

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.**

*The use of symbols in this document is to attract your attention to possible danger. The symbols and warnings themselves do not eliminate any danger, nor are they substitutes for correct accident prevention measures.*

## 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.

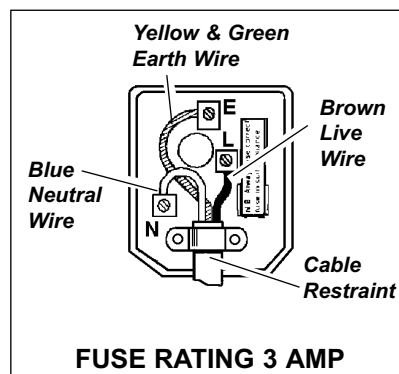
1.1.10. Products which require more than 13 amps are supplied without a plug. In this case you must contact a qualified electrician to ensure that a suitably rated supply is available. We recommend that you discuss the installation of an industrial round pin plug and socket with your electrician.

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. If extension reel is to be used outdoors, ensure it is marked for outdoor use.

### 1.2. GENERAL SAFETY INSTRUCTIONS

**WARNING! Compressor must only be serviced by an authorised agent.**

- ✓ Familiarise yourself with the application and limitations of the compressor.
- ✓ Ensure the compressor is in good order and condition before use. If in any doubt do not use the unit and contact an electrician/service agent.
- ✓ Before moving, or maintaining the compressor ensure it is unplugged from the mains supply and that the air brush is disconnected.
- ✓ Do not attach anything other than an air brush to the compressor.
- ✓ Only use recommended air brush attachments and parts. To use non-recommended items may be dangerous and will invalidate your warranty.
- ✓ Ensure the safe working pressure of any air brush used, exceeds the units output pressure.
- ✓ Ensure the area selected for spraying is provided with suitable ventilation.
- ✓ Ensure the compressor is turned off before disconnecting the air brush.
- ✓ To move the compressor use the handle only.
- ✓ Use the compressor in a well ventilated area and ensure it is placed on a firm surface.
- ✓ Keep tools and other items away from the compressor when it is in use, and keep area clean and clear of unnecessary items.
- ✓ Ensure the air brush supply hose is not tangled or twisted, or pinched.
- ✓ Keep children and unauthorised persons away from the working area.
- ✗ DO NOT dis-assemble compressor for any reason. The unit must be checked and serviced by an approved service agent.
- ✗ DO NOT use the compressor outdoors, or in damp, or wet locations.
- ✗ DO NOT operate within the vicinity of flammable liquids, gases or solids.
- ✗ DO NOT touch compressor cylinder head as it may be hot and will remain so for some time after shutdown.
- ✗ DO NOT attempt to move the compressor by pulling the air brush supply hose. Only move the compressor by its handle.
- ✗ DO NOT use this product to perform a task for which it has not been designed.



▲ **DANGER! DO NOT direct the output jet of air towards people or animals.**

- ✓ When not in use, store the compressor carefully in a safe, dry, childproof location.
- ✓ Switch off the compressor when the air brush is not being used.
- ✓ Wear approved eye protection and a suitable respirator when painting.

□ **WARNING! If an electrical fuse blows, ensure it is replaced with an identical fuse type and rating.**

- x DO NOT eat or smoke whilst spraying.
- x DO NOT spray near naked flames.
- x DO NOT leave the compressor running unattended.
- x DO NOT operate the compressor whilst under the influence of drugs, alcohol or other intoxicating medication.
- x DO NOT carry the compressor while operating the air brush.
- x DO NOT cover the compressor or restrict air flow around the machine whilst operating.
- x DO NOT allow anyone to operate the compressor unless they have received full instructions.

## 2. INTRODUCTION & SPECIFICATION

The AB900 Mini Air Brush Compressor has a quiet running die-cast aluminium diaphragm pump head. It is powered by a 120Watt electric motor and is suitable for powering most air brushes. The compressor requires no lubrication and the air supply from the unit is oil free.

### 2.1. SPECIFICATION.....MODEL NO. AB900

Motor power .....	120W
Input.....	230V - 50hz - 0.58A
Air displacement .....	1.58cfm
Air pressure.....	.50psi
Air outlet size .....	1/8"BSP

## 3. PREPARATION

- 3.1. Remove compressor from packaging and inspect for any shortages or damage. The packaging should contain your compressor with mains lead and plug already fitted. In addition there is an adaptor to convert the 1/8" BSP outlet to the smaller diameter air brush hose fitting plus your instruction manual and warranty card. If anything is found to be missing or damaged contact your supplier.
- 3.3. Confirm that the mains voltage corresponds with the voltage shown on the compressor data plate.
- 3.4. The compressor should be operated in a position that allows good air circulation around the unit.



## 4. OPERATION

□ **WARNING! Ensure that you have read, understood and apply Section 1 safety instructions.**

- 4.1 Situate the compressor in a convenient position for the air brush work to be undertaken. Ensure that it is resting on a stable and level surface that will not be affected by the minor vibration of the unit. Do not rest the compressor on sheets of paper or card etc. Ensure the rubber feet are in direct contact with the work surface.
- 4.2 Do not operate the unit in an enclosed space and ensure that there is adequate air space around the unit.
- 4.3 Screw the chrome adaptor to the end of the air brush hose first, then screw the adaptor and hose to the 1/8"BSP air outlet at the end of the compressor handle. Attach the air brush to the other end of the hose.
- 4.4 Plug the mains lead into a convenient socket but do not switch on until you have fully prepared the medium to be sprayed, the air brush and the item/surface to be sprayed.
- 4.5 Switch on the unit. The compressor will then provide a constant set air flow to the air brush.
- 4.6 Refer to the manufacturers instructions with your air brush for the correct spraying technique. Do not leave the compressor running for any length of time with the air brush attached but not being used. If there is a pause in your work switch the compressor off.
- 4.7 If the operating 'note' of the compressor changes there may be a blockage within the air brush or the air hose may be pinched. The unit should be switched off immediately and the source of the blockage investigated and eliminated.
- 4.8 When the task is complete use the compressor to blow a suitable cleaning solvent through your air brush.
- 4.9 Switch the unit off. Operate the air brush to relieve any pressure left in the hose. Disconnect the air brush from the compressor.
- 4.10 During and immediately after operation, the finned pump head may be hot and should not be touched. If the unit must be moved, lift it by the handle only. Allow the unit to cool before storing it.
- 4.11 Should there appear to be any loss of efficiency when spraying ensure first that the air brush is scrupulously clean and functioning properly. If the air brush is satisfactory then refer to the trouble shooting guide for the compressor.

## 5. MAINTENANCE & TROUBLESHOOTING

- 5.1 Keep the unit clean at all times.  
Do not cover any of the ventilation slots.  
Do not allow any extraneous material to enter the unit via any of the ventilation openings.  
Store in dust free and dry conditions.
- 5.2 The troubleshooting guide below is intended to give you an indication of what type of fault may have developed with your unit over a long period of service. The chart is not intended as a guide on how to repair the fault yourself. In all cases we recommend that the unit be returned to an authorised service agent for rectification.

FAULT	CAUSE	REMEDY
Low air flow	<ul style="list-style-type: none"> <li>Air valve plate (part no.33) or air valve (part no.38) is damaged</li> <li>Diaphragm damaged (part no.31)</li> <li>The head screws are too loose (part no.42 x 6)</li> <li>Air hose too tight.</li> <li>Air hose leaking.</li> </ul>	Change the defective air valve plate or air valve. Change diaphragm. Tighten the screws equally. Back off 1/4 turn. Check seals or renew hose.
Noisy operation	<ul style="list-style-type: none"> <li>The head screws are too tight (part no.42 x 6)</li> <li>Bearing fault.</li> </ul>	Loosen the screws and then tighten them equally . Do not overtighten. Return to dealer for checking.
Humming noise but does not work.	<ul style="list-style-type: none"> <li>The head screws are too tight (part no.42 x 6)</li> <li>Armature fault. (part no.3)</li> </ul>	Loosen the screws and then tighten them equally . Do not overtighten. Return to dealer for checking.

**Declaration of Conformity** We, the sole UK importer, declare that the product listed below is in conformity with the following standards and directives.

### MINI AIR BRUSH COMPRESSOR

**Model: AB900**

89/336 EEC EMC Directive  
73.23/EEC Low Voltage Directive



The construction file for this product is held by the Manufacturer and may be inspected on request by contacting Jack Sealey Ltd.

Signed by Mark Sweetman

1st February 2003

*For Jack Sealey Ltd. Sole UK importer of Sealey Power Products.*

**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 equipment

**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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