



# 200L BELT DRIVE AIR COMPRESSOR 3HP WITH FRONT CONTROL PANEL 415V 3PH MODEL NO: SAC3203B3PH

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



Warning: Hot surface



Electrical shock hazard



Wear ear protection



Wear eye protection



Wear protective clothing



DO NOT Connect face mask directly to compressor



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



Warning: Under pressure



Switch off before servicing or maintenance



Belt guard must be in place



Warning: Automatic startup



Warning:

## 1. SAFETY

### 1.1. ELECTRICAL SAFETY.

- **WARNING!** It is the user's responsibility to read, understand and comply with the following:  
You must check all electrical equipment and appliances to ensure they are safe before using. You must inspect power supply leads, plugs and all electrical connections for wear and damage. You must ensure the risk of electric shock is minimised by the installation of appropriate safety devices. An RCCB (Residual Current Circuit Breaker) should be incorporated in the main distribution board. We also recommend that an RCD (Residual Current Device) is used with all electrical products. It is particularly important to use an RCD together with portable products that are plugged into an electrical supply not protected by an RCCB. If in doubt consult a professional Electrician. You may obtain a Residual Current Device by contacting your Sealey dealer. You must also read and understand the following instructions concerning electrical safety.
- ✓ The Electricity At Work Act 1989 requires all portable electrical appliances, if used on business premises, to be tested by a qualified Electrician at least once a year, using a Portable Appliance Tester (PAT).
- ✓ The Health & Safety at Work Act 1974 makes owners of electrical appliances responsible for the safe condition of the appliance, and the safety of the appliance operator. If in any doubt about electrical safety, contact a qualified Electrician.
- ✓ Ensure the insulation on all cables and the product itself is safe before connecting to the mains power supply. See 1.1.1. & 1.1.2. above and use a Portable Appliance Tester (PAT).
- ✓ Ensure that cables are always protected against short circuit and overload.
- ✓ Regularly inspect power supply, leads, plugs and all electrical connections for wear and damage, especially power connections, to ensure that none are loose.
- **WARNING! IMPORTANT:** Ensure the voltage marked on the product is the same as the electrical power supply to be used and check that plugs are fitted with the correct capacity fuse.
- × **DO NOT** pull or carry the powered appliance by its power supply lead or output cables.
- × **DO NOT** pull power plugs from sockets by the power cable.
- × **DO NOT** use worn or damaged leads, plugs or connections. Immediately replace or have repaired by a qualified Electrician. This particular compressor is supplied without a mains plug. Follow the instructions below regarding the fitting of an appropriate plug.

### 1.2. MODEL SAC3203B3PH REQUIRES A 415V 3 PHASE SUPPLY AND MUST HAVE AN APPROPRIATE PLUG FITTED.

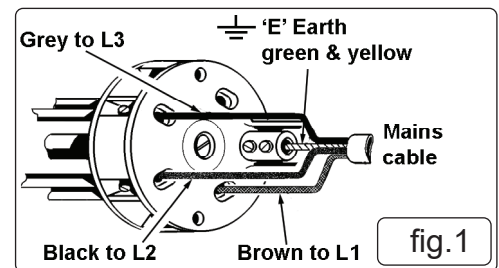
- **WARNING! ELECTRICAL INSTALLATION OF THE COMPRESSOR TO A 3 PHASE 415VOLT SUPPLY MUST ONLY BE CARRIED OUT BY A QUALIFIED ELECTRICIAN.** Ensure the power supply cable is connected to the Earth.

#### 1.2.1. This product must be fitted with a 3 phase plug wired as illustration in (fig 1), wired to an appropriately fused supply.

Connect GREEN/YELLOW wire to Earth 'E'  
Connect BROWN wire to L1 Terminal.  
Connect BLACK wire to L2 Terminal.  
Connect the GREY wire to L3 Terminal.

**NOTE:** The cable core colours found in the mains cable on this compressor are consistent with Amendment 2 to 7671:2001. When completed, check there are no bare wires, that all wires have been connected correctly and the cable restraint is tight.

- **WARNING! IT IS ESSENTIAL TO OBSERVE ANTI-CLOCKWISE (fig.1) PULLEY DIRECTION ON INITIAL START UP. IF CLOCKWISE OBSERVED, STOP IMMEDIATELY AND CONSULT A QUALIFIED ELECTRICIAN TO INVERT 2 PHASES.**
- × **DO NOT** use this product with a standard extension cable. Only use ARMoured extension cable.



- WARNING! IMPORTANT USER INFORMATION!** Over-current protection of the power circuit is required in accordance with 7.2 of EN 60204-1:2006. The supply disconnecting device to be in accordance with 5.3 of EN60204-1:2006. Ask a qualified electrician about compliance. The use of extension leads to connect these compressors to the mains is not recommended.
- 1.3. GENERAL SAFETY INSTRUCTIONS**
  - ✓ 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.
  - ✗ **DO NOT** attempt to move the compressor by any other means.
  - ✓ Use the compressor in a well ventilated area.
  - ✓ Ensure the compressor is placed on a firm surface.
  - ✓ Keep tools and other items away from the compressor when it is in use.
  - ✓ 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 the 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.
    - ✗ **DO NOT** strap or weld anything to the tank.
    - ✗ **DO NOT** subject the tank to impact, vibration or to heat.
    - ✗ **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.
- 1.4. INSPECTION OF PRESSURE TANK BOTH INTERNAL AND EXTERNAL**
- 1.4.1.** 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

Heavy-duty 3-phase compressor suitable for the professional workshop. Triple cylinder pump system coupled with a 3hp motor maximizes performance to keep running costs low compared to single stage, single phase models. Pump features heavy-duty full cast cylinders, capped by an alloy heads for improved heat dissipation and long-life. Features an easy-to-use bespoke control panel with two outlets, one regulated and one direct. Heavy-duty drive guards protect belt and flywheel that is designed to force air over the pump to aid cooling. Heavy-duty pneumatic wheels with single front lockable castor for easy manoeuvrability. Supplied with hose reel to keep your workspace tidy. Full CE certification, test certificates and operating/maintenance manual. Includes a drain valve for easy release of condensed water build-up in the tank.

## 3. SPECIFICATION

Model No: ..... SAC3203B3PH  
Air Displacement cfm(L/min): ..... 13.4(380)  
Maximum Free Air Delivery cfm(L/min): ..... 10.9(310)  
Maximum Pressure: ..... 145psi(10bar)  
Minimum Rated Supply: ..... 32A  
Motor Output: ..... 3hp  
Outlet: ..... Hi-Flow Quick Release Coupling  
Phase: ..... 3ph  
Receiver Capacity: ..... 200L  
Size (W x D x H): ..... 1410 x 600 x 1020mm  
Speed: ..... 1243rpm  
Supply: ..... 415V

## 4. ASSEMBLY

Unpack the product and check contents. Should there be any damaged or missing parts contact your supplier immediately.

**Refer to attached parts list.**

Save the packing material for future transportation of the compressor. We recommend that you store the packing in a safe location, at least for the period of the guarantee. Then, if necessary, it will be easier to send the compressor to the service centre.

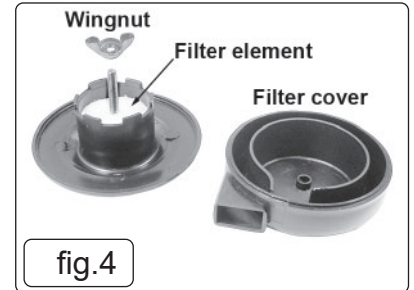
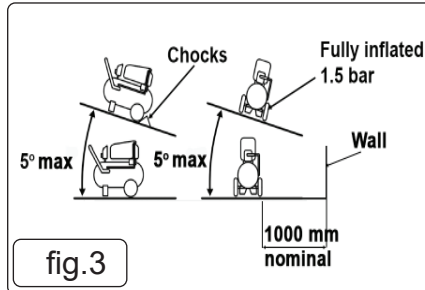
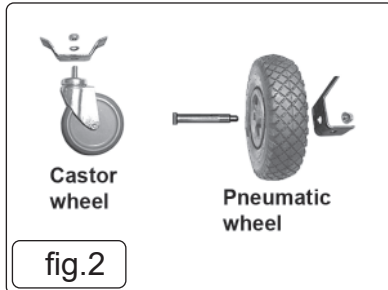
### 4.1. WHEEL ATTACHMENT

4.1.1. Assemble the wheels and swivel castor using the nuts, bolts and washers supplied (fig 2).

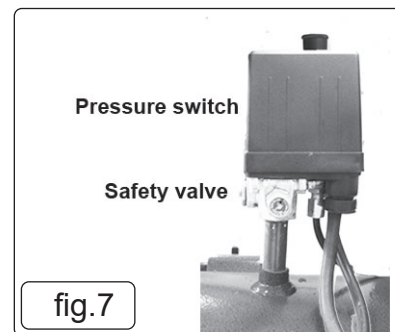
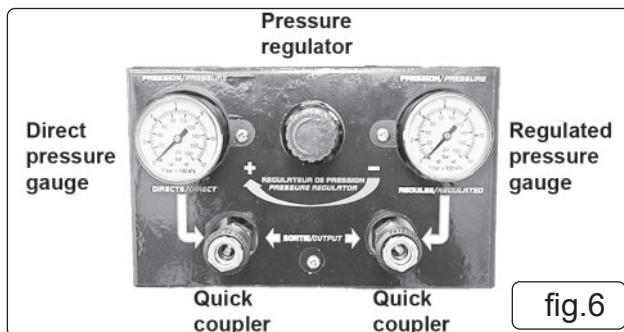
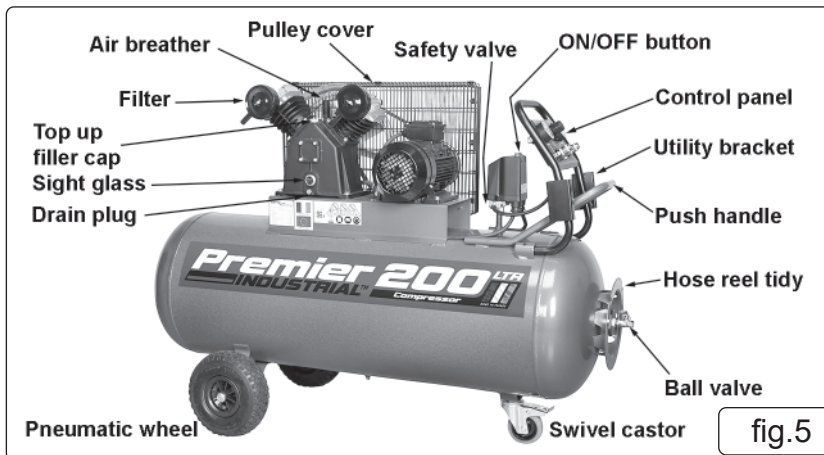
### 4.2. ATTACH THE FILTERS

4.2.1. Screw the filter unit into the port openings in each head as shown in (fig 5).

4.2.2. Place a filter cover over each threaded rod protruding from the back half of the filter and secure each with a wing nut (fig.4).



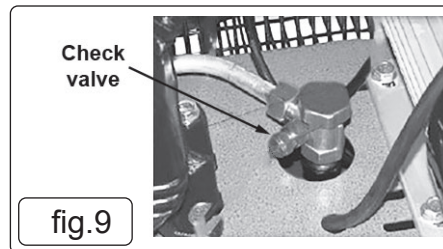
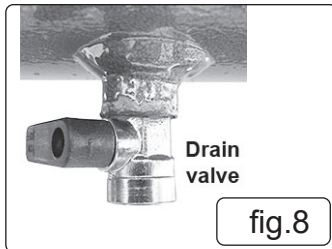
## 5. OPERATION



- ❑ **WARNING!** Ensure that you have read, and fully understood and apply Section 1 Safety Instructions.
- 5.1. **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 and could damage your compressor.
- 5.2. Confirm that the mains voltage corresponds with the voltage shown on the compressor data plate.
- 5.3. The compressor should be operated on a horizontal flat surface, or one that does not exceed 5° either transversely (tyres fully inflated to 1.5bar) or longitudinally with chocks (fig 3), and should be in a position that allows good air circulation around the unit, 1000mm nominal gap.
- 5.4. Before using the compressor check the oil level by referring to the oil sight glass (fig 5). On a horizontal surface, if the oil level is not up to the red centre mark it should be further topped up with recommended oil, see section 6.7.
- 5.5. To top up undo filler cap (fig 5), top up oil level to required level, then replace filler cap.
- 5.6. Take care when selecting tools for use with the compressor. Air tool manufacturers normally express the volume of air 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.
- 5.7. **STARTING THE COMPRESSOR.**
- 5.7.1. Your compressor is fitted with a push/pull type ON/OFF button to turn the compressor "ON" pull the ON/OFF button upwards. To turn the compressor "OFF" push the ON/OFF button downwards (fig 5).
- 5.7.2. Check that the ON/OFF button is in the "OFF" position and the regulator dial (fig 6) is closed (Zero '0' bar).
- 5.7.3. Plug mains lead into mains supply and start the compressor pulling the ON/OFF button (fig 5) upwards.

- 5.7.4. Leave the compressor running with no air line or tools connected, and regulated pressure gauge (fig 6) set to maximum pressure (fully clockwise). Make sure that the pressure in the tank rises and that the compressor stops automatically when the maximum is reached. This value is written on the specification plate and shown on the direct pressure gauge (fig 6). This may take in excess of 5 minutes. The compressor will now operate automatically.  
The pressure switch (fig 7) stops the motor when the maximum tank pressure is reached and restarts it when pressure falls below the minimum threshold approximately 2bar (29psi) less than the maximum pressure.
- 5.7.5. Stop the compressor by pushing the ON/OFF button (fig 5) downwards. The compressed air inside the compressor head will flow out via the air line tube situated beneath the switch housing. Restart is made easier and prevents the motor from being damaged.  
**DO NOT**, other than in an emergency, stop the compressor by switching off the mains power, or by pulling the plug out, as the pressure relief will not then occur and motor damage may result upon restart.  
When the compressor runs correctly and is stopped correctly there will be:  
**A:** A whistle of compressed air when the motor stops,  
**B:** A protracted whistle (about 20-25 seconds) when the compressor starts with no pressure in the tank.
- 5.7.6. The output pressure is regulated by the pressure regulator (fig 6). Turn the pressure regulator dial clockwise to increase pressure and counter-clockwise to reduce it.  
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 reducer.  
**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:** The direct pressure gauge (fig 5) indicates the pressure inside the main tank. The regulated pressure gauge (fig 6) indicates the pressure supplied to the air equipment.  
Should the pressure in the main tank exceed the pre-set maximum, the safety valve (fig 5) will activate.
- **WARNING!** For this reason **DO NOT** tamper with, or adjust, the pressure switch (fig 7) or safety valve (fig 5).
- 5.7.7. Should the trip activate, leave for 1 minute before pressing the button to reset.  
For possible causes of trip activation see section 6 Troubleshooting.

## 6. MAINTENANCE



- In order to keep the compressor in good working condition, periodic maintenance is essential.
- **WARNING!** Before performing any maintenance operation, switch off the compressor, disconnect from electricity supply and release all air from the tank.  
**IMPORTANT!** Failure to carry out maintenance tasks may invalidate the warranty on your compressor.
- 6.1. **OPERATIONS TO BE CARRIED OUT AFTER THE FIRST 5 WORKING HOURS:**  
**A:** Check that all bolts/nuts are tight, particularly those retaining the crank case and cylinder head.
- 6.2. **OPERATIONS TO BE CARRIED OUT AFTER THE FIRST 50 WORKING HOURS:**  
**B:** Replace the lubricating oil.
- 6.3. **OPERATIONS TO BE CARRIED OUT DAILY:**  
**A:** Drain condensation by opening the valve located under the tank (fig 8). Place a container under the valve and slowly open the valve by turning counter clockwise.
- 6.4. **OPERATIONS TO BE CARRIED OUT EVERY 100 HOURS**  
**NOTE:** Or more frequently, if the compressor operates in a very dusty atmosphere.  
**A:** Check oil level and, if necessary, top up.  
**B:** Remove the filter elements (fig 4) and clean with compressed air (wear eye protection). **DO NOT** operate the compressor without the filters as foreign bodies or dust could seriously damage the pump.  
**C:** Check for oil leaks.
- 6.5. **OPERATIONS TO BE CARRIED OUT EVERY 200 HOURS:**  
**A:** Replace the lubricating oil. For oil specifications see 6.7.  
Remove the filler cap (fig 5) then unscrew the drain plug (fig 5) and drain the oil into a suitable waste oil container.  
Drain when the compressor is hot so that oil drains rapidly and completely. Incline compressor to ensure complete drainage.  
Replace drain plug and refill through the oil filler aperture. **DO NOT** overfill. Replace filler cap.  
**B:** Check the automatic cut-out at maximum pressure and the automatic cut-in at 2bar below.
- **WARNING!** Never mix different oils and **DO NOT** use non-detergent/low quality oils as the compressor may be damaged.
- **WARNING!** Dispose of waste oil only in accordance with local authority requirements.
- 6.6. **OPERATIONS TO BE CARRIED OUT EVERY 500 HOURS:**  
**A:** Replace air filter (fig 4 & 5).  
**B:** Check all tube fittings and electrical connections.
- 6.7. Recommended oil for compressors, suitable for room temperatures ranging from +5°C to +25°C.  
SEALEY CPO or equivalent SAE 40 compressor oil. Room temperature below +5°C: SAE 20 compressor oil.
- **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.
- **WARNING!** Any parts damaged by any type of contamination will not be covered by warranty.
- 6.8. 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.

## 7. TROUBLESHOOTING

FAULT	POSSIBLE CAUSE	REMEDY
1A) Pressure drop in the tank	Air leaks at connections	Run compressor to maximum pressure, switch off. Brush soap solution over connections and look for bubbles. Tighten connections showing leaks. If problem persists contact Authorised Service Agent
1B) Pressure drop in the tank	Air leaks from safety valve	It should be replaced, unless leaking at a joint which can be sealed.
1C) Pressure drop in the tank	Air leaks from cylinder head gasket	Check tightness of head bolts. If leak continues contact authorised Service Agent
2) Pressure switch valve leaks when compressor is idle	Non-return valve seal defective	Empty the air tank. Remove the check valve cap, spring and seal. Clean the seal and its seat, or if necessary replace the seal (fig 9)
3) Air leaks from tank body or tank welds	Internal corrosion caused by infrequent tank draining or non permitted modifications to tank	Tank could rupture or explode. Cannot be repaired <b>DISCONTINUE USE IMMEDIATELY</b>
4A) Motor stops and will not restart	Thermal cut out has operated	Allow unit to cool for 30 minutes before restarting
4B) Motor stops and will not restart	Supply fuse has tripped	Press trip reset button and restart unit. If repeated tripping occurs replace the check valve or contact authorised Service Agent
5) Compressor stops and does not restart	Motor failure	Contact Authorised Service Agent
6A) Compressor does not stop at maximum pressure	Pressure switch fault	Contact Authorised Service Agent
6B) Compressor does not stop at maximum pressure	Filter clogged Head gasket or valve fault	Replace filter element. Contact Authorised Service Agent
7) Compressor noisy with metallic knock	Bearing or piston damage	Contact Authorised Service Agent
8) Excessive moisture in discharged air	High humidity environment	Drain tank after each use



### 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.



### 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.

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

**Warranty:** Guarantee is 24 months from purchase date, proof of which is required for any claim.

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