

Dec 26, 2023

Air Compressor Use and Maintenance

DOI

dx.doi.org/10.17504/protocols.io.81wgbxwm3lpk/v1



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Protocol Citation: Ksenija Sabic 2023. Air Compressor Use and Maintenance. **protocols.io**
<https://dx.doi.org/10.17504/protocols.io.81wgbxwm3lpk/v1>

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Protocol status: Working

We use this protocol and it's working

Created: December 26, 2023

Last Modified: January 17, 2024

Protocol Integer ID: 92733

Keywords: maintenance of acgp series air compressor, printed air compressor maintenance checklist, maintenance this manual, acgp series air compressor, air compressor use, maintenance, maintenance activity, manual, instructions for regular use, instruction, manufacturer website, regular use

Abstract

This manual includes instructions for regular use and maintenance of ACGP Series Air Compressor by Newport.

Instructions are taken directly from manufacturer website: <https://www.newport.com/p/ACGP> (also attached).

Please use the printed Air Compressor Maintenance Checklist in Alcove D to record maintenance activity.

Attachments



Air_Compressor_User_...

303KB

Image Attribution

Newport

Guidelines

Observe these general warnings when operating or servicing this equipment:

- Read the operating instructions and recommendations before using the compressor.
- Make sure the compressor is kept upright at all times.
- Heed all warnings on the unit and in the operating instructions.
- Do not use the compressor if the switch does not turn it on and off. Any compressor that cannot be controlled with the switch is dangerous and must be repaired.
- Disconnect power before cleaning and servicing the equipment. Do not use liquid or aerosol cleaners; use only a damp lint-free cloth.
- Lockout all electrical power sources before servicing the equipment.
- To avoid explosion, do not operate this equipment in an explosive atmosphere.

Troubleshooting

Safety warnings

- ❗ Observe these safety warnings when operating the air compressor:
 - Do not operate compressor with any damaged hose(s) or after the compressor or attachments have been dropped or damaged.
 - The pressure relief valve is calibrated and sealed by the manufacturer. Do not tamper with it or change the setting.
 - Risk of bursting - Do not adjust regulator higher than maximum stated pressure of attachment.
 - Risk of injury - Do not direct air stream at people or animals.
 - To reduce the risk of electric shock, do not expose to rain. Store indoors.
 - Do not use to supply breathing air.
 - Drain Tank monthly after use. Internal rust causes tank failure and explosion. It may be necessary to do more often when operated in high humidity.
 - Add correct amount of compressor oil. Operating with low or no oil causes permanent damage and voids warranty.
 - Compressor head gets hot during operation. Do not touch it or allow children nearby during or immediately following operation.
 - The use of accessories or attachments not recommended by the manufacturer may result in a risk of injury to person.
 - Industrial applications must follow OSHA guidelines.



Operation (before and after use of Xenium instrument)

1 Turn on (if not already)

Make sure that the power supply voltage is the same with what's indicated on the data label: 230V/50 Hz or 115V/60 Hz. Use only 3-pole receptacles that accept the compressor's plug.

The on/off switch is located on the top of the pressure switch. To switch the unit on, turn the switch to position "1". When switched on, the compressor starts to build up pressure until the tank reaches the maximum allowed pressure (8 bar/120 psi). The unit will then be automatically

switched off until air is used and the pressure in the tank drops to the minimum operating pressure (6 bar/90 psi), at which point the compressor automatically switches on.

2 Check the outlet pressure

The outlet pressure can be adjusted using the knob on the filter/regulator so that the air output is enough for the application, but the output will not exceed the maximum air pressure specified by the application. Turn the knob clockwise to increase the pressure and counter-clockwise to decrease pressure.

Weekly Maintenance

3 Check for oil leaks, abnormal noise or vibration.

3.1 Check oil level through the sight glass weekly to make sure the oil level is aligned with the red marker line next to the sight glass. Add or remove oil as needed.

Monthly Maintenance

4 Check oil level.

Drain the condensate that has collected in the air tank. It may be necessary to do more often when operated in high humidity.

Drain the water collected in the air outlet filter.

Clean the compressor using a soft cloth. Wipe off any oil or dirt.



Check compressor efficiency (make sure all nuts and bolts are tight, check for air leaks, pressure hose wear, pipe fittings and electrical connections).

Quarterly Maintenance

- 5 Check the air intake filter. Replace if necessary.

Annual Maintenance

- 6 Replace oil.

Check pressure relief valve function.