

SEALEY

50L OIL FREE BELT DRIVE COMPRESSOR 2HP

MODEL No: **SAC05020.V2**

Thank you for purchasing a Sealey product. Manufactured to a high standard, this product will, if used according to these instructions, and properly maintained, give you years of trouble free performance.

IMPORTANT: PLEASE READ THESE INSTRUCTIONS CAREFULLY. NOTE THE SAFE OPERATIONAL REQUIREMENTS, WARNINGS & CAUTIONS. USE THE PRODUCT CORRECTLY AND WITH CARE FOR THE PURPOSE FOR WHICH IT IS INTENDED. FAILURE TO DO SO MAY CAUSE DAMAGE AND/OR PERSONAL INJURY AND WILL INVALIDATE THE WARRANTY. KEEP THESE INSTRUCTIONS SAFE FOR FUTURE USE.



Refer to instructions



Wear eye protection



WARNING!
High Voltage



WARNING!
Hot surface



WARNING!
Automatic start up



Keep away from rain



DO NOT open the air cock before an air hose is attached

1. SAFETY

1.1. ELECTRICAL SAFETY

- WARNING!** It is the user's responsibility to check the following:
 - ✓ Check all electrical equipment and appliances to ensure that they are safe before using. Inspect power supply leads, plugs and all electrical connections for wear and damage. Sealey recommend that an RCD (Residual Current Device) is used with all electrical products.
 - Electrical safety information.** It is important that the following information is read and understood:
 - ✓ Ensure that the insulation on all cables and on the appliance is safe before connecting it to the power supply.
 - ✓ Regularly inspect power supply cables and plugs for wear or damage and check all connections to ensure that they are secure.
 - Important:** Ensure that the voltage rating on the appliance suits the power supply to be used and that the plug is fitted with the correct fuse.
 - ✗ **DO NOT** pull or carry the appliance by the power cable.
 - ✗ **DO NOT** pull the plug from the socket by the cable.
 - ✗ **DO NOT** use worn or damaged cables, plugs or connectors. Ensure that any faulty item is repaired or is replaced immediately by a qualified electrician.
- If the cable or plug is damaged during use, switch off the electricity supply and remove from use.
- Ensure that repairs are carried out by a qualified electrician.**

1.2. GENERAL SAFETY

- ✓ Familiarise yourself with the application and limitations of the compressor.
- ✓ Ensure the compressor is in good order and condition before use. If in any doubt do not use the unit and contact an electrician/service agent.
- WARNING! Compressor must only be serviced by an authorised agent. DO NOT tamper with, or attempt to adjust, pressure switch or safety valve.**
- ✓ Before moving, or maintaining the compressor, ensure it is unplugged from the mains supply, the regulator is fully opened and the air tank pressure has been vented.
- ✓ Only use recommended attachments and parts. To use unapproved items may be dangerous and will invalidate your warranty.
- ✓ Read the instructions regarding any accessory used with the compressor. Ensure the safe working pressure of any air appliance used exceeds unit's output pressure. If using spray gun, check that the area selected for spraying is provided with air change system/ventilation.
- ✓ Ensure the air supply valve is turned off before disconnecting the air supply hose.
- ✓ To move the compressor use the handle only.
- ✓ Use the compressor in a well ventilated area with a temperature above 5°C, and ensure it is placed on a firm, level surface.
- ✓ Keep tools and other items away from the compressor when it is in use, and keep area clean and clear of unnecessary items.
- ✓ Ensure any air hose attached is not tangled, twisted or pinched.
- ✓ Keep children and unauthorised persons away from the working area.
- ✗ **DO NOT** dis-assemble compressor for any reason. The unit must be checked by qualified personnel only.
- ✗ **DO NOT** use the compressor outdoors, or in damp, or wet, locations and **DO NOT** operate within the vicinity of flammable liquids, gases or materials.
- ✗ **DO NOT** touch the compressor cylinder, cylinder head or pipe from head to tank as these may be hot and will remain so for some time after shut down.
- ✗ **DO NOT** attempt to move the compressor by pulling the air tool hose. Only move the compressor by the handle.
- ✗ **DO NOT** use this product to perform a task for which it is not designed.
- ✗ **DO NOT** deface the certification plate attached to the compressor tank.
- ✗ **DO NOT** cover the compressor or restrict air flow around the machine whilst operating.
- ✗ **DO NOT** operate the compressor without an air filter.
- ✗ **DO NOT** allow anyone to operate the compressor unless they have received full instructions.
- ▲ **DANGER! DO NOT** direct the output jet of air towards people or animals.
- WARNING!** The air tank is a pressure vessel and the following safety measures apply:
 - ✗ **DO NOT** tamper with the safety valve.
 - ✗ **DO NOT** modify, weld or alter the tank in any way and **DO NOT** strap anything to the tank.
 - ✗ **DO NOT** subject the tank to impact, vibration or to heat and **DO NOT** allow contact with abrasives or corrosives.
 - ✓ Drain condensation from the tank daily and inspect inside walls for corrosion every three months and have a detailed tank inspection carried out annually.
 - ✓ The tank shell must not fall below the certified thickness at any point.

- ❑ **WARNING!** If an electrical fuse blows, ensure it is replaced with an identical fuse type and rating.
 - ✓ When not in use for a long period, store the compressor carefully in a safe, dry, childproof location.
 - ✓ When the compressor is not in use, it should be switched off, disconnected from the mains supply and the air drained from the tank.
- IMPORTANT WARNING** - Air contaminants taken into the compressor will affect optimum performance. Example: Body filler dust or paint overspray will clog the pump intake filter and may cause internal damage to pump/motor components. Please note that any parts damaged by any type of contamination will not be covered by warranty.

2. INTRODUCTION

Aluminium cylinder head with cast iron lining gives reduced weight and improved resistance to wear. Suitable for general-purpose workshop applications. Oil-free, single piston pump is belt driven by a 2hp motor and fixed to a vertical type tank, saving space around the workshop. Precision welded receiver tank manufactured to meet Pressure Vessel Directive. Fitted with fully automatic pressure cut-out switch and air regulator with gauge. Supplied with handle and wheels for easy manoeuvrability. Fitted with 3-pin plug.

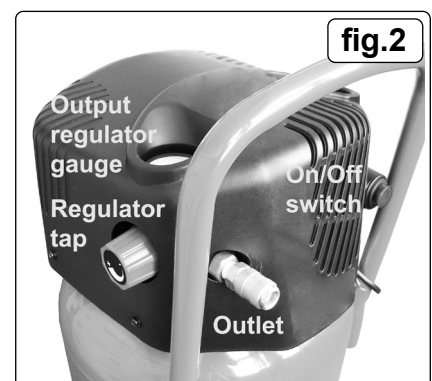
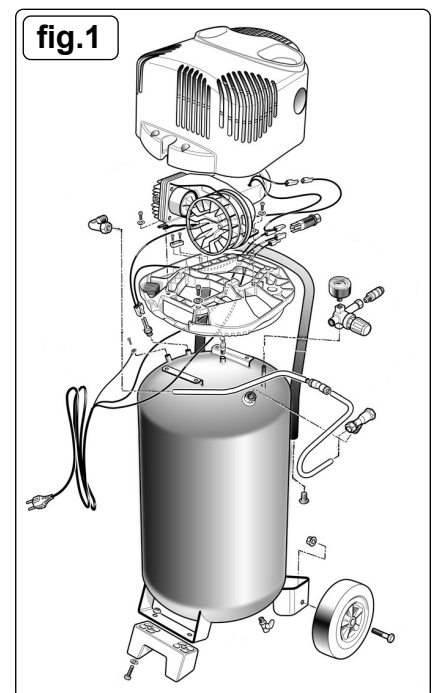
3. SPECIFICATION

Model No:.....**SAC05020.V2**
 Air Displacement cfm(L/min):..... 7.3(205)
 Maximum Free Air Delivery cfm(L/min):..... 5.1(145)
 Maximum Pressure:..... 145psi(10bar)
 Minimum Rated Supply:..... 13A
 Motor Output:.....2hp
 Noise Level:..... 97dB(A)

Outlet:..... Quick Release Coupling
 Phase:.....1ph
 Plug Type:..... 3-Pin
 Receiver Capacity:.....50L
 Size (W x D x H):..... 380 x 400 x 875mm
 Supply:.....230V/13A

4. OPERATION

- ❑ **WARNING!** Ensure that you have read, understood and apply Section 1 safety instructions.
 - IMPORTANT** The use of extension leads to connect this compressor to the mains is not recommended as the resulting voltage drop reduces motor, and therefore pump, performance.
- 4.1. Take care when selecting tools for use with the compressor. Air tool manufacturers normally express the volume of air required to operate a tool in cubic feet per minute (cfm). This refers to free air delivered by the compressor ('air out') which varies according to the pressure setting. Do not confuse this with the compressor displacement which is the air taken in by the compressor ('air in'). 'Air out' is always less than 'air in' - due to losses within the compressor.
- 4.2. STARTING THE COMPRESSOR.**
- 4.2.1. The compressor is fitted with a push ON/OFF switch (fig.2).
- 4.2.2. To turn the compressor 'ON' push the switch. To turn the compressor 'OFF' push the switch again.
- 4.2.3. Check that the ON/OFF switch is in the "OFF" position and the regulator tap (fig.2) is closed (Zero '0' bar, Anti-clockwise).
- 4.2.4. Plug mains lead into mains supply and start the compressor by pushing the ON/OFF switch.
- 4.2.5. Leave the compressor running with the regulator tap (fig.2) set to maximum pressure. Make sure that the pressure in the tank rises and that the compressor stops automatically when the maximum pressure value allowed - written on the specification plate is achieved. The compressor will now operate automatically.
- 4.2.6. The pressure switch stops the motor when the maximum tank pressure is reached, and will restart it when pressure falls below the minimum threshold - approx. 2 bar (29psi) less than the maximum pressure.
- 4.2.7. Stop the compressor by pushing the ON/OFF switch (fig.2). The compressed air inside the compressor head will flow out, making the restart easier and preventing the motor from being damaged.
- * **DO NOT**, other than in an emergency, stop the compressor by switching off the mains socket, or by pulling the plug out of the socket, as the pressure relief will not then occur and motor damage may result upon restart.
- 4.2.8. The output pressure is regulated by the pressure regulator tap (fig.2). Turn the tap clockwise to increase pressure and anti-clockwise to reduce it, view the result on the output regulator gauge (fig.2).
- NOTE: a)** If the motor does not cut in and out, but runs continuously when using an air appliance, the capacity of the compressor may be too small for the equipment or tool.
b) Should the pressure in the main tank exceed the pre-set switch maximum, the safety valve (located under the motor cowling adjacent to the regulator gauge) will activate.
- ❑ **WARNING!** For this reason **DO NOT tamper with, or adjust, the pre-set switch or safety valve.**



5. MAINTENANCE

In order to keep the compressor in good working condition, periodic maintenance is essential.

IMPORTANT! Failure to carry out maintenance tasks may invalidate the warranty on your compressor.

- ❑ **WARNING!** Before performing any maintenance operation, switch the compressor off, disconnect from electrical supply, open regulator fully and release all air from the tank.
- 5.1. **OPERATIONS TO BE CARRIED OUT AFTER THE FIRST 5 WORKING HOURS:**
- a) Check that all nuts/bolts are tight, particularly those retaining the crankcase and cylinder heads.
- 5.2. **OPERATIONS TO BE CARRIED OUT DAILY:**

- a) Drain condensation by opening the valve located under the tank (fig.4). Place a container under the valve to collect any condensation.
Tip the compressor slightly towards the drain valve to ensure all condensation drains. Close valve after draining condensation and dispose of it safely.
- b) Regularly clean dirt and dust away from the safety devices with a clean cloth or blowing with low pressure compressed air. Generally keep the compressor clean.

5.3. OPERATIONS TO BE CARRIED OUT EVERY 100 HOURS:
(Or more frequently, if the compressor operates in a very dusty atmosphere)

CLEAN AIR FILTER

- a) Ensure the power is off and the tank has been vented. Remove the cowling from the motor by removing the four retaining screws.
NOTE: When removing the cowling, care should be taken not to inadvertently disconnect the wires from the switch.
- b) Remove the filter element by pulling the filter cover from the housing (fig.3). Clean and replace the filter element. Snap the cover back into place.

5.4. OPERATIONS TO BE CARRIED OUT EVERY 200 HOURS:

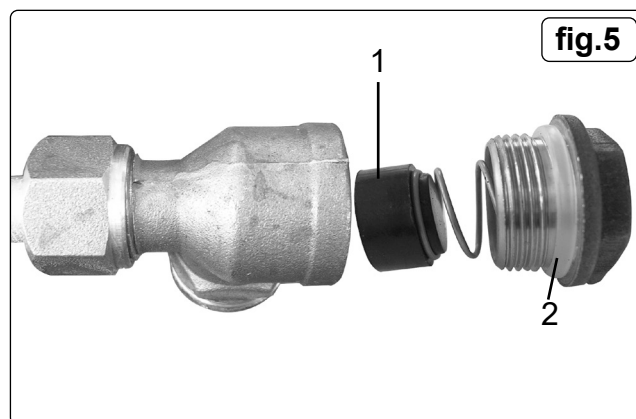
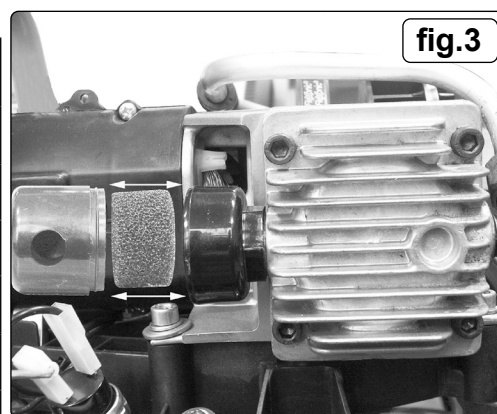
- a) Check the automatic cut-out at maximum pressure and the automatic cut-in at 2 bar below maximum pressure.
b) Replace air filter.

5.5. OPERATIONS TO BE CARRIED OUT EVERY 400 HOURS:

- a) Check all fittings and electrical connections.
b) Inspect pressure tank inside and out for damage or corrosion.

5.6. SCHEDULED MAINTENANCE TABLE

MAINTENANCE OPERATIONS	DAILY	100 HRS.	200 HRS.	400 HRS.
Drain condensation	•			
Clean intake filter		•		
General cleaning of compressor	•			
Internal & external inspection of tank				•
Replace air filter			•	
Check tube fittings and electrical connections				•



6. TROUBLESHOOTING

FAULT	CAUSE	REMEDY
Pressure drop in the tank.	Air leaks at connections.	Run compressor to max pressure, switch off unit. Brush soap solution over connections and look for bubbles. Tighten connections showing leaks. If problem persists contact Authorised Service Agent.
Pressure switch valve leaks when compressor is idle.	Non-return valve seal defective.	Empty the air tank, remove the non-return valve cap (fig.5.2) and clean, or if necessary, replace the seal (fig.5.1). Located under motor cowling.
Compressor stops and does not restart.	Motor failure.	Contact Authorised Service Agent.
Compressor does not stop at max pressure.	Pressure switch fault.	Contact Authorised Service Agent.
	Head gasket or valve fault.	Contact Authorised Service Agent.

Compressor noisy with metallic knock.	Bearing or piston damage.	Contact Authorised Service Agent.
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ENVIRONMENT PROTECTION

Recycle unwanted materials instead of disposing of them as waste. All tools, accessories and packaging should be sorted, taken to a recycling centre and disposed of in a manner which is compatible with the environment. When the product becomes completely unserviceable and requires disposal, drain any fluids (if applicable) into approved containers and dispose of the product and fluids according to local regulations.



REGISTER YOUR PURCHASE HERE



WEEE REGULATIONS

Dispose of this product at the end of its working life in compliance with the EU Directive on Waste Electrical and Electronic Equipment (WEEE). When the product is no longer required, it must be disposed of in an environmentally protective way. Contact your local solid waste authority for recycling information.

Note: It is our policy to continually improve products and as such we reserve the right to alter data, specifications and component parts without prior notice. Please note that other versions of this product are available. If you require documentation for alternative versions, please email or call our technical team on technical@sealey.co.uk or 01284 757505.

Important: No Liability is accepted for incorrect use of this product.

Warranty: Guarantee is 12 months from purchase date, proof of which is required for any claim.

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