

DRAPER

EN
Version 2
January 2025

230V DIRECT DRIVE
**OIL FREE
COMPRESSOR**

24978



**UK
CA** **CE**

1. Preface

These are the original product instructions. This document is part of the product; retain it for the life of the product, passing it on to subsequent holders. Read this manual in full before attempting to assemble, operate or maintain this product.

This Draper Tools manual describes the purpose of the product and contains all the necessary information to ensure its correct and safe use. Following all the instructions and guidance in this manual will ensure the safety of both the product and the operator and increase the lifespan of the product.

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

Every effort has been made to ensure the information contained in this manual is accurate. However, Draper Tools reserves the right to amend this document without prior warning. Always use the latest version of the product manual.

1.1 Product Reference

User Manual for: 230V Direct Drive Oil Free Compressor

Stock No: 24978

Part No: DA25/169

1.2 Revisions

Version 1: August 2020

First release

Version 2: January 2025

As our manuals are continually updated, always ensure that the latest version is used.

Please visit drapertools.com/manuals for the latest version of this manual and the associated parts list, if applicable.

1.3 Understanding the Safety Content of This Manual



WARNING! – Situations or actions that may result in personal injury or death.



CAUTION! – Situations or actions that may result in damage to the product or surroundings.

Important: – Information or instructions of particular importance.

1.4 Copyright © Notice

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In all cases, this copyright notice must remain intact.

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3. Product Introduction

3.1 Intended Use

This product is an air compressor capable of supplying compressed air up to a maximum pressure of 8bar. The compressor may be used to operate air tools for applications such as blowing, spraying and inflating tyres.

Any other application beyond the conditions established for use will be considered misuse. Draper Tools accepts no responsibility for improper use of this product.

Important: This product is suitable for pressurising air **ONLY** and must **NOT** be used to pressurise any other gas. This product is not suitable for industrial use.


Read this manual in full before attempting to assemble, operate or maintain the product, and retain it for later use.

3.2 Specification

Stock No.	24978
Part No.	DA25/169
Rated Voltage/Frequency	230V/50Hz
Motor	
Speed (no-load)	2850rpm
Rated Input	1100W (1.5HP)
Maximum Pressure	8bars (16psi)
Air Displacement	169L/min (6.0cfm)
Free Air Delivery	98L/min (3.46cfm)
Tank Size	24L
Noise emissions	
Sound pressure level (LpA)	71.5dB (A)
Sound power level LWA)	93dB (A)
Dimensions	575 X 250 X 560mm
Net weight	23kg

Important: Read all the Health and Safety instructions before attempting to operate, maintain or repair this product. Failure to follow these instructions may result in injury or damage to the user, the product or any attached items or tools.

Read this manual in conjunction with the manufacturer's instructions for any tools or materials used with this product.

 **WARNING! NEVER** exceed the maximum pressure of any tool or inflatable item connected to this compressor.


4.1 General Health and Safety Precautions

Personal Safety and Responsibility

- Only authorised personnel who have carefully read and understood this manual may operate, adjust and maintain this product.
- Observe all standard safety precautions and good practices when working with air tools and compressed air.
- Always wear adequate eye and ear protection when using this product.
- Wear protective gloves while using this product.
- Keep the product out of reach of children.
- Use the product only in the manner instructed in this manual.
- Stay alert at all times; **DO NOT** use this product while tired or under the influence of alcohol, drugs or other medication.
- Keep fingers and other body parts away from moving parts during operation.
- Keep long hair tied back and remove any loose-fitting clothes or jewellery to prevent them from becoming caught in moving parts during use.

Inspection


- Before every use, inspect the compressor for missing, broken, loose or corroded parts and leaks.
- **Important: DO NOT** use this product if it is damaged or leaking in any way. Contact Draper Tools to discuss repair and replacement options.

 **WARNING! The reservoir tank walls MUST have a minimum thickness of 1.0 - 2.0mm. Corrosion may reduce the thickness of the tank walls and compromise the structural integrity of the reservoir, which may result in injury while the tank is under load.**

- **DO NOT** use this machine if the on/off switch or safety valve does not function correctly.
- **DO NOT** use this product if either of the gauges are unresponsive or inaccurate.
- Ensure that all connections are securely fastened and airtight before use.
- **ALWAYS** ensure that the motor air vents are clear and free from dust and debris during use.
- **DO NOT** use this product if the ratings plate or safety markings have become illegible.

Hazard Prevention

- **DO NOT** disassemble or modify this product in any way.
- **DO NOT** remove or adjust the safety valve (6).
- **DO NOT** adjust the factory set pressure control.
- **DO NOT** cover any part of this product during operation.
- **NEVER** immerse this product in water or expose it to damp conditions or frost.
- **DO NOT** move the compressor while it is switched on or fully pressurised.
- **NEVER** leave this product unattended while it is pressurising, pressurised or in use.
- **ONLY** use spare parts supplied by Draper Tools.

 **WARNING! Parts of this product may become hot during use. DO NOT touch the motor housing or compressor tank during use. Allow the product to cool before adjusting, moving or maintaining the product.**

Operation and Storage Conditions

- Keep your work environment clear and well-lit, with bystanders at a safe distance.
- Use this product **ONLY** in well-ventilated environments.
- **ALWAYS** use, store and transport this product in an upright position on a firm and flat surface and take precautions to prevent the product from tipping over. Take care during transportation to not cause damage to the gauges and air lines.

 **WARNING! ALWAYS depressurise the tank after use; DO NOT store the compressor with a pressurised tank.**

4. Health and Safety Information


4.2 Additional Safety Instructions for this Air Compressor

Important: ALWAYS check local regulations regarding pressure vessels before use.

 **WARNING! The air produced by this product is NOT suitable for breathing equipment.**

Training and Correct Use

- This product is not intended for use by persons (including children) with reduced physical, sensory or mental capabilities, or lack of experience and knowledge. Children should be supervised to ensure that they do not play with the product.
- **NEVER** sit, stand or ride on this product.
- This product is designed to accommodate a permanent load from internal pressure; it is **NOT** suitable for continuous cyclical use.
- **DO NOT** leave this product unattended while it is in use. **DO NOT** use this product with a programmer, timer, separate remote-control system or any other device that switches the product on automatically, or on any circuit that is regularly switched on and off by the utility, as it may pose a hazard if it is switched on unattended.
- **DO NOT** use this product to supply air tools that require greater air flow than this compressor can provide.
- Drain the condensation from the tank at least every 7 days.

 **CAUTION! DO NOT allow the compressor motor to activate more than five times in any given hour as they will overheat the components and may cause significant damage to the product.**

Environmental Safety and Installation

- Use this product **ONLY** in well-ventilated environments where no air pollutants, dust, acids, or flammable, explosive or toxic vapours are present.
- **DO NOT** use this product in areas with high ambient temperatures (above 40°C) or in the vicinity of sparks, open flames or sources of ignition.
- A minimum clearance of 500mm between the compressor and a wall is required.
- **NEVER** use this compressor in an elevated location from which it may fall or tip over.

Working with Compressed Air

- Compressed air can cause severe injury.
 - **ALWAYS** turn off and disconnect the air supply before making any adjustments to the attached tools.
 - **NEVER** direct compressed air towards yourself or others.
 - Ensure that compressed air is not blocked by or in contact with any part of your body.
- The use of a whip hose between connected tools and the air supply is recommended to reduce vibration.

 **CAUTION! Whipping hoses can cause severe injury. Always check for and replace damaged or loose hoses and fittings.**

- Ensure that any connected tool is compatible with the air supply before use.
 - **ALWAYS** ensure that the air flow is shut off when connecting or disconnecting an air line or tool. Pressurise the compressor tank before connecting an air line or tool and set the regulator to its minimum setting.
 - **DO NOT** depress the tool trigger or open the air line while connecting to the compressor.
- Ensure all connections are securely tightened.
- **DO NOT** exceed the maximum stated air pressure of this compressor or any connected tools. The pressure of the air supply **MUST NOT** exceed more than 10% of the rated pressure of any connected tool.

Maintenance

- **NEVER** carry the compressor or any connected tool by the air line.
- **DO NOT** use this product if you suspect that the integrity of the compressor tank has been compromised.
 - **NEVER** strike or pierce the compressor tank or expose it to flames sources or sources of heat.
 - **NEVER** weld anything to or drill holes in the compressor tank.
- Drain the compressor tank of moisture before and after **EVERY** use and before storing the product.
- Have the safety valve replaced every 12 months by an authorised service agent.

- Maintain the product correctly to help to prevent malfunction and deliver a longer lifespan for the product.



WARNING! DO NOT use this product if the safety valve or gauges are damaged in any way. The tank pressure must be monitorable and able to self-vent in the event of over-pressurisation.

4.3 Connection to the Power Supply

This appliance is supplied with an approved plug and cord 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 BS 1363/A and ASTA or BS Kite marked.

ASTA 

BSI 

Replacement of the fuse should only be performed by suitably qualified personnel.

If the power supply cord is damaged, it must be replaced by Draper Tools, an authorised service agent or similarly qualified personnel in order to avoid a hazard.

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

This product 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.



CAUTION! NEVER used this product with an 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.

4.4 Residual Risk

The safety instructions in this manual cannot account for all possible conditions and situations that may occur. Exercise common sense and caution when using this product and protect against any additional conceivable risks.

5. Identification and Unpacking

5.1 Product Overview



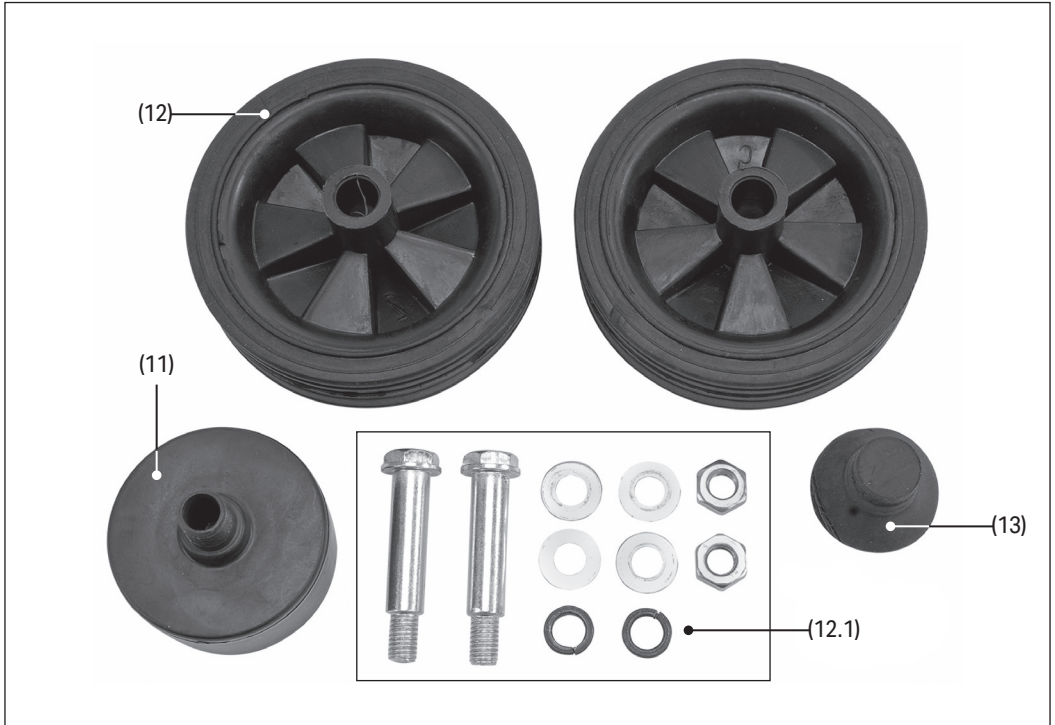
- (1) Motor
- (2) Transport handle
- (3) **ON/OFF** pressure switch button
- (4) Air regulator valve
- (5) Air outlet quick connector
- (6) Safety valve

- (7) Tank pressure gauge
- (8) Air outlet pressure gauge
- (9) Tank drain valve
- (10) Tank
- (11) Air filter
- (12) Wheels

5.2 What's in the Box?

Carefully remove the product from the packaging and examine it for any signs of damage that may have occurred during shipment.

Before assembling the product, lay the contents out and check them against the parts shown below. If any part is damaged or missing, do not attempt to use the product. Please contact the Draper Helpline; contact details can be found at the back of this manual.



(11) Air filter

(12) 2 x Wheels

(12.1) Wheel fittings

(13) Anti-vibration foot

5.3 Packaging

Keep the product packaging for the duration of the warranty period for reference should the product need to be returned for repair.

WARNING! Keep packaging materials out of reach of children. Dispose of packaging correctly and responsibly and in accordance with local regulations.

Please visit drapertools.com for our full range of accessories and consumables.

6. Preparation Instructions

Important: Before preparing or adjusting this product, read and understand all the safety instructions listed in this manual. Ensure that the product is disconnected from mains power before making any adjustment.

6.1 Assembly and Installation

Important: Ensure that all parts are installed and firmly secured before use. Some parts may be fitted prior to shipment.

Attaching the wheels

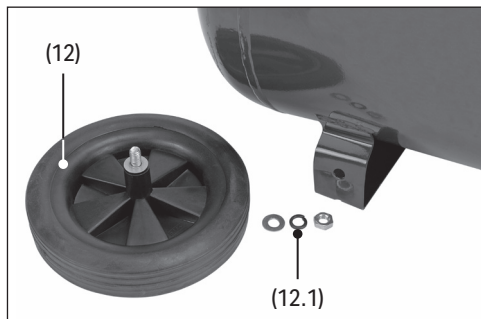


Fig. 1

1. Use the wheel fixings (12.1) supplied.
2. Pass the bolt through the wheel (12) and then add the first washer, then the spacer.
3. Fit the wheel through the wheel bracket on the underside of the compressor's frame.
4. Then fit the second washer and secure with the nut. Repeat on the second wheel.

Attaching the Anti-Vibration Foot



Fig. 2

- Insert the rubber foot (13) into the holder located on the underside of the tank.

Fitting the Air Filter

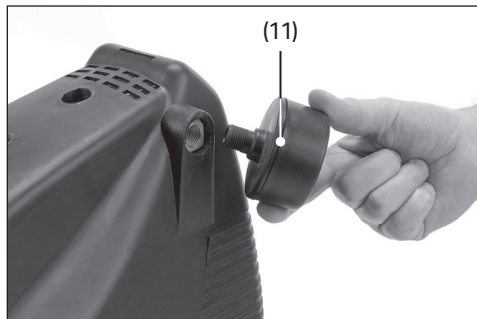


Fig. 3

1. Remove the transport bung from the air filter inlet.
2. Screw the air filter (11) into the opening.

Location

- Position the compressor in a well-ventilated location that offers protection from environmental forces and on a firm and level surface.
- Allow at least 500mm between the motor (1) and any walls or obstructions to ensure that the flow of air into the machine is not restricted.
- If the surface is sloped, ensure that the compressor will not move during operation and secure the wheels in place if necessary.

Important: Before operating this product, read and understand all the safety instructions listed in this manual. Ensure that the product is fully assembled and correctly prepared for use.

7.1 Initial Start Up

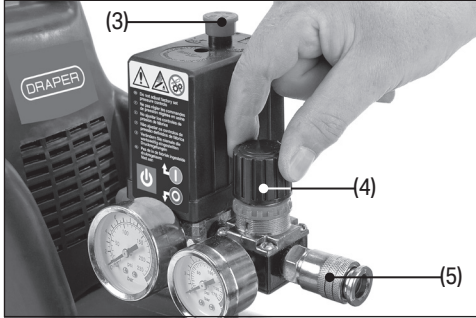


Fig. 4

Important: Before connecting the compressor to the power supply ensure the pressure switch button (3) is push down into the 'OFF' position.

1. Insert a Euro connector into the air outlet connector (5) and open the air regulator (4) fully.
2. Turn the compressor on by pulling the pressure switch button (3) up to the 'ON' position.
3. Run the compressor for 30 minutes allowing the pressure to escape.
4. Turn the air regulator valve (4) fully anti-clockwise to allow the pressure to build up.
 - Once the maximum pressure is reached the pressure switch will automatically turn the compressor off.
5. Turn the compressor off and open the regulator valve to allow the air to escape.

7.2 Basic Operation

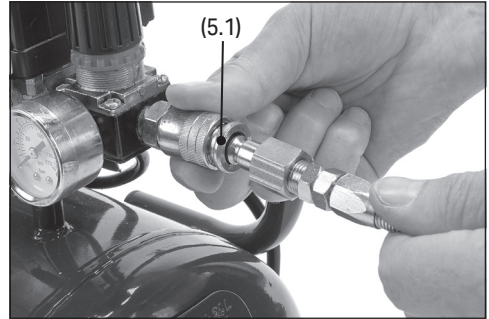


Fig. 5

1. Connect the air line to the compressor by pulling back the collar (5.1) on the air line coupling (5) and insert the air line coupling.
2. Release the collar and check that the air coupling is secure.
3. Turn the air regulator valve (4) clockwise to the lowest setting and pull the pressure switch button (3) up to the 'ON' position.
4. Once the compressor has reached the maximum pressure, open the regulator valve (4) to the required pressure shown on the air outlet pressure gauge (8).
 - After every use adjust the air line pressure back to zero.

7. Operating Instructions

7.3 Draining Moisture from the Tank

- Over time, compressed air will create moisture within the tank. This moisture can mix with the air supply and may cause significant corrosion to connected air tools or to the tank itself. To prevent this, the tank should be drained before and after **EVERY** use.

⚠ WARNING! Keep hands and other body parts away from the drain valve (9) area while draining the moisture from the tank as it may be ejected with considerable force.

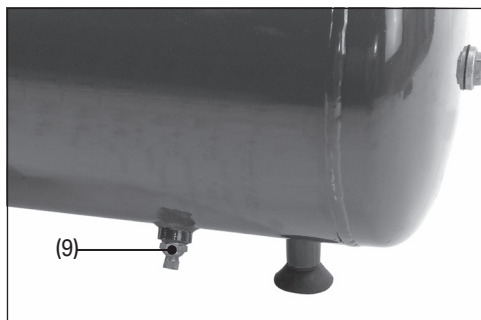


Fig. 6

1. Reduce the tank pressure to below 10psi.
2. Place a suitable container beneath the drain valve (9) at the bottom of the tank.
3. Open the drain valve (9) located at the bottom of the tank. Close the valve once the moisture has drained.

7.4 Thermal Overload Protection

⚠ CAUTION! This compressor is fitted with an automatic reset thermal overload protector which will shut off the motor if it overheats.

- If the thermal overload protector activates, turn off and unplug from the power supply.
- Allow to cool for at least 15 minutes before attempting to restart.

Important: The motor will automatically restart if the compressor is left on and plugged in.

- If the overload protector operates frequently, check for the following potential causes:
 - Low voltage.
 - Clogged air filter.
 - Insufficient ventilation.
- If the overload cut-out continues to activate or will not restart after having thoroughly cooled, switch off the compressor and have it serviced by an authorised agent: contact Draper Tools for support.

7.5 Safety Valve

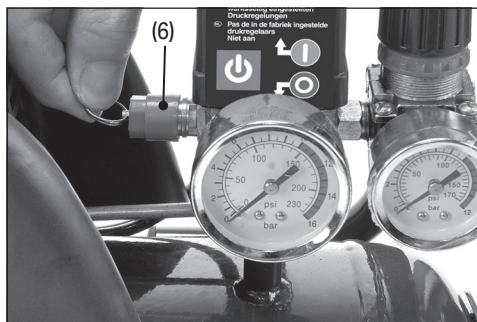


Fig. 7

Important: The safety valve (6) has been set at the factory to the value rated for this product. **NEVER** adjust the safety valve.

The safety valve automatically relieves pressure within the compressor tank if it exceeds the maximum rated pressure for this device. If the safety valve does not engage when the rated pressure is exceeded, the valve is faulty and **MUST** be replaced.

If the safety valve is activated during use, switch off the compressor and allow the pressure to return to an acceptable level. Check the compressor for blockages or damage before resuming. If the safety valve is activated frequently, contact Draper Tools for support.

Important: The safety valve **MUST** be replaced every 12 months, regardless of use, by an authorised service agent; contact Draper Tools for support.

Important: Maintenance and repairs should be carried out **ONLY** by authorised and suitably qualified personnel. **DO NOT** attempt to disassemble the product.

WARNING! ALWAYS ensure that the pressure switch is in the off position, the mains power supply has been disconnected and the air line pressure is at zero before performing any maintenance on this product.

8.1 General Maintenance

- Drain the compressor tank before and after **EVERY** use; see **7.3 Draining Moisture from the Tank**.
- Clean the product using a dry cloth **ONLY**. **NEVER USE** solvents or other aggressive substances to clean this product as they may damage plastic or insulated parts.
- Check for signs of corrosion or holes around the compressor tank before and after every use. If there is significant evidence of corrosion, have your product inspected by an authorised service engineer; contact Draper Tools for support.

WARNING! **DO NOT** use the compressor if you suspect that the structural integrity of the tank has been compromised.

- Keep the motor vents and air outlet clear and free from dust and debris. Use a vacuum or compressed gas to clean around the vents and outlet.
- Keep the gauges and safety valve clean and free from debris.

8.2 Air Filter Care

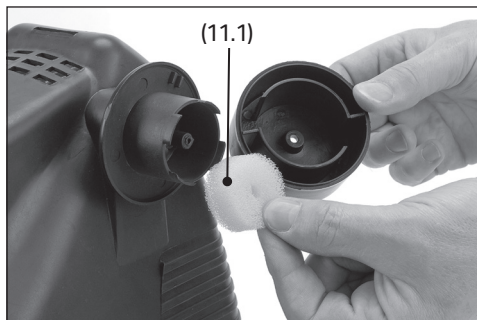


Fig. 8

- Remove the foam air filter (11.1) and clean or replace if necessary.
- Rinse the filter in warm soapy water. Ensure the filter is completely dry before refitting.
- Clean the filter more frequently if the compressor is used in a dusty environment.

WARNING! **NEVER** use petrol or solvents to clean the air filter elements as they may damage the filter or result in a fire when the machine is next used.

CAUTION! **NEVER** run the compressor without the air filter in place as this may cause the engine to degrade rapidly.

8.3 Storing the Compressor

- Drain moisture from the tank – see **7.3 Draining Moisture from the Tank**.
- Detach the air line or tool and hang the open end vertically downward to drain any residual moisture.
- Open the drain valve.
- Depressurise the tank and any other air tools before storing them.
- Store the product in a cool, clean and dry environment, out of direct sunlight and out of the reach of children.
- **DO NOT** store this product in environments exceeding 40°C.
- **ALWAYS** store and transport the product in its upright position.

8. Maintenance and Troubleshooting

8.4 Troubleshooting

Problem	Possible Cause	Remedy
Compressor will not run.	No power supply.	Check compressor connected to the power supply. Check plug fuse and replace if blown.
	Thermal overload protection activated.	Turn off and unplug – refer to section 7.4 Thermal Overload Protection. Allow to cool down for a least 15minutes before restarting.
	The compressor is switched off.	Pull up the pressure switch button (3) to the 'ON' position.
Motor operating but cannot run or runs slowly.	Valve fault/defective.	Replace or repair.
	Motor Faulty.	DANGER! DO NOT disassemble with air in the tank. Contact Draper Tools for advice.
	Poor contacts. Low voltage.	Check connections and circuit.
Fuse blown/ circuit breaker trip repeatedly.	Incorrect fuse size fitted.	Check and replace with correct fuse.
	Circuit overloaded.	Check circuit not overloaded and disconnect other electrical appliances from circuit.
	Extension cord used.	NEVER use an extension cord with this compressor.
Thermal overload protector activates repeatedly.	Low voltage.	Check with voltmeter. NEVER use an extension cord with this compressor.
	Clogged air filter.	Clean filter – refer to section 8.2 Air Filter Care.
	Poor ventilation. Room temperature too high.	Move compressor to well ventilated area with temperature below 40°C. Allow at least 500mm between the motor (1) and any walls or obstructions to ensure that the flow of air into the machine is not restricted.
	Compressor valve/s malfunction/failure.	Replace valve assemble. Contact Draper Tools for advice.
Knocking, rattling or excessive vibrations.	Loose bolts. Tank not level.	Tighten bolts. Ensure tank is in a level position.
	Defective bearing on eccentric or motor shaft.	Replace or repair. Contact Draper Tools for advice.
	Cylinder or piston ring is worn or scored.	

Problem	Possible Cause	Remedy
Tank pressure drops when compressor turned off.	Loose drain valve.	Tighten/ close.
	Valve leaking.	Check valve assembly, clean or replace as necessary.
	Pressure switch or regulator loose connection.	Check all connections using a soapy water solution and tighten.
Compressor runs continuously and air input output is lower than normal/low discharge pressure.	Excessive air usage/ compressor too small.	Decrease usage.
	Clogged intake filter.	Clean or replace.
	Air leaks (on machine or in outside system).	Tighten or replace leaking components.
	Broken inlet valves.	Replace component.
	Piston ring worn.	Contact Draper Tools for advice.
Compressor runs continuously and safety valve opens as pressure rises.	Defective pressure switch or safety valve.	Replace part. Contact Draper Tools for advice.
Excessive moisture in discharged air.	Excessive water in tank.	Drain moisture from tank – refer to section 7.3.
Air leaking from unloader on pressure switch.	Check valve stuck in open position.	Replace or repair. DANGER! DO NOT disassemble with air in the tank. Contact Draper Tools for advice.

9. Spares, Returns and Disposal

For spare parts, servicing, and repair and replacement options, please contact the Draper Tools Product Helpline for details of your nearest authorised agent.

Draper Tools will endeavour to hold any spare parts, if applicable, for seven years from the date that it sells the final matching stock item.

Any servicing or repairs carried out by unauthorised personnel or installation of spare parts not supplied by Draper Tools will invalidate your warranty.

At the end of its working life, dispose of the product responsibly and in line with local regulations. Recycle where possible.

- **DO NOT** dispose of this product with domestic waste; most local authorities provide appropriate recycling facilities.
- **DO NOT** burn or pierce this product.



Draper Tools products are carefully tested and inspected before shipment and are guaranteed to be free from defective materials and workmanship.

Should the tool develop a fault, return the complete tool to your nearest distributor or contact Draper Tools directly. Contact information can be found at the back of this manual.

Proof of purchase must be provided.

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 covers parts and labour for 12 months from the date of purchase. Where tools have been hired out, the warranty period covers 90 days from the date of purchase.

This warranty does not apply to any consumable parts, batteries 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 Tools repair agent.

In all cases, to make a claim for faulty workmanship or materials within the standard warranty period, please contact or return the product to the place of purchase. Proof of purchase may be required.

If the place of purchase is no longer trading or if you experience any difficulties with your warranty, please contact Customer Services with the product details and your proof of purchase. Contact details can be found at the back of this manual.

If the tool is not covered by the terms of this warranty, repairs and carriage charges will be quoted and charged accordingly.

This warranty supersedes any other guarantees expressed or implied and variations of its terms are not authorised.

Your Draper Tools guarantee is not effective until you can produce, upon request, a dated receipt or invoice to verify your purchase within the guarantee period.

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

Draper Tools Limited

11. Explanation of Symbols



Read the instruction manual



Wear ear defenders and safety glasses



Wear protective gloves



Warning!



Tank size



Motor (rated input)



Motor (speed (no-load))



Motor



Air displacement



Air displacement



Maximum pressure



Maximum pressure



Net weight



Continuous A-weighted sound power level



Do not incinerate or throw onto fire



WEEE -

Waste Electrical & Electronic Equipment

Do not dispose of Waste Electrical & Electronic Equipment in with domestic rubbish



European conformity



UK Conformity Assessed

Contact Details

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Please contact the Draper Tools Product Helpline for repair and servicing enquiries.