 hose adapter, JV08 seal-off or the long JV09 Seal-off. The JV07 can also be used (see Figure 3).
     ii. Thread the JV08 into the BV12 adapter. Insert the adapter into the hose assembly.
     iii. Inject pull line into the conduit by selecting a line carrier and attaching the pull line to it. If a Power Saver Line Package is used, a separate line carrier is not needed.
   
   - **Conduit Sizes 1/2" to 2-1/2"**
     i. Injecting bulk line into 1/2 to 2-1/2" conduit requires the JV07 Dial-A-Line body, BV12 adapter and either the JV08 or BV23 seal-off (see Figure 4).
     ii. Thread the end of bulk line into the round hole in the metal disk on back of the JV07. Pull the end through the body and into the seal-off.
     iii. Tie the pull line to the line carrier. Insert the line carrier into the conduit and operate the Blo-Vac by placing the seal-off against the conduit opening and turning the Vac system "ON". Operate the Blo-Vac until the line carrier exits the opposite end of the conduit.

   - **Conduit Sizes 1/2" to 2-1/2"**
     i. Power Savers and Tag-a-Longs are center dispensing. Unwind about 12 inches of pull line prior to placing the line carrier into the conduit. Wrap the loose end around the blower hose or a stationary object.
     ii. Place the line carrier into the conduit.

**CAUTION** Be sure the pull line is not tangled around feet or hands of the operator. Fast moving pull can cause severe burns to exposed skin.

vi. Position the seal-off in the end of the conduit. The loose end of the pull line should be between the seal-off and the conduit.

vii. Turn the Blo-Vac "ON" and continue operating until the line carrier exits the opposite end of the conduit.
c. Conduit Sizes 2-1/2" to 6"
   i. Items required are the BV26 seal-off body and the
      BV24 seal-off (see Figure 5).
   ii. Tag-A-Long or bulk nylon pull line and poly-pull
       rope are the types of material suitable for 2-1/2" to
       6" conduit. A line carrier is required for each type
       pull line or poly rope. Maximum pull line size is
       PL232 bulk line (see Figure 6).

   ![Figure 6](image)
   Blo-Vac System
   for 2-1/2" to 6" Conduit

   Maintenance After Vacuuming Dirt and Water

   1. Release the latches securing the top and center
      sections together.
   2. Remove the filter bag from the bottom tool storage
      section. Slide the filter bag onto the intake canister
      located on the bottom of the motor. The filter bag
      prevents dust from entering the motor. Dust and dirt
      will damage the motor and cause premature failure.
   3. Clean the filter bag by shaking off the excess dirt.
      Store the clean bag in the lower storage compartment.
   4. The Blo-Vac is equipped with a ball float to prevent
      water from entering the motor. If the ball float seals
      the motor inlet, the motor will sound different from usual.
      Immediately shut the unit off. Empty the recovery
      section and check the inlet screen for dirt and lint.
      Clean the screen and reassemble the Blo-Vac
      sections.

   ![Figure 7](image)
   Foam Line Carrier

   Line Carriers

   Foam Line Carriers
   These are the original line carriers
   made of high density poly-foam. As
   the line carrier travels through the
   conduit it provides a swabbing action
   cleaning out water and loose debris.

   These carriers have a hook on one end for convenient
   attachment of a TAG-A-LONG line package and an eye on
   the other end for attachment of pull line. Foam line carriers
   are available for 1/2" - 6" conduit sizes (See Figure 7).

   The Inflatables® Line Carriers
   This patented device has less
   friction in the conduit and runs faster
   than the foam line carrier. The
   flexible nature of the inflatable
   carrier allows it to conform to the
   conduit diameter. It can pass over
   local obstructions that would stop a
   foam line carrier. This device can be
   vacuumed or blown through conduit. They are
   manufactured of tough durable nylon material and are
   available in four models covering 3/4"-6" conduit sizes
   (see Figure 8).

   ![Figure 8](image)
   The Inflatables®

   Missile Line Carriers
   Molded of polyethylene plastic,
   these low friction carriers offer the
   highest speed of the three types of
   carriers. These carriers were
   developed for the CO2 Electric
   Blowers and Blo-Vac systems for
   use in long and large conduit runs.
   If the line carrier encounters a
   blockage, the slotted skirt allows the carrier to be pulled
   out past joints or steps in the conduit. A hard tug on the
   pull line will cause the petals to turn inside out allowing for
   easy withdrawal. They are available in 2"-6" conduit sizes
   (see Figure 9).

   ![Figure 9](image)
   Missile Line Carrier

   Pull Line

   Power Saver™ Line Package
   A combination carrier and pull line,
   this is the easiest and most
   versatile line that can be installed in
   conduit. The self contained nylon
   line package comes in different
   sizes for 1/2", 3/4", and 1" conduit.
   It dispenses a line as the package
   is blown through the conduit (see Figure 10).

   ![Figure 10](image)
   Power Saver
   Line Package

   Tag-A-Long™ Line Package
   This package is designed for longer
   runs and must be used with a line
   carrier. The increased package
   diameter and length prevents the
   package from passing freely through
   or around bends in conduit less than
   1-1/2". Once attached to the line carrier,
   the Tag-A-Long line package
   function and operation is similar to that of the
   Power Saver (see Figure 11).

   ![Figure 11](image)
   Tag-A-Long
   Line Package
Bulk Nylon Line
Unlike the Power Saver and Tag-A-Long packages which dispense a line as it moves through the conduit, the bulk line package remains at the conduit entrance and the line is pulled into the conduit by a line carrier. The bulk line allows for longer conduit runs (up to 2200 ft.) and tensile strengths from 22 to 100 lbs (see Figure 12).

Pull Line
Jet Line stranded PL-series pull lines are designed specifically for conduit fishing. These lines are made of strong polyolefin plastic that will not rust, rot or mildew. The patented color coded binder strand spirals around a bundle of linear, monofilament that give almost friction free blowing and vacuuming. This line, considered the cadillac of pull line, is guaranteed to be free of knots or splices. It is available in lengths to 6500 ft and tensile strengths from 100 to 1000 lbs (see Figure 13).

Conduit Measuring Tape
Marked in one foot increments, this tape is designed to be blown into conduit or duct runs to determine exact run length for accurate cable cutting without waste. Available in 3000 ft. rolls (see Figure 14).

Technical Specifications

<table>
<thead>
<tr>
<th>Specifications</th>
<th>BV208DA Super Blo-Vac</th>
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<tbody>
<tr>
<td>Vacuum (Inches of Waterlift)</td>
<td>110*</td>
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<td>Sealed Vacuum*</td>
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<td>Maximum Air Pressure (Pounds per square inch)*</td>
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<td>Electrical Rating (Volts-Amps)</td>
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<td>Recovery Capacity Gallons</td>
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<td>Net Weight (Pounds)</td>
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<td>Height with Cart (Inches)</td>
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<tr>
<td>Motor Brush Life (Hours)</td>
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* Will vary with voltage and atmospheric conditions.
** When using recovery compartment and tool storage compartment together.

CONDUIT RUN LENGTH (ft.)

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<th>Conduit Size</th>
<th>150</th>
<th>200</th>
<th>300</th>
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Typical Run with four 90° bends and no obstructions or leaks, using Jet Line PL232 Pull Line and Foam Line Carrier.

REPAIR AND SERVICE INSTRUCTIONS: For repair service and parts contact your nearest Gardner Bender Service Center. The Service Center will provide complete and prompt service on all Gardner Bender products.

PARTS AND SERVICE: For quality workmanship and genuine Gardner Bender parts, select an Authorized GB Service Center for your repair needs. Only repairs performed by an Authorized Service Center displaying the official GB Authorized sign are backed with full factory warranty. Contact Gardner Bender (414) 352-4160 for the name of the nearest GB Authorized Service Center.

WARRANTY: Gardner Bender, INC. warrants its products against defects in workmanship and materials for 1 year from date of delivery to user. Chain is not warranted. Warranty does not cover ordinary wear and tear, abuse, misuse, overloading, altered products or use of improper fluid.

WARRANTY RETURN PROCEDURE: When question of warranty claim arises, send the unit to the nearest GB Authorized Service Center for inspection, transportation prepaid. Furnish evidence of purchase date. If the claim comes under the terms of our warranty the Authorized Service Center will REPAIR OR REPLACE PARTS AFFECTED and return the unit prepaid.