Operation Instructions

Airbrush Compressor AS186

ARTICLE 34208

Read and follow the operating instructions and safety information before using for the first time.

Technical changes reserved!
Due to further developments illustrations, functioning steps and technical data can differ insignificantly.

Updating the documentation
If you have suggestions for improvement or have found any irregularities please contact us.

Introduction

Thank you for purchasing this quality product. **To minimize the risk of injury by means of fire or electric shock we urge that our clients take some basic safety precautions when using this device. Please read the operation instructions carefully and make sure you have understood its content.**

Always use a grounded power connection with the appropriate mains voltage. You can find the corresponding mains voltage on the type plate. If you have any doubts about the connection being grounded, have it checked by a qualified professional. Never use a faulty electric cable.

Do not open the compressor in a wet or damp environment or when you are wet yourself and protect it from direct sunlight. Install this device in a safe location so that nobody can step on the cable, fall over or damage it. Make sure additionally you provide sufficient cooling through the ambient air and avoid heat accumulation. Disconnect the power plug before cleaning the airbrush compressor and use only a damp cloth for cleaning. Avoid using cleaning agents and take care that no fluids penetrate into the device.

The interior of the airbrush compressor contains no parts that can be inspected or serviced by the user. Leave the maintenance, adjustment and repair to qualified technical personnel. In case of unauthorised intervention the 2-year warranty is no longer valid! Keep this operation instructions safe.

Safety guideline

***BEWARE*:**

The use of this device is allowed only with fault current protection switch with a triggering nominal current up to 30mA (according to VDE 0100 Article 702 and 738).

The device is not intended for use by persons (including children) with impaired or limited physical, sensory and mental abilities or lack of experience and/or real knowledge, unless they are supervised by a person responsible for their safety or you follow the instructions made by this person how to use the device correctly.

Children should be supervised to make sure that they do not play with the device.

***ATTENTION*:**

- **The head of the compressor (with cooling fins) can get very hot.**
- Run a visual inspection of the device before every use. Do not use the device if the safety appliances are damaged or worn out. Never override safety regulations.
- Use the device exclusively according to the intended purpose stated in the instructions for use.
- You are responsible for the safety of the working environment.
- If the cable or the plug is damaged due to external influences the cable must not be repaired! It has to be replaced with a new one. This work can be carried out only by an electrician.
- The voltage indicated on the type plate of the device of 230 Volt alternating voltage has to correspond to the existent mains voltage.
- Never lift, carry or fixate the device by using the power cable.
- Make sure that the electrical plug connection is placed in a flood-proof area and is protected from moisture.
- Disconnect the mains plug before starting the maintenance work at the compressor.
- The user is responsible for complying with the location specific safety and mounting regulations (you can ask an electrician)
- In case of device failure the repairs can be carried out only by an electrician or by the WilTec-repair service.

***SAFETY GUIDELINES*:**

- The user should choose the right compressor with the appropriate air volume and air pressure to correspond to the actual work requirements.
- Never expose the device to dust, acid, steam, explosive or flammable gases or atmospheric influences (rain, sun, fog, snow).
- The vacuum pump can be operated only in an appropriate environment (well ventilated, ambient temperature +5 - +40 degrees C).
- Never use the compressor barefoot or with wet hands or feet.
- Never allow children to touch the switched-on compressor or to insert the plug. It may cause burns or electric shocks.
- Do not open or damage any part of the compressor. If necessary please contact your seller.
- Release the water by opening the drain valve. Always do so before not using the compressor for a long time. Store the compressor in a well ventilated place.
- Always wear goggles. Under no circumstances should you direct the airflow towards your body or other persons' bodies.
- Never use in areas with steam or moisture or close to water.
- Switch off the compressor if you do not use it. Disconnect from mains before you repair, recondition, maintain, clean or replace parts. Never use the power cable as handle. Keep the power cable away from hot objects, oil and sharp edges. Protect it against breakage. Do not pull the power cable in order to unplug it from the power socket.
- If the compressor is used outdoors, only approved extensions may be used. Every wire of the extension cable must have at least 1, 5 mm^2 cross- section.
- Do not store the compressor with the plug inserted into the plug. Do not allow children or any other people who are not able to handle this device to play or work with it.
- Be very careful when you are working with the compressor. Do not use it if you are tired. Persons under the influence of alcohol, drugs or medication are not allowed to use this device.
- When you start working make sure that all screws are tightened.
- Do not use the compressor if it is damaged. If the compressor generates unusual noises and strong vibrations or if other unusual signs occur that indicate some damage you should turn off the compressor immediately. For repairs please use only original spare parts. Do not make any technical modifications to the compressor. In case you cannot eliminate the malfunction hand over the device to your seller.

Properties

1. Piston compressor
2. Air tank supplies constant airflow without oscillatory airflows
3. Oil free, piston compressor no polluted air
4. With water filter, pressure setting and manometer

1. Automatic start without counter pressure extends the stability of the engine.
2. Overtemperature protection
3. Safety device for the air tank
4. Very low noise level

Field of application
The airbrush compressor AS 186 is suitable for airbrush work and can be used for handicraft cosmetics, tattoos, surface colours, hobby, model-toys, finger nails. It can also be used as air source for medical applications, environmental protection, aquariums, food and chemical industry, laboratories.

Specification

Type:	Piston compressor with casing
Power:	150W (1/5-HP)
Rotation speed:	1450 / 1700 rpm
Standard volume:	20 – 23 l/min
Presssure adjustment range:	0 – 6 bar
Air tank:	3,0 l
Weight:	5,2 kg
Dimensions:	255x135x220 mm

Suitable for all airbrush types with nozzles from 0,2 up to 1, 0 mm

User notes
Usually the compressor outlet has a 1/8 inch-external thread. If you need ¼ inch-external thread, you need to use an adapter to connect it to different air hoses. The original air hose is airtight. If the air hose is not airtight this affects the auto stop function (repeated switch on and off). The sealing of the screw connections can be made with the help of Teflon band.
Connect the compressor, the air hose, and the airbrush-gun or other air tools, connect the compressor to the voltage, turn it on and the compressor starts running. The manometer will show maximal pressure and you can adjust the operating pressure with the pressure regulator.

Check for air leaks
Please do not use the air tool if the auto stop-function deactivates itself. Turn on the compressor untill it goes on auto-stop. Then switch the compressor and check the manometer. When the needle holds the setting constant, this shows that the air-tightness is very good. If the displayed setting goes down very fast it means that at some joint there is an air leak. Please check it and seal it. Otherwise every leak will affect the compressor's efficiency (repeated auto-stop- and auto-start-operations).

The difference between maximum pressure and operating pressure
The maximum working pressure of a compressor is the highest pressure that the compressor can reach. If a connected airbrush is opened, the compressed air is shot initially through the Airbrush-nozzle. In contrast to this the working pressure is the constant pressure that the compressor can maintain during airbrushing. The pressure level depends on the other hand on the nozzle diameter of the airbrush to which is connected; the bigger the nozzle diameter is, the larger the air quantity that can escape and the lower the working pressure of the compressor.

The compressor AS 186 has a tank, in which compressed air can be stored before supplying the airbrush. The tank has the following advantages:
1. The tank represents a supply of compressed air that you can use for airbrushing.
2. You can release air at the tank with its set pressure instead of working pistons with average pressure.
3. Because you release the air from the tank you eliminate the small oscillatory air flows in the air pressure which are caused by the movement of the pistons.
4. The lifetime of the compressor motor extends itself because the motor runs only when the tank requires it instead of always being turned on.
5. Tanks are generally the first moisture traps.

Operation of the pressure relief station with filter

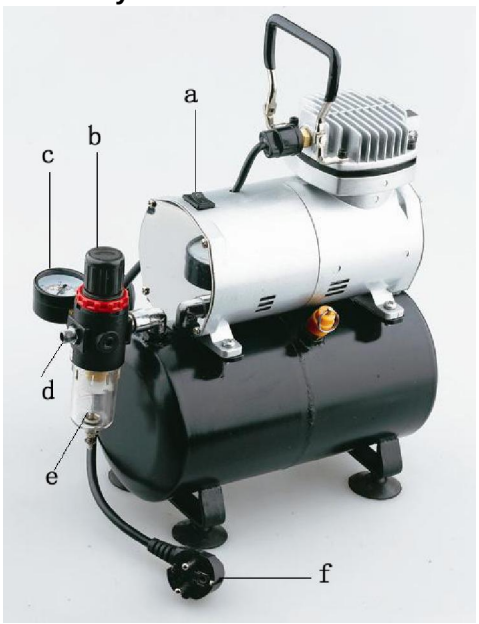
a) Pressure regulator
b) Manometer
c) Water drain plug

Product name: Pressure regulator with filter and manometer
Type: HS-F2

Specifications:
The HS-F2 is an in-line low pressure regulator with 9 bar (100 psi) manometer and water drain plug. This regulator allows you to control the pressure and helps generating clean, dry, pressure-stable air. The regulator can be used only according to the operating instructions.

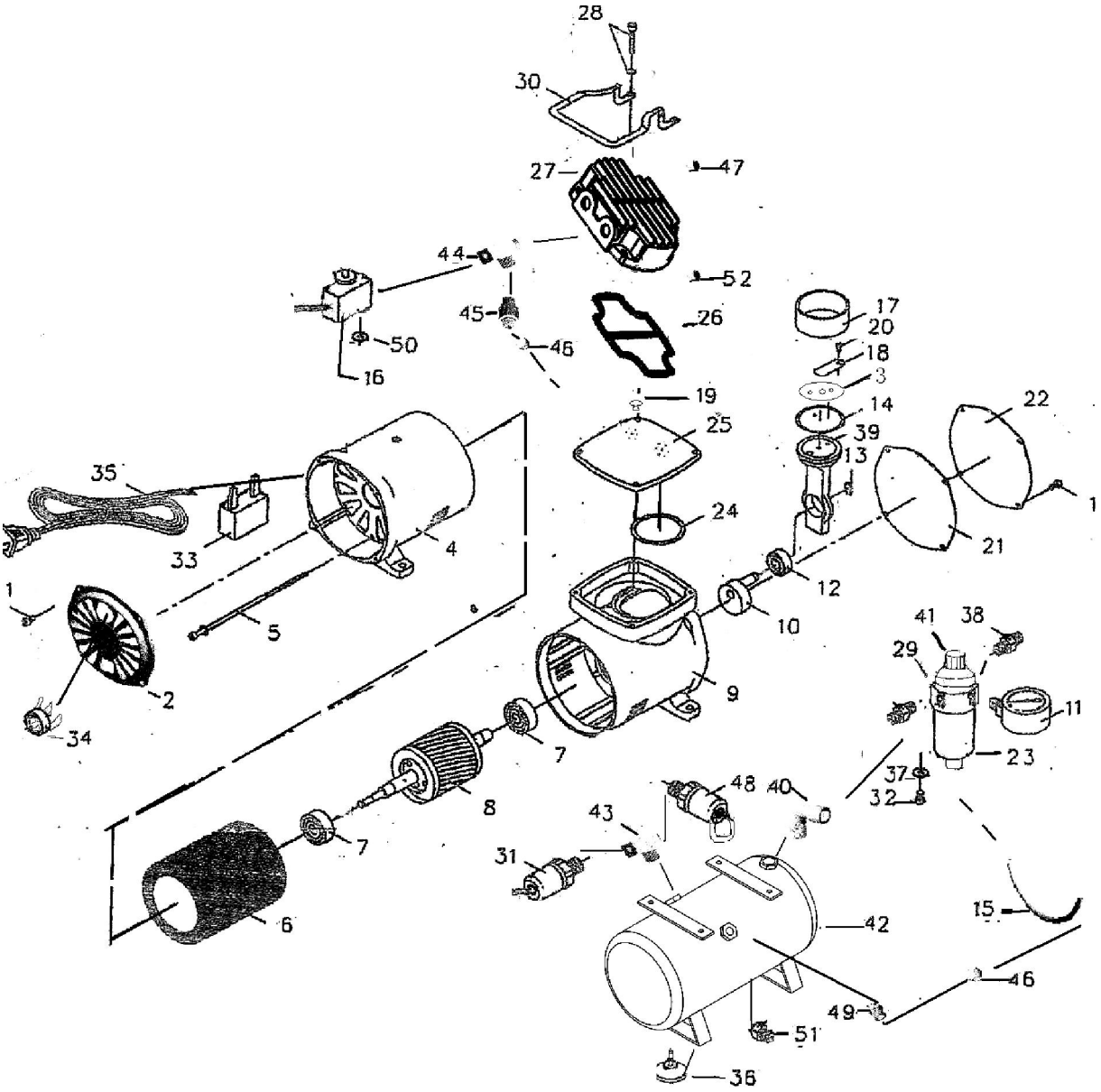
Operation:
1. The manometer reports the working pressure of the air tool.
2. Pull up the adjusting knob; its clockwise rotation increases the pressure, and a counter-clockwise rotation reduces the pressure.
3. Rotate the adjusting knob to achieve the right working pressure and fixate it downwards by clicking it into place.
4. Do not rotate the knob against high resistance. If necessary the height and the position of the of the knob can vary slightly.
5. For emptying the condensed water collector use the water drain plug.

Assembly



a) Switch
b) Pressure regulator
c) Manometer
d) Air connection
e) Air filter
f) Mains plug

Parts list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INDEX NO.	PARTS NO.	DESCRIPTTON	QTY	INDEX NO.	PARTS NO.	DESCRIPTTON	QTY
1	AS186--#01	SCREW	8	27	AS186--#27	CYLINDER HEAD	1
2	AS186--#02	REAR COVER	1	28	AS186--#28	CAP SCREW	4
3	AS186--#03	BLOCK	1	29	AS186--#29	FILTER VALVE	1
4	AS186--#04	REAR BODY	1	30	AS186--#30	HANDLE	1
5	AS186--#05	SCREW	4	31	AS186--#31	PRESSURE SWITCH	1
6	AS186--#06	STATIONARY MOTOR	1	32	AS186--#32	WATER DRAIN VALVE	1
7	AS186--#07	BEARING	2	33	AS186--#33	CONDENSER	1
8	AS186--#08	ROTARY MOTOR	1	34	AS186--#34	POWER SWTTCH	1
9	AS186--#09	FRONT BODY	1	35	AS186--#35	WIRE	1
10	AS186--#10	COUNTERWEIGHT	1	36	AS186--#36	RUBBER PAD	4
11	AS186--#11	MANOMETER	1	37	AS186--#37	HEXAGON NUT	1
12	AS186--#12	BEARING	1	38	AS186--#38	CONNECTOR	2
13	AS186--#13	RETAINIER RING	1	39	AS186--#39	LINK	2
14	AS186--#14	COMPRESSION RING	1	40	AS186--#40	ADAPTER	1
15	AS186--#15	PIPE	1	41	AS186--#41	PRESSURE REGULATOR	1
16	AS186--#16	SOLENOID VALVE	1	42	AS186--#42	TANK	1
17	AS186--#17	CYLINDER	1	43	AS186--#43	THREE WAY MANIFOLD	1
18	AS186--#18	VALVE PLATE	2	44	AS186--#44	THREE WAY MANIFOLD	1
19	AS186--#19	O-RING	2	45	AS186--#45	NONE RETURN VALVE	1
20	AS186--#20	SCREW	1	46	AS186--#46	PIPE NUT	2
21	AS186--#21	FRONT GASKET	1	47	AS186--#47	PLUG	1
22	AS186--#22	FRONT COVER	1	48	AS186--#48	SAFETY VALVE	1
23	AS186--#23	FILTER	1	49	AS186--#49	ADAPTER	1
24	AS186--#24	O-RING	1	50	AS186--#50	SCREW	1
25	AS186--#25	CYLINDER BLCCK	1	51	AS186--#51	DRAIN VALVE	1
26	AS186--#26	O-RING	1	52	AS186--#52	MUFFLE	1

Disposal regulations

EU guidelines regarding the disposal of scrap electric appliances (WEEE, 2002/96/EC) were implemented in the law related to electrical and electronic equipment and appliances.

All Wiltec electric devices that fall under the WEEE regulations are labelled with the crossed-out wheeled waste bin logo. This logo indicates that this electric equipment must not be disposed with the domestic waste.

The company Wiltec Technik GmbH has been registrated in the German registry EAR under the WEEE-registration number **DE45283704**.

Disposal of used electrical and electronic appliances (intended for use in the countries of the European Union and other European countries with a separate collection system for these appliances).
The logo on the article or on its packaging points out that this article must not be treated as normal household waste but must be disposed to a recycling collection point for electronic and electrical waste equipment. By contributing to the correct disposal of this article you protect the environment and the health of your fellow men. Environment and health are threatened by inappropriate disposal.

Materials' recycling helps reduce the consumption of raw materials.

Additional information on recycling this article can be provided by your local community, municipal waste disposal facilities or the store where you purchased the article.

Address:
WilTec Wildanger Technik GmbH
Königsbenden 12 / 28
D-52249 Eschweiler

Important notice:

EC-Declaration of Conformity

(according to the guidelines 73/23/EEC (LVD))

Producer / person responsible	WilTec Wildanger Technik GmbH Koenigsbenden 12 52249 Eschweiler, Germany
Ensures that the product:	Mini Compressor
Type:	34208/ AS186
Intended use:	Compressor for Airbrush

, when properly used, the above mentioned model fulfils the basic requirements and the guidelines complying with the

73/23/EEC(LVD)

When evaluating the product according to the EU demands, the following standards were applied:

EN 60335-1:2002
EN 60335-2-34:2002

If the product is changed this declaration loses its validity.

Eschweiler, 06.Juni 2006

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Bernd Wildanger
Manager