



Get a free 2-year warranty



PISTON COMPRESSOR PCAP 50 MM 13

IN GOOD HANDS

INSTRUCTIONS MANUAL ORIGINAL

GB / SP / DE / PT





WHO ARE WE?

Peugeot Professional Tools was born out of several obvious factors.

It combines the expertise of Peugeot, which has mastered the art of cutting since 1810, with the expertise of Tivoly, a metalworker since 1917, to create a wide range of machines and tools for construction and maintenance professionals.

It is also a clear desire to serve craftsmen and small businesses driven by strong family and heritage values.

For these professionals, Peugeot Outils Professionnels offers machines and tools designed specifically for their needs. Reliable, durable tools, available in France and in countries under distribution agreements, through local industrial and family partners.

Trusted equipment with a longer warranty, backed by logistics and

after-sales service. The assurance of dealing with the people who assembled these tools and know every part that goes into them inside out.

From exceptional projects to everyday construction sites, these tools are designed to withstand the most demanding conditions and stand the test of time.

Peugeot Professional Tools was born out of one obvious fact: that our tools are in good hands. The hands of those who work behind the scenes and give their all to satisfy their customers.

Since 1810, many things have changed, but the hands have remained the same. Hands of enthusiasts, craftsmen, dedicated technicians and installers, workers who are proud of themselves and their achievements.

Peugeot Professional Tools, tools in good hands.

THANK YOU FOR YOUR PURCHASE.

We are delighted that you have chosen Peugeot Outils Professionnels. We have designed and developed these tools for you, and we are delighted to accompany you in each step of your experience with the most reliable equipment. Thank you for your purchase!

YOUR CONFIDENCE IS ESSENTIAL TO US, and we are delighted to accompany you in each step of your experience with the most reliable equipment. Thank you for your purchase!

See your purchase benefit from a 2-year warranty, extendable to 4 years.

mentaires. To benefit, please register at www.peugeotauti.com

If you live in the west/west or need assistance, we are here to offer you the best possible service. service possible.

Peugeot Professional Tools, tools in good hands.

• 33 (0) 4 79 89 59 00

Thank you very much for choosing Peugeot Outils Professionnels. We are delighted to accompany you in each step of your experience with the most reliable equipment. Thank you for your purchase!



MOBILE AIR COMPRESSOR SINGLE-CYLINDER MONOBLOCK UNIT



PCAP50MM13

Ref.: PPC00100010

Equipment:

- Pressure regulator manifold with 2 outlets:
 - > quick connectors, one of which is regulated (working pressure adjustment)
- Pressure gauge switch
- Pressure gauges 0-12 bar
- Check valve, safety valve, drain valve
- Solid wheels $\varnothing$ 175 mm
- Removable carrying handle
- Power cord 3 x 1.5 mm² x 1.8 m

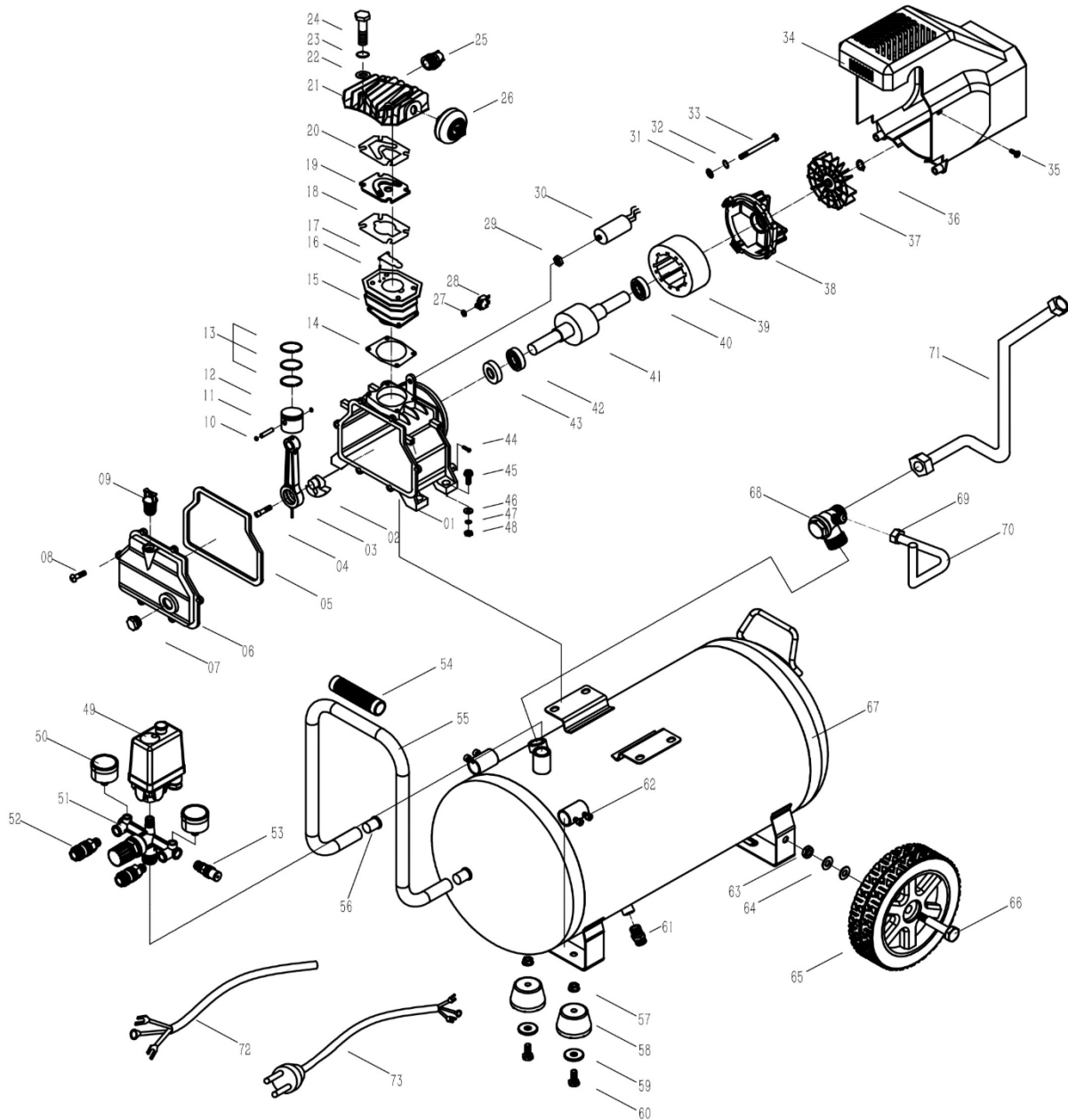
Features

Air intake	13 m ³ /h, or 215 l/min
Output flow rate	7 m ³ /h, or 115 l/min
Motor	2.5 HP Single-phase
Tank	50 liters
Pressure	8 bar max
Dimensions in cm	70 x 43 x 67
Weight	30.8 kg
Noise level	95 dB (A)

You have just purchased a Peugeot Outils Professionnels air compressor and we thank you for your trust.

To get the most out of your compressor safely, please read this manual carefully before installation, use, and any maintenance.

Vue éclatée du compresseur



Repère	Désignation	Quantité	Référence
1	Carter d'huile	1	
2	Vilbrequin	1	25150851
3	Bielle	1	25150852
4	Vis vilbrequin	1	
5	Joint flasque avant	1	25150853
6	Flasque avant	1	25150854
7	Voyant niveau d'huile	1	25150855
8	Vis flasque avant	6	
9	Reniflard	1	25150856
10	Circlips piston	2	25150857
11	Axe piston	1	25150858
12	Piston Ø 47 mm	1	25150859
13	Jeu de segments	1	25150860
14	Joint inférieur cylindre	1	25150861
15	Cylindre	1	25150862
16 à 19	Kit plaque clapets	1	25150863
18	Joint plaque clapet	1	25150864
20	Joint culasse	1	25150865
21	Culasse	1	25150866
22	Rondelle culasse	4	
23	Rondelle frein culasse	4	
24	Vis culasse	4	
25	Coude sortie	1	25150867
26	Filtre à air	1	25150868
27	Ecrou protection moteur	1	25150869
28	Relais protection moteur	1	25150870
29	Ecrou condensateur	1	
30	Condensateur 40 µf	1	25150871
31	Rondelle	4	
32	Rondelle frein culasse	4	
33	Tirant moteur	4	
34	Capot protection noir	1	25150872
35	Vis fixation capot	2	
36	Circlips ventilateur	1	25150873
37	Ventilateur	1	25150874
38	Flasque arrière moteur	1	25150875
39	Stator	1	25150876
40	Roulement 6202	1	25150877
41	Rotor	1	25150878
42	Roulement 6204 ZZ	1	25150879
43	Oil sealing	10	25150880
44	Vis fixation capot	2	
45	Vis fixation groupe	4	
46	Rondelle fixation groupe	4	
47	Rondelle frein fixation groupe	4	
48	Ecrou fixation groupe	4	
49	Contacteur manométrique PM	1	25150722
50	Manomètre 0-12 bar -Ø 40 mm -1/8" M	2	25150723
51	Rampe 7 sorties	1	25150724
52	Raccord rapide 1/4" M	2	29380220
53	Soupape de sécurité 1/4" M 8 bar CE	1	25150569
54	Poignée caoutchouc	1	25150881
55	Poignée U	1	25150882
56	Bouchon poignée U	2	25150883
57 à 60	Kit patin + visserie	2	25150558
61	Robinet de purge	1	24351100
62	Vis poignée U	4	
63 à 66	Roue Ø 175 mm + Axe + visserie	2	24220330
67	Cuve 50 litres -8 bar	1	
68	Clapet anti retour	1	
69-70	Tuyau de mise à vide	1	25150887
71	Tuyauterie groupe	1	25150888
72	Cordon moteur	1	
73	Cordon d'alimentation 3 x 1,5 mm ² x 1.8 m	1	25150764
74	Bouchon vidange groupe	1	
	Groupe complet		25137038

DESCRIPTION: Unit

Unit design:

Monobloc, single-cylinder, single-stage unit:

Long-life components

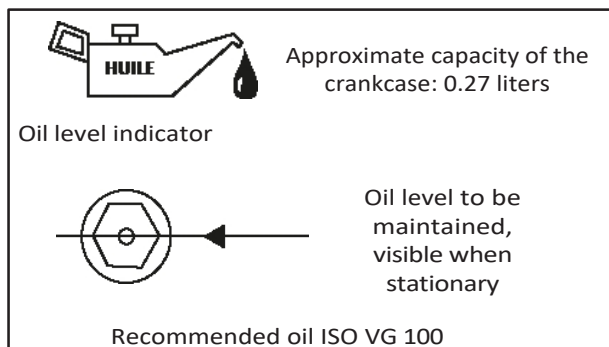
- High-efficiency valves
- Triple segmentation
- Cast iron cylinders
- Aluminum cylinder heads

1 air filter

HOW TO ORDER:

Indicate the exact reference number of the compressor, then the part number of the item to be ordered.

Example: to order cylinder head ref. 27 Cylinder head PCAP50MM13 27



Electrical diagram

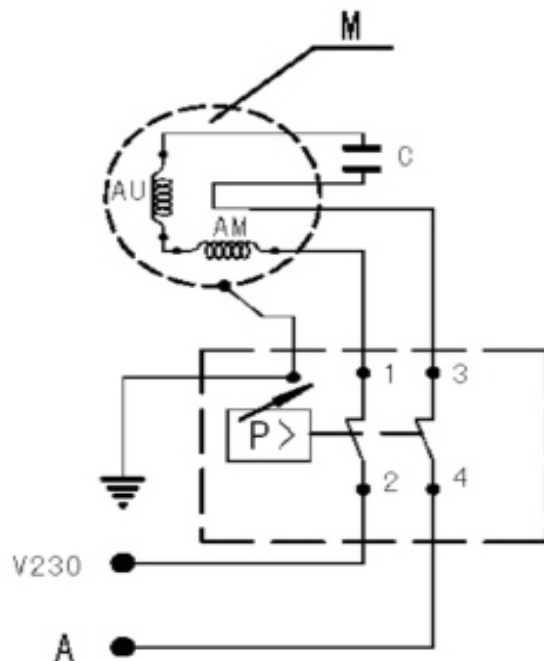
Single-phase

A= Power supply

P= Pressure gauge/pressure switch contactor

1, 2, 3, 4= Capacitor M= Motor

AU= Auxiliary winding AM= Running winding





IMPORTANT PRELIMINARY INFORMATION

The legal and contractual warranty provided by Peugeot Professional Tools is subject to strict compliance with this user manual.



Before using any pneumatic tool, make sure that your compressor is powerful enough for the job at hand. Using tools whose air consumption exceeds 50% of your compressor's air production capacity will cause premature wear and tear on the compressor.

Like any pressurized equipment, a compressor must be used with caution, following all start-up, operating, and maintenance instructions, as well as the safety instructions and warnings contained in this manual. It is essential to read this manual carefully before assembly and installation, use, maintenance, and in the event of minor malfunctions. Keep this manual in a safe place so that you can refer to it at any time. By identifying potentially dangerous situations in good time and observing the appropriate safety instructions, the risk of accidents can be considerably reduced.

Frequent purging of the tank is necessary to limit corrosion, which could weaken it.

This equipment is intended for compressing air only, and no other gas or fluid. Never use the compressor in any way other than that specifically recommended, unless you have first ensured that the intended use will not be dangerous to yourself or others.



Modifying the design of the compressor or working on the compressor beyond the operations authorized in this manual is prohibited. In such cases, the intervention of Peugeot Outils Professionnels authorized service centers is required.



This product must be recycled separately from other waste. At the end of the device's life, take it to an authorized Eco-Systèmes center (waste collection center, etc.) for recycling of its components. It is therefore your responsibility to recycle this electronic equipment waste by taking it to a designated collection point for the recycling of electrical and electronic equipment. The separate collection and recycling of your waste equipment at the time of disposal helps to protect natural resources and ensure recycling in a way that protects human health and the environment. For more information on recycling points for your waste equipment, please contact your local recycling service

or the retailer where you originally purchased the product.

Collection point at www.quefairedemesdechets.fr

RECEPTION - INSTALLATION

Compressor environment:

The compressor must be used in a clean (dust-free) and well-ventilated environment, away from acid and flammable gases. It must be protected from water (rain, water jets, etc.).

The operating ambient temperature is between 0 and 35°C. The humidity level is up to 75%. Keep the compressor in a horizontal position, in a ventilated area that facilitates the intake of air to be compressed, and at least 50 cm from a wall.

Installation:

The compressor must be placed on a stable support to limit vibrations and prevent it from falling: *avoid rigidly fixing it to the floor*, as this would prevent vibrations from dispersing and could cause breakage.

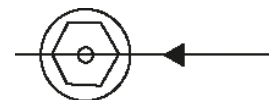
If the compressor is mobile (with wheels) and delivered on a special transport pallet or in a cardboard box, it must be unpacked (and/or removed from the pallet) and assembled with its wheels (and skids, if supplied).

The compressor must be placed at least 3 meters away from the work area to avoid the risk of suctioning in air containing particles (dust, etc.).

Oil level:

Check the oil level. If it is insufficient, top up to the top of the red indicator and ensure that the compressor is installed in a horizontal position for proper lubrication.

Use compressor oil. ISO VG 100



Electrical connection:

Caution: this device is electric and operates under voltage. Any work on the system (pressure switch, circuit breaker, motor, and cord) must be performed with the power turned off.

To disconnect the power supply, you must:

- 1) pushing down the On/Off button on the switch and
- 2) unplugging the power cord (or opening the disconnect switch).

The compressor must be connected to an installation with a ground connection and a differential protection device (against short circuits) as close as possible to the compressor plug so that this protection is effective.

Ensure that these conditions are met and check that the switch button is fully depressed in the off position before connecting the power supply.

Overcurrent protection:

Single-phase compressor:

Single-phase compressors are supplied with a standard male electrical plug.

Your compressor is equipped with an electric motor and appropriate overcurrent protection, with factory settings that must not be modified. The alarm can be reset by pressing the button on the motor contact box.

Caution: they cannot be operated on a 400 V installation.

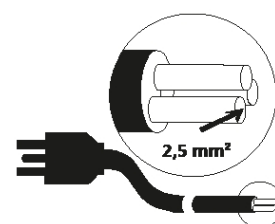
The electrical cable has two conductive wires for the mains and one for the earth. The earth wire is yellow and green and must be connected to the earth terminal of the power outlet.

Cord - Extension cord:

Keep the cord away from areas where it could be stepped on or crushed, away from heat sources or surfaces exceeding 70°C, and away from sharp surfaces. Clean thoroughly if it comes into contact with grease or oil, which can alter the properties of the sheath. Do not leave the cord in an acidic or corrosive environment (e.g., animal excrement).

If an extension cord (less than 20 m long) is necessary, use only standard electrical cables with a cross-section of at least 2.5 mm² to prevent overheating or

voltage loss in the extension cord. To choose the correct cable cross-section, please refer to the table opposite.



Rallonge

Motor power	Cross-section Single-phase
0.736 kW/1 HP	1.5 mm ²
1 kW/1.5 HP	1.5 mm ²
1.5 kW/2 HP	1.5 mm ²
2.2 kW/3 HP	2.5 mm ²
3 kW/4 HP	2.5 mm ²

Always unroll the extension cord completely. In general, it is better to have a longer compressed air hose (25 or 50 m) than a setup based on extension cords.

Always turn off your compressor using the switch (by pushing it down) and only then unplug it, without pulling sharply on the cord.

Always use compressed air hoses or flexible pipes with pressure characteristics suitable for the compressor (50% higher than the maximum pressure of the compressor).
Never use the compressor without connecting it to a tool or its destination system to prevent uncontrolled air release.

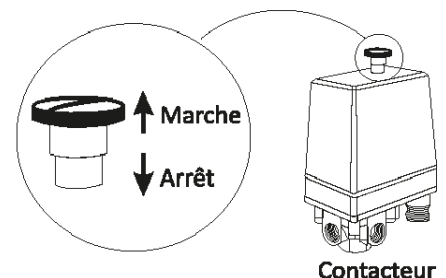


OPERATION

- Never use the compressor for purposes other than those specified by your dealer at the time of purchase.
- Specific uses may require compliance with standards that you are responsible for knowing and complying with (inflation, washing with detergents, painting, etc.). In particular, do not use the compressor with any fluid other than compressed air.
- Regardless of the type of compressor used, the air expelled cannot be completely pure.
- If your system and/or use requires a higher degree of purity, be sure to install the appropriate filtering devices, available from your dealer. In particular, the compressed air produced by this device is not suitable for medical, food, or respiratory use.
- Never direct the jet towards a person or animal. Do not allow anyone who has not been trained in the use of the Peugeot Outils Professionnels compressor to operate it, especially children. Keep them away from the work area while working with the compressor.
- Do not use the compressor when barefoot and/or wet, or with wet hands.
- Never operate the compressor without the flywheel-belt guard securely in place and without the protective covers on the pressure switch and circuit breaker switch closed.

Start-Stop:

To start the compressor, plug in the power cord (or close the disconnect switch), then pull up the on/off button on the pressure switch.



When the compressor starts, the tank gradually fills with air and the pressure increases. When it reaches a shut-off pressure (factory set at 8 bar), the pressure switch automatically stops the compressor.

When air is consumed, the pressure in the tank drops to the restart pressure (factory set between 5 and 6 bar). When this pressure is reached, the pressure switch automatically restarts the compressor. To stop the compressor (possible at any time), push down the on/off button on the pressure switch. To turn off the power or for a prolonged shutdown, be sure to unplug the power cord (or open the disconnect switch).

Any work on the compressor requires the power cord to be unplugged (or the isolator switch to be opened). Set the switch to the off position and unplug the power cord:

- to protect it against power surges in the event of a "power surge" ⚡
- if you want to avoid unwanted restarts a few hours later, when the pressure in the tank has dropped...
- in case of prolonged disuse.

Initial start-up and running-in:

The units undergo testing and a pre-running-in period at the factory.

The compressor continues its running-in period for approximately 15 hours of use, without any specific intervention by the user.

Drain and replace with new oil.

Adaptation to the tool – adjustment of the working pressure

:

To operate an accessory, you need a constant working pressure (indicated in the tool manual).

You must set the compressor outlet pressure to the same level. The adjustment is made at the pressure regulator.

Turn the (red) cap on the pressure regulator clockwise to increase the pressure, and counterclockwise to decrease it.

Check the pressure on the pressure gauge. When the desired pressure is reached, lock the cap using its locking ring (red).



Pressure
regulator

NB: Check that the pressure setting on the pressure regulator is always lower than the restart pressure of the pressure gauge switch. Otherwise, you will not obtain the desired pressure.

Do not use a tool whose consumption exceeds the maximum flow rate delivered by the compressor by more than 50%. Doing so will cause premature wear of the compressor.

NB: *If the compressor is not fitted as standard, you can add one. Contact an authorized service center.*



Noise precautions:

Use ear protection to protect yourself from hearing damage. Noise from equipment used outdoors in accordance with Directive OUTDOOR 200/14/EC -

Procedure: Annex VIII

Guaranteed sound power level: LWA 95 dB (A) Measured

sound power level: LWA 95 dB (A) Measured sound

pressure level: LPA 75 dB (A)



Eye protection precautions:

Air and particle projections can be dangerous to the eyes. Protective eyewear must be worn for safe use. Never point tools, hoses, etc. towards the human body or animals.



Risk of burns:

Certain parts of your compressor, including the cylinder head, cylinder, cooling fins, discharge pipe, copper extension, and check valve, can reach temperatures that may cause burns if touched.

Be sure not to touch them until they have cooled sufficiently.

Do not leave flammable materials or nylon fabrics near or in contact with the compressor.

MAINTENANCE

Caution: Strict adherence to maintenance measures will keep your compressor in good working order. Proper maintenance is also essential for safety, including regular and frequent purging of the tank.

For your safety, any movement of the compressor or maintenance operation must be carried out when the compressor is stopped, disconnected from the power supply, and with the tank empty. The compressor can be moved on its wheels using the handle provided for this purpose.

Draining the tank:

Condensation in the tank is inherent to the normal operation of the compressor. It is therefore essential to drain the tank as frequently as possible and at least once a week to prevent corrosion. In the event of severe corrosion, the tank could crack under pressure and endanger people and property. Draining is carried out by depressurizing the tank and draining any condensate that may be present.

Drainage: Unscrew the drain valve located under the tank.
Collect the condensate, taking care to prevent it from dispersing into the environment. Ensure that it is treated/recycled/disposed of by the appropriate authority. Tighten the nut securely after the operation.

Always check that the tank is empty before unscrewing the drain valve. Never attempt to unscrew it if the tank is still under pressure.



High-pressure air flow can be dangerous: never stand in front of the flow. Never direct the flow towards a person or animal.

Always connect the compressor to an air-consuming tool before use to prevent uncontrolled air release.

Periodically, after draining and before screwing the nut back on, check that the drain system is working properly: restart the compressor and make sure that air is coming out of the drain screw (nut). Then turn off the device and close the screw before putting the compressor back under pressure.

Your tank complies with current regulations. Never tamper with it in any way (welding, etc.). Have the condition of the tank checked by a professional in the event of an impact.



In accordance with current French regulations, the compressor tank must be inspected by a testing organization (APAVE, Véritas, etc.) every 4 years at most and requalified (pressure resistance test) by such an organization every 10 years.

Condensate treatment: do not release condensate consisting of water and oil into the environment. It must be collected by a reprocessing organization.

Draining:

- It is strongly recommended that the oil level be checked regularly.
- Use ISO VG 100 compressor oil. Do not fill the reservoir beyond the top of the

red level: this would result in excessive oil being fed into the system.

- Perform an initial oil change at the end of the break-in period (15 hours of operation).
- Then drain and flush the crankcase every year or every 150 hours of operation.
- Intensive use of the compressor may result in excessive oil consumption. In this case, check the oil level regularly. It is recommended to avoid mixing oils.

To drain the unit:

Using a flat wrench, unscrew and remove the oil level sight glass at the bottom of the front flange. Tilt the compressor forward and drain the used oil.

Once the used oil has been drained from the crankcase, check the condition of the plug seal, then replace the oil plug (screw it in tightly).

For the amount of oil in the crankcase, refer to the description on page 4.

Unscrew the filler cap, slowly pour in the oil, and adjust the amount of oil to reach the correct oil level in the middle of the sight glass.

Replace the filler cap.

Air filter:

A dirty filter reduces the performance of the device. Clean the air filter cartridge frequently using an air gun (always blow from the inside out), at least every 50 hours.

Do not use flammable products for cleaning. If it is too dirty, replace the filter.

Safety valve:

Do not touch the valve. Its setting and operation must not be altered. Ensure that it is working correctly in accordance with the specific instructions supplied with the compressor.

Valves:

Compressor malfunctions are often caused by particles blocking the valves on the "valve plates" located in the compressor head and/or the check valve mounted on the tank. These valves are easily accessible and simple cleaning will ensure that the compressor works properly. Contact an authorized service center.



The non-return valve must be removed when the tank is empty.

Risks associated with freezing

:

If the compressor has been exposed to freezing temperatures, store it in a warm place for a while or heat the pipes to melt any ice that may have formed from condensation. Drain the tank every evening and restart in the morning with the tank empty.

POSSIBLE CAUSES OF MALFUNCTION

The compressor does not start:

- The tank is full.
- The contactor button is not in the ON position and/or the compressor is not connected.
- Voltage too low at the motor terminals, extension cord too long, or insufficient mains voltage.

The device "grumbles" but does not start:

The mains voltage is too low.

Insufficient flow rate:

All of the following procedures must be carried out with the power off, when the unit is cold and the tank is empty.

- Leak in the pipe connecting the unit to the tank: loosen the pipe nuts without removing the pipe, reposition the pipe, and tighten the nuts securely.
- Loose belt, slipping: after turning off the compressor, remove the cover protecting the belt and flywheel, remove the belt, unscrew the motor from the plate, move the motor a few millimeters away from the unit, tighten the motor on its plate, and reinstall the belt. Be sure to reinstall the protective cover before restarting.
- Clogged filter: blow it out or replace it.
- Compressor head valves clogged or worn: remove the head (cylinder head + valve plate) and clean or replace the valves.

Caution: Any disassembly of the head requires replacement of the seals.

- Permanent leak at the contactor when the compressor stops: the check valve is damaged : clean or replace the special rubber disc after unscrewing the check valve head.

Caution: Always switch off the compressor and empty the tank beforehand to avoid accidents

Oil is leaking:

- Worn or damaged piston rings. Contact Peugeot Professional Tools customer service.
- Damaged cylinder. Contact Peugeot Professional Tools customer service.
- At the cylinder head: replace the cylinder head gaskets according to the operating procedure.

Compressor unit blocked:

- Damaged bearings or connecting rod bearings: contact Peugeot Professional Tools customer service.
- Damaged cylinder and/or piston ring(s): contact Peugeot Professional Tools customer service.
- Connecting rod stuck on the crankshaft: contact Peugeot Professional Tools customer service.
- Damaged cylinder and piston rings, as well as a seized connecting rod, are usually the result of a lack of oil.

Excess water in the expelled air:

This condensation is normal and is due to the expansion of the compressed air. If your application requires the expulsion of particularly dry air, we recommend purchasing an air dryer (contact your dealer).

When your compressor trips

:

- "Stop" the compressor at the contactor.
- Wait for it to cool down before restarting it.
- After a few minutes, press the circuit breaker reset button located on the motor or in the contactor box.
- Then restart the compressor at the contactor. If it trips several times in a row, contact an authorized service center.

If you use an extension cord, check that the cable cross-section is sufficient.

Recommended extension cord: 3 x 2.5 mm², maximum length 20 m.



Please note: Any other operation requires the intervention of Peugeot Professional Tools after-sales service centers. Any intervention carried out outside this framework and without new Peugeot Professional Tools parts will void the product warranty.



Warranty

If the machine is covered by warranty, it must be repaired exclusively by an authorized after-sales service center.

The machine warranty is valid for 2 years from the date of purchase by the user. This product benefits from an additional 2-year warranty extension, provided that the user registers the product on the PEUGEOT OUTILS PROFESSIONNELS website ([www. peugeot.outils-pro.com](http://www.peugeot.outils-pro.com)) within 30 days of the date of purchase. This extended warranty is subject to the same conditions as the initial warranty.

Accessories and consumables are not covered by the warranty.

It is important to keep the invoice, which serves as the warranty certificate.

The warranty is limited to the repair or replacement of defective parts free of charge, after evaluation by the manufacturer.

For any requests for information or spare parts relating to the machine, it is essential to provide the exact information shown on the nameplate.

The warranty does not cover damage caused by the user or by a repairer not approved by Tivoly.

Link to the General Warranty Terms and Conditions



**CE A L DECLARATION OF CONFORMITY "ORIGINAL"**

The undersigned (Manufacturer/Importer):

TIVOLY
266 ROUTE PORTES DE TARENTEISE 73790 TOURS-EN-SAVOIE

Declares that the following new machine:

Designation: PISTON COMPRESSOR
Brand: PEUGEOT PROFESSIONAL TOOLS
Model: PCAP50MM13
Reference: PPC00100010
Serial number:

Complies with applicable harmonized legislation:

NF EN ISO 12100 Safety of machinery - General principles for design - Risk assessment and risk reduction (November 2010),
NF EN 1012-1 Compressors and vacuum pumps: Safety requirements (December 2010).

Complies with the essential safety requirements applicable to it:

Machinery Directive (2006/42/EC), Low
Voltage Directive (2014/35/EU)
Simple Pressure Vessels Directive (2014/29/EU), Electromagnetic
Compatibility Directive (2014/30/EU), OUTDOOR Acoustics
Directive (2000/14/EC),
Motor Ecodesign Directive 640/2009, ROHS2
2011/65/EU

Done at TOURS-EN-SAVOIE

The

Stéphane Le Mounier
Managing Director

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