



Seagow Compressor

USER MANUAL

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V 1.0 from 18th July 2018 (check if this is the updated version and the tutorials on www.seagow.com !)

Preamble

Thanks for choosing Seagow, you are now free to breathe under water with your own tank that you refill by yourself. Seagow products are made and designed with the collaboration of beginners and experienced divers.

Please, always be sure that the product is used according to the conditions described in this manual. No matter who the user is, ensure the products are used safely.

Seagow can not be taken as responsible of any material or physical accident in case of non respect of the delivered instructions.

Seagow retains the right to change or to improve the manual without warning. Please get to know the current version during the use of the product.

Keep this user manual during the life of the product. You can also find it on the website www.seagow.com.

The end of particular paragraphs contains the mention "WARNING" to underline a specific situation which must be taken into consideration to prevent a risky situation.

To bring its Seagow Compressor on plane (in the checked baggage), the compressor must be empty, it must not be pressurized, it will be asked you to empty the water and the oil too. Before going to the airport, empty the oil tank and keep it in a sealed container. You will put the oil back into the compressor before the next use.

Table of contents

- 1. Content of the box**
- 2. Warnings**
- 3. Technical features**
- 4. Getting start with the Seagow Compressor**
- 5. Filling with Seagow Compressor**
- 6. Dangers and security instructions**
- 7. Repairing**
- 8. Storage**
- 9. Filtration and maintenance**
- 10. Warranty**
- 11. Norms and regulation**

You can find more information about how have fun with your Seagow and how use / maintain your equipment on our Youtube channel : youtube.com/seagow

1. Content of the package(s)

- 1 high pressure compressor with its carrying handle
- 1 protection case (to screw on the Seagow Compressor)
- 1 power cable (for Seagow Compressor)
- 1 power cable (for water pump)
- 1 flexible hose with its filter cartridge and its DIN connection
- 1 water pump
- 2 flexible hoses for the water pump
- 1 bag of molecular sieve (about 10 uses)
- Spare parts

Pls note that the following item aren't included in the Seagow Compressor box :

- 1 oil can
- 1 bag of filtering active coal

These 2 items are supplied separately

2. Warnings

- The Seagow Compressor can fill tanks of 1 liter maximum at 300 bar (4500 psi) maximum in one time
- **Make a bottle check (re-proof in a diving center) regularly**
- **A use without the awareness of the security rules endangers the user**
- No assembly, disassembly or setting can be done by the user, except the ones provided for this purpose
- A part or an element of the Seagow Compressor should not be used on an other device, otherwise the guarantee could be cancelled and the users could endanger themselves
- You must be more than 18 years old to use the Seagow Compressor
- Never grease the parts of the equipment, it can lead to the deterioration of the equipment and of the leakproof seals
- Always use the Seagow Compressor on a surface which is totally flat, horizontal and stable
- Do not expose the Seagow Compressor to the sun for a long time
- To ensure a good security during the filling time, always manipulate the equipment with care
- The user must ensure that he is reading the good pressure unit on the manometer, 3000 psi max for the Seagow 200 and 4500 psi maximum for the Seagow 300
200 bar = 3000 psi and 300 bar = 4500 psi

3. Technical features

- Power : 1800 W (>10 000 W to start)
- Maximum operating pressure : **300 bar (4500 psi)**
- Service temperature: +10 °C (50 °F) / +35 °C (95 °F)
- Empty weight : 16,4 kg
- Size (L x l x h) : 37 x 18 x 33 cm
- Alimentation voltage : 220 V / 50 Hz (European version) 110V / 60 Hz (American version)
- Average flow (without filtration) : 50 L/min
- Cooling system : pure water
- Oil : Alimentary - specific to high pressure compressor

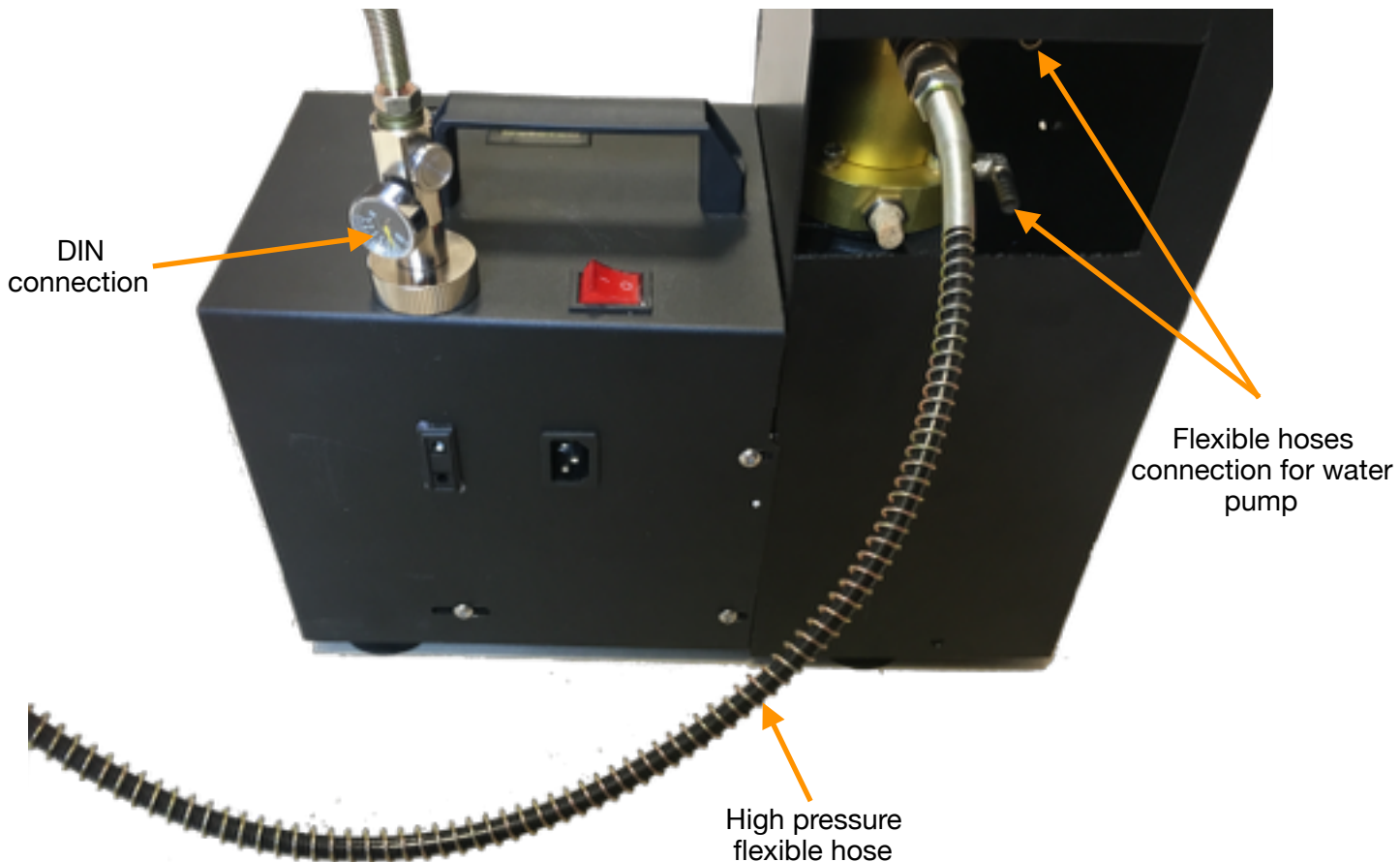
4. Getting start with the Seagow Compressor

- Get out of the box the Seagow Compressor, put it on a horizontal flat surface and ensures you that the compressor does not present any visible defect due to the shipping, notify the carrier if this is the case
- Unscrew the tap of the oil tank and introduce the oil which is supplied by Seagow, the bottom of the meniscus which indicates the oil level, has to be just above the red point
- Close the tank with the cylindrical tap, **wait for 10 min**, during that you can do the following operation
- Put the protect case on the compressor and fix it with the screws provided in the box
- Connect one flexible hose of the water pump to the water enter of the compressor and connect the other flexible hose at the water exit of the compressor, the way of connection does not matter (please see the picture below)
- Put water in a tank (not supplied, you can use a bucket) and place the water pump into the water tank, the water pump has to be totally immersed in water, use at least 3 liters (0.8 gallon)
- Place the second transparent flexible hose in the water tank
- Connect the high pressure flexible hose HP to the output located next to the flexible hose

- **Make sure that the ON/OFF button is in the «OFF » position**
- Plug the Seagow Compressor and the water pump with the power cables
- Once plugged, only the water pump must be working, make sure that there is a flow of water at the outlet of the hose in the water tank

WARNING

- **The oil used must absolutely be the supplied one (specific for Seagow Compressor)**
- **The pump must work with cold freshwater, otherwise it can damage the motor**



5. Filling with Seagow Compressor

- **The Seagow Compressor connected to the Seagow 200 should not be pressurized over 200 bar (3000 psi). The person in charge of the filling to make sure of this and stay next to compressor during the filling.**
- **The Seagow Compressor connected to the Seagow 300 should not be pressurized over 300 bar (4500 psi). The person in charge of the filling to make sure of this and stay next to compressor during the filling.**
- **The person who refills the scuba tank is responsible for the quality of the compressed air**
- **If there is a difference between the pressures displayed by the DIN connection and by the manometer of the scuba tank, take into consideration the higher pressure value**

Before the filling

- Place the Seagow Compressor on a flat surface, check general states of the compressor and the Seagow with a visual inspection, make sure that the compressor has correctly been stored. In case of doubt, wait for 10 min before plug the compressor in order to let the oil come back to the bottom of the engine
- **Please make sure that the scuba tank is empty or has a low pressure**
- **Change the molecular sieve and the active coal filter in the cartridge**
- Check that the flexible hose is free and without any tense
- Make sure that the thermometer probe is inside the compressor cylinder inlet
- Make sure that the temperature of the Seagow is less than 40 °C (104 °F), if it is more than this value, change the water of the tank
- Turn on the water pump and make sure that flexible hoses are not folded or obstructed

- Please make sure that the oil level is correct, otherwise add oil on a flat surface
- Please make sure that you will not be annoyed during the filling time to stop it once the filling is over

WARNING

- **Make sure you read the good unit on the manometer between bar and psi (200 bar = 3000 psi; 300 bar = 4500 psi)**

To begin the Seagow 200 / 300 filling, respect the following instructions

- Unscrew the first stage regulator from the tank valve
- Screw the DIN connection of the Seagow Compressor to the tank valve
- Make sure that the valve of the Seagow 200 / 300 is completely open, then make a quarter turn backwards (do not let the valve reaching the stop)
- Fix the Seagow tank to the protect case thanks to the scratch tape at the bottom
- Put the ON/OFF button of the Seagow Compressor in position « ON » to start the filling

During the filling

- **Always stay next to the compressor during the filling**
- Do not rotate pressurized elements (except elements provided for that purpose)
- **Often check the pressures displayed by the DIN connection**
- **Put the ON/OFF button in the « OFF » position when the max pressure is reached, maximum 200 bar (3000 psi) for the Seagow 200 and 300 bar (4500 psi) for the Seagow 300**

WARNING

- **Be aware of any dysfunction (leak, abnormal noise...)**
- **The displayed temperature on the compressor must not be upper than 80 °C (176 °F), otherwise put the ON/OFF button in the « OFF » position and let plugged the water pump**
- **To avoid any burn risks, do not touch the compressor except elements provided for that purpose**
- **In case of suspicion of any leak or dysfunction, put immediately the ON/OFF button of the compressor in the « OFF » position**
- **When the compressor is working, the water pump must always be submerged**

After the filling

- Close the tank valve
- Open **slowly** the pressurized air circuit with the decompression valve on the DIN connection
- Disconnect the Seagow tank from the compressor, for that, unscrew the DIN connection from the tank valve
- Let the voltage applied few minutes in order to let the water pump in working
- **Change filters from the cartridge**
- You can change the water of the container in order to make faster the cooling of the compressor. The water pump must always be submerged

WARNING

- **To avoid any burn risks, do not touch the compressor except elements provided for that purpose**

6. Dangers and security instructions

- Stop the compressor (OFF position) after 10 minutes of continue working (let the water pump run), let the compressor cooling for 20 minutes before re-start
- In case of impact, the equipment may have been damaged without present any visual damage, in case of doubt contact your dealer
- **If you do not change the filter after 10 minutes filling, it can cause a deterioration of the quality of the pressurized air and affect the health of the user**
- It is totally forbidden to change the placement of the parts or to modify any feature of the compressor, except elements provided for that purpose
- Do not integrate Seagow Compressor's elements on another diving equipment or vice versa
- The compressor must not be in contact with water, except the water pump, otherwise unplug the compressor and let it dry during 48 hours minimum

7. Repairing

During repairing manipulations, the compressor must not be powered or pressurized, for that unplug the power cable and push the decompression valve of the DIN connection.

8. Storage

- Remove the water from its tank and let dry the water pump
- Before a long time storage, remove filters from the cartridge
- Place the compressor on a horizontal surface
- Do not store the products next to gas, oils and chemical products
- Do not store the products in a dusty or sandy place
- The flexible hose must be free of any stress
- Store the compressor, the active coal filters and molecular sieves in a dry place, protected from light between +5 °C (41 °F) and +35 °C (95 °F)
- The good functioning and the good preservation of your device do not depend on its frequency of use, a bad storage may damage its working

9. Filtration and maintenance

- **Filters must be changed every three complete fillings maximum, otherwise you will degrade the quality of the compressed air along with the health of the user(s)**
- The filters are composed in a mixture between the coal filter and the molecular sieve. **You have to put half coal filter and half molecular sieve in the blue cartridge**, without disturbing the cartridge locking
- **Throw out the active coal filter after its use - choose the recycling bin**
- You may re-use the molecular sieve which has ever been used heating it to 50 °C (158 °F) during 20 minutes (in an oven for example), once maximum
- **Change the oil of the compressor after 50 uses or if the oil has darkened**, unscrew the oil tank tap in order to remove the oil - **choose the recycling bin**
- Use the specific Seagow oil and Seagow filters, necessary for the good working of the equipment and for the air quality
- Replace the water of the container as much as possible with cold freshwater, every 10 uses maximum
- If the surpression disc is triggered, remove the protect case, unscrew the screw on the top of the compressor, change the metallic disc then put back the screw, you can find spare burst discs in the spare parts package
- Prefer the replacement of a defective part by a original part
- Do no attempt to repair an element by yourself (except elements designed for that purpose)
- Do not forget that your security and the good working of your device is linked to its maintenance
- In case of suspicion of a dysfunction, unplug the compressor and contact your dealer

10. Warranty

- The equipment is guaranteed for one year starting from the date of purchase of the products
- The guarantee is only valid for the first owner of the equipment
- In case of claim for guarantee, you must have a proof of purchase delivered by your dealer
- This guarantee is only valid for « defective » pieces due to a manufacturing fault
- A non-followed maintenance can engender a guarantee cancellation
- The guarantee does not cover the damages caused by a faulty use or by carelessness like it is said in this present document
- The guarantee does not take in charge the « normal » use of the products
- The guarantee is invalidated if the equipment has been disassembled in a different way from this guide
- In a case of modification of the product by a qualified person, he or she undertakes the responsibility of the repairs/ changements done on the product
- The guarantee is available for the repair or the replacement of a piece by Seagow, the freight charges and the packing costs are on the buyer
- The exchanged pieces are Seagow's goods, these new replaced parts cannot extend the guarantee of the product in any case
- The responsibility resulting from the sale is limited to the described guarantee above. It excludes the possibility to use penalties, damages and interests
- The rules is apt to change according to the territories at a later writing date of the manual, an adaptation can be necessary

- Every modification of the product involves the loss of the guarantee and can involve risks during the use
- Do not interchange the pieces between other equipments or your guarantee can be cancelled
- To benefit from the guarantee, please contact your dealer

12. Norms and regulation

- The Seagow Compressor is certified CE under 2006/42/EC (Machinery) and 2014/35/EU (Low voltage) directives, US standards are applied for the specific 110 V North America models
- Other norms or rules may be applied for certain areas, including some in the European Union