



INSTRUCTIONS FOR:

## SHOT BLASTING CABINETS

Models: **SB951 & SB972**

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 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 user's responsibility to read, understand and comply with the following:** You must check all electrical equipment and appliances to ensure they are safe before using. You must inspect power supply leads, plugs and all electrical connections for wear and damage. You must ensure the risk of electric shock is minimised by the installation of appropriate safety devices. An RCCB (Residual Current Circuit Breaker) should be incorporated in the main distribution board. We also recommend that an RCD (Residual Current Device) is used with all electrical products. It is particularly important to use an RCD together with portable products that are plugged into an electrical supply not protected by an RCCB. If in doubt consult a professional 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 a business premises, to be tested by a qualified Electrician at least once a year by using a Portable Appliance Tester (PAT).

1.1.2. The **Health & Safety at Work Act 1974** makes owners of electrical appliances responsible for the safe condition of the appliance, and the safety of the appliance operator. **If in any doubt about electrical safety, contact a qualified electrician.**

1.1.3. Ensure the insulation on all cables and the product itself is safe before connecting to the mains power supply. See 1.1.1. & 1.1.2. above and use a Portable Appliance Tester (PAT).

1.1.4. Ensure that cables are always protected against short circuit and overload.

1.1.5. Regularly inspect power supply, leads, plugs and all electrical connections for wear and damage, especially power connections, to ensure that none are loose.

1.1.6. **Important:** Ensure the voltage marked on the product is the same as the electrical power supply to be used, and check that plugs are fitted with the correct capacity fuse. A 13Amp plug may require a fuse smaller than 13Amps for certain products (*subject to 1.1.10. below*) see fuse rating at right.

1.1.7. DO NOT pull or carry the powered appliance by its power supply lead. Products such as welders must not be pulled or carried by their output cables.

1.1.8. DO NOT pull power plugs from sockets by the power cable.

1.1.9. DO NOT use worn or damage leads, plugs or connections. Immediately replace or have repaired by a qualified Electrician. A U.K. 3 pin plug with ASTA/BS approval is fitted. In case of damage, cut off and fit a new plug according to the following instructions (discard old plug safely).

(UK only - see diagram at right). **Ensure the unit is correctly earthed via a three-pin plug.**

a) **Connect the GREEN/YELLOW earth wire to the earth terminal 'E'.**

b) **Connect the BROWN live wire to live terminal 'L'.**

c) **Connect the BLUE neutral wire to the neutral terminal 'N'.**

**After wiring, check there are no bare wires, that all wires have been correctly connected and that the wire restraint is tight.**

Double insulated products are often fitted with live (BROWN) and neutral (BLUE) wires only. Double insulated products are always marked with this symbol . **To re-wire, connect the brown & blue wires as indicated above. DO NOT connect the brown or blue to the earth terminal.**

1.1.10. Some products require more than a 13Amp electrical supply. In such a case, NO plug will be fitted. **You must** contact a qualified Electrician to ensure a 30 amp fused supply is available. We recommend you discuss the installation of a industrial round pin plug & socket with your electrician.

1.1.11. **Cable extension reels.** When a cable extension reel is used it should be fully unwound before connection. A cable reel with an RCD fitted is recommended since any product which is plugged into the cable reel will be protected. The section of the cable on the cable reel is important. We recommend that at least 1.5mm<sup>2</sup> section cable but to be absolutely sure that the capacity of the cable reel is suitable for this product and for others that 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 the use of shot blasting are adhered to when using this equipment. Familiarise yourself with cabinet application and limitations, and specific potential hazards peculiar to the cabinet.

**WARNING!** Disconnect the cabinet from the mains power, and air supply before attempting to changing accessories, servicing or performing any maintenance.

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

3 Locate cabinet in an adequate working area for its function, keep area clean, tidy and free from unrelated materials. Ensure adequate lighting.

3 Use only dry abrasives such as glass bead. We recommend Sealey item B5KG. Never use harsh abrasives such as aluminium oxide, blasting garnet or sand with this cabinet. 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.

3 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, always use with the lid closed.

Regularly check the exhaust vent at the back of the cabinet is clear and not blocked and there is space between it and any wall.

3 Maintain correct balance and footing. Ensure the floor is clean and free from blasting grit spillage. Wear non slip shoes.

3 Remove ill fitting clothing. Remove ties, watches, rings, and other loose jewellery, and contain and/ or tie back long hair.

3 Keep children and non essential persons away from the working area.

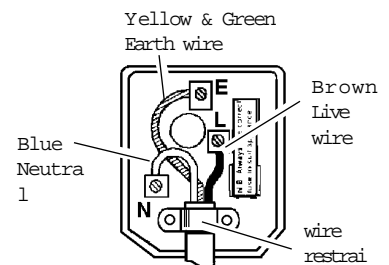
3 Use a dust free light tube not greater than 70 Watts.

7 DO NOT force the cabinet to achieve a task it was not designed to perform.

7 DO NOT operate the cabinet if any parts are damaged or missing as this may cause failure or possible personal injury.

7 DO NOT operate the cabinet with the lid open.

7 DO NOT stand on the cabinet.



#### FUSE RATING

THIS PRODUCT MUST BE FITTED WITH A:

**13 Amp FUSE**

- 7 DO NOT get the cabinet wet or use in damp or wet locations or areas where there is condensation.
- 7 DO NOT operate the cabinet when you are tired, under the influence of alcohol, drugs or intoxicating medication.
- 7 DO NOT leave the cabinet operating whilst unattended.
- 3 When not in use disconnect from the electrical mains and the air power supply.

## 2. DESCRIPTION & SPECIFICATIONS

Your shot blasting cabinet is constructed of steel with a replaceable viewing screen and internal illumination. Fitted with a shot blasting gun the unit is suitable for proprietary brands of glass beads only. Excellent for use with a wide variety of workshop and bodyshop cleaning applications. The cabinets require a standard, dry workshop air supply. The SB972 may be either bench or floor mounted on the optional SB972/STAND.

**Model: SB951**

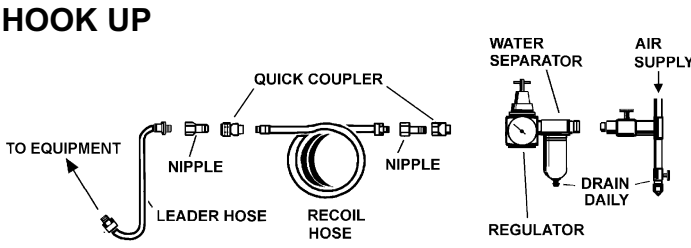
Max Air Pressure . . . . .90PSI  
 Max CFM . . . . .4.5 - 7cfm  
 Air Inlet Size . . . . .1/4"  
 Length/Width/Height . . . . .580x480x490mm  
 Door size . . . . .540x440mm

**Model: SB972**

Max Air Pressure . . . . .90PSI  
 Max CFM . . . . .4.5 - 7cfm  
 Air Inlet Size . . . . .1/4"  
 Length/Width/Height . . . . .760x510x710mm  
 Door size . . . . .570x280mm

## 3. AIR SUPPLY & INSTALLATION

- 3.1. Ensure the air valve is in the "off" position before connecting to the air supply.
- 3.2. You will require an air pressure of 90psi , and an air volume of 4.5 - 7cfm for operating the unit.
- 3.3. **WARNING! Ensure air supply does not exceed 100PSI. Too high an air pressure and unclean air will shorten the product life due to excessive wear, and may be dangerous causing possible damage and personal injury.**
- 3.4. The air supply must be clean and dry. Drain the air supply tank daily. Water in the air line will damage the item being supplied.
- 3.5. Clean the air inlet filter screen weekly. For recommended hook-up, see diagram to right.
- 3.6. Line pressure should be increased to compensate for unusually long air hoses (over 8 metres). The *minimum* hose diameter should be 10mm I.D. and fittings must have the same inside dimensions.
- 3.7. Keep hose away from heat, oil and sharp edges. Check hoses for wear, and make certain that all connections are secure.
- 3.8. The cleaner's input connection is 1/4" BSP.



3.9. Installation  
 Unpack the product and check contents, should there be any damaged or missing parts contact your supplier immediately.

Use an appropriate coupling suitable for your air system to connect the air supply to the inlet on the right hand side of the cabinet and the gun. The air supply must be clean and dry and should not exceed the maximum pressure. Check all fitting to ensure there are no leaks, and check that the media supply hose is tightly attached to the underside of the gun. Place the abrasive media into the centre of the cabinet as follows:

- SB951 = 10 lbs
- SB972 = 40 lbs

Do not exceed the stated amounts. Excessive amounts of media will impair visibility, create poor blasting performance and could block the air exhaust at the rear of the cabinet.  
 Connect the unit to the electrical main supply and the unit is ready for use.

## 4. OPERATING INSTRUCTIONS

- WARNING! Ensure you have read, understood and apply safety instructions in chapter 1 before using the unit.**
- 4.1. When you have completed installation as in chapter 3, place the workpiece in the cabinet and close and latch the lid securely. **WARNING! failure to securely close the lid could result in damage or personal injury.**
- 4.2. Turn the light, and the air supply on.
- 4.3. Insert your hands into the cabinet gloves, grasp the gun and depress the trigger to start the blasting process. If no flow is achieved, momentarily cover the gun nozzle in order to clear the tube.
- 4.4. 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 work 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 lesser 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 becomes excessively dusty, loses its granular or spherical appearance, or debris from workpieces mixes in with it. This is usually noticed when media from the nozzle looks like a smoke cloud rather than steam.
- 5.3. Regularly check that the exhaust vent at the back of the cabinet is clear and not blocked (see parts diagram item "A").
- 5.4. Regularly check gun blast nozzle to ensure it does not become blocked with media. Immediately replace worn or damaged nozzles.
- 5.5. If abrasive pick-up hose becomes blocked, re-power the unit, ensure the lid is correctly closed. Cover the gun tip and force air back through the hose to clear any media.
- 5.6. Replace the transparent screen on the underside of the lid if visibility is reduced.
- 5.7. Internal cabinet light may be replaced with a dust free light tube not greater than 70 Watts.

## 6. TROUBLESHOOTING

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

### SHOT BLASTING CABINET Models: SB951 & SB972

89/336/EEC Low Voltage Directive (S.I. 1989/728)  
89/336/EEC EMC Directive (S.I. 1992/3073).  
93/68/EEC CE Marking Directive  
EN50081-1 Generic emission standard  
EN55014 Limits and methods of measurement of  
radio disturbances characteristics of household  
electrical appliances, portable tools and similar  
electrical apparatus.

**Declaration of Conformity** We, the sole importer into the UK, declare that the products listed here are in conformity with the following EEC standards and directives



Signed by Mark Sweetman

7th February 2000

The construction files for these products are held by the Manufacturer and may be inspected on request by contacting Jack Sealey Ltd

*For Jack Sealey Ltd. Sole importer into the UK of Sealey Quality Machinery*

**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 this product. **WARRANTY:** Guarantee is 12 months from purchase date, proof of which will be required for any claim. **INFORMATION:** Call on 01284 757525 for a copy of our catalogue. Leave your full name, address & postcode.



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