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LCD HIGH PRESSURE AIR COMPRESSOR  
MANUAL

RESEARCH | DEVELOPMENT | PRECISION  
#IAMWULF

## INTRODUCTION

Please follow the instructions when operating this compressor. It will allow you to fill your storage reservoirs or air cylinders easily. Please read the manual very carefully before use. Any damage or injury resulting from misuse or incorrect handling is the sole responsibility of the owner and/or operator.

For your own safety and the safety of others, carefully follow the warnings & important information below.

### Warnings & Important Information

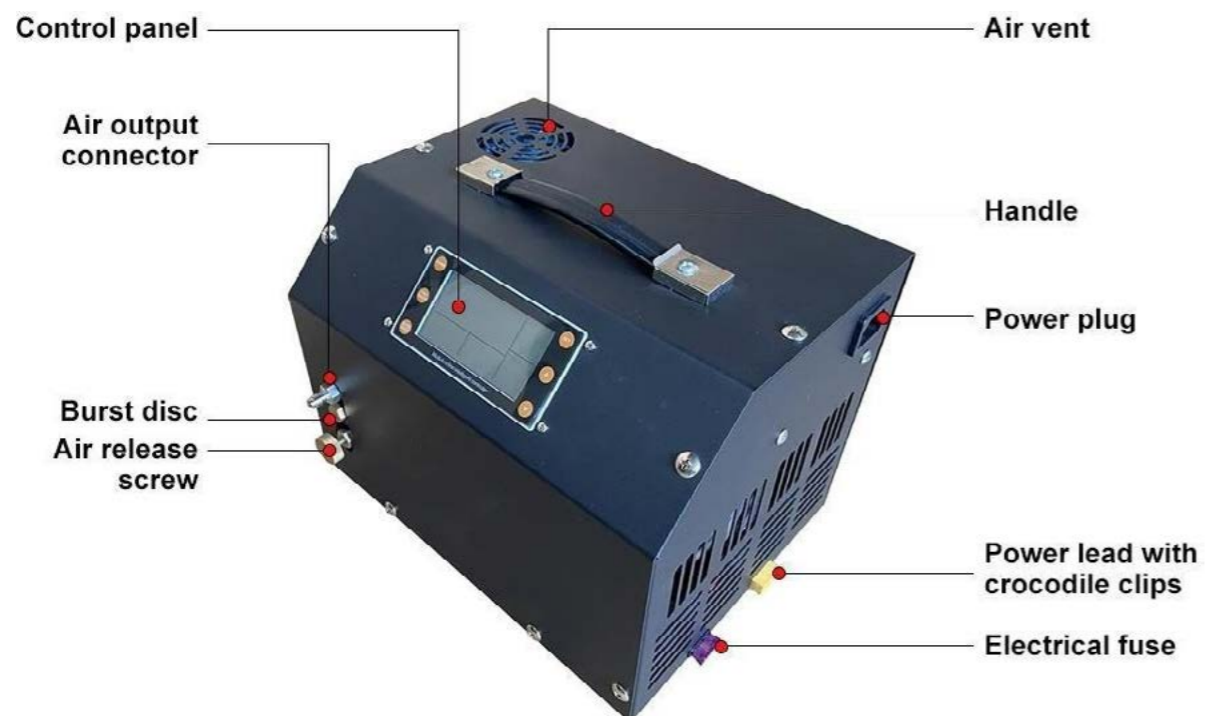
1. Please use in a well-ventilated area. Do not operate in an area where liquid contaminants can be drawn into the compressor.
  2. Do not operate near places with smoke or open flame.
  3. This compressor generates pressurized air; it will cause heat and noise. Gloves, hearing protection & safety glasses should always be worn during use.
  4. The compressor should only be dismantled by a competent technician; or serious damage/injury may be caused to you or others.
  5. Improper disassembly and reassembly will result in leaks, damage, and may void your warranty.
  6. Never attempt to dismantle any portion of this compressor when it is pressurized or is hot after running.
  7. This compressor is designed to produce dry compressed air only. Do not attempt to feed other gases or pressurized air through for compression. No other gas or gas combination can be used.
  8. Do not operate above 176°F / 80°C. Long time continuous running is not suggested as it will cause the temperature to rise. As a result, this could cause parts to become damaged and the machine life could be shortened.
  9. Check the compressor voltage meets your local power supply
  10. Make sure the power cord is undamaged before use (No wear and tear or heat damage)
  11. Do not operate air compressor with the shell removed
  12. Keep eyes on the compressor when it's running, do not let the compressor overfill.
  13. Failure to follow instructions and heed warnings may result in damage and serious injury.
- **DO NOT OVERFILL, DO NOT fill the pressure above 4500PSI/300Bar/30Mpa.**
  - **DO NOT FILL ANY DIVE BOTTLES. Recommended 500cc max fill capacity.**
  - **OVER OILING CAN JUST BE AS DETRIMENTAL AS UNDER OILING.**

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#IAMWULF

## SPECIFICATION

SKU	WU2010
Voltage	12V/ 100-130V to 12V / 210-240V to 12V
Weight	7.7 KG
Working Pressure	4500PSI /30Mpa /300Bar
Cooling system	FAN COOLING
Charging Rate	20MIN /0.45L TANK
Motor Power Rating	300W
OEM	YES
Certification	CE
Size	27 x 21 x 20cm
Warranty	2 years



## ASSEMBLY / OPERATIONS INSTRUCTIONS

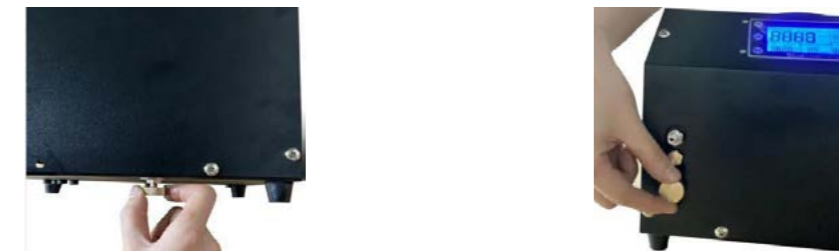
1. Connect the power cord to the converter, connect the converter to compressor. There is one switch inside, turn left is 110V, right is 220V.

You can double check it meets your local power supply.



Important: Make sure the converter is matching your local power voltage.

2. Tighten the screw below the compressor. Install the hose and tighten the release valve.



3. Connect the compressor filling hose to the air tank or other devices.

4. Turn on the power first, press the fan on and let the fan run for around 2 minutes. Then turn on the motor.



**IMPORTANT:** Fan must work first, then the compressor. If not, any damage or injury occurs is the sole responsibility of the owner and/or operator.

5. Turn off the compressor when the desired pressure is finished.

**Note:** Leave the compressor fan running for around 2-3 minutes.

6. Turn off the fan.

7. Disconnect the fill hose from your tank/air cylinder.

## ASSEMBLY / OPERATIONS INSTRUCTIONS

The other way of operating the compressor is by the following method:

### 12V Battery / Car Driven

1. You can use 12V battery to drive this compressor. Be sure the voltage is around 12V.
2. If you are using the car engine operation, connect the compressor to the car battery using the cables provided. The car battery must be a 12V-DC power source. Red connects to the positive (+) terminal and black connects to the negative (-) terminal. When connected correctly, the compressor fan will start automatically. Otherwise the cooling fan will not work, which will cause the machine to be damaged at high temperature.
3. Connect the compressor filling hose to the air tank or other devices.
4. Turn on the compressor fan by pressing the fan button. Let the compressor fan run for a while.
5. Turn on the compressor.
6. Turn off the compressor when the desired pressure is achieved. Let the compressor fan run for around 2-3 minutes to allow the compressor to cool down.
7. Turn off the fan.
8. Separate the tank or other devices from the compressor.



## CHECK BEFORE USING

1. Tighten the air release valve at the side and the bottom of the compressor.



2. Tighten the air outlet adaptor to the female connector.



3. After connecting the air outlet to the filling hose connector, check the 3 connectors indicated below. Spray soapy water to these adaptors to see if it has air leaking when air charging. You can hold a very soft tissue close to the connectors to see if the tissue is swaying by the high pressure air. Tighten to the connectors if you see the bubbles or swaying tissues.



4. Connect the test plug to the filling hose, make sure to tighten it.



5. Place the filling hose with blue filters into a water tank. Check if any bubbles appear in the water tank. Pay attention to the 3 connections. Tighten them right away when you see bubbles in the tank.

**Note:** You can connect the blue filter to the air output connector side. You must check the connections before air charging to avoid the latter problems.

## LCD CONTROL PANEL OPERATION AND CALIBRATION



1. Power button: Press the button lightly and it will turn on the panel. The screen will turn blue at the same time.

**Note:** You need to turn on the device when setting parameters, otherwise other key settings will be invalid.

2. Fan (FAN ON/OFF) button: After turning on the machine, press the button lightly to start the fan.

**Note:** If the motor (MOTOR ON/OFF) button is still in shut off status, the fan will stop after 5 minutes.

3. MOTOR (MOTOR ON/OFF) button: After turning on the power, press the motor button to run the compressor.

**Note:** If the fan is not operational when the motor is running, the display will flash red and green to remind you to turn on the fan.

4. Set button (SET): Press and hold the set button (SET) for 5 seconds after turn on the power button.

I. The working pressure grid pressure unit conversion flashes (default is BAR), press and release the up and down arrows to change the displayed units of pressure between BAR and PSI. Press the SET button to confirm.

II. Press the SET button again to set the pressure you want, when the pressure value flashes, press and release the up and down arrows to adjust the pressure data, then press the SET button to confirm.

**Note:** Increase and decrease every 10BAR/145PSI. (This unit matches the working pressure data)

III. Press the setting button again, the current value flashes, set the shutdown max limit current, press and release the up and down arrows to adjust the current 0-50A, the default is 42A (Every 2A increasing and decreasing)

IV. Press the set button again, the temperature unit flashes (default is °C), press the up and down keys to adjust it (°F/°C), press the set key to confirm.

V. Press the set button again, the temperature value flashes, set the shutdown upper limit temperature, press and release the up and down arrows to adjust. (The compressor will shutoff at 80 °C by default), press the set button to confirm. At this time, all the displays on the screen are not flashing, which means the setting is complete.

5. Up Arrow: Used to make the number value increase when setting after power on. Continuously press for 5 seconds to enter the real-time pressure calibration function. After entering, the working pressure bar flashes, press the up and down keys to calibrate the real-time pressure.

6. Down Arrow: Used to make the number value decrease when setting after power on. Continuously press for 5 seconds to enter the sensor pressure zero function. After entering, the pressure in the working pressure bar returns to zero, and press the set key to confirm. When the compressor reaches the set pressure, the compressor will be turned off automatically and the screen will turn red.

## LCD CONTROL PANEL OPERATION AND CALIBRATION

V. Press the set button again, the temperature value flashes, set the shutdown upper limit temperature, press and release the up and down arrows to adjust. (The compressor will shutoff at 80 °C by default), press the set button to confirm. At this time, all the displays on the screen are not flashing, which means the setting is complete.

5. Up Arrow: Used to make the number value increase when setting after power on. Continuously press for 5 seconds to enter the real-time pressure calibration function. After entering, the working pressure bar flashes, press the up and down keys to calibrate the real-time pressure.

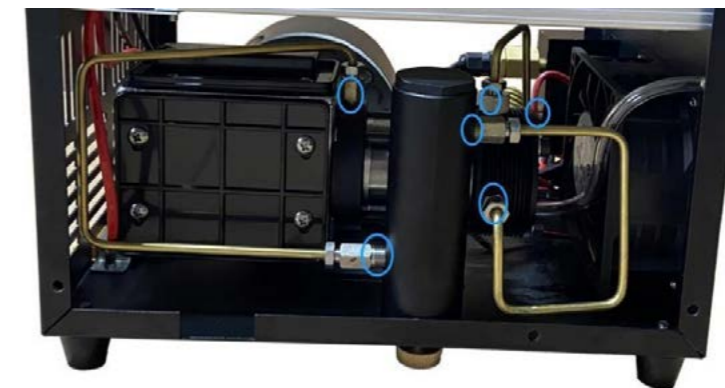
6. Down Arrow: Used to make the number value decrease when setting after power on. Continuously press for 5 seconds to enter the sensor pressure zero function. After entering, the pressure in the working pressure bar returns to zero, and press the set key to confirm.

When the compressor reaches the set pressure, the compressor will be turned off automatically and the screen will turn red.

## MAINTENANCE

After the compressor has been operated 40 times, it is highly recommended that appropriate and regular maintenance is undertaken to prolong the performance and lifespan.

1. Clean the 6 connections below, this is to reduce the chance of malfunctioning.



2. Replace the filter cotton core inside, extra cotton fillers are provided.



## MAINTENANCE

3. Drain the waste oil and water from the oil drain valve. Do this each time to make sure the compressor is not in load status.



4. Locate the lubrication hole on the left side of the unit. Apply 2-3 drops of silicone oil (such as 100% Silicone Treadmill Lubricant) every 5 fills or 1.5 hours of use (whichever comes first).



## TROUBLESHOOTING

### Compressor will not start:

(1) Electrical connection failure#(2) Fuse broken or fuse burning

#### Resolution:

- (1) Make sure the power converter is plugged into a functional electrical outlet and make sure the power converter is properly plugged into the compressor.
- (2) Change the fuse.

Note: If using the 12V battery, make sure the jumper cables are properly connected.

### Compressor cannot reach a high pressure



## TROUBLESHOOTING

- (1) Air leaking
- (2) Seal balls problem

#### Resolution:

- (1) Check all joints, connections, and screws to see if there is air leaking.
- (2) Change the seal balls inside.

### The air pressure is rising slowly or can not reach 200Bar

- (1) Air leaking
- (2) Second piston rings worn out
- (3) Check valve problem

#### Resolution:

- (1) Check all joints, connections, and screws to see if there is air leaking.
  - (a) Check the air tube to see if air escape from it, especially where the tube bends.
  - (b) Check the filling hose filter connections, tighten if required.
  - (c) Make sure the air release screw is tightened.
- (2) Replace the second piston rings
- (3) Clean the check valve, especially the connectors. Change the corresponding check valve.

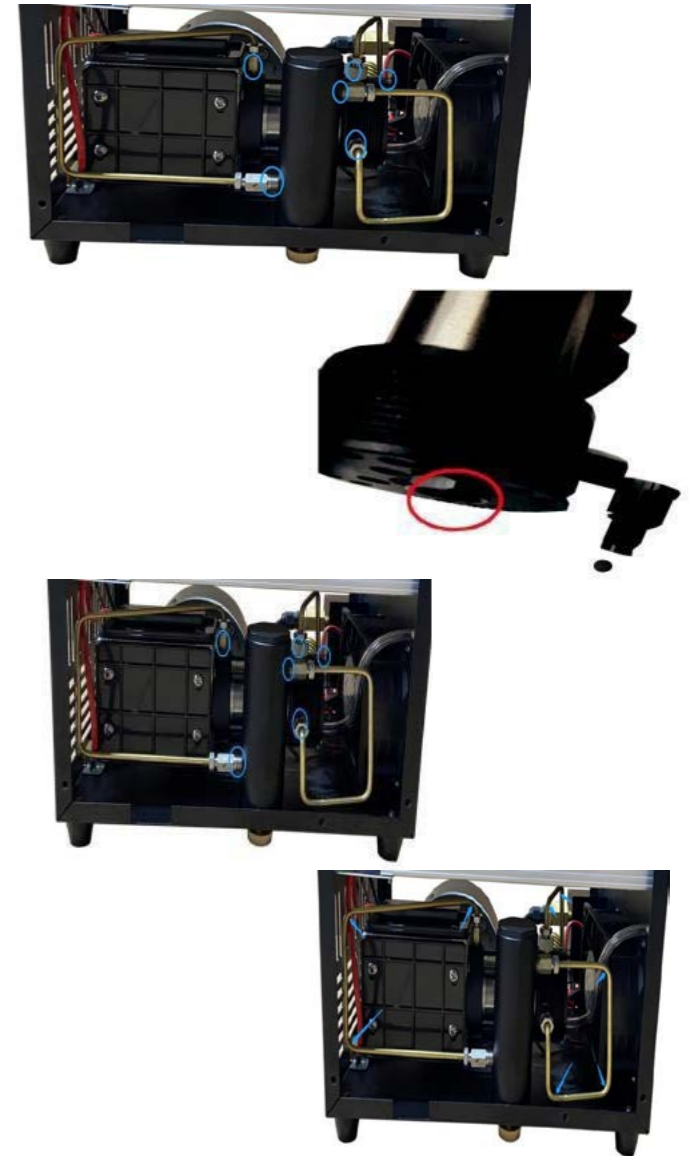
### Operating temperature too high

- (1) Operating time exceeded or bad ventilation
- (2) Fan rotary direction

#### Resolution:

- (1) Do not let the compressor continuously work, cool the compressor if it is hot.
- (2) Fan should be in the right rotary direction in good ventilation conditions.

Any other problems, please contact our after-sales service for help.



# WARRANTY

## 2 Year Limited Warranty

Our Compressor is manufactured to the highest possible standards, using quality materials to give a lifetime of service. However, we know that on the rarest of occasions things can go wrong which is why we offer the WULF Titanium Warranty on all our products under normal use. In the unlikely event that there are any defects in materials or workmanship in the 2 years after purchase, we will replace the defective items under warranty if used correctly.

### What Is Covered:

- Repairs required due to manufacturing defect
- Transportation charges to consumer for repaired product

### What is NOT covered?

- (1) Any damage or faults caused by abuse or failure to perform normal maintenance.
- (2) Shipping damage or damages resulting from drops, impacts, or natural disasters
- (3) Any component that has been modified in any way
- (4) Parts subject to normal wear and tear.
- (5) Has been fitted with non-standard factory parts.

**Note: Provide original record of purchase for warranty service**

### Warranty Claims:

Contact our after-sales staff directly at [info@wulfoptics.com](mailto:info@wulfoptics.com)



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