



230V BELT DRIVEN OIL COMPRESSOR

31254



These instructions accompanying the product are the original instructions. This document is part of the product, keep it for the life of the product passing it on to any subsequent holder of the product. Read all these instructions before assembling, operating or maintaining this product.

This manual has been compiled by Draper Tools describing the purpose for which the product has been designed, and contains all the necessary information to ensure its correct and safe use. By following all the general safety instructions contained in this manual, it will ensure both product and operator safety, together with longer life of the product itself.

All photographs and drawings in this manual are supplied by Draper Tools to help illustrate the operation of the product.

Whilst every effort has been made to ensure the accuracy of information contained in this manual, the Draper Tools policy of continuous improvement determines the right to make modifications without prior warning.

1. TITLE PAGE

1.1 INTRODUCTION:

USER MANUAL FOR: 230V Belt Driven Oil Compressor

Stock No: 31254

Part No: DA100/330

1.2 REVISIONS:

Date first published September 2020.

As our user manuals are continually updated, users should make sure that they use the very latest version.

Downloads are available from: <http://drapertools.com/manuals>

Draper Tools Limited
Hursley Road
Chandler's Ford
Eastleigh
Hampshire
SO53 1YF
UK

Website: drapertools.com

Product Help Line: +44 (0) 23 8049 4344

General Fax: +44 (0) 23 8026 0784

1.3 UNDERSTANDING THIS MANUALS SAFETY CONTENT:

Warning! – Information that draws attention to the risk of injury or death.

Important – Information that draws attention to the risk of damage to the product or surroundings.

1.4 COPYRIGHT © NOTICE:

Copyright © Draper Tools Limited.

Permission is granted to reproduce this publication for personal and educational use only. Commercial copying, redistribution, hiring or lending is prohibited.

No part of this publication may be stored in a retrieval system or transmitted in any other form or means without written permission from Draper Tools Limited.

In all cases this copyright notice must remain intact.

2. CONTENTS

2.1 TABLE OF CONTENTS

1. TITLE PAGE	
1.1 INTRODUCTION:.....	2
1.2 REVISIONS:.....	2
1.3 UNDERSTANDING THIS MANUALS SAFETY CONTENT:.....	2
1.4 COPYRIGHT © NOTICE:.....	2
2. CONTENTS	
2.1 TABLE OF CONTENTS	3
3. WARRANTY	
3.1 WARRANTY	5
4. INTRODUCTION	
4.1 SCOPE.....	6
4.2 SPECIFICATION	6
4.3 HANDLING AND STORAGE.....	6
5. HEALTH AND SAFETY INFORMATION	
5.1 GENERAL SAFETY INSTRUCTIONS FOR POWER TOOL USE	7
5.2 ADDITIONAL SAFETY INSTRUCTIONS FOR SAFETY VALVES.....	8
5.3 ADDITIONAL SAFETY INSTRUCTIONS FOR PRESSURE VESSELS	9
5.4 RESIDUAL RISK	9
5.5 CONNECTION TO THE POWER SUPPLY.....	9
6. TECHNICAL DESCRIPTION	
6.1 IDENTIFICATION.....	10
7. UNPACKING AND CHECKING	
7.1 PACKAGING	11
7.2 WHAT'S IN THE BOX	11
8. PREPARING THE COMPRESSOR	
8.1 FITTING THE WHEELS.....	12
8.2 FITTING THE ANTI-VIBRATION RUBBER FEET	12
8.3 ASSEMBLING THE HANDLE	12
8.4 FITTING THE AIR FILTER	12
8.5 FILLING WITH OIL.....	13
8.6 FINAL CHECKS BEFORE USE	13
9. OPERATION	
9.1 BASIC COMPRESSOR OPERATION	14
9.2 SAFETY VALVE	15
9.3 ADJUSTING THE PRESSURE SWITCH.....	15
9.4 OVERLOAD CUT-OUT	15
9.5 MOISTURE IN COMPRESSED AIR	16
9.6 STORAGE.....	16

2. CONTENTS

- 10. MAINTENANCE AND TROUBLESHOOTING**
 - 10.1 TROUBLESHOOTING GUIDE..... 17
 - 10.2 BASIC MAINTENANCE AND CHECKS..... 19
 - 10.3 GENERAL MAINTENANCE AND SERVICE INTERVALS 20
- 11. EXPLANATION OF SYMBOLS**
 - 11.1 EXPLANATION OF SYMBOLS..... 21
- 12. DISPOSAL**
 - 12.1 DISPOSAL 22

3. WARRANTY

3.1 WARRANTY

Draper tools have been carefully tested and inspected before shipment and are guaranteed to be free from defective materials and workmanship.

Should the tool develop a fault, please return the complete tool to your nearest distributor or contact:

Draper Tools Limited, Chandler's Ford, Eastleigh, Hampshire, SO53 1YF. England.

Telephone Sales Desk: +44 (0) 8049 4333 or Product Help Line +44 (0) 23 8049 4344.

A proof of purchase **must** be provided with the tool.

If upon inspection it is found that the fault occurring is due to defective materials or workmanship, repairs will be carried out free of charge. This warranty period covering labour is 12 months from the date of purchase except where tools are hired out when the warranty period is 90 days from the date of purchase. The warranty is extended to 24 months for parts only. This warranty does not apply to any consumable parts, any type of battery or normal wear and tear, nor does it cover any damage caused by misuse, careless or unsafe handling, alterations, accidents, or repairs attempted or made by any personnel other than the authorised Draper warranty repair agent.

Note: If the tool is found not to be within the terms of warranty, repairs and carriage charges will be quoted and made accordingly.

This warranty applies in lieu of any other warranty expressed or implied and variations of its terms are not authorised.

Your Draper warranty is not effective unless you can produce upon request a dated receipt or invoice to verify your proof of purchase within the warranty period.

Please note that this warranty is an additional benefit and does not affect your statutory rights.

Draper Tools Limited.

4. INTRODUCTION

4.1 SCOPE

This compressor is capable of supplying compressed air to a maximum pressure of 8bar. To operate pneumatic tools for a variety of applications including blowing, spraying and tyre inflating. Any application other than that it was designed for is considered misuse.

4.2 SPECIFICATION

Stock No.	31254
Part No.	DA100/330
Motor:	
Rated voltage	230V~
Rated frequency	50Hz
Rated input	2200W (3.0HP)
Maximum working pressure	116psi (8bar)
Air displacement	10.2cfm (290L/min)
Free air delivery	8.1cfm (230L/min)
Receiver capacity	100 Litres
Sound pressure level (LpA)	77dB(A)
Sound power level (LWA)	95dB(A)
*single value noise level	95dB(A)
Dimensions (LxWxH)	1080 x 420 x 810mm
Weight	75kg

4.3 HANDLING AND STORAGE

- Care must be taken when handling this product.
 - Dropping this power tool could have an effect on its accuracy and could also result in personal injury. This product is not a toy and must be respected.
- Environmental conditions can have a detrimental effect on this product if neglected.
 - Exposure to damp air can gradually corrode components. If the product is unprotected from dust and debris, components will become clogged.
 - If not cleaned and maintained correctly or regularly, the machine will not perform at its best.

This compressor is designed to be moved to different locations. Ensure it is always operated on a level surface. When in transit care should be taken not to cause damage particularly to gauges and air lines.

5. HEALTH AND SAFETY INFORMATION

5.1 GENERAL SAFETY INSTRUCTIONS FOR POWER TOOL USE

When using any type of power tool there are steps that should be taken to make sure that you, as the user, remain safe.

Common sense and a respect for the tool will help reduce the risk of injury.

Read the instruction manual fully. Do not attempt any operation until you have read and understood this manual.

Most important you must know how to safely start and stop this machine, especially in an emergency.

Keep the work area tidy and clean. Attempting to clear clutter from around the machine during use will reduce your concentration. Mess on the floor creates a trip hazard. Any liquid spilt on the floor could result in you slipping.

Find a suitable location. If the machine is bench mounted, the location should provide good natural light or artificial lighting as a replacement. Avoid damp and dust locations as it will have a negative effect on the machine's performance. If the machine is portable do not expose the tool to rain. In all cases do not operate power tools near any flammable materials.

Keep bystanders away. Children, onlookers and passers by must be restricted from entering the work area for their own protection. The barrier must extend a suitable distance from the tool user.

Unplug and house all power tools that are not in use. A power tool should never be left unattended while connected to the power supply. They must be housed in a suitable location, away locked up and from children. This includes battery chargers.

Do not overload or misuse the tool. All tools are designed for a purpose and are limited to what they are capable of doing. Do not attempt to use a power tool (or adapt it in any way) for an application it is not designed for. Select a tool appropriate for the size of the job. Overloading a tool will result in tool failure and user injury. This covers the use of accessories.

Dress properly. Loose clothing, long hair and jewellery are all dangerous because they can become entangled in moving machinery. This can also result in parts of body being pulled into the machine. Clothing should be close fitted, with any long hair tied back and jewellery and neck ties removed. Footwear must be fully enclosed and have a non-slip sole.

Wear personal protective equipment (PPE). Dust, noise, vibration and swarf can all be dangerous if not suitably protected against. If the work involving the power tool creates dust or fumes wear a dust mask. Vibration to the hand, caused by operating some tools for longer periods must be protected against. Wear vibration reducing gloves and allow long breaks between uses. Protect against dust and swarf by wearing approved safety goggles or a face shield. These are some of the more common hazards and preventions, however, always find out what hazards are associated with the machine/work process and wear the most suitable protective equipment available.

Do not breathe contaminated air. If the work creates dust or fumes connect the machine (if possible) to an extraction system either locally or remotely. Working outdoors can also help if possible.

Move the machine as instructed. If the machine is hand held, do not carry it by the power supply cable. If the product is heavy, employ a second or third person to help move it safely or use a mechanical device. Always refer to the instructions for the correct method.

Do not overreach. Extending your body too far can result in a loss of balance and you falling. This could be from a height or onto a machine and will result in injury.

Maintain your tools correctly. A well maintained tool will do the job safely. Replace any damaged or missing parts immediately with original parts from the manufacturer. As applicable, keep blades sharp, moving parts clean, oiled or greased, handles clean, and emergency devices working.

Wait for the machine to stop. Unless the machine is fitted with a safety brake, some parts may continue to move due to momentum. Wait for all parts to stop, then unplug it from the power supply before making any adjustments, carrying out maintenance operations or just finishing using the tool.

5. HEALTH AND SAFETY INFORMATION

Remove and check setting tools. Some machinery requires the use of additional tools or keys to set, load or adjust the power tool. Before starting the power tool always check to make certain they have been removed and are safely away from the machine.

Prevent unintentional starting. Before plugging any machine in to the power supply, make sure the switch is in the OFF position. If the machine is portable, do not hold the machine near the switch and take care when putting the machine down, that nothing can operate the switch.

Carefully select an extension lead. Some machines are not suitable for use with extension leads. If the tool is designed for use outdoors, use an extension lead also suitable for that environment. When using an extended lead, select one capable of handling the current (amps) drawn by the machine in use. Fully extend the lead regardless of the distance between the power supply and the tool. Excess current (amps) and a coiled extension lead will both cause the cable to heat up and can result in fire.

Concentrate and stay alert. Distractions are likely to cause an accident. Never operate a power tool if you are under the influence of drugs (prescription or otherwise), including alcohol or if you are feeling tired. Being disorientated will result in an accident.

Have this tool repaired by a qualified person. This tool is designed to conform to the relevant international and local standards and as such should be maintained and repaired by someone qualified, using only original parts supplied by the manufacturer. This will ensure the tool remains safe to use.

5.2 ADDITIONAL SAFETY INSTRUCTIONS FOR SAFETY VALVES

Information

The safety valves are designed and constructed for use exclusively with compressed air, free from impurities. The materials used in construction are suitable for operating the valve at the rated pressure and temperatures. The Viton or NBR gasket conserves the resistance characteristics, even in prolonged use. The valve caulking impedes calibration modification; tampering with the valve and/or changing the constructor's calibration is forbidden.

Installation

Valve installation must be performed exclusively by technically prepared persons, who are responsible and in good health. Checking the integrity of the valve before installation is obligatory. Also, check that the valve pressure is no greater than the operating pressure of the tank or of the system to protect. Check that the discharge flow rate of the valve is greater than the quantity of the air to discharge. The safety valve must be positioned directly on the tank in a vertical position, in a dry, accessible place protected against the weather and far away from liquids or condensation. It must be positioned so as to have sufficient space all around for correct air discharge, without causing damage to persons and/or things. The valve rod must therefore be free in its movement when discharging. The connection between the valve and the part to be protected must be free from all kinds of choking and be as short as possible so as not to reduce the discharge flow rate of the valve itself. The connection passage area must be greater than the valve orifice area. During installation, screw on the valve with a torque spanner using the hexagonal part of the body. Apply a maximum torque of 30Nm, paying attention not to cause any deformation; using pincers, pliers, hammers or tools other than a hexagonal spanner is forbidden. Check the inlet hole and the shutter are not blocked by glue, teflon or similar materials that could bind the shutter or other functional components. If the valve is replaced, the compressor air contained in the system must be discharged first. We decline all responsibility for damage caused to persons and/or things due to failure to observe these instructions.

Maintenance and inspection:

The valve must not be subject to knocks which may cause deformities. It is obligatory for qualified technicians to make sure that the safety valve functions correctly at least once a year. Valves equipped with a ring must be tested while pressurised to between 80 – 90% of the calibration value. Pull the ring and release immediately. During the test the valve must definitely open and

5. HEALTH AND SAFETY INFORMATION

discharge the air and re-close immediately when the ring is released. It is absolutely necessary to carry out this procedure with the utmost caution because this type of job can be dangerous if adequate safety measures are not taken; wear goggles, a head set and anything else necessary to protect against noise, jets of air, etc. which may be discharged from the valve.

5.3 ADDITIONAL SAFETY INSTRUCTIONS FOR PRESSURE VESSELS

- This pressure tank can only be charged with natural air within temperature and pressure limits as specified on the manufacturer's plate and declaration of conformity.
- Ensure that tank safety and control devices are efficient and flawless. When replaced, the tank should not be under pressure.
- Drain the condensation off the tank every 7 days.
- Check for signs of inner corrosion at regular intervals. Tank walls should have a minimum thickness of 1.0 – 2.0mm.
- Any kind of welding to the tank is forbidden.
- The user shall comply with laws on pressure vessel operation in force in the country in which the tank is operated.
- The construction is mainly effected for permanent load by internal pressure. Cyclic loads are not considered, only for a range of 10% PS.

5.4 RESIDUAL RISK

Important: Although the safety instructions and operating manuals for our tools contain extensive instructions of safe working with power tools, every power tool involves a certain residual risk which can not be completely excluded by safety mechanisms. Power tools must therefore always be operated with caution!

5.5 CONNECTION TO THE POWER SUPPLY

Caution: Risk of electric shock. Do not open.

This appliance is supplied with an approved plug and cable for your safety. The value of the fuse fitted is marked on the pin face of the plug. Should the fuse need replacing, ensure the substitute is of the correct rating, approved to BS1362 and ASTA or BS Kite marked.

ASTA 

BSI 

Make sure the power supply information on the machine's rating plate are compatible with the power supply you intend to connect it to.

If a replacement plug is to be fitted this must be carried out by a qualified electrician.

The damaged or incomplete plug, when cut from the cable shall be disabled to prevent connection to a live electrical outlet.

This appliance is Class I[†] and is designed for connection to a power supply matching that detailed on the rating label and compatible with the plug fitted.

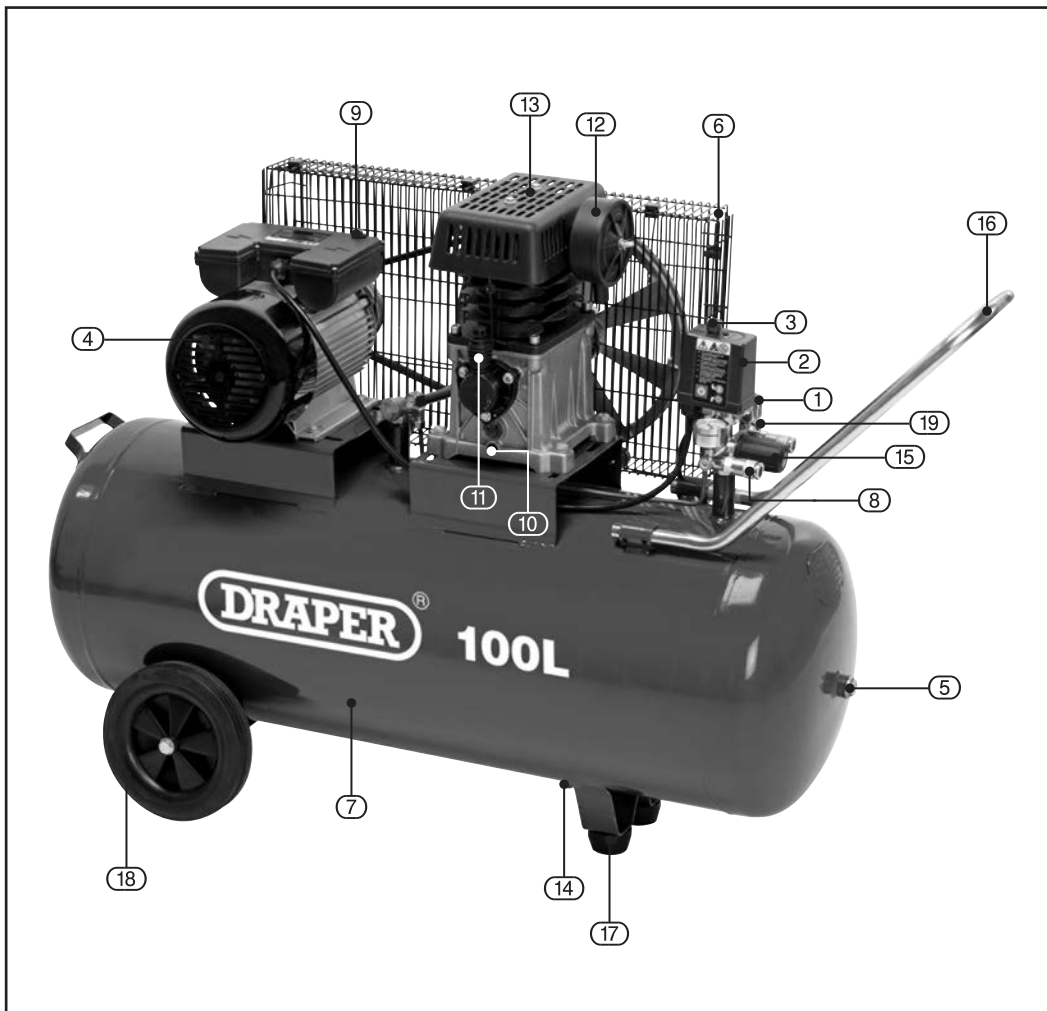
If an extension lead is required, use an approved and compatible lead rated for this appliance. Follow all the instruction supplied with the extension lead.

[†]Earthed:  This product requires an earth connection to protect against electric shock from accessible conductive parts in the event of a failure of the basic insulation.

Important: If using an extension lead, follow the instructions that came with your lead regarding maximum load while cable is wound. If in doubt, ensure that the entire cable is unwound. Using a coiled extension lead will generate heat which could melt the lead and cause a fire.

6. TECHNICAL DESCRIPTION

6.1 IDENTIFICATION



- | | |
|-------------------------------------|----------------------------|
| ① Tank pressure gauge(s). | ⑪ Oil filler cap. |
| ② Pressure switch unit. | ⑫ Air filter. |
| ③ On/Off pressure switch button. | ⑬ Pump unit. |
| ④ Motor. | ⑭ Drain cock (condensate). |
| ⑤ Reservoir inspection plug. | ⑮ Pressure regulator. |
| ⑥ Pulley guard. | ⑯ Handle. |
| ⑦ Reservoir tank. | ⑰ Rubber feet. |
| ⑧ Air line coupling(s). | ⑱ Wheels. |
| ⑨ Overload protection reset switch. | ⑲ Safety valve. |
| ⑩ Drain plug (oil). | |

7. UNPACKING AND CHECKING

7.1 PACKAGING

Carefully remove the product from the packaging and examine it for any sign of damage that may have happened during shipping. Lay the contents out and check them against the parts shown below. If any part is damaged or missing, please contact the Draper Help Line (the telephone number appears on the Title page) and do not attempt to use the product.

The packaging material should be retained at least during the warranty period, in case the machine needs to be returned for repair.

Warning!

- Some of the packaging materials used may be harmful to children. Do not leave any of these materials in the reach of children.
- If any of the packaging is to be thrown away, make sure they are disposed of correctly, according to local regulations.

7.2 WHAT'S IN THE BOX

As well as the main product, there are several parts not fitted or attached to it.



- (11) Oil filler cap.
- (17) 2 x rubber feet.
- (17.1) Rubber foot fixings.
- (18) 2 x wheels.
- (18.1) Wheel fixings.

Note: For details of our full range of accessories and consumables, please visit drapertools.com

8. PREPARING THE COMPRESSOR

Note: Remove the plug from the socket before carrying out adjustment, servicing or maintenance. It is extremely important to install the compressor in a clean, well ventilated area where the surrounding air temperature will not be more than 40°C. A minimum clearance of 500mm between the compressor and a wall is required.

8.1 FITTING THE WHEELS – FIG. 1

Pass the bolt through the wheel (18) and then place on the first washer, then the spacer. Fit the wheel through the wheel bracket on the underside of the compressor's frame then fit the second washer before finally securing with the nut.

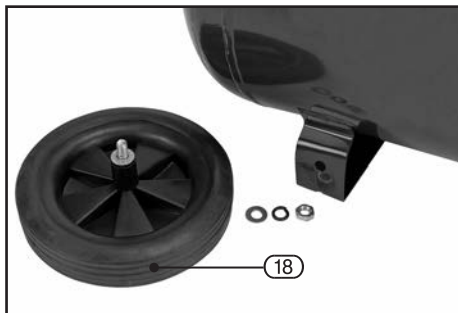


FIG.1

8.2 FITTING THE ANTI-VIBRATION RUBBER FEET – FIG. 2

Pass the bolt through the rubber foot (17) and place on the first washer. Pass the bolt through the foot bracket on the bottom of the tank then fit the second washer before securing with the nut.

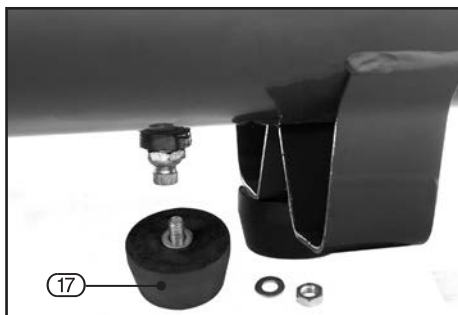


FIG.2

8.3 ASSEMBLING THE HANDLE – FIG. 3

To assemble the handle to the compressor, loosen the screws in each of the handle fixing tubes using a hex. key (not supplied).

Insert the two ends of the handle into the fixing tube and secure in place by tightening the screws with the hex. key.



FIG.3

8.4 FITTING THE AIR FILTER – FIG. 4

To fit the air filter module (12), slot the module into the inlet located on the pump unit housing and fasten in place with the securing nut.

The air filter element is located inside the module and can be accessed for replacement by removing the cover.

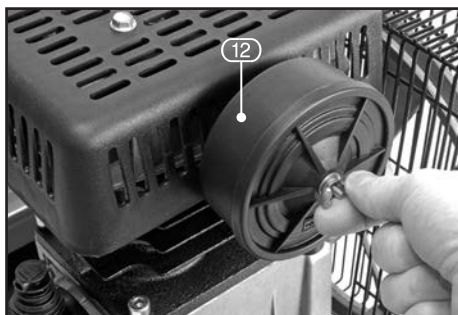


FIG.4

8. PREPARING THE COMPRESSOR

8.5 FILLING WITH OIL – FIGS. 5 - 6

WARNING! This air compressor must be filled with oil before first use.

Remove the oil filler cap (11) located on the top of the crank case of the compressor housing.

Fill the crank case with the recommended oil until the oil level seen in the oil level glass (11.1) is up to the mid point of the red circle.

Replace the oil filling cap ensuring the cap is fully fitted and firmly in position.

Never use an alternative oil filling cap, as this is also the crank case breather.

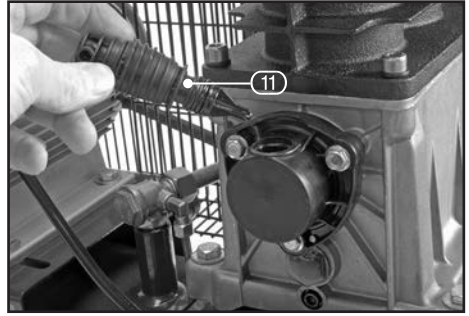


FIG.5

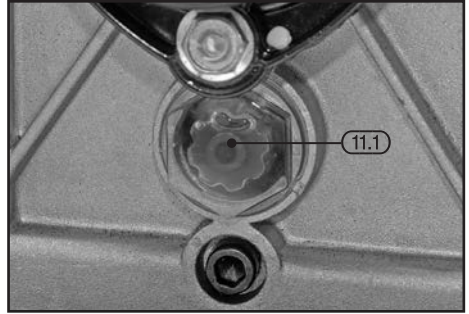


FIG.6

8.6 FINAL CHECKS BEFORE USE

In addition to pneumatic air tools, your compressor may be connected to several accessories suitable for blowing, washing and spraying.

For technical specifications and detailed instructions, please refer to the instructions provided for the individual accessory.

When the installation procedure is complete, the compressor is ready for use. Make sure the pressure switch button (3) is positioned “OFF”.

Switch the pressure switch button to the “ON” position to start the compressor.

9. OPERATION

9.1 BASIC COMPRESSOR OPERATION – FIGS. 7 - 9

- Ensure that the location for the compressor is clean, dry and well ventilated.
- Ensure the crank case has been filled with oil and is at the correct level.
- Check the rating label on the compressor.
- Connect the compressor power cable to a suitable electrical output point.

Note: Use of an extension cord is NOT recommended.

- The compressor is switched on by lifting the on/off button (3) on top of the pressure unit.
- The compressor is switched off by pressing the same on/off button down.

Note: This compressor is fitted with 2 pressure gauges and 2 outlets. Pressure gauge (1.1) displays the tank pressure and pressure gauge (1) displays the outlet pressure on the left connector only and is controlled by the regulator (15). The right connector is at tank pressure.

- Connect the air line to the compressor by pulling back the collar (8.1) on the air outlet quick coupling and inserting the corresponding air coupling fitted on the air line. Release the collar so it slides back in place to secure the air coupling.
- Turn the air regulator (15) clockwise to its lowest setting and turn on the compressor by lifting the pressure switch on/off button (3) upwards.
- To obtain the correct output reading on the regulated output gauge (1), the air must be flowing through the outlet. The regulating valve should be adjusted and the gauge read with the outlet valve open and the air being discharged from the regulated outlet.
- To increase the pressure, rotate the pressure regulator (15) clockwise. To decrease the pressure, rotate the pressure regulator anti-clockwise.

Note: If you do not allow the air to discharge while you are setting the regulator, the pressure as indicated on the regulated outlet gauge will be incorrect. This gauge ONLY indicates the correct pressure while air is being discharged from the outlet.

The operation is automatically controlled by the pressure switch unit (2) which stops the motor when the max. pressure allowed is achieved, and starts it again when the pressure goes below the minimum threshold (about 2 bar less than the max. pressure).

On completion of the task, or when leaving the machine unattended, always ensure you have turned the compressor off. This is done by depressing the on/off button and then switching off the power supply and unplugging.

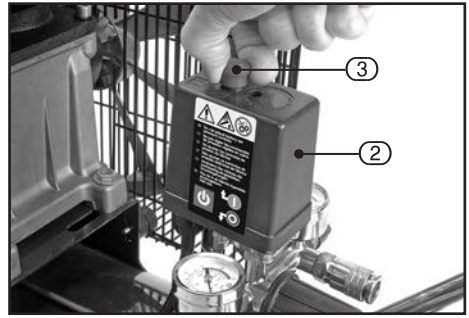


FIG.7

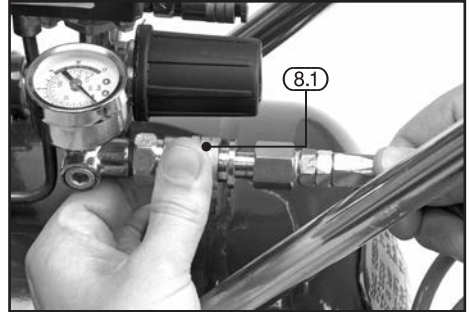


FIG.8

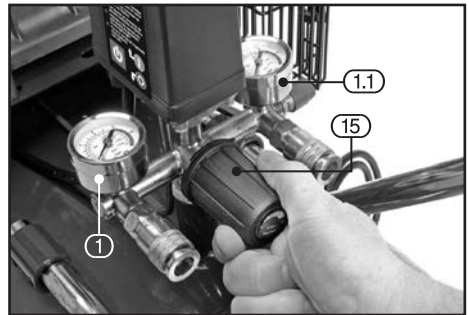


FIG.9

9. OPERATION

9.2 SAFETY VALVE

Warning! Do not remove or attempt to adjust the safety valve!

The valve has been factory set to operate automatically in the event of an excess air pressure malfunction.

9.3 ADJUSTING THE PRESSURE SWITCH – FIG. 10

Note: This is the only operation where it is acceptable to switch the compressor off without using the pressure switch.

To decrease the pressure switch, run the compressor up to the desired capacity for the pressure switch to be set. At this point, turn the mains power off and do not operate the red button on the pressure switch as this will release the pressure. Disconnect the machine from the power source before loosening screw to remove the black cover. With this removed, the adjustment bolt (2.1) will be visible. Adjust this anti-clockwise gently until the switch is heard to release the pressure. Release the cover and tighten the screw. The switch will now be set to the new pressure. To increase the pressure switch, remove the switch cover (having disconnected the machine from the power supply) and turn the adjustment bolt clockwise 3 turns and replace the switch cover.

Run the compressor up to the desired capacity for the pressure switch to be set (do not let the compressor run past it's maximum pressure). At this point turn the mains power off and disconnect from the supply. Remove the black cover and adjust bolt anti-clockwise gently until the switch is heard to release the pressure. Replace the cover and tighten the screw. The switch will now be set to the new pressure.

9.4 OVERLOAD CUT-OUT – FIG. 11

The compressor is equipped with an overload cut-out (9) which operates as a safety device to protect the motor. The device will activate in case of motor overload or overheating due to operation troubles. In this case, the safety device will automatically activate, disconnecting the compressor and avoiding possible motor damages. To restart the compressor, always allow three minutes after cutout before ensuring the pressure switch is in the off position. Manually reset the thermal cut-out and then position the pressure switch to the on position. If you restart the compressor and the overload cut-out releases again, turn the main switch to the OFF position, unplug the equipment and contact the Authorised Service Centre.

Note: After reconnection is complete, ensure that the tap is opened again. It is essential to connect an air line filter separator and lubricator to ensure a good, clean air supply is provided for the tool. (If the intended tool for use is a spray gun, use only a filter separator as lubrication will cause contamination of the material being sprayed).



FIG.10



FIG.11

9. OPERATION

9.5 MOISTURE IN COMPRESSED AIR

Moisture in compressed air will form into droplets as it comes from an air compressor pump. When humidity is high or when a compressor is in continuous use for an extended period of time, this moisture will collect in the tank. When using a paint spray gun or sandblast gun, this water will be carried from the tank through the hose, and out of the gun as droplets mixed with the spray material.

Important: This condensation will cause water spots in a paint job, especially when spraying other than water based paints. If sandblasting, it will cause the sand to case and clog the gun rendering it ineffective. A filter in the air line, located as near to the gun as possible, will help eliminate this moisture.

9.6 STORAGE

- When not in use, store hose and compressor in a cool dry place.
- Drain tank of moisture.
- Disconnect hose and hang open ends down to allow any moisture to drain.

10. MAINTENANCE AND TROUBLESHOOTING

10.1 TROUBLESHOOTING GUIDE

Problem	Possible Cause	Remedy
Compressor will not run.	1. No electrical power.	1. Plugged in? Check fuse/ breaker or motor overload.
	2. Blown fuse.	2. Replace blown fuse.
	3. Breaker open.	3. Reset, determine cause of problem.
	4. Thermal overload open.	4. Motor will restart when cool.
	5. Pressure switch fault.	5. Replace.
Motor operating, but cannot run or runs slowly.	1. Defective check valve or unloaded.	1. Replace or repair.
	2. Poor contacts, line voltage low.	2. Check connections, eliminate extension cord if used, check circuit with voltmeter.
	3. Shortened or open motor winding.	3. Replace motor. Danger! Do not disassemble check valve with air in tank – bleed tank.
Fuses blow/circuit breaker trips repeatedly. Caution! Never use an extension cord with this product.	1. Incorrect size fuse, circuit overloaded.	1. Check for proper fuse, use time-delay fuse. Disconnect other electrical appliances from circuit or operate compressor on its own branch circuit. Disconnect other electrical appliances from circuit or operate compressor on its own branch circuit.
	2. Defective check valve or unloaded.	2. Replace or repair. Danger! Do not disassemble check valve with air in tank – bleed tank.
Excessive oil consumption.	1. Oil level too high.	1. Keep the level within the set range.
	2. Breather pipe blockage.	2. Check and clean.
	3. Piston ring and cylinder worn or damaged.	3. Repair or replace.

10. MAINTENANCE AND TROUBLESHOOTING

Thermal overload protector cuts out repeatedly.	1. Low voltage.	1. Eliminate extension cord, check with voltmeter.
	2. Clogged air filter.	2. Clean filter (see maintenance section).
	3. Lack of proper ventilation/ room temperature too high.	3. Move compressor to well ventilated area.
	4. Check valve malfunction.	4. Replace.
	5. Compressor valves failed.	5. Replace valve assembly. Danger! Do not disassemble check valve with air in tank – bleed tank.
Knocks, rattles, excessive vibration.	1. Loose bolts, tank not level.	1. Tighten bolts, shim tank to level position.
	2. Defective bearing on eccentric or motor shaft.	2. Replace.
	3. Cylinder or piston ring is worn or scored.	3. Replace or repair as necessary.
Tank pressure drops when compressor shuts off.	1. Loose drain cock.	1. Tighten.
	2. Check valve leaking.	2. Disassemble check valve assembly clean or replace.
	3. Loose connections at pressure switch or regulator.	3. Check all connections with soap and water solution and tighten.
Compressor runs continuously and air output is lower than normal/low discharge pressure.	1. Excessive air usage, compressor too small.	1. Decrease usage or purchase unit with higher air delivery (SCFM).
	2. Clogged intake filter.	2. Clean or replace.
	3. Air leaks in piping (on machine or in outside system).	3. Replace leaking components or tighten as necessary.
	4. Broken inlet valves.	4. Replace compressor valves.
	5. Piston ring worn.	5. Replace piston and cylinder.

10. MAINTENANCE AND TROUBLESHOOTING

Excessive moisture in discharge air.	1. Excessive water in tank.	1. Drain tank.
Compressor runs continuously and safety valve opens as pressure rises.	1. Defective pressure switch.	1. Replace switch.
	2. Defective safety valve.	2. Replace safety valve with genuine replacement part.
Excessive starting and stopping (auto start).	Excessive condensation in tank	Drain more often.
Air leaking from unloader on pressure switch.	Check valve stuck in an open position.	Remove and replace check valve. Danger! Do not disassemble check valve with air in tank – bleed tank.
Sticking of main compressor.	1. Damaged due to insufficient oil lubrication.	Check crankshaft, bearing, connecting rod, piston, piston ring, etc and replace if necessary.
	2. Moving parts damaged, or stuck by foreign body.	

10.2 BASIC MAINTENANCE AND CHECKS – FIG. 12

Note: Remove the plug from the socket before carrying out adjustment, servicing or maintenance. In order to maintain the compressor to its optimum, periodical service checks must be carried out routinely. Allowances should be made to adjust the time scale for machines in occasional service with the exception of the safety valve which must be inspected by a qualified service agent every 12 months regardless of use.

Note: Where necessary, ear defenders and safety goggles must be worn.

Daily checks:

- Before every use check the airline/regulator/separator.
- After every use adjust the line pressure back to zero.

Monthly checks:

- Remove the cover of the air filter element to access the interior element (12.1) for cleaning or renew if necessary.

The cleaning/replacement of the air filter must be carried out more frequently if the compressor is operating in a dusty environment.

The motor must be correctly ventilated during operation. For this reason avoid blocking the air inlets. After use disconnect the compressor from the power supply and vacuum the ventilation slots.

If replacement of the supply cord becomes necessary, this will need to be completed by the manufacturer or an appointed agent in order to avoid potential safety hazards.

Warning! Never attempt to run the compressor without the filter element fitted as dust or foreign bodies can enter the pump unit resulting in serious damage.

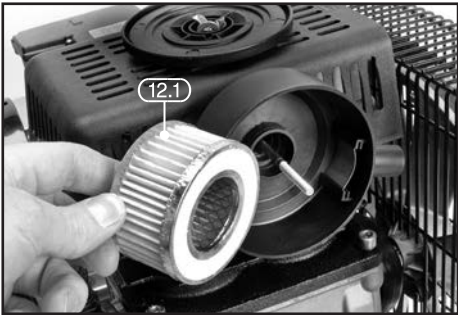


FIG.12

10. MAINTENANCE AND TROUBLESHOOTING

10.3 GENERAL MAINTENANCE AND SERVICE INTERVALS – FIGS. 13 - 16

After the first 50 working hours and continued weekly:

- Check that all screws and bolts are properly tight, paying special care to the head and crank case.
- Check the oil level (11) and replenish if necessary.
- Drain condensation from the tank by opening valve (14).

Every 6 months:

- Clean crankcase, air filter (12) and check safety valve and pressure gauge after.
- Renew the oil. To do so pull out the oil filler cap and loosen the screw (11.1). Collect the oil into a suitable container.
- Check belt tension. To do so hang a weight of about 3kg at the midpoint of the belt. It should flex about 10mm. If necessary tension up the belt taking care not to disturb the pulley-to-flywheel alignment.

Every 2 years:

- Check the non-return valve and if necessary replace the seal. Check intake and delivery valves in valve plates.



FIG.13

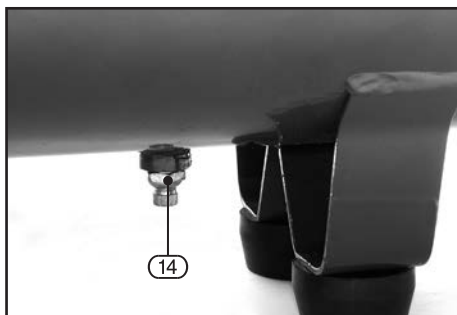


FIG.14



FIG.15

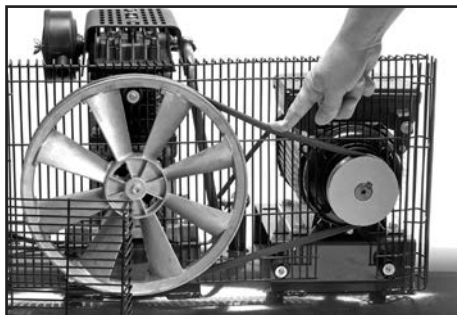


FIG.16

11. EXPLANATION OF SYMBOLS

11.1 EXPLANATION OF SYMBOLS

	Read the instruction manual.		Remove from packaging.		Tank air capacity
	Wear face mask and safety glasses.		ON/OFF switch.		Motor capacity (Kilowatts).
	Wear ear defenders.		Lift button to switch on.		Motor capacity (Horse power).
	Wear protective gloves.		Press button to switch off.		Max. motor speed (Revolutions per minute).
	Do not abandon into the environment.		Continuous A-Weighted Sound Pressure Level		
	Keep out of the reach of children.		Earthed.		
	Warning!		WEEE – Waste Electrical & Electronic Equipment.		
	Warning! Pressurised cylinder.		Do not dispose of Waste Electrical & Electronic Equipment in with domestic rubbish.		
	Do not connect to an electrical output socket.		Air displacement (cubic feet per minute).		
	Do not adjust factory set pressure settings.		Air displacement (Litres per minute).		
	Mandatory action required.		Max. pressure (psi).		
	Drain moisture from tank.		Max. pressure (bar).		

12. DISPOSAL

12.1 DISPOSAL

- At the end of the machine's working life, or when it can no longer be repaired, ensure that it is disposed of according to national regulations.
- Contact your local authority for details of collection schemes in your area.

In all circumstances:

- Do not dispose of power tools with domestic waste.
- Do not incinerate.
- Do not dispose of WEEE* as unsorted municipal waste.



* *Waste Electrical & Electronic Equipment.*

NOTES

CONTACTS

Draper Tools Limited, Hursley Road,
Chandler's Ford, Eastleigh, Hampshire. SO53 1YF. U.K.

Help Line: (023) 8049 4344

Sales Desk: (023) 8049 4333

Internet: drapertools.com

E-mail: sales@drapertools.com

General Enquiries: (023) 8026 6355

Service/Warranty Repair Agent:

For aftersales servicing or warranty repairs, please contact the Draper Tools Help Line for details of an agent in your local area.

YOUR DRAPER STOCKIST

TACM0920

©Published by Draper Tools Limited.

No part of this publication may be reproduced, stored in a retrieval system or transmitted in any form or by any means, electronic, mechanical photocopying, recording or otherwise without prior permission in writing from Draper Tools Ltd.