

airmaster



200L BELT DRIVEN AIR COMPRESSOR

MODEL NO: AIRMASTER 18/200

PART NO: 2245311

OPERATION & MAINTENANCE INSTRUCTIONS



ORIGINAL INSTRUCTIONS

GC0721

INTRODUCTION

Thank you for purchasing this 200L Belt Driven Air Compressor.

Read this manual fully before use and follow the instructions carefully. In doing so you will ensure the safety of yourself and those around you, and you can look forward to your purchase 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 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.

ENVIRONMENTAL RECYCLING POLICY



Through purchase of this product, the customer is taking on the obligation to deal with the WEEE in accordance with the WEEE regulations in relation to the treatment, recycling & recovery and environmentally sound disposal of the WEEE.

In effect, this means that this product must not be disposed of with general household waste. It must be disposed of according to the laws governing Waste Electrical and Electronic Equipment (WEEE) at a recognised disposal facility.

SAFETY PRECAUTIONS

Before using your compressor it is in your own interest to read and pay attention to the following safety rules.

1. Compressed air is dangerous. **DO NOT** point a jet of air at persons or animals, and **DO NOT** discharge compressed air against the skin.
2. **DO NOT** operate your compressor with the guard removed.
3. Repairs must only be carried out by a qualified engineer. If problems occur, contact your dealer.
4. Before carrying out any maintenance make sure that the pressure is released from the air reservoir and that the compressor is disconnected from the electrical 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 compressor.
7. **DO NOT** operate in wet or damp conditions. Keep the compressor dry at all times. Similarly, clean air will allow the compressor to work efficiently. **DO NOT** use in dusty or otherwise dirty locations.
8. Some of the metal parts can become quite hot during operation. **DO NOT** touch/ remove these until the compressor has cooled down.
9. When spraying flammable materials e.g. cellulose paint, ensure that there is sufficient airflow and keep clear of any source of ignition.
10. Before spraying any material always consult paint manufacturers instructions for safety and usage.
11. Protect yourself. Goggles will protect your eyes from flying particles. Face masks will protect you against paint spray and fumes.
12. **DO NOT** apply strain to electrical cables and make sure that air hoses are not kinked or wrapped around the compressor.
13. When disconnecting air hoses or other equipment from your compressor, make sure that the air supply is turned off at the outlet and vent all pressurised air from within the reservoir and other equipment attached to it.
14. Make sure that children and animals are kept well away from the compressor and any equipment attached to it.
15. Make sure that all individuals using the compressor have had the necessary training and have read and fully understand these operating instructions.
16. Make sure that any equipment or tool used in conjunction with your compressor, has a safe working pressure exceeding that of the compressor.
17. Be careful when transporting the compressor to prevent tipping over
18. Permanently installed systems must be installed by a competent engineer.
19. These compressors produce noise levels in excess of 70dB(A). Persons working near the compressor must be supplied with ear protection.

SAFETY SYMBOLS

	Read this instruction booklet carefully before positioning, operating or adjusting the compressor.
	Risk of electric shock. The compressor must be disconnected from the mains supply before removing any covers. Do not use in a damp environment.
	Risk of accidental start-up. The compressor could start automatically in the event of a power cut and subsequent reset. Do not move the compressor while it is connected to the power source, or when the tank is filled with compressed air.
	This compressor contains surfaces which may reach a high temperature during operation. Never operate with the motor housing removed.
	Wear safety goggles when using this compressor
	Wear ear protectors when using this compressor
 L _{WA} 97 dB	This compressor produces a high sound level during operation. Ear protection should be worn.

ELECTRICAL CONNECTIONS



WARNING: READ THESE ELECTRICAL SAFETY INSTRUCTIONS THOROUGHLY BEFORE CONNECTING THE PRODUCT TO THE MAINS SUPPLY.

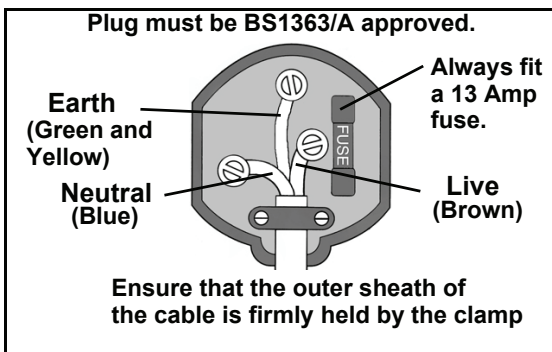
Connect the mains lead to a standard, 230 Volt (50Hz) electrical supply through an approved 13 amp BS 1363 plug, or a suitably fused isolator switch. If the plug has to be changed because it is not suitable for your socket, or because of damage, it must be removed and a replacement fitted, following the wiring instructions shown below. The old plug must be discarded safely, as insertion into a power socket could cause an electrical hazard.



**WARNING: THE WIRES IN THE POWER CABLE OF THIS PRODUCT ARE COLOURED IN ACCORDANCE WITH THE FOLLOWING CODE:
BLUE = NEUTRAL BROWN = LIVE YELLOW AND GREEN = EARTH**

If the colours of the wires in the power cable do not agree with the markings on the plug.

- The BLUE wire must be connected to the terminal which is marked N or coloured black.
- The BROWN wire must be connected to the terminal which is marked L or coloured red.
- The YELLOW AND GREEN wire must be connected to the terminal which is marked E or $\perp$ or coloured green.



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

If you are not sure, consult a qualified electrician. DO NOT try to do any repairs.

BEFORE USE



CAUTION: TO PREVENT INJURY, GET ASSISTANCE WHEN LIFTING OR MOVING THIS COMPRESSOR.

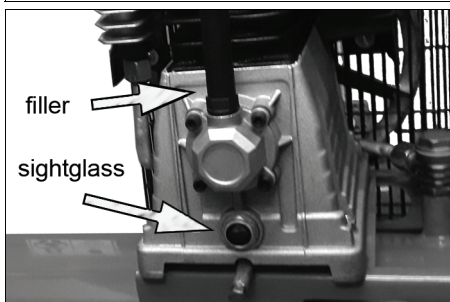
Before connecting your compressor to the power supply, check the following:-

- Set the ON/OFF switch to the OFF position (pushed down).
- Make sure that the compressor is on level ground.
- Make sure that the supply voltage matches the voltage shown on the data label.



CHECK THE OIL LEVEL

1. Ensure the oil level is filled up to the mark on the sightglass.
2. If low, top up after unscrewing the filler plug.
 - Only use ISO100 (SAE30) compressor oil, available from your MACHINE MART dealer Part No. 3050796.
 - Take care not to overfill.



OPERATION

If the compressor has not been used for more than 24 hours, open the drain valve (on the bottom of the reservoir) and drain any condensate which has collected. See page 10.

MOVING THE AIR COMPRESSOR

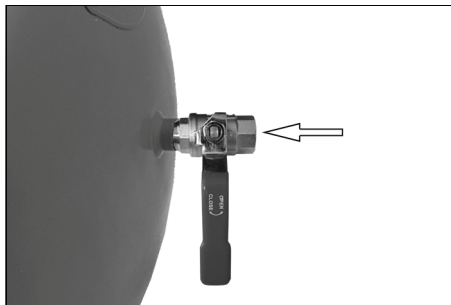
- Stop the compressor and disconnect it from the power supply before you move it.
- Do not lift by (or put strain on) valves or hoses.

ATTACHING AIR TOOLS



WARNING: BEFORE CONNECTING AIR TOOLS, MAKE SURE THAT YOU READ THE INSTRUCTIONS SUPPLIED WITH THE TOOL, ALSO ENSURE THAT THE TOOL IS SUITABLE FOR USE WITH THE COMPRESSOR AND HOSE SPECIFICATIONS.

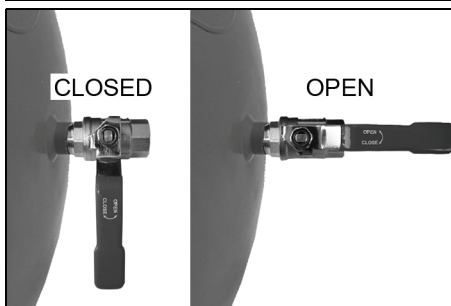
1. Attach the air hose to the outlet valves.
2. Attach the air tool to the other end of the air hose.



3. Turn the outlet valve handle to the open position.

NOTE: The outlet valve is shown without the air hose fitted for clarity.

NOTE: To adjust the output pressure we recommend that a pressure regulator (not supplied) be fitted between the compressor and the tool.



TURNING THE COMPRESSOR ON

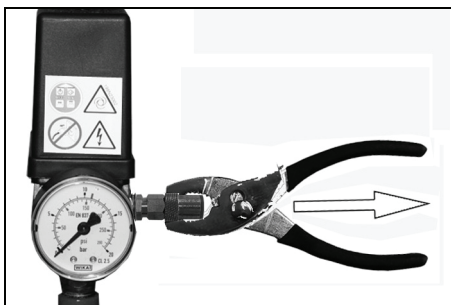
1. Plug the compressor into the power supply.
2. Lift the On/Off button.
 - The compressor will operate until the reservoir is fully pressurised. It will then shut down.
 - The compressor will start up again when the pressure in the reservoir decreases.



CHECKING THE SAFETY VALVE

To make sure that the safety valve works correctly.

1. Unscrew and pull the knurled part of the valve by gripping it with pliers as shown.
 - Air will be released when you pull hard on the valve end and stop when released.
2. If the valve does not operate in this way, do not use the compressor. The compressor must be repaired by a qualified service agent.



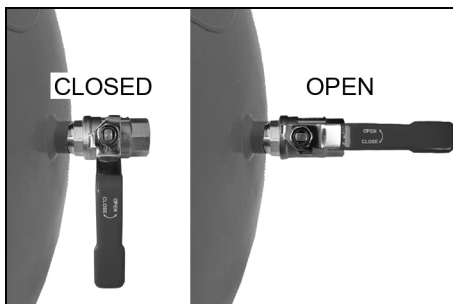
WARNING: DO NOT REMOVE OR TRY TO ADJUST THE SAFETY VALVE.

REMOVING TOOLS FROM THE AIR HOSE

1. Push down on the On/Off button to stop the compressor.



2. Turn the outlet valve handle to the closed position.
3. Operate the tool to depressurise the air hose.
4. Disconnect the tool from the hose.



TURNING THE COMPRESSOR OFF

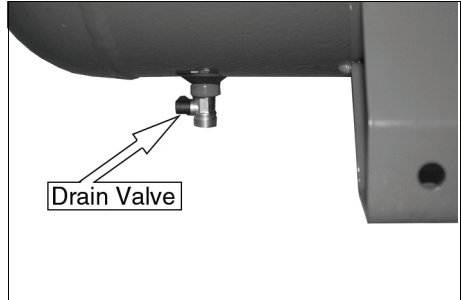
1. Follow steps 1-3 in "Removing Tools from the Air Hose" above.
2. Disconnect the compressor from the power supply.
3. Slowly open the outlet valve to depressurise the reservoir.
 - You will hear a hissing sound as the reservoir depressurises.
4. Do not leave the compressor unattended if the reservoir is pressurised.

DRAINING THE RESERVOIR



CAUTION: YOU MUST DRAIN THE RESERVOIR AFTER EACH DAYS USE AND BEFORE YOU PUT YOUR COMPRESSOR INTO STORAGE.

1. Turn the compressor off and disconnect from the power supply.
2. Put a container below the drain valve to collect the condensate.
3. Open the drain valve slowly.
 - Condensation will drain from the reservoir.
4. Close the drain valve when the reservoir has fully drained.



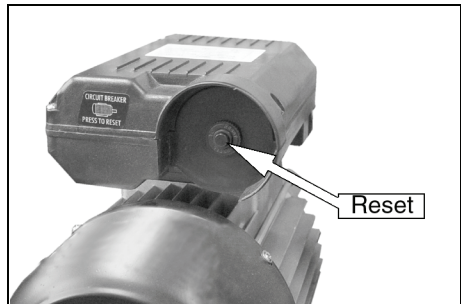
USING THE RESET BUTTON

This compressor has a thermal overload device.

If the motor gets too hot, the thermal overload device cuts the power which prevents damage to the motor.

If the thermal overload device operates, let the motor cool down for 5 minutes and push the reset button.

If you start the compressor and the overload cutout operates again, stop the compressor and disconnect from the power supply and have your compressor examined by a qualified service agent.



MAINTENANCE



WARNING: MAKE SURE THAT THE COMPRESSOR IS DISCONNECTED FROM THE ELECTRICAL SUPPLY BEFORE CARRYING OUT ANY MAINTENANCE

DRAINING THE RESERVOIR

After use, always open the drain valve to make sure that any condensate is drained off.

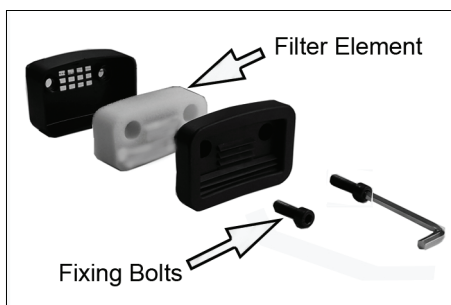
CHECKING THE OIL

Ensure the oil level is between the min and max marks on the dipstick. See "Check the Oil level" on page 6 and top-up if necessary - (use ISO100 (SAE30) compressor oil, available from your Machine Mart dealer).

CLEANING THE AIR FILTER

The air filter should be inspected monthly or more often in dusty conditions.

1. Remove the fixing bolts with a 7/32" hex key and pull the filter from the engine.
2. Remove the filter element and clean the filter using a soft brush.
 - If necessary, the filter can be carefully cleaned in warm soapy water.
 - Rinse and let the filter dry completely before refitting.
 - If the filter element is damaged it must be replaced.
3. Reassemble the filter and refit it to the compressor.

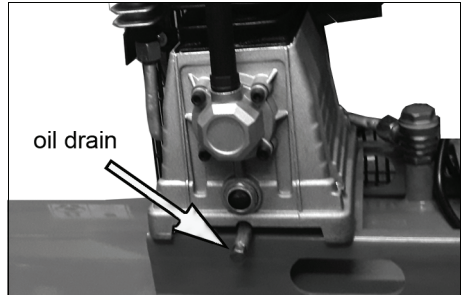


REPLACING THE OIL

After the first 100 hours use, replace the oil using SAE30 compressor oil. Then replace the oil after every 500 hours of operation or every 6 months.

To drain the oil, remove the oil drain plug from the crankcase.

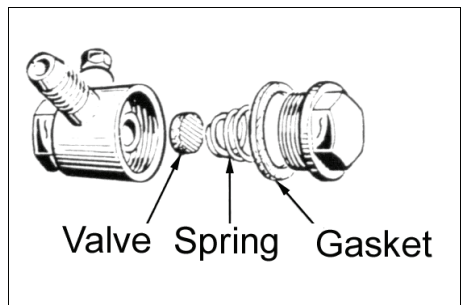
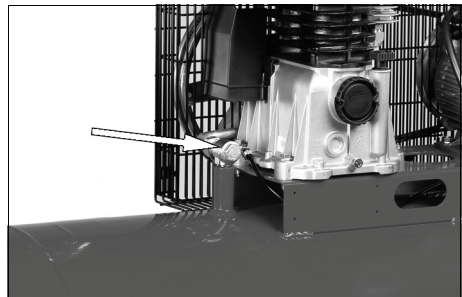
Refill until the oil is visible through the sightglass.



CHECKING THE NON-RETURN VALVE

If the reservoir pressure decreases for no apparent reason it is possible that the non-return valve is leaking. To check this:

1. Make sure that the reservoir is not under pressure and the compressor is switched OFF.
2. Examine the non-return valve and replace the gasket and valve if necessary.

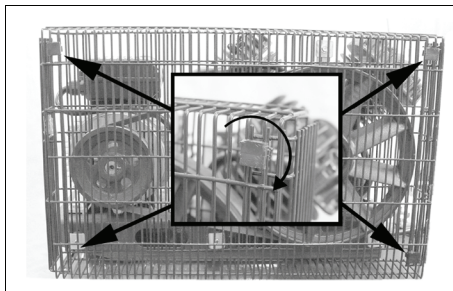


REPLACING THE DRIVE BELT

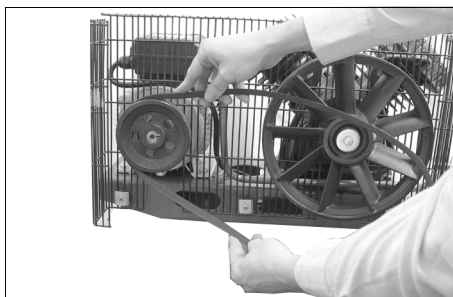


WARNING: MAKE SURE THAT THE COMPRESSOR IS DISCONNECTED FROM THE ELECTRICAL SUPPLY BEFORE REPLACING THE DRIVE BELT.

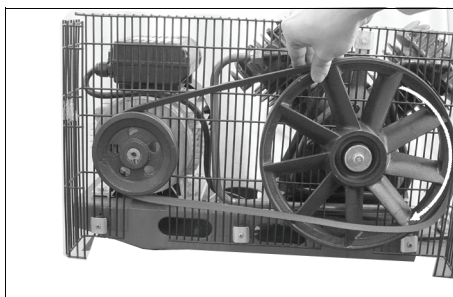
1. Rotate the clips on the front of the safety cage.
2. Remove the front of the cage and take out the worn or broken drive belt.



3. Place the new drive belt over the small pulley.



4. Position part of the drive belt over the large pulley as shown.
5. Rotate the large pulley by hand in a clockwise direction whilst guiding the belt on to it.
 - Take care to avoid trapping your fingers between the pulley and belt.
6. Replace the cage and secure before use.



WARNING: NEVER USE THE COMPRESSOR WITH THE GUARD REMOVED.

SPECIFICATIONS

MODEL	AIRMASTER 18/200
Part Number	2245311
Motor size	4 HP
Voltage	230 VAC (50Hz)
Air Displacement	504.8L/min (18 cfm)
Max Pressure	10 Bar (145psi)
Receiver Capacity	200 L
Ingress Protection	IP20
Fuse rating	13A
Duty cycle	S3/50%
Oil requirements	ISO100 (SAE30) compressor oil
Oil Capacity	0.4L
Dimensions (L x W x H)	1540 x 400 x 820 mm
Guaranteed Sound Power Level	97 dB(A)
Weight	102 kg

Please note that the details and specifications contained herein, are correct at the time of going to print. We reserve the right to change specifications at any time without prior notice.

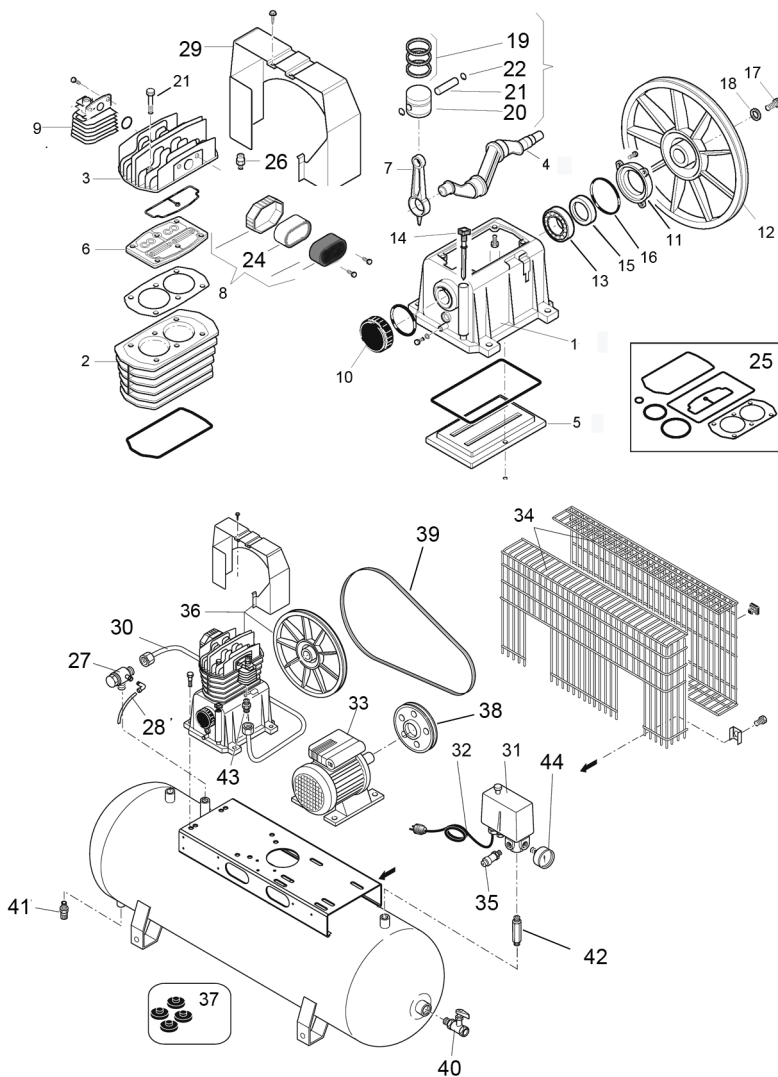
TROUBLESHOOTING



CAUTION: DO NOT TRY TO REPAIR OR ADJUST IF YOU ARE UNCERTAIN. IF YOU HAVE ANY QUERIES, CONTACT YOUR CLARKE DEALER.

PROBLEM	PROBABLE CAUSE	REMEDY
The compressor has stopped and does not start.	Bad electrical connections.	1. Check electrical connections. 2. Clean and tighten if necessary.
	Overload cutout switch has tripped.	1. Switch off and wait approx 5 minutes. 2. Press the reset button and switch on again.
	Motor windings burnt out.	1. Contact your Machine Mart dealer for a replacement motor.
The compressor does not reach the set pressure and overheats easily.	Compressor head gasket blown or valve broken.	1. Return the machine to your nearest Machine Mart dealer.
Compressor does not start.	The reservoir has already fully pressurised.	1. Open drain valve to expel air. Compressor should start again when pressure reduces.
Air leaking from the non-return valve when the compressor is not running.	Faulty non-return valve.	1. Drain receiver completely of air. 2. Remove the valve end plug. 3. Carefully clean the valve seat and the gasket 4. Reassemble.
Compressor is very noisy and makes metallic knocking sound.	Compressor is damaged and needs overhaul.	1. Return the machine to your nearest Machine Mart dealer.

COMPONENT PARTS



COMPONENT PARTS LIST

	DESCRIPTION
1	Crankcase
2	Cylinder block
3	Cylinder Head
4	Crankshaft
5	Lower Cover
6	Kit Valve Holder
7	Conrod
8	Air Filter Assembly (complete)
9	Air cooler
10	End Cover
11	Bearing Retainer
12	Flywheel
13	Bearing
14	Dipstick
15	Oil seal
16	O-ring
17	Bolt
18	Washer
19	Piston Ring Set
20	Piston
21	Gudgeon pin
22	Circlip
23	Piston Kit
24	Intake Air Filter
25	Gasket Set
26	Cold Start Valve
27	Non Return Valve
28	Rilsan Tube
29	Plastic Shroud
30	Delivery pipe
31	Pressure Switch

NO	DESCRIPTION
32	Power Cable
33	Motor
34	Belt Guard
35	Safety valve
36	Pump assembly
37	Feet set
38	Drive pulley
39	Drive Belt
40	Outlet Tap
41	Drain Valve
42	Upright Connector
43	Connector
44	Pressure Gauge

DECLARATION OF CONFORMITY-UK



Product Description:	200L Air compressor
Model number(s):	Airmaster 18/200
Serial / batch Number:	2245311
Date of Issue:	13/07/2021
<i>(Noise Conformity)</i>	
Notified Body:	TÜV SÜD Certification & Testing China Co, Ltd Shanghai ranch 3-13F No 151 Heng Tong Road Shanghai 200070 China
Technical Documentation Holder:	A.R. Pond Clarke International 2a Shrubland Road London, E10 7RB UK
Conformity Assessment Procedure:	to 2000/14/EC Annex VI
Manufacturer:	Clarke International
Noise Related Value:	3.0 kW
Measured Sound Power Level:	95 dB
Guaranteed Sound Power Level:	97 dB

DECLARATION OF CONFORMITY



We hereby declare that this product(s) complies with the following directive(s):

2014/30/EU *Electromagnetic Compatibility Directive.*
2006/42/EC *Machinery Directive.*
2011/65/EU *Restriction of Hazardous Substances (amended by (EU) 2015/863).*
2014/29/EU *Simple Pressure Vessel Directive.*
2000/14/EC *Noise Emissions Directive, (amended by 2005/88/EC).*

The following standards have been applied to the product(s):

*EN 61000-6-3:2007+A1:2011, EN 61000-6-11:2007, EN 60204-1:2006+A1:2009, EN 1012-1:2010,
EN 62321:2013, EN 62321-2:2014, EN 62321-3-1:2014, EN 62321-4:2014+A1:2017, EN 286-1,
EN ISO 3744:1995.*

The technical documentation required to demonstrate that the product(s) meet(s) the requirement(s) of the aforementioned directive(s) has been compiled and is available for inspection by the relevant enforcement authorities.

The CE mark was first applied in: 2021

Signed:

J.A. Clarke
Director

Machine Mart

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 kits, transmission jacks for all types of workshop use.

WATER PUMPS

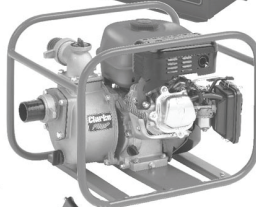
Submersible, electric and engine driven for DIY, agriculture and industry.

POWER TOOLS

Angle grinders, cordless 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: 0871 410 1270 SERVICE: 0871 410 1290