SILENT AIR COMPRESSOR
MODEL NO: SHHHHAIR 30
PART NO: 2320860

OPERATION & MAINTENANCE INSTRUCTIONS
Thank you for purchasing this CLARKE Silent Air Compressor.

Before attempting to use this product, please read this manual thoroughly and follow the instructions carefully. In doing so you will ensure the safety of yourself and that of others around you, and you can look forward to your purchase giving you long and satisfactory service.

This product is guaranteed against faulty manufacture for a period of 12 months from the date of purchase. Please keep your receipt which will be required as proof of purchase.

This guarantee is invalid if the product is found to have been abused or tampered with in any way, or not used for the purpose for which it was intended.

Faulty goods should be returned to their place of purchase, no product can be returned to us without prior permission.

This guarantee does not effect your statutory rights.

For Parts & Servicing, please contact your nearest dealer, or CLARKE International, on one of the following numbers.

PARTS & SERVICE TEL: 020 8988 7400
PARTS & SERVICE FAX: 020 8558 3622
or e-mail as follows:
PARTS: Parts@clarkeinternational.com
SERVICE: Service@clarkeinternational.com
SAFETY PRECAUTIONS

WARNING: AS WITH ALL MACHINERY, THERE ARE CERTAIN HAZARDS INVOLVED WITH THEIR OPERATION AND USE. EXERCISING RESPECT AND CAUTION WILL CONSIDERABLY LESSEN THE RISK OF PERSONAL INJURY. HOWEVER, IF NORMAL SAFETY PRECAUTIONS ARE OVERLOOKED, OR IGNORED, PERSONAL INJURY TO THE OPERATOR MAY RESULT.

1. Compressed air is dangerous, NEVER direct a jet of air at people or animals, and NEVER discharge compressed air against the skin.

2. DO NOT operate your compressor with any guards removed.

3. Electrical or mechanical repairs should only be carried out by a qualified engineer. If problems occur, contact your Clarke dealer.

4. Before carrying out any maintenance, ensure the pressure is expelled from the air receiver, and the machine is disconnected from the mains supply.

5. DO NOT leave pressure in the receiver overnight, or when transporting.

6. DO NOT adjust, or tamper with the safety valves. The maximum pressure is factory set, and clearly marked on the machine.

7. DO NOT operate in wet or damp conditions. Keep the machine dry at all times. Similarly, a clean atmosphere will ensure efficient operation. Do not use in dusty or otherwise dirty locations.

8. Some of the metal parts can become quite hot during operation. Take care not to touch these until the machine has cooled down.

9. Always adjust the pressure regulator to the recommended setting for the particular spray gun or tool being used.

10. When spraying flammable materials e.g. cellulose paint, ensure that there is adequate ventilation and keep clear of any possible source of ignition.

11. Protect yourself. Think carefully about any potential hazards which may be created by using the air compressor and use the appropriate protection. e.g. Goggles will protect your eyes from flying particles. Face masks will protect you against paint spray and/or fumes.

12. Before spraying any material always consult paint manufacturers instructions for safety and usage.

13. Do not exert any strain on electrical cables and ensure that air hoses are not angled or wrapped around machinery etc.

14. When disconnecting air hoses or other equipment from your compressor ensure that the air supply is turned off at the machine outlet and vent all pressurised air from within the machine and other equipment attached to it.

15. Make sure that children and animals are kept well away from the compressor and any equipment attached to it.

16. Always ensure that all individuals using the compressor have read and fully understand these Operating Instructions.

17. Ensure that any equipment or tool used in conjunction with your compressor, has a safety working pressure exceeding that of the machine.
ELECTRICAL CONNECTIONS

Connect the mains lead to a standard, 230 Volt (50Hz) electrical supply through an approved 13 amp BS 1363 plug, or a suitably fused isolator switch.

WARNING: THIS APPLIANCE MUST BE EARTHED

IMPORTANT: The wires in the mains lead are coloured in accordance with the following code:

- Green & Yellow - Earth
- Blue - Neutral
- Brown - Live

- Connect GREEN & YELLOW cord to terminal marked with a letter “E” or Earth symbol “ ⚡” or coloured GREEN or GREEN & YELLOW.
- Connect BROWN cord to terminal marked with a letter “L” or coloured RED.
- Connect BLUE cord to terminal marked with a letter “N” or coloured BLACK.

If this appliance is fitted with a plug which is moulded onto the electric cable (i.e. non-rewireable) please note:

1. The plug must be thrown away if it is cut from the electric cable. There is a danger of electric shock if it is subsequently inserted into a socket outlet.
2. Never use the plug without the fuse cover fitted.
3. When replacing a detachable fuse carrier, ensure the correct replacement is used (as indicated by marking or colour code).
4. Replacement fuse covers can be obtained from your local dealer or most electrical stockists.

FUSE RATING

The fuse in the plug must be replaced with one of the same rating (13 amps) and this replacement must be ASTA approved to BS1362.

If in any doubt, consult a qualified electrician. DO NOT attempt any repairs yourself.
PREPARING FOR USE

Before connecting your compressor to the mains supply, check the following:-

- Firstly, ensure the compressor is on level ground. Do not allow it to run if it is standing on an incline.

- Check also that the mains voltage corresponds with that shown on the data label on the side of the compressor.

- Ensure that you are not pressing down on the ON/OFF switch.

FITTING THE INLET FILTER

1. Remove the cap from the top of the air inlet tube.

2. Push the air inlet filter supplied securely on to the tube.
ADDING OIL

The compressor is supplied without any oil inside.

1. Remove the oil cap from the top of the oil filler tube.

2. Pour the oil into the oil filler tube using the funnel on the bottle, then replace the oil cap.
   - Only use Clarke synthetic compressor oil, available from your Clarke dealer (Part No. 3050795).

3. Make sure that the oil level is half way up the oil sight glass.
SWITCHING THE AIR COMPRESSOR ON

1. To start the compressor, use your foot to press and hold down the ON/OFF switch - the motor should start immediately.

   **NOTE:** If the motor fails to start immediately, the air receiver may already be full of air. Check the tank pressure gauge (shown on the right). If you release air, by opening the air outlet tap, the motor will start automatically once the cut-in pressure is reached.

2. Allow the compressor to run for 10-15 seconds, with the air outlet tap, (A) open.
   - This will distribute the lubricating oil.

3. Close the outlet tap and connect a suitable air hose to the filter/regulator outlet (B). Connect the other end to the equipment to be used.

4. Adjust the pressure regulator.
   - To do this, lift the pressure regulator knob (C), and turn it clockwise to increase the pressure, anticlockwise to decrease the pressure. The pressure is shown on the outlet gauge, (D).
   - To lock the pressure regulator knob (C) in place, press down until it clicks into place.

**IMPORTANT:** Always refer to the accessory manufacturers recommendations for optimum operating pressures for their equipment.

5. Check the safety valve by pulling on the ring shown, air should hiss out when pulled.
6. With operating pressure set, open the air outlet tap.

**NOTE:** DO NOT exceed the duty cycle for the machine (see Specifications).

**SHUTTING DOWN THE COMPRESSOR**

1. To shut off the compressor, simply Lift your foot off of the ON/OFF switch.

2. Close the outlet tap and trigger the equipment (spray gun, air tool etc.) to release air from the air hose before disconnecting the hose from the machine.

**DRAINING THE AIR OUTLET FILTER**

1. Drain any liquid that may have accumulated in the air filter chamber, by pushing the valve (E) upwards.
## TROUBLESHOOTING

<table>
<thead>
<tr>
<th>PROBABLE CAUSE</th>
<th>REMEDY</th>
</tr>
</thead>
<tbody>
<tr>
<td>The compressor will not start, or stops and will not start again</td>
<td>Bad connections</td>
</tr>
<tr>
<td></td>
<td>Blown fuse</td>
</tr>
<tr>
<td></td>
<td>Overload cutout switch has tripped</td>
</tr>
<tr>
<td>The compressor does not reach the set pressure and overheats easily</td>
<td>Inlet Air Filter is blocked</td>
</tr>
<tr>
<td></td>
<td>NOTE: It is also possible that you are trying to use more air than the</td>
</tr>
<tr>
<td></td>
<td>compressor is capable of delivering</td>
</tr>
<tr>
<td>Air pressure from the regulator will not adjust</td>
<td>The diaphragm within the regulator body is broken</td>
</tr>
<tr>
<td>Compressor operating, but no air from outlet</td>
<td>Inlet air filter blocked</td>
</tr>
<tr>
<td></td>
<td>Pressure regulator closed</td>
</tr>
</tbody>
</table>
# MAINTENANCE

<table>
<thead>
<tr>
<th></th>
<th>Daily</th>
<th>Once a Month</th>
<th>Once a Year</th>
</tr>
</thead>
<tbody>
<tr>
<td>Check the oil level, See “Adding Oil” on page 6.</td>
<td>X</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Drain the water collected in the air outlet filter. See “Draining the air outlet filter” on page 8.</td>
<td>X</td>
<td>X</td>
<td></td>
</tr>
<tr>
<td>Check the compressor for loose connections, wear, etc.</td>
<td></td>
<td>X</td>
<td></td>
</tr>
<tr>
<td>Clean the compressor with a soft cloth.</td>
<td></td>
<td></td>
<td>X</td>
</tr>
<tr>
<td>Check the safety valve pulling the ring gently when there is pressure in the tank.</td>
<td></td>
<td></td>
<td>X</td>
</tr>
<tr>
<td>Total replacement of oil See “Drain and replace the oil” on page 10.</td>
<td></td>
<td></td>
<td>X</td>
</tr>
</tbody>
</table>

## DRAIN AND REPLACE THE OIL

Drain and replace the oil annually, as follows:

1. Loosen the collar securing screw and remove the collar.
2. Pull off the head, complete with sealing ring.
3. Tilt the compressor carefully on to its side, so that the oil is drained into a suitable container.
   - Dispose of the oil according to local regulations.
4. Reassemble the head ensuring the sealing ring is in perfect condition and is located correctly.
## SPECIFICATIONS

<table>
<thead>
<tr>
<th>Specification</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Max. Pressure</td>
<td>8 Bar</td>
</tr>
<tr>
<td>Air Displacement</td>
<td>0.88 CFM</td>
</tr>
<tr>
<td>Receiver Capacity</td>
<td>0.15L</td>
</tr>
<tr>
<td>Fuse Rating</td>
<td>13 Amps</td>
</tr>
<tr>
<td>Duty Cycle</td>
<td>50% (15 mins (ON) - 15 mins (OFF))</td>
</tr>
<tr>
<td>Part No.</td>
<td>2320860</td>
</tr>
<tr>
<td>Dimensions (L x H x W)</td>
<td>200 x 300 x 360 mm</td>
</tr>
<tr>
<td>Sound Power Level</td>
<td>40dBA</td>
</tr>
<tr>
<td>Weight</td>
<td>13kg</td>
</tr>
<tr>
<td>Compressor Oil</td>
<td>500mL Synthetic Oil</td>
</tr>
<tr>
<td>Oil Part No.</td>
<td>3050795</td>
</tr>
</tbody>
</table>

Please note that the details and specifications contained herein, are correct at the time of going to print. CLARKE International reserve the right to change specifications at any time without prior notice.
<table>
<thead>
<tr>
<th>PART NUMBER</th>
<th>DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>C0024</td>
<td>Rubber Oil Plug Ø8</td>
</tr>
<tr>
<td>C0052</td>
<td>Head Gasket</td>
</tr>
<tr>
<td>C0053</td>
<td>Valve Plate E88 With Valve</td>
</tr>
<tr>
<td>C0054</td>
<td>Cylinder Gasket</td>
</tr>
<tr>
<td>C0359</td>
<td>Spacer E 59-E 88</td>
</tr>
<tr>
<td>C0360</td>
<td>Rubber Grommet E 59 -E 88</td>
</tr>
</tbody>
</table>
| C1099       | "Oil Level Glass 1/2"
| C1236       | Kit Valve Plate+Gasket E88 |
| C1769       | Kit Holding Band L55-L88 |
| C1778       | Kit Terminal Box L88 (230V) |
| C1779       | Overload Protector L88 (230V) |
| C1782       | Start Relay L88 (230V) |
| C1794       | Kit Intake Filter |
| C2247       | O' Ring |
| C1906       | Motor Protection Ring |
| C0012       | Rubber Support |
| C0021       | "Draincock M 1/8" |
| C0516       | Connection M3/8 F1/4 |
| C0032       | Connection 1 1/4 MX3 1/8F CH 25 |
| C0120       | Washer Ø9X24 UNI 6593 |
| C0133       | Electrical Cable 3X0.75 L.2500 (230V) |
| C0335       | Air Pipe MM 140 1/8FX1/8F Rotable |
| C0346       | Reduction M-F-M 1/4X1/8 |
| C0350       | "Safety Valve M1/4" 8.5 Bar |
| C0077       | Swivel Connector M1/4 |
| C0567       | "Nipple 1/8"
| C1681       | ""L"" Connection M 1/8X8"
| C1713       | Gauge R Ø40 |
| C1971       | Filter Regulator |
| C210924     | Tank |
| C2368       | Footswitch |
| C2369       | Outlet tap |
| R0153       | HH Screw M8X25 UNI 5739 |

**PUMP ELECTRICAL DIAGRAM**

- **Graph:**
  - N/min vs. cfm
  - Curves for 115 V/60 Hz and 230 V/50 Hz
  - Pressure range: 0 to 8 bar (0 to 120 psi)

**Diagram:**

- Pictorial diagram of pump electrical connections.
DECLARATION OF CONFORMITY

This is an important document and should be retained.

We declare that this product complies with the following directives:

89/336/EEC  Electromagnetic Compatibility directive, as amended.
73/23/EEC  Low Voltage Equipment directive, amended by 93/68/EEC.
98/37/EC  Machinery Directive.
87/404/EEC  Simple Pressure Vessels
97/23/EC  Pressure Equipment

The Following Standards have been applied to the product:

BS EN 10121-1/96  BS EN 292-1/91
BS EN 292-2/91  BS EN 60204-1/98
BS EN 55014-1:2001  EN 61000-3-2:2001

The technical documentation required to demonstrate that the products meet the requirements of the Low Voltage Equipment directive has been compiled and is available for inspection by the relevant enforcement authorities.

The CE mark was first applied in: 2003

Product Description: Silent Air Compressor
Model number(s): SHHHAIR 30
Serial / batch Number: Current Manufacture.
Date of Issue: 01/05/2008

Signed
A C. AIKEN
Senior Manager Clarke International.
A SELECTION FROM THE VAST RANGE OF

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