

Thank you for purchasing a Sealey product. Manufactured to a high standard this product will, if used according to these instructions and properly maintained, give you years of trouble free performance.



**IMPORTANT: PLEASE READ THESE INSTRUCTIONS CAREFULLY. NOTE THE SAFE OPERATIONAL REQUIREMENTS, WARNINGS & CAUTIONS. USE THE PRODUCT CORRECTLY AND WITH CARE FOR THE PURPOSE FOR WHICH IT IS INTENDED. FAILURE TO DO SO MAY CAUSE DAMAGE AND/OR PERSONAL INJURY AND WILL INVALIDATE THE WARRANTY. PLEASE KEEP INSTRUCTIONS SAFE FOR FUTURE USE.**

## 1. SAFETY INSTRUCTIONS

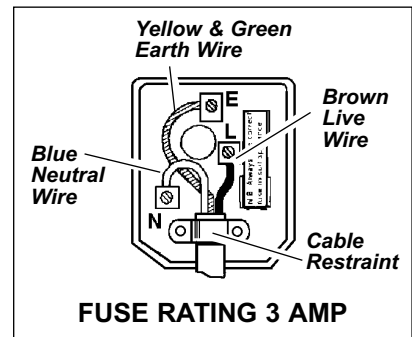
### 1.1. ELECTRICAL SAFETY

**WARNING!** It is the responsibility of the owner and the operator to read, understand and comply with the following:

You must check all electrical products, before use, to ensure that they are safe. You must inspect power cables, plugs, sockets and any other connectors for wear or damage. You must ensure that the risk of electric shock is minimised by the installation of appropriate safety devices. A Residual Current Circuit Breaker (RCCB) should be incorporated in the main distribution board. We also recommend that a Residual Current Device (RCD) is used. It is particularly important to use an RCD with portable products that are plugged into a supply which is not protected by an RCCB. If in any doubt consult a qualified electrician. You may obtain a Residual Current Device by contacting your Sealey dealer.


**You must** also read and understand the following instructions concerning electrical safety.

- 1.1.1. The **Electricity at Work Act 1989** requires all portable electrical appliances, if used on business premises, to be tested by a qualified electrician, using a Portable Appliance Tester (PAT), at least once a year.
- 1.1.2. The **Health & Safety at Work Act 1974** makes owners of electrical appliances responsible for the safe condition of those appliances and the safety of the appliance operators. **If in any doubt about electrical safety, contact a qualified electrician.**
- 1.1.3. Ensure that the insulation on all cables and on the appliance is safe before connecting it to the power supply. See 1.1.1. and 1.1.2. and use a Portable Appliance Tester.
- 1.1.4. Ensure that cables are always protected against short circuit and overload.
- 1.1.5. Regularly inspect power supply cables and plugs for wear or damage and check all connections to ensure that none is loose.
- 1.1.6. **Important:** Ensure that the voltage marked on the appliance matches the power supply to be used and that the plug is fitted with the correct fuse - see fuse rating at right.
- 1.1.7. **DO NOT** pull or carry the appliance by the power cable.
- 1.1.8. **DO NOT** pull the plug from the socket by the cable.
- 1.1.9. **DO NOT** use worn or damaged cables, plugs or connectors. Immediately have any faulty item repaired or replaced by a qualified electrician. When an ASTA/BS approved UK 3 pin plug is damaged, cut the cable just above the plug and **dispose of the plug safely.** Fit a new plug according to the following instructions (UK only).



- a) Connect the GREEN/YELLOW earth wire to the earth terminal 'E'.
- b) Connect the BROWN live wire to the live terminal 'L'.
- c) Connect the BLUE neutral wire to the neutral terminal 'N'.

d) After wiring, check that there are no bare wires, that all wires have been correctly connected, that the cable outer insulation extends beyond the cable restraint and that the restraint is tight.

Double insulated products, which are always marked with this symbol , are fitted with live (brown) and neutral (blue) wires only. To rewire, connect the wires as indicated above - **DO NOT** connect either wire to the earth terminal.

- 1.1.10. Products which require more than 13 amps are supplied without a plug. In this case you must contact a qualified electrician to ensure that a suitably rated supply is available. We recommend that you discuss the installation of an industrial round pin plug and socket with your electrician.
- 1.1.11. If an extension reel is used it should be fully unwound before connection. A reel with an RCD fitted is preferred since any appliance plugged into it will be protected. The cable core section is important and should be at least 1.5mm<sup>2</sup>, but to be absolutely sure that the capacity of the reel is suitable for this product and for others which may be used in the other output sockets, we recommend the use of 2.5mm<sup>2</sup> section cable.

### 1.2 GENERAL SAFETY

**WARNING!** Ensure Health & Safety, government and local authority regulations relating to the use of shot blasting are adhered to when using this equipment. Familiarise yourself with the applications, limitations and potential hazards peculiar to the cabinet.

**WARNING!** Disconnect the cabinet from the mains power and the air supply before attempting to change accessories or carry out any servicing or maintenance.

✓ Maintain the cabinet in good condition. Replace or repair damaged parts. *Use genuine parts only. Unauthorised parts may be dangerous and will invalidate the warranty.*

- ✓ Locate cabinet in a suitable work area and keep area clean, tidy and free from unrelated materials. Ensure there is adequate lighting.
- ✓ Use only dry abrasives such as glass bead. We recommend Sealey item B5KG. Never use fluids or mix fluids with another media in the unit.
- **WARNING!** Always wear approved eye or face and ear protection when operating the cabinet.
- ✓ Keep the unit lid closed and secured when in use.
- **WARNING!** Ensure correct air pressure is maintained and not exceeded.
- ✓ Always keep the blast nozzle directed at the workpiece. Never use outside the unit and always use with the lid closed.
- ✓ Regularly check that the exhaust vent at the back of the cabinet is clear and not blocked and that there is space between it and any wall.
- ✓ Maintain correct balance and footing. Ensure the floor is clean and free from blasting media spillage. Wear non-slip shoes.
- ✓ Remove ill fitting clothing. Remove ties, watches, rings, and other loose jewellery and contain and/or tie back long hair.
- ✓ Keep children and non-essential persons away from the work area.
- x **DO NOT** use the cabinet for a task it is not designed to perform.
- x **DO NOT** operate the cabinet if any parts are damaged or missing as this may cause failure and/or personal injury.
- x **DO NOT** operate the cabinet with the lid open.
- x **DO NOT** stand on the cabinet.
- x **DO NOT** get the cabinet wet or use in damp or wet locations or areas where there is condensation.
- x **DO NOT** operate the cabinet when you are tired or under the influence of alcohol, drugs or intoxicating medication.
- x **DO NOT** leave the cabinet operating unattended.
- ✓ When not in use disconnect from the electrical mains and the air supply.

## 2. DESCRIPTION & SPECIFICATION

### 2.1. Description

The SB972 shot blasting cabinet is constructed of steel with a replaceable viewing screen and internal illumination. Supplied with a shot blasting gun the unit is suitable for glass beads, silicon carbide, aluminium oxide and silica sand. Excellent for use in a wide variety of workshop and bodyshop cleaning applications. The cabinet requires a standard, clean, dry, workshop air supply.

## 2.2. Specification

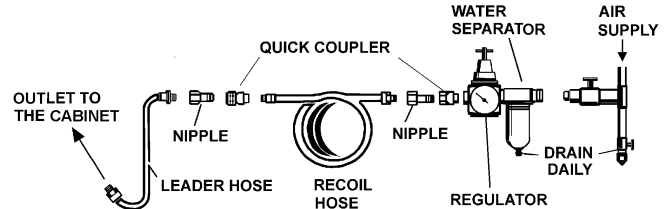
Capacity ..... 0.19M<sup>3</sup>  
 Operating Air Pressure ..... 80psi  
 Max Air Flow @ 80psi ..... 4.5 to 7.0cfm

Air Inlet Size ..... 1/4" BSP  
 Length/Width/Height ..... 760 x 510 x 710mm  
 Door Size ..... 770 x 440mm

## 3. AIR SUPPLY & ASSEMBLY

### 3.1. Air supply

- 3.1.1. You will require an air pressure of 80psi, and an air volume of 5cfm to operate the unit efficiently.
- 3.1.2. **WARNING! Ensure air supply is clean, dry and does not exceed 100psi. Too high an air pressure and/or unclean or damp air will shorten the product life due to excessive wear and may be dangerous, causing possible damage and/or personal injury.**
- 3.1.3. Drain the air supply tank daily. Clean compressor air inlet filter weekly. For recommended hook-up see diagram.
- 3.1.4. Line pressure should be increased to compensate for unusually long air hoses (over 8 metres). The **minimum** hose and fittings bore should be 10mm.
- 3.1.5. Keep hoses away from heat, oil and sharp edges. Check airline hoses for wear and poor connections.
- 3.1.6. Cabinet input connection is 1/4" BSP.



**Note: Numbers in brackets refer to item numbers shown in the Parts List.**

### 3.2. Assembly

- 3.2.1. Unpack the product and check contents. Should there be any damaged or missing parts contact your supplier immediately.
- 3.2.2. Lift the back edge of the mesh grill (31) and slide it up the back of the cabinet into a vertical position.
- 3.2.3. Push plastic suction hose (23) onto the connector (24B) in the base of the unit. Return the mesh grill to its horizontal position ensuring that the hose passes the angled corner of the grill (see parts diagram). **Do not** push the tube through the grill.
- 3.2.4. Remove fitting (28) and one steel washer (27) from air hose connector (22), leaving on one steel washer (27). Put connector (22) through hole in side of cabinet and secure with washer (27) and fitting (28).

## 4. OPERATING INSTRUCTIONS

- WARNING! Ensure you read, understand and apply safety instructions in Section 1 before using the unit.**
- 4.1. Connect the air supply to the inlet on the side of the cabinet. Ensure the gun valve is in the "off" position before connecting the air supply.
- 4.2. Check all fittings to ensure there are no air leaks.
- 4.3. Pour the abrasive media into the centre of the cabinet. **DO NOT** use more than 40lbs. Excessive amounts of abrasive will impair visibility, create poor blasting performance and could block the air exhaust.
- 4.4. Fit suitably sized jet and nozzle into the gun bore and retain with the set screws.
- 4.5. Connect to the mains supply and the unit is ready for use.
- 4.6. Place the workpiece in the cabinet and close the lid and latch securely.
- WARNING! Failure to securely close the lid could result in damage and/or personal injury.**
- 4.7. Turn on light and air supply and insert hands into cabinet gloves. Grasp gun and depress the trigger to start the blasting process.
- 4.8. Move the blast media (which looks like steam) continuously over the workpiece in an even and circular motion. To avoid undesirable peening the flow should not be too hard or concentrated. The surface finish may vary from coarse to fine depending on the size of the abrasive media. On delicate workpieces, to avoid unnecessary peening or excessive abrasion, begin the blasting with a low airflow.



## 5. MAINTENANCE

- WARNING! Ensure the cabinet is disconnected from the electrical mains and the air supply before attempting any maintenance.**
- 5.1. Ensure the blasting media does not become damp. Keep the air supply dry at all times. Dispose of any damp media.
- 5.2. Replace media when it has become excessively dusty, loses its granular or spherical appearance, or is significantly contaminated with debris from workpieces. This is usually noticed when media from the nozzle looks like a smoke cloud rather than steam.
- 5.3. Regularly check that the exhaust vents at the side and rear of the cabinet are clear. Renew air filter (13) if clogged.
- 5.4. Regularly check gun blast nozzle to ensure it does not become blocked with media. Immediately replace worn or damaged nozzle.
- 5.5. If abrasive pick-up hose becomes blocked, cover the gun tip to force air back through the hose. Ensure the lid is correctly closed.
- 5.6. Replace the transparent window when visibility becomes reduced.




## 6. TROUBLESHOOTING

PROBLEM	POSSIBLE CAUSE	REMEDY
Excessive dust in the cabinet.	1. Exhaust vent or air flow is blocked. 2. Abrasive is worn. 3. Too much abrasive in the cabinet. 4. Loose air line or fittings.	1. Clean vent and keep vent away from wall. 2. Replace abrasive. 3. Remove excess. 4. Check and tighten all air fittings.
Uneven blasting.	1. Too much abrasive in cabinet. 2. Moisture inside cabinet.	1. Remove excess. 2. Check air line for moisture and replace damp abrasive.
Inadequate speed or efficiency of blast.	1. Abrasive is worn. 2. Pressure is too low.	1. Replace abrasive. 2. Check that there are no supply blockages or leaks and that control valve is fully open. Increase pressure.
Static electricity.	1. Dry weather conditions.	1. Leave the workpiece to stand for a while.
Blast pattern too wide or ineffective.	1. Nozzle blocked or worn.	1. Unblock or replace nozzle.

## 7. DECLARATION OF CONFORMITY

<p><b>SHOT BLASTING CABINET</b>  <b>Model: SB972</b></p> <p>89/336/EEC Low Voltage Directive                  89/336/EEC EMC Directive                  93/68/EEC CE Marking Directive</p>	<p><b>Declaration of Conformity</b> We, the sole importer into the UK, declare that the product listed here is in conformity with the following standards and directives.</p> <p> Signed by Mark Sweetman  4th May 2001</p> <p>The construction file for this product is held by the Manufacturer and may be inspected, by a national authority, upon request to Jack Sealey Ltd.                  For Jack Sealey Ltd. Sole importer into the UK of Sealey Power Products.</p>
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**NOTE: It is our policy to continually improve products and as such we reserve the right to alter data, specifications and component parts without prior notice.**  
**IMPORTANT:** No liability is accepted for incorrect use of product. **WARRANTY:** Guarantee is 12 months from purchase date, proof of which will be required for any claim. **INFORMATION:** For a copy of our latest catalogue and promotions call us on 01284 757525 and leave your full name and address, including postcode.

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