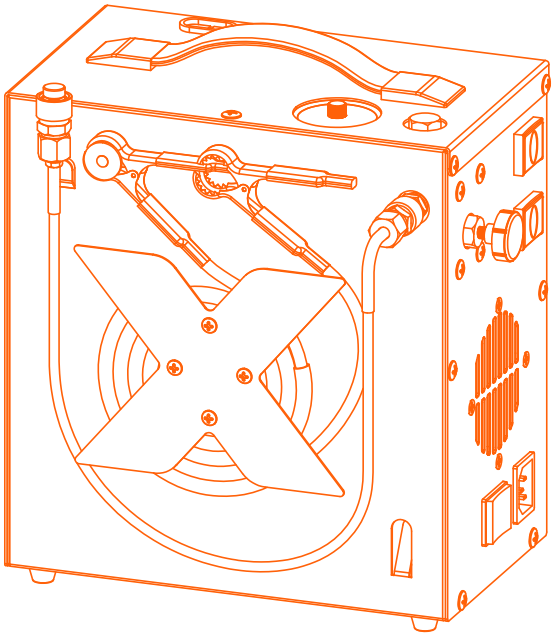
SMACO®

Model: HEAP 1



AIR COMPRESSOR USER'S MANUAL

Please Read Instructions Carefully Before Use

LANGUAGE CATALOG

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01 PRODUCT INTRODUCTION

1.1 THANK YOU FOR PURCHASING SMACO PRODUCTS

The manual is prepared for the operators of SMACO air compressor “HEAP 1”. The basic operations of the air compressor are introduced herein. Please read the manual carefully before using the machine to guarantee correct and proper usage.

• Any of the contents in the manual may be modified without further notice;
• We have done our utmost to make the manual accurate, but any uncertainties or mistakes may exist. Please feel free to contact us if you find any of such uncertainties or mistakes;
• Some products specified herein may not be included in the equipment you have purchased.

1.2 PRODUCT DESCRIPTION

• Working pressure: 0-310Bar (0-31MPa) It can achieve accurate automatic stop and control, guarantee all pressures are accurate and consistent;
• Oil-free design, clean and pollution-free;
• Air cooling is used, no need to equip water cooling;
• Long service life, low maintenance rate;
• Low noise and low vibration, and an oil-water separator is equipped;
• Premium quality, space-saving, easy transport and storage.

1.3 TECHNICAL PARAMETERS

Model	HEAP 1
Power	250W
Operating voltage	DC 12V-15V
Motor speed	2700 r / min
Air output	11 L/min
Dimensions	24cm×22cm×25.6cm
Weight	9.7 KG
Maximum working pressure	310bar
Maximum current	25 A

2.1 Intended purpose

The product is intended for no purposes other than filling compressed air

2.2 Disassembling is prohibited

Disassembling may result in failures or electric shocks. Except for those parts that can be disassembled, it's not allowed to disassemble any other part. Please contact us immediately if any failure is found. Don't repair it by yourself to avoid dangers.

2.3 Confirming input voltage

If AC power supply is used:

First of all, confirm whether the input voltage for the machine is consistent with local supply voltage (remove the voltage shifter dust cover at the top for confirmation, see the first item on page 7 for details). Make the input voltage consistent with local supply voltage if they are inconsistent. A short circuit or fire may be caused and the machine may be damaged in case incorrect input voltage is used.

If DC power supply is used:

Be sure to connect the red wire to the positive pole and the black wire to the negative pole.

2.4 Power cable:

If the power cable is damaged, please use those with the following specifications for replacement. A fire or damage may be caused if an incorrect power cable is used. Note that the machine is level-I protection, so it must be connected with grounding terminals.

For areas with supply voltage of 100 – 120V:

UL certified, three-core cable (one is ground wire), American wire gauge No.18, maximum length: 3m, minimum rated voltage: 125V.

For areas with supply voltage of 220 – 240V:

Conforming to EU/EN and 3C standards, three-core ground cable, maximum length: 3m, minimum rated voltage: 250V.

2.5 Avoiding electric shocks:

- Don't unplug or plug the power plug with a wet hand to avoid induced current or electric shocks.
- Be sure to turn off the power switch ("O" position) before unplugging or plugging the cable to prevent electric shocks.

03 PRECAUTIONS

3.1 Overheating

• The recommended air inflation period is less than 30 minutes otherwise the internal parts may be damaged as a result of overheating.

• Please turn off the machine immediately after air inflation is finished, and make the cooling fan work for 2 – 4 minutes before it is turned off.

• When the machine is operated, the thermovent and air inlet of the fan should not be completely blocked.

3.2 Stabilizing the machine during operation

The machine must be placed at a stable place, and the surroundings should be clean, dry with good ventilation.

3.3 Don't turn off the air inflation switch by unplugging

For the operation may damage the internal circuits.

3.4 In case abnormal sound is heard during operation, the machine should be turned off immediately

For troubleshooting otherwise the machine cannot work properly, or it may have any more serious failure.

3.5 High temperature, high humidity, and acid-soluble oil, basic oil, insecticides, harmful gases, and other easily absorbed substances should be avoided during operation

Prevent them from damaging internal components or affecting air inflation quality.

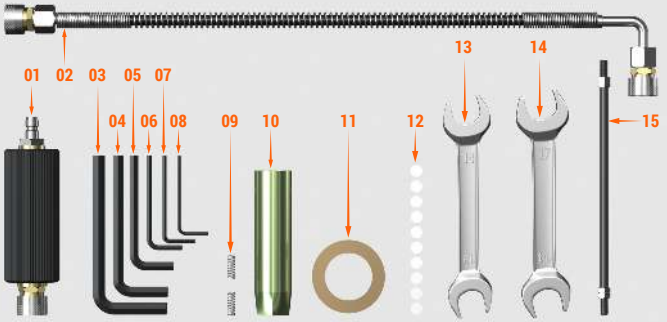
3.6 When the machine is unattended or not used, the power supply should be turned off and the power plug should be unplugged

Avoid accidents resulting from electric circuit failures

3.7 Stored in room temperature to avoid humidity

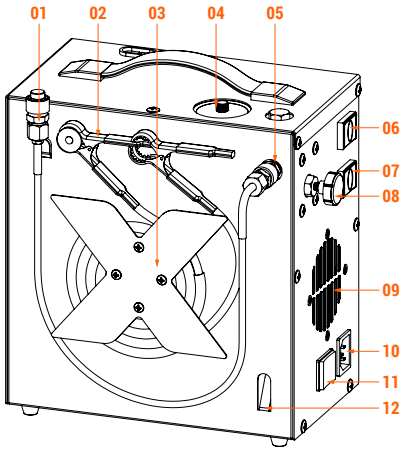
The internal parts of the machine may be subject to oxidation if it is in humid conditions for an extended period, making the machine fail to work properly. More seriously, failures like electric leakage, short circuit may be caused.

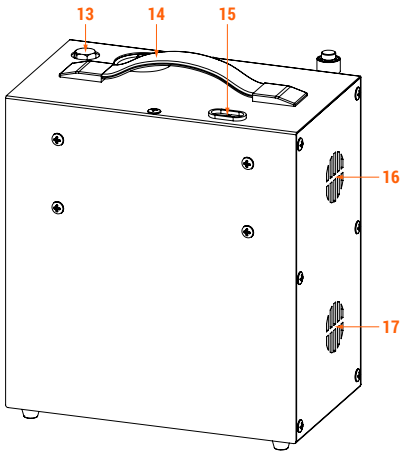
04 LIST OF ACCESSORIES



NO	NAME OF PARTS	QUANTITY
01	Oil-water separator	×1
02	360° air inflation extension pipe	×1
03	7mm hexagon wrench	×1
04	6mm hexagon wrench	×1
05	5mm hexagon wrench	×1
06	3mm hexagon wrench	×1
07	2.5mm hexagon wrench	×1
08	2mm hexagon wrench	×1
09	Spring	×2
10	19mm socket spanner	×1
11	First-level piston ring	×1
12	Anti-explosion diaphragm	×10
13	#12-14 spanner	×1
14	#14-17 spanner	×1
15	Pull rod	×1

05 PRODUCT STRUCTURES AND THEIR NAMES





NO	PART NAME
01	360° air inflation extension pipe
02	Vehicle power supply alligator clip
03	Wire spool
04	Pressure Gauge
05	8mm air inflation inlet
06	Start button
07	Stop button
08	Pressure relief valve
09	Thermovent
10	Power cable port
11	Power switch
12	Blow vent
13	Explosion-proof valve
14	Plastic handle
15	Voltage shifter dust cover
16	Thermovent
17	Thermovent

06 OPERATION INSTRUCTIONS OF HOUSEHOLD POWER SUPPLY

6.1 First of all, make the voltage of the machine consistent with local supply voltage (1). And correctly connect the power cable and plug the power plug (2).



(1)


(2)

6.2 Loosen the pressure relief valve (1), and correctly connect the 360° air inflation extension pipe of the oil-water separator to the object to be inflated (2).



(1)


(2)

6.3 Adjust the rotary knob on the surface of the pressure gauge (1), adjust the pointer to the required pressure, and the maximum pressure shall be no larger than 310bar (2).


(1)


(2)

06 OPERATION INSTRUCTIONS OF HOUSEHOLD POWER SUPPLY

6.4 Turn on the power switch (“II” position) (1),
when the sound of the cooling fan is heard, press the start button to start the machine (2).
After everything is normal, tighten the pressure relief valve (3),
and wait for the completion of air inflation. Please keep a safe distance during air inflation.



(1)



(2)



(3)

6.5 When the pressure gauge reaches the preset pressure, the machine will stop air inflation automatically (1). Or press the stop button to make the machine stop air inflation (2).
The cooling fan keeps working at the moment; after the fan works for 2 – 4 minutes,
the power switch can be turned off (“O” position) (3), and the power plug can be unplugged.


(1)



(2)



(3)

6.6 Unscrew the pressure relief valve to discharge air and water from the blow vent (1),
and remove the oil-water separator from the object inflated (2).



(1)


(2)

07 OPERATION INSTRUCTIONS OF VEHICLE POWER SUPPLY

7.1 First of all, ensure the power switch of the machine is off (“O” position) (1), and loosen the pressure relief valve (2).



(1)



(2)

7.2 Take out the vehicle power supply alligator clip from the wire spool to connect the positive and negative poles correctly (1). Correctly connect the 360° air inflation extension pipe of the oil-water separator to the object to be inflated (2).



(1)


(2)

7.3 Adjust the rotary knob on the surface of the pressure gauge (1), adjust the pointer to the required pressure, and the maximum pressure shall be no larger than 310bar (2).


(1)


(2)

07 OPERATION INSTRUCTIONS OF VEHICLE POWER SUPPLY

7.4 Turn on the power switch (“I” position) (1), when the sound of the cooling fan is heard, press the start button to start the machine (2). After everything is normal, tighten the pressure relief valve (3), and wait for the completion of air inflation. Please keep a safe distance during air inflation.



(1)



(2)



(3)

7.5 When the pressure gauge reaches the preset pressure, the machine will stop air inflation automatically (1). Or press the stop button to make the machine stop air inflation (2). The cooling fan keeps working at the moment; after the fan works for 2 – 4 minutes, the power switch can be turned off (“O” position) (3), and remove the alligator clip and put it into the wire spool.


(1)



(2)



(3)

7.6 Unscrew the pressure relief valve to discharge air and water from the blow vent (1), and remove the oil-water separator from the object inflated(2).



(1)


(2)

08 COMMON PROBLEM HANDLING

The explosion-proof valve will relieve pressure if the safe pressure is exceeded. The anti-explosion diaphragm should be replaced with a new one at the moment. The schematic diagram below helps you know the replacement:



Unscrew the anti-explosion nut by rotating it counterclockwise;



Take out the damaged anti-explosion diaphragm;



Put the spare anti-explosion diaphragm in it and tighten it up.

09 Analysis and troubleshooting of common failures

Failures	Analysis of causes	Troubleshooting
The machine does not work (household power supply)	The current voltage of the machine is inconsistent with local supply voltage	Open the voltage shifter dust cover at the top for adjustment
	The power plug is not plugged properly	Correctly connect to the power supply
	The power switch mode is incorrect	Adjust the power switch to the “II” position
The machine does not work (vehicle power supply)	The positive and negative poles are incorrectly connected	Connect the red and black wires to the positive and negative poles respectively
	The power switch mode is incorrect	Adjust the power switch to the “I” position
	The vehicle power supply is off	Check the vehicle power supply
The machine works normally, but the object cannot be fully inflated;	The pressure relief valve is not tightened before air inflation	Tighten the pressure relief valve
The gas has peculiar smell	The working environment is polluted, making the air smelly	Change the working environment for the machine
	The filter element of the oil-water separator is invalid	Replace the filter element or the oil-water separator
The machine is manually or accidentally turned off during operation, and it fails to restart the machine	The internal pressure of the machine makes it impossible to start the machine	Loosen the pressure relief valve and tighten it to restart the machine

10 DISCLAIMER

Thank you for purchasing/using the SMACO HEAP 1 air compressor. The contents below concern your safety, legal rights, and duties.

To protect the legitimate rights and interests of the users, please carefully read the user's manual, legal disclaimer and precautions provided with this product before use. Shenzhen CP-Link Electronic Co., Ltd. reserves the right to update the aforesaid documents. Please use this product in accordance with the instructions and precautions;

The product is not intended for the uses by minors and those without full capacity for civil conducts. We are not responsible for any accident, injury, or death resulting from any operation by anyone who is not a target user;

Once you start to use this product, it's deemed that you have read, understood, approved and accepted all the terms and contents of the user's manual, precautions and legal disclaimer. The user has promised to be responsible for his/her own actions and all the consequences arising therefrom. The user has promised to use this product only for legitimate purposes, and agreed to the terms and any related policies or guidelines that may be formulated by Shenzhen CP-Link Electronic Co., Ltd.;

When use this product, please make sure to strictly abide by and implement the requirements including but not limited to the user's mannual and precautions. All per-sonal injuries, accidents, property losses, legal disputes and all other conflicts of in-terest caused by user's behaviors which violate the contents of the user's manual or force majeure factors, the user shall bear the relevant responsibilities and losses and Shenzhen CP-Link Electronic Co., Ltd. will be free from any legal re-sponsibility;

Shenzhen CP-Link Electronic Co., Ltd. will not bear any responsibility for any violation of the law which occurs directly or indirectly by using this product.

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