



# 50L/100L OIL FREE V-TWIN DIRECT DRIVE COMPRESSOR 3HP

MODEL NO'S: **SAC05030F/SAC10030F**

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



Wear eye protection



Wear ear protection



Warning: Hot surface



Warning: Automatic start-up



Warning: Electricity



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



Indoor use only

## 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. You may obtain an RCD by contacting your local Sealey stockist.

If the product is used in the course of business duties, it must be maintained in a safe condition and routinely PAT (Portable Appliance Test) tested.

**ELECTRICAL SAFETY INFORMATION:** it is important that the following information is read and understood.

- 1.1.1. Ensure that the insulation on all cables and on the appliance is safe before connecting it to the power supply.
- 1.1.2. Regularly inspect power supply cables and plugs for wear or damage and check all connections to ensure that they are secure.
- 1.1.3. **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 - see fuse rating in these instructions.

- ✗ **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 replaced immediately by a qualified electrician.

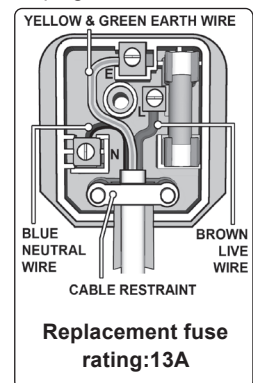
- 1.1.4. This product is fitted with a BS1363/A 13 Amp 3 pin plug.  
If the cable or plug is damaged during use, switch the electricity supply off and remove from use. Ensure that repairs are carried out by a qualified electrician.  
Replace a damaged plug with a BS1363/A 13 Amp 3 pin plug. If in doubt contact a qualified electrician.  
A) Connect the GREEN/YELLOW earth wire to the earth terminal 'E'.  
B) Connect the BROWN live wire to the live terminal 'L'.  
C) Connect the BLUE neutral wire to the neutral terminal 'N'.

Ensure that the cable outer sheath extends inside the cable restraint and that the restraint is tight. Sealey recommend that repairs are carried out by a qualified electrician.

- 1.1.5. Products which require more than 13 amps are supplied without a plug. Contact a qualified electrician to ensure that a suitably rated supply is available. Ensure that an industrial round pin plug and socket are fitted by a qualified electrician.
- 1.1.6. If an extension cable reel is used, ensure that it is fully unwound before connection. Use a reel that includes an RCD, an appliance will be protected by the RCD. The cable core section is important and should be at least 1.5mm<sup>2</sup>. Ensure that the cable of the reel is appropriate for this product. We recommend the use of 2.5mm<sup>2</sup> core section cable.

### 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 and that the air tank pressure has been vented.
- ✓ 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.



- ✓ 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 a transportable compressor use the handle only. Lift the compressor so that the front leg gives enough clearance for manoeuvring but maintain unit's centre of gravity in front of the wheels. **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, 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.
  - **WARNING!** If an electrical fuse blows, ensure it is replaced with an identical fuse type and rating.
  - ✓ 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.
  - ✗ **DO NOT** carry out any welding operations on any pressurised parts of the vessel.
- 1.3. INSPECTION OF PRESSURE TANK BOTH INTERNAL AND EXTERNAL**
- 1.3.1. 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.

## 2. INTRODUCTION

Oil free V-Twin pump, ideal for applications where an oil free air supply is required. Direct driven pump and brushed electric motor with a safe and compact design to reduce weight and be more easily transported. Fitted with fully automatic pressure cut-out switch, air regulator and pressure gauges for tank and supply. Precision welded receiver tank manufactured to meet Pressure Vessel Directive. Supplied with handle and wheels for manoeuvrability. Fitted with 3-pin plug.

## 3. SPECIFICATION

**MODEL: .....SAC05030F**  
 Air displacement (L/min)..... 11.4 (320)  
 Max. air delivery (cfm(L/min)..... 8(226)  
 Max. pressure.....116psi(8bar)  
 Min. rated supply..... 13A  
 Motor output.....3hp  
 Outlet..... quick release coupling  
 Phase.....1ph  
 Receiver capacity.....50L  
 Side (W x D x H)..... 790 x 320 x 630mm  
 Supply..... 230V

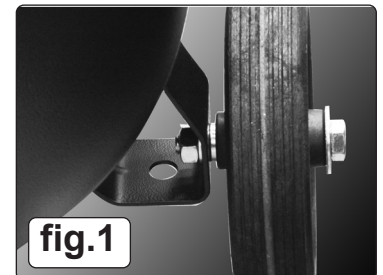
**MODEL: .....SAC10030F**  
 Air displacement (L/min)..... 11.4 (320)  
 Max. air delivery (cfm(L/min)..... 8(226)  
 Max. pressure.....116psi(8bar)  
 Min. rated supply..... 13A  
 Motor output.....3hp  
 Outlet..... quick release coupling  
 Phase.....1ph  
 Receiver capacity.....100L  
 Side (W x D x H)..... 970 x 360 x 765mm  
 Supply..... 230V

## 4. ASSEMBLY

- 4.1. Fix the wheels by placing the stub axle through the tank bracket as in fig.1.
- 4.2. Ensure that there is a washer either side of the bracket and tighten the nut.
- 4.3. The wheel for the SAC10030F is shown. For the SAC05030F: tighten the nut onto the stub axle as above and tap the hub caps on with a soft faced hammer.

## 5. OPERATION

- **WARNING!** Ensure that you have read, understood and apply Section 1 safety instructions.
- 5.1. 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.



## 5.2. STARTING THE COMPRESSOR

- 5.2.1. The compressor is fitted with a push/pull type of ON/OFF switch (fig.2.1).
- 5.2.2. To turn the compressor 'ON' pull the switch knob upwards. To turn the compressor 'OFF' push the switch knob downwards.
- 5.2.3. Ensure that the regular cap (fig.2.3) is turned fully anticlockwise and no tool is connected to the quick release coupling (fig.2.6).
- 5.2.4. Connect to the electrical supply and start the compressor by pulling the ON/OFF switch knob upwards.
- 5.2.5. Leave the compressor running. 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 and shown on the gauge (fig.2.4) - is achieved. The compressor will now operate automatically. The pressure switch (fig.2.2) 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.
- 5.2.6. Stop the compressor by pushing the switch knob downwards.
- 5.2.7. The air inside the cylinder heads will vent, 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 electrical supply, or by pulling the plug out of the socket, as the pressure relief will not then occur and motor damage may result upon restart.
- 5.2.8. When the compressor runs correctly and is stopped correctly there will be a hiss of compressed air when the motor stops. This is caused by pressure switch venting the cylinder heads to allow a soft start the next time that the unit runs.
- 5.2.9. The output pressure is regulated by the pressure regulator cap (fig.2.3). Turn the cap clockwise to increase pressure and anti-clockwise to reduce it. The output pressure is shown on smaller gauge (fig.2.5) The cap can be locked at any required setting by tightening the locking ring (fig.2.3a) up against the underside of the tap. To determine the correct working pressure for any piece of equipment check the corresponding manual. When the compressor is not being used, set the regulated pressure to zero so as to avoid damaging the pressure regulator.
- NOTE:** 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.
- The larger gauge (fig.2.4) indicates the pressure inside the main tank. The smaller gauge (fig.2.5) indicates the pressure supplied to the air equipment. Should the pressure in the main tank exceed the pressure switch maximum, the safety valve to the rear of the pressure switch (fig.2.7) will activate.
- **WARNING!** For this reason **DO NOT** tamper with, or adjust, the pressure switch or safety valve.
- 5.2.10. The compressor is fitted with a thermal overload trip. If the unit stops, switch it off and wait for the motor to cool down before restarting. If this happens frequently, it suggests that the compressor is not powerful enough for the duty required.

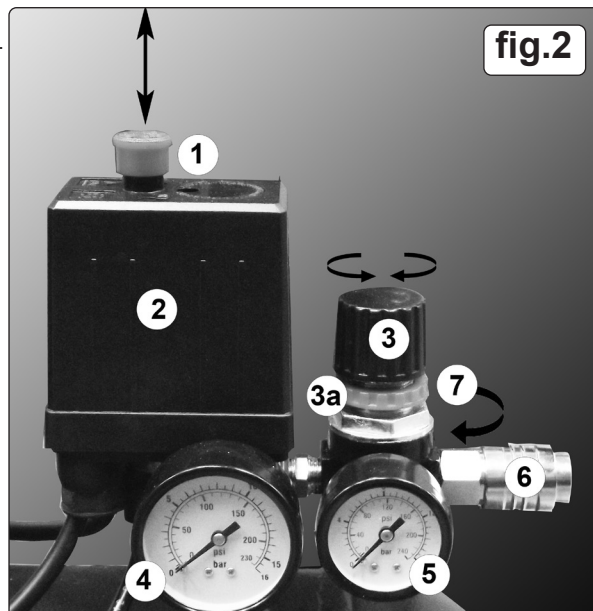


fig.2

## 6. MAINTENANCE

- 6.1. Drain condensate from the tank on a daily basis.
- 6.2. Disconnect the machine from the electrical supply and turn the drain tap (fig.3) in an anticlockwise direction.
- 6.3. When the air flow is free from condensate, re-tighten the tap.
- 6.4. To clean: rub over with a damp, soapy cloth. **DO NOT** use abrasive or solvent cleaners.
- 6.5. When not in disconnect from the electrical supply, drain the tank and store in a cool, dry, childproof location.

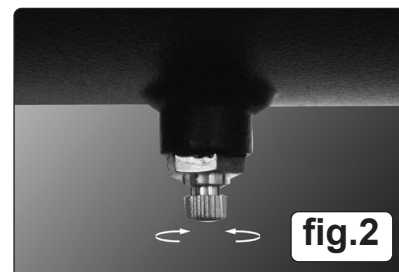


fig.2



### 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.

**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.

**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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