COMPRESSED AIR FILTERS

SCE 4

User's Maintenance & Spare Parts Manual

Dear Customer,

Thank you for choosing Pilot Air.

In order to get the best performances in the use of this product, please read carefully this manual. To avoid incorrect operations of the equipment and possible physical risks to the operator, please read and strictly follow the instructions contained in this manual. Note, these instructions are in addition to the safety rules that apply in the country where the filter is installed.

This manual must be maintained available in any moment for future references and it has to be intended as inherent part of the relevant filter.

Due to the continuous technical evolution, we reserve the right to introduce any necessary change without giving previous notice.

Should you experience any trouble, or for further information, please do not hesitate to contact us.

Best Regards,

PILOT AIR COMPRESSORS
https://www.pilotair.com.au/
Phone: 1300 667 579
Email: service@pilotair.com.au / spares@pilotair.com.au

TABLE OF CONTENTS

INDEX

GB

1	General Operation	4
2	Safety Instructions	4
3	Component Diagram	5
4	Installation Instructions	6
5	Cleaning Instructions	9
6	Service Chart	11
7	Technical Specifications	12
8	Warrant Terms and Conditions	13

General Operation

The SCE-4 removes condensate, automatically, from compressed air filters and i.e. small dental compressors.

The SCE- 4 is designed for ALL compressed air filters, regardless of their capacity or size.

The SCE-4 incorporates a direct acting valve assembly and FPM seals to ensure a long-life operation.

Safety Instructions

SAFETY AND PROPER USAGE

To ensure safe and enduring performance of this product, you must comply strictly with the instructions enclosed herein. Non-compliance with instructions or improper handling of the product will void your warranty! This product is designed to drain condensate from compressed air systems. Usage of this product in conditions not specified in this manual or in contrary to the instructions hereby provided is considered IMPROPER. The manufacturer will not be held liable for any damages resulting from improper use of the product.

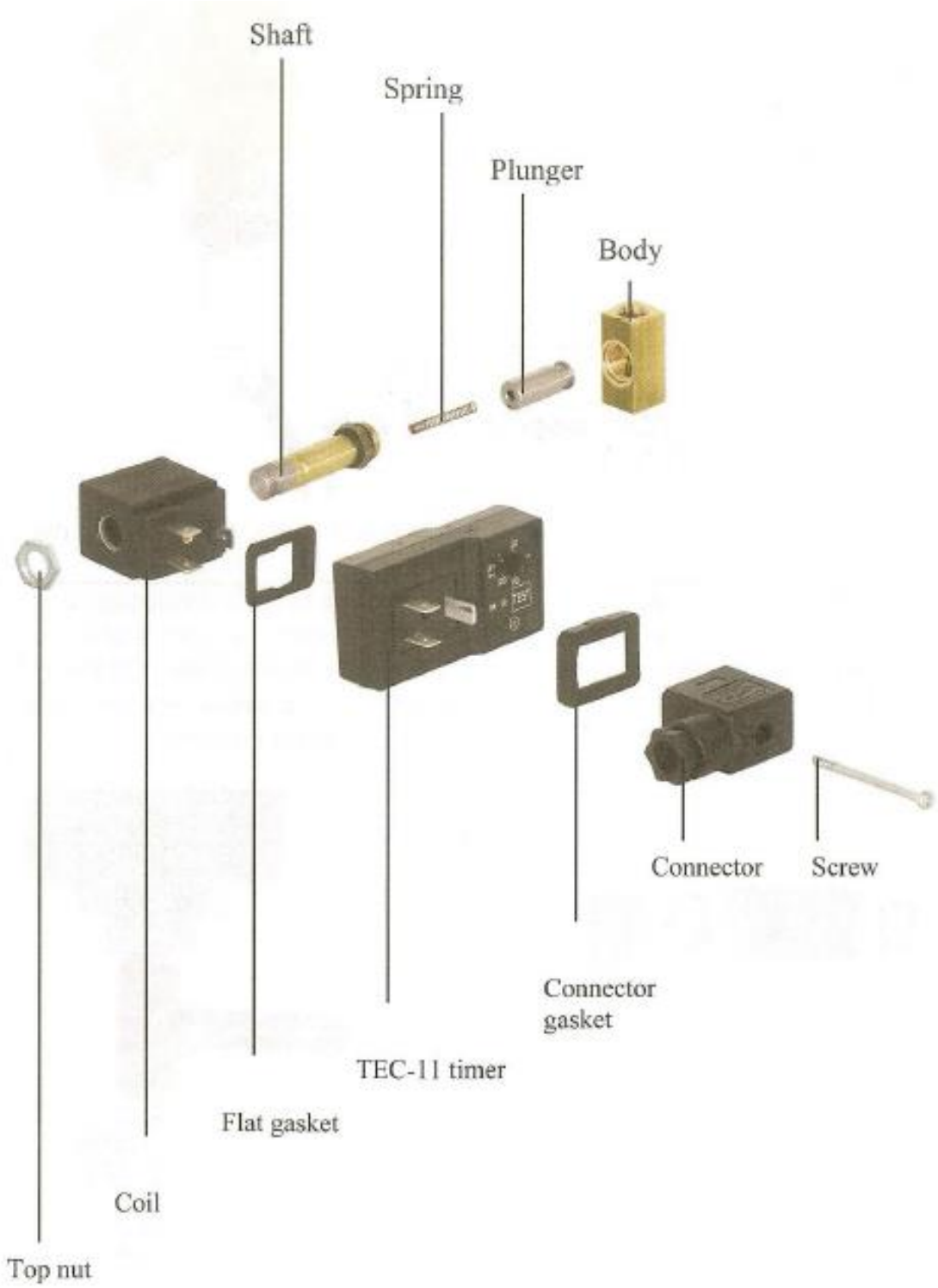
SAFETY AND WARNING INSTRUCTIONS

ATTENTION

- Observe valid and generally accepted safety rules when planning, installing and using this product.
- Take proper measures to prevent unintentional operation of the product or damage to it.
- Do not attempt to disassemble this product or lines in the system while they are under pressure.
- Always depressurise the compressed air systems before working on the system.

It is important that personnel use safe working practices and observe all regulations and legal requirements for safety when operating this product. When handling, operating or carrying out maintenance on this product, personnel must employ safe engineering practices and observe and observe all local health and safety requirements and regulations. International users refer to regulations that prevail within country of installation. Most accident, which occur during the operation and maintenance of machinery, are the result of failure to observe basic safety rules or precaution. An accident can often be avoided by recognising a situation that is potentially dangerous. Improper operation or maintenance of the product could be dangerous and result in an accident causing injury or death. The manufacturer cannot anticipate every possible circumstance, which may represent a potential hazard. The WARNINGS in this manual cover the most common potential hazards and are therefore not all-inclusive. If the user employs an operating procedure, an item of equipment or a method of working which is not specifically recommended by the manufacturer he must ensure that the product will not be damaged or made unsafe and that there is no risk to persons and property.

EXPLODED VIEW – IDENTIFY ALL COMPONENTS DIAGRAM



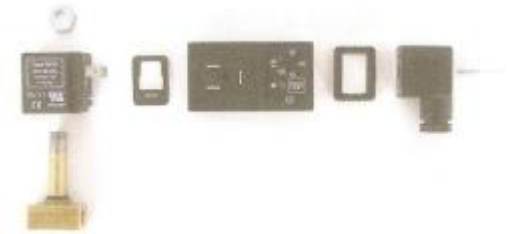
IMPORTANT NOTICE

Before installing this product, make sure it complies with your request and that it suits your application!

1. Unpack the unit and visually inspect for any transport damage incurred after leaving our factory.

2. Depressurise the system before installation or maintenance is carried out!

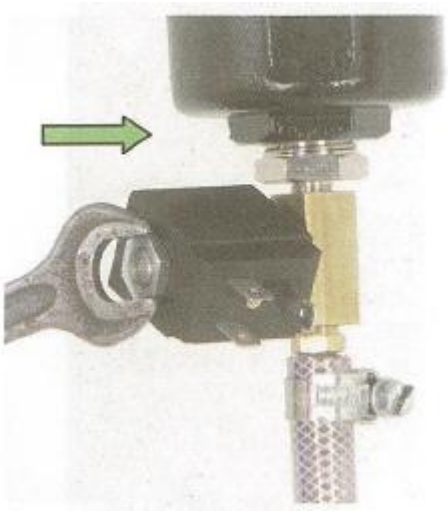
3. The drain is shipped fully assembled! Disassemble the drain before installation by unscrewing the screw in the connector and the top nut above the coil. (See page 5 for an exploded view).



4. Locate a suitable condensate draining point on your compressor system and connect your valve as illustrated below. Connect the outlet to an oil/water separator. We recommend using a JORC condensate cleaner.

- *Make sure the arrow on the valve body complies with the flow direction of the condensate.*
- *Do not use the valve shaft as lever!*

5. Slide the coil on to the valve shaft and replace the top nut. Tighten the top nut (max. 1 torque 1Nm) using a 14mm wrench).



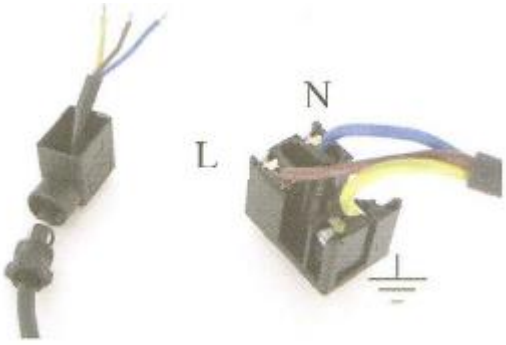
The coil can be rotated to 360° around the valve, you can align the coil as desired.

6. Place the flat gasket over the coil connection pins.

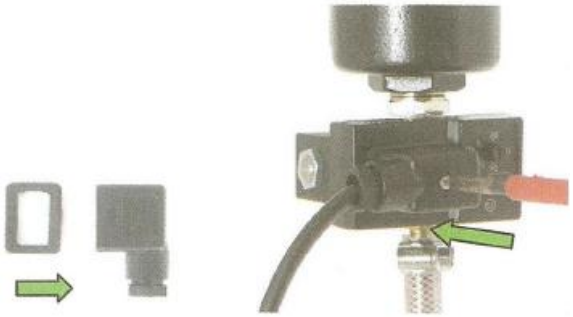
Make sure there is no debris between the gasket and the coil.

7. Mount the timer on to the coil as illustrated below.

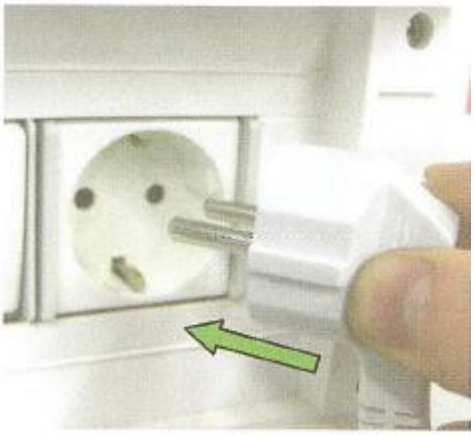
8. Remove the protection cap from the connector and connect your power cable to the connector as shown below.



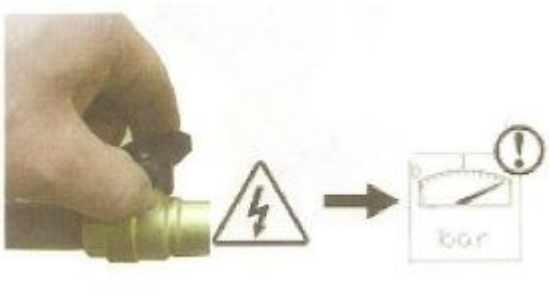
9. Place the connector gasket on the connector, plug the connector on the timer as illustrated below and tighten the screw (max torque 1Nm) and make sure both gaskets are secured properly to ensure IP65 rating.



10. After double checking that the power supply corresponds with the voltage specified on the coil, you can switch it on.



11. Slowly open the ball valve in front of the filter to restore normal system pressure.



12. Press the TEST button to check the valve function.

13. The drain is now at full system pressure and will periodically discharge any condensate it receives from your compressed air system fully automatic and continuous.

    You can now alter the off time if required.

14. Adjust the OFF button to suit your system i.e. 20 min.

15. The ON time is pre-set to 2 sec.

16. Your SCE-4 is now ready for operation!

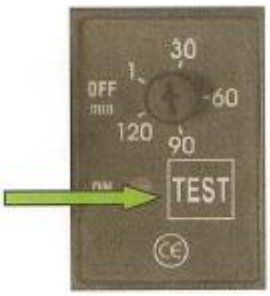
Cleaning Instructions

These instructions are for cleaning the SCE-4. If your SCE-4 requires maintenance, i.e. replacement of wearing components, please refer to our dedicated maintenance instructions (supplied with the service kit).

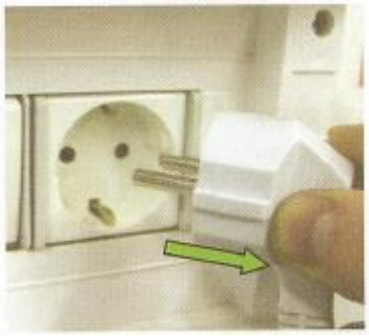
Depressurise the system before installation or maintenance is carried out!

1. Close the condensate supply, i.e. close the ball valve in front of the filter.

2. Press the TEST button to empty the unit of any residual condensate and to depressurise the SCE-4 valve.



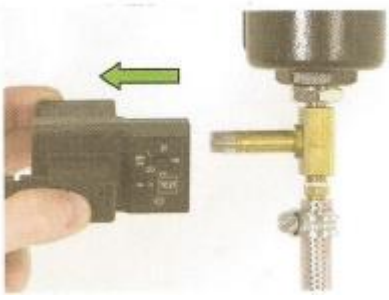
3. Switch off the electrical supply.



Make sure the power is switched OFF before continuing this cleaning operation!

4. Unscrew the valve top nut using a 14mm wrench.

5. Remove the connector, coil and timer assembly from the valve shaft.



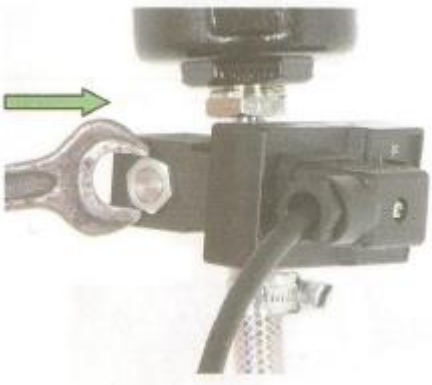
6. Unscrew the valve shaft using a 12mm wrench.

Do not use the valve shaft as lever!

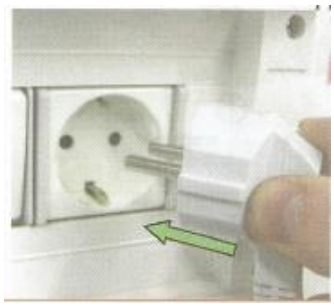
7. Clean all the valve parts, body and shaft.

8. Reassemble the inner parts and shaft. Screw the shaft assemble back on to the valve body (max. torque 7Nm) using a 13mm wrench.

9. Reposition the coil, timer and connector assembly on to the valve, replace the top nut and tighten the top nut (max. torque 1Nm) using a 14mm wrench.



10. Switch on the electrical supply.



11. Open the ball valve in front of the filter to restore normal system pressure.

12. Press the test button to check the valve function.

13. Your SCE-4 is now ready for operation!

DATE	DESCRIPTION	NAME

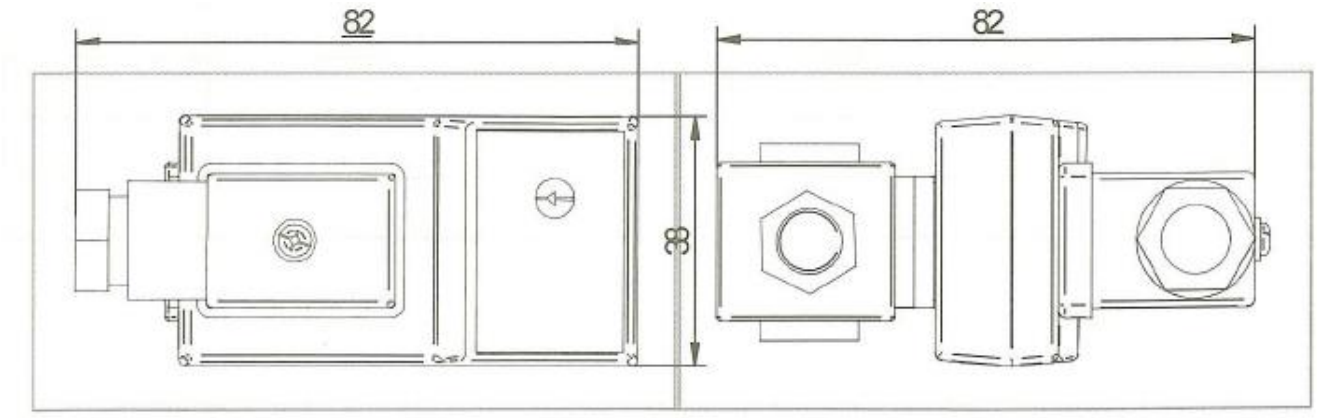
TECHNICAL SPECIFICATIONS

Interval Time (off time)	1 – 120 min.
Discharge Time (on time)	2 sec. (Fixed)
Supply voltage	12 – 380VAC/DC 50-60Hz (± 10%)
Current consumption	Approx. 7mA
Case Material	ABS plastic FR grade
Connection	DIN 43650B ISO 6952
Indicators	Yellow LED's, indicating on
Valve type	2/2-Way direct acting valve
Connections	1/8" or 1/4" BSP or NPT
Max. Pressure	0 – 16 BAR (21 bar optional)
Operating Temperature	2°C / 55°C ambient
Media Temperature	Max. 90°C
Valve body	Forged Brass, 2.0mm orifice
Insulation	Thermal group H
Environmental Protection	IP65

CERTIFICATIONS

CE	Yes
cULus	Yes
RoHS	Yes
IP65	Yes

DIMENSIONS (MM)



Pilot Air Compressors Pty Ltd **manufactured goods - 1 Year Warranty and 3 Year Warranty (where applicable)**

(DATE)

Pilot Air Compressors Pty Ltd **(Pilot Air)** warrants to the first purchaser of goods (manufactured by it) (Product) from Pilot Air and the last purchaser prior to installation that, subject to compliance with the Conditions of Warranties below that:

1. For a period of 12 months from the date of purchase, the Product will be free from defects due to defective factory workmanship or materials; and

2. For a period of 12 months from the date of purchase that Pilot Air branded accessories supplied by Pilot Air will be free from defects due to defective factory workmanship or materials.

3. The compressor pump only (and excluding all other components of the unit) in the following units:
    a. TM Series Units
    b. Classic K Series Units
    c. Petrol Industrial Series Units
    d. Three Phase Industrial Series Units

    will be free from defects due to defective factory workmanship or materials for a period of 3 years from the date of purchase.

4. The 'DCR', 'PAC' and 'FP' Series of Rotary Screw type compressors will be free from defects due to defective factory workmanship or materials for 3,000 working hours in the first 12 months from the date of purchase. This warranty is extended to a period of 2 years for the air end of the DCR PAC and FP Series Compressors.

5. Where compressors are powered with either petrol or diesel engines, the engine only is subject to the warranty provided by the manufacturer of the engine.

6. Non-Pilot Air accessories (meaning accessories which are not Pilot Air manufactured and branded) which are supplied by Pilot Air are not covered by this warranty. Purchasers are referred to the individual manufacturer's warranty. Purchasers can request a copy of the applicable warranties by contacting Pilot Air using the contact details below.

Conditions of Warranties

The warranties specified herein are subject to the following conditions:

(a) Pilot Air will not be liable for a breach of any of its warranties unless the Claimant provides proof of purchase of the Product and makes a written claim to Pilot Air at the address set out below, either within 30 days after the defect would have become reasonably apparent, or if the defect was reasonably apparent prior to installation, then the claim must be made prior to installation;

(b) The warranties are not transferable;

(c) The Product must be installed, operated, maintained and serviced strictly in accordance with the relevant Pilot Air literature current at the time of installation and must be installed in conjunction with the components or products specified in the Pilot Air literature. To obtain copies of such literature go to www.pilotair.com.au or telephone Pilot Air on (02) 9648 3099;

(d) If the claimant chooses to rely upon any warranty specified herein the claimant's sole remedy under the warranty for breach of the warranty is (at Pilot Air's option) that Pilot Air will either supply replacement Product, rectify the affected Product or pay for the cost of the replacement or rectification of the affected product;

(e) In the circumstances where the guarantees under the Australian Consumer Law do not apply in respect to the purchase of its Products, Pilot Air will not be liable for any losses or damages (whether direct or indirect) including property damage or personal injury, consequential loss, economic loss or loss of profits, arising in contract or negligence or howsoever arising. Without limiting the foregoing, Pilot Air will not be liable for any claims, damages or defects arising from misuse of the Product, inadequate maintenance and storage of the Product, repairs rendered necessary or arising from the use of non-genuine Pilot Air parts in the product, normal wear and tear maintenance of the Product, deterioration of any part of the Product due to normal wear and tear, work performed on the Product other than by an authorised Pilot Air service technician or their agent, use of the Product for any purpose other than which it was intended to be used, use of the Product after essential parts and accessories have been removed, operating the Product continuously under excessive load, and if the serial/model label has been removed or obscured on the Product;

(f) In circumstances where the guarantees under the Australian Consumer Law do not apply in respect to the purchase of its Product/s: all warranties, conditions, liabilities and obligations other than those specified herein are excluded to the fullest extent allowed by law.

(g) Parts repaired or replaced under any warranty specified herein are warranted only for the remaining period of the original warranty period.

(h) All defective parts that are the subject of a claim under any warranty specified herein become the property of Pilot Air.

(i) The warranties specified herein do not apply to the following parts or conditions and cannot be relied upon in the situation whereby:

i) any Pilot Air product or part has been subject to misuse, negligence, accidental damage, improper or inadequate use, inadequate maintenance or improper storage or been operated under unusual conditions or continuously under excessive load;

ii) the defect has been caused by the use of non-genuine Pilot Air parts;

ii) the defect or deterioration was due to normal use, fair wear and tear and exposure, unless due to any defect in material or workmanship;

iv) work was undertaken on any Pilot Air product or part by an unauthorised Pilot Air agent;

v) the serial /model label has been removed from any Pilot Air product or part;

vi) normal maintenance items/parts including valves and piston rings

(j) Warranty repairs on all 240 Volt and portable units shall be on a back to base basis that the Claimant is required to return the Product to the nominated warranty agent as advised by Pilot Air, provided that such costs are not significant;

(k) The replacement or repair of any defective part or correction of operating faults under any warranty specified herein is to be made only after Pilot Air, or its authorised representative, have examined the unit to their satisfaction, with their decision being final.

(l) In the circumstances where Pilot Air accepts or it is determined by Pilot Air that the claimant has a valid claim under this warranty, and subject to paragraph (m) below, Pilot Air will bear all of the claimant's reasonable and proximate expenses incurred as a result of claiming under this warranty. The claimant is to inform Pilot Air in writing to the address identified below within 21 days from when the claimant first makes a claim under this warranty of all such claims and expenses and provide it with copies of all receipts and invoices where relevant before any reimbursement is made by Pilot Air to the claimant. The claimant is responsible for all other costs of claiming under this warranty.

(m) Pilot Air will not be responsible for any courier, transport or freight related costs whatsoever associated with the return to it of any defective Product that have not first been approved by it. Pilot Air reserves the right to first inspect any defective Product and decide how, if at all, the defective Product is to be returned to it. Any unapproved courier, transport or freight related costs will be to the claimant’s account.

Important Note:

If you acquire goods from Pilot Air as a consumer according to the Australian Consumer Law, our goods come with guarantees that cannot be excluded under the Australian Consumer Law. You are entitled to a replacement or refund for a major failure and for compensation for any other reasonably foreseeable loss or damage. You are also entitled to have the goods repaired or replaced if the goods fail to be of acceptable quality and the failure does not amount to a major failure.

Any rights a consumer may have under any warranty specified herein are in addition to other rights and remedies of a consumer under a law in relation to the goods to which these warranties relate. Nothing in this document shall exclude or modify any legal rights a customer may have under the Australian Consumer Law or otherwise which cannot be excluded or modified at law.

Contact details if you wish to make a claim under any warranty specified herein:

For more information or to make a claim under any warranty specified herein please telephone Pilot Air on (02) 9648 3099, email Pilot Air via our website: ***http://www.pilotair.com.au*** or write to Pilot Air at:

Pilot Air Compressors Pty Ltd 115 Beaconsfield Road
Silverwater NSW 2128