A SELECTION OF OTHER QUALITY PRODUCTS

AIR COMPRESSORS
From DIY to Industrial. Plus air tools, spray guns and accessories.

GENERATORS
Prime duty or emergency standby for business, home and leisure.

POWER WASHERS
Hot and cold, electric and engine driven - we have what you need.

WELDERS
Mig, Arc, TIG and Spot. From DIY to auto/industrial.

METALWORKING
Drills, grinders and saws for DIY and professional use.

WOODWORKING
Saws, sanders, lathes, mortisers and dust extraction.

HYDRAULICS
Cranes, body repair lifts, transmission jacks for all types of workshop use.

WATER PUMPS
Submersible, electric and engine driven for DIY, agriculture and industry.

POWER TOOLS
Angle grinders, portable drill sets, saws and Sanders.

STARTER/CHARGERS
All sizes for car & commercial use.

For Servicing and Spare Parts, please contact Machine Mart on one of the following numbers:
PARTS: 0115 956 1805  SERVICE: 0115 956 1809

TIGER 8/30 OIL FREE AIR COMPRESSOR

OPERATION & MAINTENANCE INSTRUCTIONS

©
0102
CERTIFICATE OF CONFORMITY

We declare that this product complies to the following standards/directives:

- 98/37/EC
- 87/404/EEC
- EN 292-2
- IEC 34-1
- EN 60 335-1
- 89/336/EEC

Product Description: AIR COMPRESSOR
Model Number: TIGER 8/30 OIL FREE
Serial (Batch) No: SEE PRODUCT DATA PLATE

Signed [Signature]
Thank you for purchasing this Airmaster Oil Free Air Compressor, which is designed for hobby and DIY use only. This machine is not designed to run continuously when delivering pressures greater than 7 bar. Please refer to the Duty Cycle details, under ‘Specifications’ on page 13.

Please read this leaflet thoroughly and carefully follow all instructions. In doing so you will ensure the safety of yourself and that of others around you, and you can look forward to the compressor giving you long and satisfactory service.

GUARANTEE

This product is guaranteed against faulty manufacture for a period of 12 months from the date of purchase. Please keep your receipt 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 without prior permission. This guarantee does not effect your statutory rights.

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For Spare Parts and Service, please contact your nearest dealer, Machine Mart on one of the following numbers.

**PARTS TEL:** 0115 956 1805
**SERVICE TEL:** 0115 956 1809
**CUSTOMER CARE LINE:** 0115 956 1810
**or:** 0115 955 9999
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, or damage to property may result. It is in your own interest to read and pay attention to the following rules:

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 Machine Mart.
4. Before carrying out any maintenance, ensure the pressure is expelled from the air receiver, and the machine is disconnected from the mains.
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.
8. A clean atmosphere will ensure efficient operation. Do not use in dusty or otherwise dirty locations.
9. Some of the metal parts can become quite hot during operation. Take care not to touch these until the machine has cooled down.
10. Always adjust the pressure regulator to the recommended setting for the particular spray gun or tool being used.
11. When spraying inflammable materials, e.g., cellulose paint, ensure there is adequate ventilation and keep clear of any possible source of ignition.
12. 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.
13. Before spraying any material always consult paint manufacturers instructions for safety and usage.

SPECIFICATIONS

- Electrical Supply ................................................. 230 V, 1 Phase 50Hz
- Motor Rating ....................................................... 1.5 HP
- Max. Air Pressure ................................................ 8 bar (115 lbf/in²)
- Air Displacement ............................................... 7 cuft/min
- Air Receiver ........................................................ 24 litre
- Nett Weight......................................................... 18kg
- Dimensions.......................................................... 600x260x600mm
- Duty Cycle .......................................................... S3 40% at 7bar**
- Part No. ............................................................... 000116158

**The machine may not be run for more than 4 minutes in any 10 minute period at 7bar

Please note that the details and specifications contained herein, are correct at the time of going to print. However, Machine Mart reserve the right to change specifications at any time without prior notice. Always consult the machine’s data plate.
14. Personal safety products can be obtained from your local dealer.
15. Do not exert any strain on electrical cables and ensure that air hoses are not tangled or wrapped around machinery etc.
16. When disconnecting air hoses or other equipment from your compressor ensure that the air supply is turned off at the machine outlet and expel all pressurised air from within the machine and other equipment attached to it.
17. Make sure that children and animals are kept well away from the compressor and any equipment attached to it.
18. Always ensure that all individuals using the compressor have read and fully understand the Operating Instructions supplied.

ASSEMBLY

The wheel assembly, and rubber foot are packed separately. The method of assembly is shown on the packaging, and is duplicated below.

When attaching the wheels, do not tip the machine on to its side.
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

As the colours of the flexible lead of this appliance may not correspond with the coloured markings identifying terminals in your plug proceed as follows:

- 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.

We strongly recommend that this machine is connected to the mains supply via a Residual Current Device (RED).

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

Fusing

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.

We strongly recommend that this machine is connected to the mains supply via a Residual Current Device (RED).

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

3. HANDLING THE GUN

The first requirement for a good resultant finish is the proper handling of the gun. The gun should be held perpendicular to the surface being covered and moved parallel to it. The stroke should be started before the trigger is pulled and the trigger should be released before the stroke is ended. This gives accurate control of the gun and material. The distance between gun and surface should be 6 to 12 inches depending on material and atomizing pressure. The material deposited should always be even and wet. Lap each stroke over the preceding stroke to obtain a uniform finish.

NOTE: To reduce overspray and obtain maximum efficiency, always spray with the lowest possible atomizing air pressure.

4. SPRAY GUN MAINTENANCE

1. Immerse only the front end of the gun until solvent just covers the fluid connection.
2. Use a bristle brush and solvent to wash off accumulated paint.
3. Do not submerge the entire spray gun in solvent because:
   a. the lubricant in the gland packings will dissolve and the packings will dry out.
   b. the lubricant will dissolve causing harder operation and faster wear.
   c. residue from dirty solvent may clog the narrow air passages in the gun.
4. Wipe down the outside of the gun with solvent dampened rag.
5. Lubricate gun daily. Use a light machine oil on:
   a. fluid needle packing.
   b. air valve packing.
   c. fan control packing.
   d. trigger pivot point.
   Coat the fluid control spring with vaseline.

Caution: Never use lubricants containing silicone as this may cause finish defects.
PAINT SPRAYING HINTS

WARNING
NEVER attempt to spray unless you are wearing suitable, approved respiratory and eye protection.
REMEMBER that some modern paints require specialist respiratory protection...always consult the paint manufacturers instructions.

1. GENERAL PREPARATION
   a. Ensure that the area in which you will be spraying is clean and dust free.
   b. Connect spray gun to compressor via suitable flexible hose.
   c. With no paint in spray gun, test system for air leaks.
   d. Cover adjacent pieces of equipment to prevent overspray. Mask areas of the article not to be sprayed.
   e. Ensure surface to be painted is clean, dry and free from oil and dust. Check paint manufacturer’s instructions for any special surface preparation required.
   REMEMBER - TIME SPENT PREPARING SAVES TIME SPENT FINISHING

2. PAINT PREPARATION
   a. Achieve the correct paint viscosity. This should be done according to paint manufacturer’s instructions, and will vary according to type of paint.
   b. Having mixed the paint thoroughly in a separate container, pour into the spray gun paint container through a fine filter.
   DO NOT OVERFILL SPRAY GUN PAINT CONTAINER - three quarters full is maximum
   c. It is usually best to experiment with a couple of practice spray coats on a piece of material with the same type of surface as the article you wish to spray, eg. metal for a car body panel, wood for a piece of furniture etc.
   Some common problems:

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<th>CAUSE</th>
<th>CORRECTION</th>
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</thead>
<tbody>
<tr>
<td>Paint does not atomise</td>
<td>Paint is too thick,</td>
<td>Add thinners or increase air</td>
</tr>
<tr>
<td>(comes out in blobs)</td>
<td>air pressure is too</td>
<td>pressure (not specified by</td>
</tr>
<tr>
<td></td>
<td>low above 50 psi,</td>
<td>paint manuf.</td>
</tr>
<tr>
<td>Paint dries before hitting</td>
<td>Paint is too thin.</td>
<td>Add more paint.</td>
</tr>
<tr>
<td>surface, leaving it dry with</td>
<td>Air pressure is too</td>
<td>Reduce air pressure.</td>
</tr>
<tr>
<td>a rough texture</td>
<td>high</td>
<td></td>
</tr>
<tr>
<td>Finish is pitted like Orange</td>
<td>Air pressure too high</td>
<td>Reduce air pressure.</td>
</tr>
<tr>
<td>peel</td>
<td>or spray too close to</td>
<td>increase distance between</td>
</tr>
<tr>
<td></td>
<td>work</td>
<td>gun and work.</td>
</tr>
</tbody>
</table>

OPERATION (Numbers in brackets refer to fig. 1 below)

Before connecting your Tiger to the mains supply, check the following:-
- The mains voltage is 230V.
- The ON/OFF control knob (3) is in the OFF (lower) position.
- The pressure regulator (5) should be set at its lowest setting, i.e. turned fully anticlockwise, and the tap (6) screwed IN to its closed position.
- If the machine has not been used for 24 hours or so, open the air receiver drain valve (9) to drain any condensate which may have accumulated. When clear, close the valve, fingertight.

IMPORTANT: If the receiver is under pressure, keep your hands well away from the air being expelled….remember, compressed air is DANGEROUS!

Now connect a suitable air hose, fitted with quick-fit adaptors, between the air outlet (7) and the spray gun or air tool being used.
Ensure that the rubber washers are in place to form the necessary air tight seals. These fittings should be screwed by hand but take care not to over tighten. If a rubber seal is damaged then it should be replaced.
If you do not wish to use the Quick Fit method of hose connection, simply remove the Quick Fit nut and use an air hose fitted with conventional 1/4 BSP connectors.
Once the hose connections are complete, CHECK AGAIN to ensure the pressure regulator (5) is turned fully anticlockwise so that compressed air cannot reach the air tool, then switch the compressor ON, by lifting the ON/OFF knob (3), until it clicks into the upper position.
The air compressor will now start, and pressure will build up in the receiver to a regulated max. pressure of 8 Bar (115 psi).
Should the motor fail to start immediately, it is probable that the air receiver is already full of air. Check the tank pressure gauge (8). If you release air by opening an air outlet tap (6), the motor will start automatically once the cut-in pressure is reached.
If this is not the case, it is possible that the overload cutout has intervened. This is a safety device to prevent the motor from overheating. The device will reset when the temperature falls to a predetermined level. In this event, switch OFF the machine and wait for 5-10 minutes, before pressing the RESET button (2).

Switch ON the machine and try again. If the motor fails to start, after several attempts, consult Machine Mart.

Once the machine has started, turn ON the air supply to your air tool by opening the tap (6), and turn the pressure regulator (5) clockwise so that your chosen setting, shown on the label on top of the regulator knob, is opposite the inverted vee mark on the side of the casting. Note that the pressure gauge registers the pressure in the air receiver only.

Check to ensure that there are no air leaks at any of the couplings or in other parts of the system before operating the spray gun or air tool in the normal way.

When the compressor reaches its maximum working pressure, the motor will automatically cut out, and will restart when the pressure has fallen by approximately 20 psi. This automatic STOP/START process will continue, as necessary, to maintain pressure in the receiver.

When you have finished the job in hand **ALWAYS** switch OFF at the ON/OFF switch, not the mains supply, and release any pressure remaining in the system by opening the drain valve until all air is expelled. This also allows any condensate to drain off.

Operate the air tool to further ensure that there is no pressure in the system before disconnecting the tool. Finally, reset the pressure regulator to zero by turning the knob fully anticlockwise.

---

**ROUTINE MAINTENANCE**

**IMPORTANT:** Before carrying out any of this service work, always disconnect the machine from the mains supply, drain the air receiver and, if necessary, allow the machine to cool down before starting work.

**Daily**

Before use, always open the drain valve to ensure that any condensate, which may have accumulated, is drained off.

**Monthly**

It is important to keep the Compressor clean, with the help of a small soft brush and vacuum cleaner. In particular, the air intake filter should be inspected at least monthly, and more often in dusty conditions, so that it is always kept free of any dirt particles, which if not cleaned away, will affect the performance of the machine.

To clean the air intake filter, carefully prise out the sponge element shown in fig.2. Clean the sponge and the inner housing using a soft brush.

If necessary, the sponge filter may be gently washed in warm soapy water, rinsed and allowed to dry thoroughly before refitting.

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**TROUBLESHOOTING**

With considerate use, your AIRMASTER Air Compressor should provide you with long and trouble free service. Routine checks should be made on both the electrical supply as well as on all the compressed air lines and connections. If any fault appears, the reason for which is not immediately obvious, we recommend that you contact Machine Mart.

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<th><strong>POSSIBLE CAUSE</strong></th>
<th><strong>REMEDY</strong></th>
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<td>The compressor stops and will not start again.</td>
<td>Overload cutout switch has tripped.</td>
<td>Switch off and wait 5 minutes before switching on.</td>
</tr>
<tr>
<td>The compressor does not reach the set pressure and overheats easily.</td>
<td>Compressor head gasket blown or valve broken.</td>
<td>Wait for compressor to cool down, disassemble head and replace any broken components. Carefully clean all sealing surfaces before reassembling. If in doubt contact your local Machine Mart.</td>
</tr>
<tr>
<td>Compressor does not start.</td>
<td>Air receiver charged</td>
<td>Open drain cock to expel air. Compressor should start again when pressure reduces to approx. 95 psi.</td>
</tr>
</tbody>
</table>

**CAUTION** Do not attempt any repair or adjustment if you are uncertain as to how it should be done. If you have any queries, contact your local Machine Mart.