Operation Manual

Air Compressor





Illustration similar, may vary depending on model

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.





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To return orders for exchange, repair, or other purposes, please use the following address. Attention! To allow for a smooth execution of your complaint or return, it is important to contact our customer service team before returning the goods.

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Introduction

Thank you for purchasing this quality product. To minimise the risk of injury 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.

Keep these operation instructions safe.

Important notes

Things to do before operating your new compressor for the first time:

- On the compressor top front, you will find a white plastic shipping plug inserted into the oil filler hole. Remove the shipping plug and replace it with the red oil filler plug (supplied in the parts bag).
- Supplied in the parts bag you will find a black venting unit, too. Mount the parts into the side of the hole and to the top of the compressor head.
- Using the sight-glass built into the compressor lower front area (just behind the regulator), you can check the oil level. It should be at the halfway mark on the sight-glass for normal operation. If it is necessary to add oil, please use any standard air compressor oil available at home centres and other major retailers.
- There are two air outlet fittings on the regulator. Air flow for one fitting is operated by turning the
 regulator handle. The other is a free flow directly from the tank. Screw either a metal cap or a
 quick-coupler (not supplied) onto the free-flowing fitting before starting the compressor. Use
 nylon thread-seal tape when working with air fittings to prevent leakage.



Caution!

Read this manual carefully before operating or servicing this air compressor to familiarize with proper safety, operating, and maintenance procedures. Failure to comply with instructions in this manual could result in personal injury, property damage, and will void your warranty. Following the instructions in this manual will provide a longer and safer service life for your air compressor.

Safety instructions



- To reduce the risk of fire or explosion, never spray flammable liquids in a confined area. It is normal for the motor and pressure switch to produce sparks while operating. If sparks come into contact with vapours from petrol or other solvents, they may ignite causing fire or explosion. Always operate the compressor in a well-ventilated area. Do not smoke while spraying. Do not spray where sparks or flames are present. Keep the compressor as far as possible from any spray area.
- The solvents trichloroethane and methylene chloride can chemically react with aluminium used in paint spray guns, paint pumps, etc. and can cause an explosion. If you are using these solvents, use only stainless-steel spray equipment. This does not affect your air compressor, but may affect the equipment being used.
- Never directly inhale the compressed air produced by a compressor. It is not suitable for breathing purposes.





VARNING! A POTENTIAL HAZARD THAT COULD CAUSE SERIOUS INJURY OR LOSS OF

- Do not weld on the air tank of this compressor. Welding on the air compressor tank can cause an extremely hazardous condition. Welding on the tank in any manner will void the warranty.
- Never use an electric air compressor outdoors when it is raining or on a wet surface, as it may cause an electric shock.
- This unit starts automatically. Always turn the compressor off, remove the plug from the outlet, and release all pressure from the system before servicing the compressor, and when the compressor is not in use.
- Check the manufacturer's maximum pressure rating for air tools and equipment. The compressor outlet pressure must be regulated to never exceed the maximum pressure rating of the tool.
- High temperatures and moving parts are located under the guard. To prevent burns or other injuries, do not operate with the guard removed. Allow the compressor parts to cool before handling or servicing them.
- s Be certain to read all labels when you are spraying paints or toxic materials and follow the safety instructions. Use a respirator mask if there is a risk of inhaling anything you are spraying. Read all instructions and be sure that your respirator mask will protect you.
- Always wear safety goggles or glasses when using an air compressor. Never point any nozzle or sprayer toward a person, an animal, or any part of the body.
- Do not adjust the pressure switch or regulating valve for any reason. Doing so voids all warranties. They have been pre-set at the factory for the maximum pressure of this unit.

Caution! A potential hazard that may cause moderate injury or damage to equipment:

- Drain the moisture from the tank daily. A clean, dry tank will help prevent corrosion.
- Pull the pressure relief valve ring daily to ensure that the valve is functioning properly and to clear of any possible blockages.
- To provide proper ventilation for cooling, the compressor must be kept a minimum of 31 cm (12") from the nearest wall and in a well-ventilated area.
- Fasten the compressor down securely if transport is necessary. The pressure must be released from the tank before transport.
- Protect the air hose and electrical wire from damage and puncture. Inspect them weekly for weak or worn spots, and replace them if necessary.



Warning:

- Disconnect power and release all pressure from the system before attempting to install, service, relocate or perform any maintenance.
- Follow all local electrical and safety codes.
- Electric motors and starters must be securely and adequately earthed using a three-pronged outlet.

Caution: Never use an extension cable with this product. Use an additional air hose instead of an extension cable to avoid power loss and permanent motor damage. Use of an extension cable voids the warranty.





Brief description

This micro air compressor is of novel design and excellent workmanship. Having the advantages of compact construction, fine design, light weight, easy operation, high safety, and low noise, it can be widely used in machinery, chemical industry, spray and decoration, automatic control system and other fields where compressed air is required.

Overall view and main components



Nr.	Name		
1	Main compressor		
2	Pressure switch		
3	Outlet valve		
4	Regulating valve		
5	Pressure gauge		
6	Check valve		
7	Drain screw		
8	Wheel		
9	Discharge pipe		
10	Air tank		
11	Fan cover		

Main technical parameters

Power output (hp / kW / W)	2 / 1.5 / 1500
Voltage (V)	230
Frequency (Hz)	50
Nominal speed (1/min)	2850
Displacement (1/min)	212
Max. working pressure (bar)	8 (115 psi)
Tank volume (ℓ)	50
Net weight (kg)	27
Noise level (dB (A))	< 68

Preparation for starting

- The place to set the compressor should be clean, dry, and ventilated.
- Keep the voltage within ±5 % of the rated one.
- Keep the oil level on the level of the red circle.
- Use compressor oil SAE30 or L-DAB100 over 10 °C, and use SAE10 or L-DAB68 below 10 °C.
- Open the outlet valve, set the pressure switch knob in the **on** position **(fig. 2)**, let the compressor run for 10 min without load to ensure the moving parts to be lubricated before regular operation.





Operation and adjustment

- Open the drain cock under the tank first and then close it.
- The compressor is controlled by a pressure switch when working normally. It stops automatically as the pressure increases to the maximum and restarts as the pressure decreases to the minimum. The rated pressure has been adjusted during manufacturing. Do not change the rated pressure carelessly. As soon as the motor is switched off, the compressed air in the discharge pipe should be released through the outlet valve under the switch. This is necessary for restarting the motor, otherwise the motor will be damaged. The rated pressure can be adjusted by turning the adjusting bolt of the switch (fig. 2).
- The outlet pressure of the compressed air can be adjusted by the regulating valve (fig. 2). Pull the regulator valve knob up and turn it clockwise to increase the pressure.
- When the compressor needs to be stopped when running, you only need to set the pressure switch knob into the **off** position.



Figure 2

Nº	Name	Nº	Name
1	Button up/down	3	Regulating valve/adjustment screw
2	Safety valve	4	Discharge valve

Caution

- Put the cover off first and put on the air pipe and air filter before running the compressor (fig. 3).
- Never unscrew any connecting part the tank being under pressure.
- Never disassemble any electrical part before disconnecting the plug.
- Never adjust the safety valve carelessly.
- Never use the compressor when voltage is too low or too high.
- Never use an electrical cable which is more than 5 m long with less than the cable cross section shown in table 1.
- Never disconnect the plug to stop the compressor, always switch the knob in the off position.
- If the outlet valve does not work as soon as the motor has stopped, search for the cause immediately to avoid any damage to the engine.
- The lubricating oil must be clean, and the oil level should be kept on the red circle level.
- Disconnect the plug to cut the power supply off and open the outlet valve afterwards.





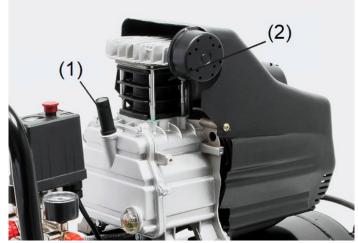


Figure 3

Nº	Name	Nº	Name
1	Air pipe	2	Air filter

Required wires and fuses

Motor output	220 V / 230 single	o V / 240 V -phase	100 V / 110 V / 127 V single-phase		
(hp/kW)	Wire (mm²)	Fuse (A)	Wire (mm²)	Fuse (A)	
1/0.75	1.5	16	2.0	20	
1.5/1.1	1.5	16	2.5	20	
2/1.5	1.5	16	2.5	20	
2.5/2	2.0	20	2.5	20	

Table 1

Maintenance

- Clean the crankcase and renew the lubricating oil after the first 10 working hours.
- Check the oil level after every 20 working hours and refill it if necessary.
- Open the drain cock under the tank to exhaust any condensate after every 60 working hours.
- Clean crankcase after every 120 working hours and renew the oil, clean the air filter and check the safety valve and the pressure gauge.





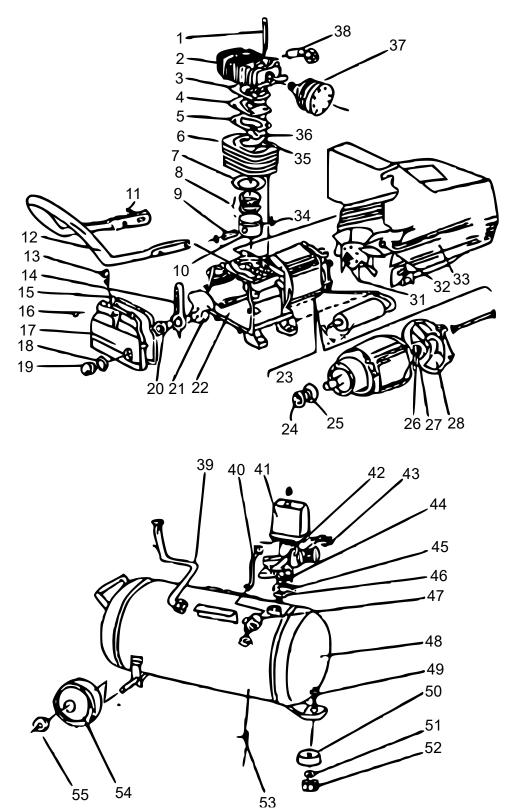
Troubleshooting

Problem	Possible causes	Solutions	
	Fault in line / voltage insufficient	Check the line.	
Motor unable to	Power wire is too thin / too long	Replace the wire.	
run, running too slow or getting	Fault in pressure switch	Repair or replace.	
hot	Fault in motor	Repair or replace.	
	Sticking of main compressor	Check and repair.	
Sticking of main	Moving parts burnt due to oil insufficiency	Check crankcase, bearing, con-	
compressor	Moving parts damaged or stuck due to foreign bodies	necting rod, piston, piston ring, etc.; replace parts if necessary.	
	Connecting part loosened	Check and re-tighten.	
Heavy shaking or	Foreign body got into main compressor	Check and clean away.	
unusual noise	Piston knocking valve seat	Replace with thicker paper gasket.	
	Moving parts seriously worn	Repair or replace.	
	Motor runs too slow	Check and repair.	
	Air filter blocked	Clean/replace cartridge.	
Pressure insuffi-	Leakage of safety valve	Check and adjust.	
cient or discharge	Leakage of discharge pipe	Check and repair.	
capacity de- creased	Sealing gasket damaged	Check and replace.	
	Valve plate damaged, carbon build up or stuck	Replace and clean.	
	Piston ring and cylinder worn of damaged	Repair or replace.	





Exploded view







Parts list

Nº	Name	Qty	Nº	Name	Qty
1	Bolt M8×110	4	29	Nut M8	1
2	Cylinder head	1	30	Capacitor	1
3	Cylinder head gasket	1	31	Fan	1
4	Valve plate	1	32	Circlip	1
5	Valve gasket	1	33	Fan cover	1
6	Cylinder	1	34	Circlip	2
7	Cylinder gasket	1	35	Locating pin	2
8	Piston ring	3	36	Valve clack	1
9	Piston pin	1	37	Air filter	1
10	Piston	1	38	Connector	1
11	Screw M5×14	4	39	Discharge pipe	1
12	Handhold	1	40	Release pipe	1
13	Breath pipe	1	41	Pressure switch	1
14	Connecting rod	1	42	Pressure gauge	1
15	Rubber gasket	1	43	Outlet valve	2
16	Screw M5×14	6	44	Switch bracket	1
17	Crank case cover	1	45	Connector nut	1
18	Oil reservoir washer	1	46	Discharge connection	1
19	Oil level indicator	1	47	Check valve	1
20	Bolt M8×22	1	48	Air tank	1
21	Crank	1	49	Bolt M8×25	1
22	Crank case	1	50	Washer foot	1
23	Motor	1	51	Washer 8	1
24	Sealing ring	1	52	Nut 8	1
25	Bearing 6204RS	1	53	Drain cock	1
26	Bearing 6202RS	1	54	Wheel	2
27	Corrugated washer	1	55	Cover piece	2
28	Motor bracket	1			





Disposal regulations

EU guidelines regarding the disposal of scrap electric appliances (WEEE, 2012/19/EU) 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 registered 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.



Material 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

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