



# 50L OIL FREE BELT DRIVE COMPRESSOR 2HP

MODEL NO: **SAC05020.V3**

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 instruction manual



Warning: Electricity



Warning: Hot surface



Wear ear protection



Indoor use only



Work in progress



**DO NOT** open air cock before air hose attached



Wear eye protection



Warning: Auto Start Up



Wear a mask

## 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.

**NOTE:** If using a transformer to supply the compressor, it must be rated at a minimum of 2kVA to allow the compressor to run efficiently.

1.1.1. Power tool plugs must match the outlet. Never modify the plug in any way. **DO NOT** use any adaptor plugs with earthed (grounded) power tools. Unmodified plugs and matching outlets will reduce risk of electric shock. Avoid body contact with earthed or grounded surfaces, such as pipes, radiators, ranges and refrigerators. There is an increased risk of electric shock if your body is earthed or grounded.

- ✗ **DO NOT** expose power tools to rain or wet conditions. Water entering a power tool will increase the risk of electric shock.
- ✗ **DO NOT** abuse the cord. Never use the cord for carrying, pulling, or unplugging the power tool. Keep cord away from the heat, oil, sharp edges or moving parts. Damaged or entangled cords increase the risk of electric shock.

1.1.2. When operating a power tool outdoors, use an extension cord suitable for outdoor use. Use of a cord suitable for outdoor use reduces the risk of electric shock.

1.1.3. If operating a power tool in a damp location is unavoidable, use a residual current device (RCD) protected supply. Use of an RCD reduces the risk of electric shock.

1.1.4. Save all warning and instructions for future reference.

### 1.2. GENERAL POWER TOOL SAFETY WARNINGS

1.2.1. **WARNING** read all safety warnings, instructions, illustrations and specifications provided with this power tool. Failure to follow all instructions listed below may result in electric shock, fire and/or serious injury.

- ✓ Before you connect the equipment to the mains supply make sure that the data on the rating plate are identical to the mains data.
- ✓ 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 your Sealey Stockist.
- ✓ Keep work area clean and well lit. Cluttered or dark area invites accidents.
- ✗ **DO NOT** operate power tools in explosive atmospheres, such as in the presence of flammable liquids, gases or dust. Power tools create sparks which may ignite the dust or fumes.

### 1.3. WORK AREA SAFETY

- ✓ Keep children and bystanders away whilst operating a power tool. Distractions can cause you to lose control.
- ✓ Operation must be with all guards, covers, lids and enclosures correctly in place.
- ✓ Fully assemble the compressor before using for the first time.

- ✓ The concentration of processed gases that can displace breathing air shall be kept within acceptable levels. Reference EN 12021 for acceptable levels of contaminants in breathing air.
- ✓ Remove from mains supply when performing maintenance or inspections.
- 1.4. PERSONAL SAFETY**
- ✓ Stay alert, watch what you are doing and use common sense when operating a power tool.
- ✗ **DO NOT** use a power tool whilst you are tired or under the influence of drugs, alcohol, or medication. A moment inattention whilst operating power tools may result in serious injury.
- ✓ Prevent unintentional starting. Ensure the switch is in the off position before connecting to power source and/or battery pack, picking up or carrying the tool. Carrying power tools with your fingers on the switch or energising power tools that have the switch on invites accidents.
- ✗ **DO NOT** let familiarity gained from frequent use of tools allow you to become complacent and ignore tool safety principles. A careless action can cause severe injury within a fraction of a second.
- ✗ **DO NOT** force the power tool. Use the correct power tool for your application. The correct power tool will do the job better and safer at the rate for which it was designed.
- ✗ **DO NOT** use the power tool if the switch does not turn it on and off. Any power tool that cannot be controlled with the switch is dangerous and must be repaired.
- ✓ Disconnect the plug from the power source and/or remove the battery pack, if detachable, from the power tool before making any adjustments, changing accessories, or storing power tools. Such preventive safety measures reduce the risk of starting the power tool accidentally.
- ✓ Store idle power tools out of the reach of children and **DO NOT** allow persons unfamiliar with these power tools or these instructions to operate the power tool. Power tools are dangerous in the hands of untrained users.
- ✓ Maintain power tools and accessories. Check for misalignment or binding of the moving parts, breakage of parts and any other condition that may affect the power tool's operation. If damages, have the power tool repaired before use. Many accidents are caused by poorly maintained power tools.
- ✓ Use the power tool, accessories and tool bits etc, in accordance with these instructions, taking into account the working conditions and the work to be performed. Use of the power tool for operations different from those intended could result in a hazardous situation.
- ✓ Keep handles and grasping surfaces dry, clean and free from oil and grease. Slippery handles and grasping surfaces do not allow for safe handling and control of the tool in unexpected situations.
- ✓ **SPECIFIC AIR COMPRESSOR SAFETY**
- ✓ Maintain the compressor in good condition and replace any damaged or worn parts. Use genuine parts only. Unauthorised parts may be dangerous and will invalidate your warranty.
- ✗ **DO NOT** carry out any welding operations on any pressurised part of the vessel.
- ✓ Before moving, or maintaining the compressor ensure it is unplugged from the mains supply and that the air tank pressure has been vented.
- ✓ Have your power tool serviced by a qualified repair person using only identical replacement parts. This will ensure that the safety of the power tool is maintained.
- ✓ Delivery hoses should be fitted with a safety cord.
- ✓ The compressor may only be used in suitable rooms (with good ventilation and an ambient temperature from +5°C to +40°C). Ensure there is no dust, acids, vapours, explosive gases, or inflammable gases in the room. The air intake should be from a clean, outside air source.
- ✓ Read the instructions relating to any accessory to be used with this compressor.
- ✓ Ensure the safe working pressure of any air appliance used exceeds compressors output pressure. If using a spray gun, check that the area selected for spraying is provided with an air change system/ventilation.
- ✓ Ensure the air supply valve is turned off before disconnecting the air supply hose to move transportable compressor - use handle only.
- ✗ **DO NOT** attempt to lift or move the compressor by any other means.
- ✓ Use the compressor in a well ventilated area and ensure it is placed on a firm 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 the air hose 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.
- ✗ **DO NOT** operate within the vicinity of flammable liquids, gases or solids.
- ✗ **DO NOT** touch compressor cylinder head or pipe from head to tank as these may be hot.
- ✗ **DO NOT** use this product to perform a task for which it has not been designed.
- ✗ **DO NOT** deface the certification plate attached to the compressor tank.
- ✗ **DO NOT** cover the compressor or restrict air flow around the unit whilst operating.
- ✓ **DANGER! DO NOT** direct the output jet of air towards people or animals.
- ✗ **DO NOT** operate the compressor without an air filter.
- ✗ **DO NOT** allow anyone to operate the compressor unless they have received full instructions.
- ☐ **WARNING!** The air tank is a pressure vessel and the following safety measures apply:
- ✗ **DO NOT** tamper with the safety valve, **DO NOT** modify 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 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.
- ✓ When not in use, 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.
- ✓ Under the PRESSURE SYSTEMS SAFETY REGULATIONS 2000 it is the responsibility of the owner of the compressor to initiate a system of inspection that both defines the frequency of the inspection and appoints a person who has specific responsibility for carrying out the inspection.
- 1.5. NOISE**
- ✓ The declared noise emission value(s) have been measured in accordance with a standard test method and may be used for comparing one tool with another. The declared vibration total values and the declared noise emission values may also be used in a preliminary assessment of exposure.

- ✓ The noise emissions during actual use of the power tool can differ from the declared values depending on the ways in which the tool is used, especially what kind of workpiece is processed. The need to identify safety measures to protect the operator that are based on an estimation of exposure in the actual condition of use.

## 2. INTRODUCTION

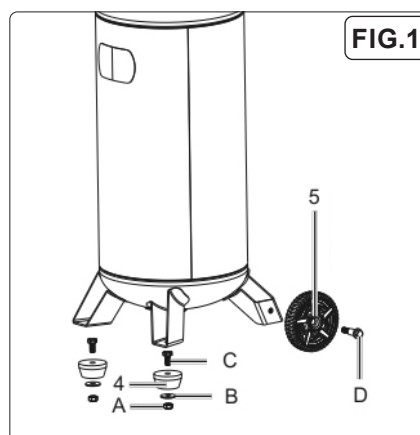
Aluminium cylinder head with cast iron cylinder gives added resistance to wear. Fitted with fully automatic pressure cut-out switch and air regulator with gauge. Suitable for all general-purpose workshop applications. Vertical tank saves floor space which makes it perfect for small workshops. Fitted with 3-pin plug.

## 3. SPECIFICATION

MODEL NO:	SAC05020.V3	MODEL NO:	SAC05020.V3: ADDITIONAL SPEC
Air Displacement cfm(L/min):	6.35(180)	Intermediate pressure and temperatures	Normal enviroment
Fuse Rating:	13A	Inlet discharge pressure and temperature	8-10bar
Maximum Free Air Delivery cfm(L/min):	3.17(90)	Maximum presssure ratio	Not applicable
Maximum Pressure:	145psi (10bar)	Maximum speed	3500 Rpm
Motor Output:	2hp	Media	Air
Noise Level:	96/85dB(A) Noise test code EN ISO2151:2008	Permissible Inclination	0°
Outlet:	Quick Release Coupling	Corrosion allowance	0.5mm
Phase:	1ph	Wall thickness	2.75mm
Plug Type:	3-Pin BS	Weight:	24.9Kg
Power Supply Cable Length:	1.8m		
Receiver Capacity:	50L		
Size (W x D x H):	370mm x 355mm x 1340mm		
Supply:	230V/50Hz/13A		

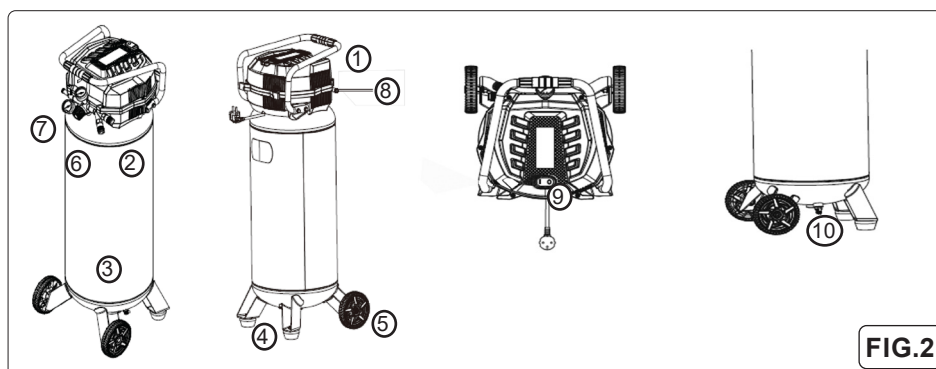
## 4. CONTENTS

PARTS	QUANTITY
1. Compressor	1
2. Nuts (A)	2
3. Washers (B)	2
4. Feet (2)	2
5. Wheels	2
6. Hexagon bolts (C)	2
7. Wheel bolts (D)	2



## 5. PREPARATION

1	Transport handle
2	Quick coupling
3	Pressure vessel
4	Supporting foot
5	Wheel
6	Pressure regulator
7	Pressure gauges
8	Safety valve
9	On/Off switch
10	Drain tap



### 5.1. ATTACHMENT OF WHEELS AND FEET (FIG.1)

- 5.1.1. Feed the wheel bolt 7 (D) through the hole in the wheel (5).
- 5.1.2. Feed the wheel bolt (D) through the hole in the wheel linkage.
- 5.1.3. Fasten the wheel (5) with the wheel bolt 7(D). If necessary use a combination spanner for this (not included).
- 5.1.4. Repeat for other wheel.

### 5.2. ATTACHING THE FEET

- 5.2.1. Fit the supplied supporting foot (4) with 2 hexagonal bolts 6(C), washers,3(B) and two flange nuts 2(A) as in fig.1.

## 6. OPERATION

### 6.1. MAINS CONNECTION

- 6.1.1. The compressor is equipped with a mains cable with protective contact plug. This can be connected to any 230 V~ 50 Hz protective contact socket, with fuse protection of at least 13A.
- 6.1.2. Before commissioning, ensure that the mains voltage matches with the operating voltage and the machine's power rating on the type plate.
- 6.1.3. Long supply cables, extensions, cable reels, etc. cause a drop in voltage and can impede motor start up.
- 6.1.4. In the case of temperatures below +5°C, motor starting can be endangered by sluggishness.

### 6.2. ON/ OFF SWITCH

- 6.2.1. The compressor is switched on by setting the on/off switch (FIG.2.9) to position I.
- 6.2.2. The compressor is switched off by setting the on/off switch (FIG.2.9) to position O.

### 6.3. PRESSURE ADJUSTMENT

- 6.3.1. The actual pressure in the pressure vessel (FIG.2.3) is shown on the pressure gauge (FIG.2.7).
- 6.3.2. The desired pressure can be adjusted with the pressure regulator (FIG.2.6).
- 6.3.3. The pressure at the quick coupling (FIG.2.2) can be adjusted from 0 to 10 bar.

### 6.4. PRESSURE SWITCH ADJUSTMENT

- 6.4.1. The pressure switch is set in the factory.
- 6.4.2. Cut-in pressure approx. 8 bar.
- 6.4.3. Cut-out pressure approx. 10 bar.

### 6.5. FITTING THE COMPRESSED AIR HOSE (not included)

- 6.5.1. Push the compressed air hose into one of the two quick-couplers (FIG.2.2). The compressed air hose latches into place.

### 6.6. REMOVING THE COMPRESSED AIR HOSE (not included)

- 6.6.1. Press the coupling ring on the quick coupler (FIG.2.2) towards the compressor. The compressed air hose pops out of the quick-coupling (FIG.2.2).

**NOTE** In order to prevent injury, hold the compressed air hose tightly whilst disconnecting the hose as there will be residual air pressure inside the airline.

## 7. MAINTENANCE

- ☐ **WARNING!** Before performing any maintenance operation, switch the compressor off, disconnect from electricity supply and release all air from the tank. In order to keep the compressor in good working condition, periodical maintenance is essential.
- ☐ **IMPORTANT WARNING** - Air contaminants taken into the compressor will affect optimum performance. Example: Body filler dust or paint over-spray will clog the pump intake filter and may cause internal damage to pump/motor components.
- ☐ **NOTE:** When performing any maintenance on the unit ensure that the symbols and wording shown below are clearly and prominently displayed in the working area.



**DO NOT START**



**MAINTENANCE  
WORK IN  
PROGRESS**

### 7.1. OPERATIONS TO BE CARRIED OUT DAILY:

- a) Drain condensation, place a container under the valve and open the valve by turning anti-clockwise (FIG.2.10). Re-tighten the valve.
- b) Check that all nuts and bolts are tight, particularly those retaining the crankcase and cylinder head.

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

- 7.2.1. Remove the air filter element by unscrewing the filter holder and prising open the holder. Clean it by blowing through with an air line at low pressure, from the clean side. Alternatively, wash it in soapy water, rinse and dry. **DO NOT** operate the compressor without the filter as foreign bodies or dust could seriously damage the pump.

### 7.2.2. SAFETY VALVE NOTE: When checking the safety valve **ALWAYS WEAR SAFETY GLASSES.**

- 7.2.2.1. To check the operation of the safety valve the air tank will need to be full. Unscrew the valve cap and gently pull it outwards (FIG.3). This should release air under pressure. Release the valve cap and this should stop the air out flow immediately.
- 7.2.2.2. If the safety valve **DOES NOT** work in this manner, **STOP** the air compressor immediately and have the air compressor checked/serviced by an authorised service centre.

### 7.3. OPERATIONS TO BE CARRIED OUT EVERY 200 HOURS:

- 7.3.1. Check the automatic cut-out at maximum pressure.

### 7.4. OPERATIONS TO BE CARRIED OUT EVERY 500 HOURS:

- a) Replace air filters.
- b) Check all tube fittings and electrical connections.

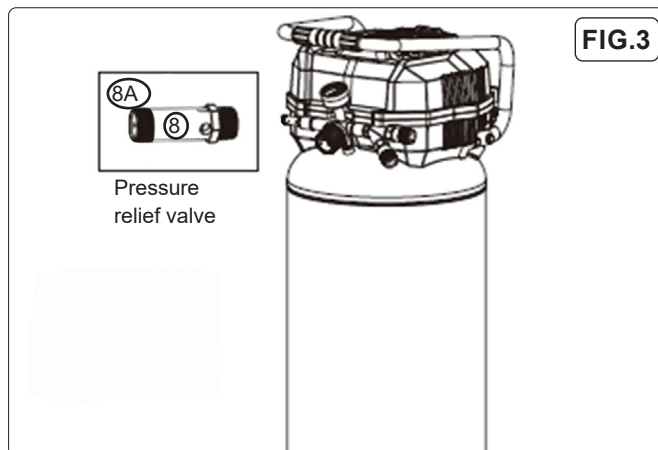
**IMPORTANT! Failure to carry out maintenance tasks may invalidate the warranty on your compressor.**

## 7.5. SCHEDULED MAINTENANCE TABLE

MAINTENANCE OPERATIONS	DAILY	100 HRS.	200 HRS.	500 HRS.
Drain condensation	•			
Clean intake filter			•	
Check cut-out			•	
Check Safety relief valve operation (Fig.3.8/8.A relief spring assy)		•		
Replace air filters. Check all fittings and connections				•

## 7.6. INSPECTION OF PRESSURE TANK BOTH INSIDE AND OUT

Under the pressure systems safety regulations 2000 it is the responsibility of the owner of the compressor to initiate a system of inspection that both defines the frequency of the inspection and appoints a person who has specific responsibility for carrying out the inspection



## 8. TROUBLESHOOTING

FAULT	CAUSE	REMEDY
The compressor does not start.	Mains voltage is not available.	Check the cable, mains plug, fuse and socket.
	Mains voltage is too low.	Make sure that the extension cable is not too long. Use an extension cable with large enough wires.
	Outside temperature is too low.	Never operate with an outside temperature of below 0°C.
	Motor is overheated.	Allow the motor to cool down. If necessary remedy the cause of the overheating.
The compressor starts but there is no pressure.	Non-return valve leaking.	Replace the non-return valve.
	The seals are damaged.	Check the seals and have any damaged seals replaced by a service centre.
	The drain screw for condensate leaks.	Tighten the screw by hand. Check the seal on the screw and replace if necessary.
The compressor starts, pressure is shown on the pressure gauge, but the tools do not operate.	The hose connections have a leak.	Check the compressed air hose and tools and replace if necessary.
	A quick coupling has a leak.	Check quick coupling, replace if necessary.
	Insufficient pressure set on the pressure regulator.	Increase the set pressure with the pressure regulator.

- ❑ **WARNING!** Before performing any troubleshooting operation, switch the compressor off, disconnect from electricity supply and release all air from the tank. In order to keep the compressor in good working condition, periodical maintenance is essential.



#### 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.



#### 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

**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](mailto: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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