

**Air**  
**Venturi**  
The Power of Air

**NOMAD**<sup>NANO™</sup>

## User Instruction Manual



**Nomad Nano**  
**4500 PSI Portable Air Compressor**  
**AV-NANOC4500**

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**!IMPORTANT** THIS PRODUCT IS MADE TO FILL PRE-CHARGED PNEUMATIC (PCP) AIR RIFLES AND PISTOLS DIRECTLY. THIS PRODUCT SHOULD NOT BE USED TO FILL STAND ALONE SCBA OR SCUBA TANKS/CYLINDERS. FILLING SCBA OR SCUBA TANKS/CYLINDERS MAY DAMAGE THE COMPRESSOR AND WILL VOID YOUR WARRANTY.

**!DANGER** **DANGER OF EXPLOSION!**  
Overfilled compressed air cylinder

Do NOT exceed maximum fill pressure of your cylinder at room temperature!



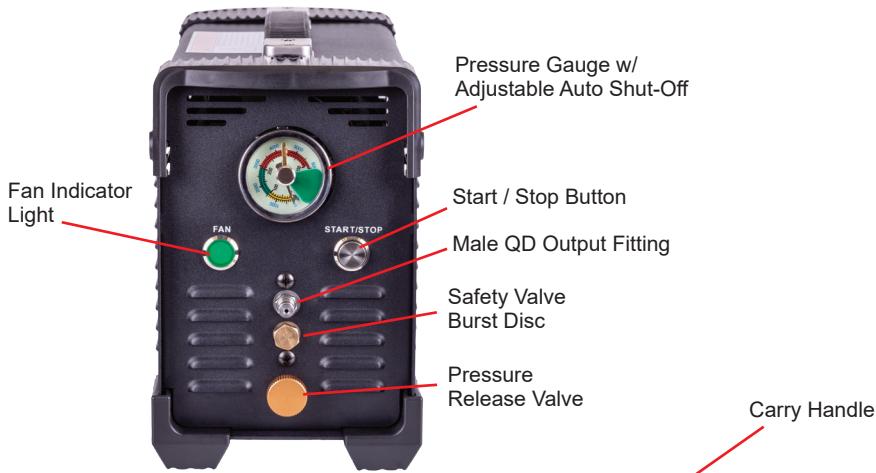
**!IMPORTANT** YOU AND OTHERS WITH YOU SHOULD ALWAYS WEAR SAFETY GLASSES TO PROTECT YOUR EYES. READ ALL INSTRUCTIONS BEFORE USING.



**!WARNING** DO NOT OVERFILL AIR CYLINDERS OR AIR GUN TANKS, AS THIS CAN CAUSE SERIOUS INJURY OR DEATH. NEVER SET THE OUTPUT PRESSURE/AUTO SHUT OFF ABOVE 4500 PSI (310 BAR).

# Parts Included

1. Male QD fitting & test plug
2. Replacement burst disks
3. Spare O-ring
4. Replacement valve springs
5. Replacement seals
6. Jumper Cables
7. Replacement filters
8. 3-prong power cord
9. Fill Hose & Filter



# Setting up your Nomad Nano Compressor

Your Nomad Nano comes pre-set to operate from an 110V outlet. Should you choose to use the unit with a 220V outlet, complete the following steps.

- 1) The cover must be removed. Before removing, make sure the compressor is not connected to an active electrical outlet. Start by removing each of the 12 phillips head screws, with a phillips head screwdriver turning them counter-clockwise (fig. 1a). Once all screws are removed, lift the cover off of the unit (fig. 1b).

*NOTE: Image Shows top screws and one side. There are 5 additional screws on the opposite side of the unit that will need to be removed before the cover will come off.*



1a

- 2) Locate the adjustment window on the power converter. (fig. 2) Using an allen key, move the switch to the 220V position.



1b

- 3) Replace the cover on the unit, and reinstall the 12 phillips head screws.



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- 4) Attach the hose and output filter to the compressor via the female quick disconnect fitting. The end with the filter should be closest to the compressor (see image for proper configuration) - (fig. 3).



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**CAUTION:** Always check and make sure the collar on the female quick disconnect is in the forward position and secure on the male fitting you are connecting it to. It is recommended that you check the connection by attempting to pull the female and male ends apart while the collar on the female fitting is in the forward position.

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# Operation Instruction: 110V or 220V outlet

1) Plug the power cord into the Nomad Nano (fig. 1). **DO NOT** plug the three prong connector into an active wall outlet yet.



2) Plug the 110V three prong connector into your wall outlet (fig. 2). Once plugged in, the fan and fan light will turn on.

*NOTE: If connecting to a 220V outlet, an outlet adapter will be necessary to use the included power cord.*



3) Set the desired fill pressure via the dial on the top of the pressure gauge (fig. 3).



**! WARNING** DO NOT OVERFILL AIR CYLINDERS OR AIR GUN TANKS, AS THIS CAN CAUSE SERIOUS INJURY OR DEATH. NEVER SET THE OUTPUT PRESSURE/AUTO SHUT OFF ABOVE 4500 PSI (310 BAR).

4) Close the bleed/pressure release valve by turning it clockwise until it is tight (fig. 4).



5) Connect the output hose to the device you wish to fill via the female quick disconnect fitting (fig. 5).

**! CAUTION:** Always check and make sure the collar on the female quick disconnect is in the forward position and secure on the male fitting you are connecting it to. It is recommended that you check the connection by attempting to pull the female and male ends apart while the collar on the female fitting is in the forward position.



*PLEASE NOTE: If you are filling a PCP airgun from empty, you may need to cock the gun before starting the fill process. Consult the owner's manual of your airgun for further instructions.*

# Operation Instruction: 110V or 220V outlet

- 6) Once the fan is running, depress the **START/STOP** button to begin filling (fig. 6).

*Note: You can stop the fill process at any time by depressing the START/STOP button. If you do stop the fill for any reason, you must bleed the pressure in the line before resuming filling.*

- 7) Once the pre-set fill pressure is reached, the compressor will stop.

**NOTE:** The cooling fan will continue to run.

- 8) Release/Bleed the pressure in the system by turning the pressure release/bleed screw counter-clockwise (fig. 7).

**! CAUTION:** Air and/or liquid may be released at high velocity from the bottom of the unit. Keep fingers/hands/eyes clear from the bottom of the unit when opening the pressure release/bleed screw.

- 9) Once the pressure is released and the pressure gauge on the compressor reads 0 PSI/BAR, disconnect the hose from the filled device by pulling back the collar on the female quick disconnect fitting and at the same time, pulling it off of the male fitting it was connected to (fig. 8).

- 10) To power down your Nomad Nano, unplug the power cord from the 110V outlet (fig. 9).



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# Operation Instruction: 12V Battery

1) Using the included jumper cables, connect the red clamp to the positive post on the battery. Then connect the black clamp to the negative post on the battery (fig. 1).



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2) Connect the cables to the compressor by inserting the yellow plug into the outlet on the compressor (fig. 2). Once plugged in, the fan and fan light will turn on.



2

3) Set the desired fill pressure via the dial on the top of the pressure gauge (fig. 3).



3

4) Close the bleed/pressure release valve by turning it clockwise until it is tight (fig. 4).



4

5) Connect the output hose to the device you wish to fill via the female quick disconnect fitting (fig. 5).



5

**CAUTION:** Always check and make sure the collar on the female quick disconnect is in the forward position and secure on the male fitting you are connecting it to. It is recommended that you check the connection by attempting to pull the female and male ends apart while the collar on the female fitting is in the forward position.

*PLEASE NOTE: If you are filling a PCP airgun from empty, you may need to cock the gun before starting the fill process. Consult the owner's manual of your rifle for further instructions.*

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# Operation Instruction: 12V Battery

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**NOTE:** *The cooling fan will continue to run.*

- 8) Release/Bleed the pressure in the system by turning the pressure release/bleed screw counter-clockwise (fig. 7).

**CAUTION:** Air and/or liquid may be released at high velocity from the bottom of the unit. Keep fingers/hands/eyes clear from the bottom of the unit when opening the pressure release/bleed screw.



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- 9) Once the pressure is released and the pressure gauge on the compressor reads 0 PSI/BAR, disconnect the hose from the filled device by pulling back the collar on the female quick disconnect fitting and at the same time, pulling it off of the male fitting it was connected to (fig. 8).

- 10) To power down your Nomad Nano, unplug the yellow connector from the unit (fig. 9).



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# Output Air Filter Replacement

**NOTE:** It is recommended that you replace the Air Filter every 2-3 hours of use. Should you require extra Air Filters, they can be purchased through Air Venturi authorized retailers.

- 1) Remove the filter and hose assembly from the compressor unit by pulling back the collar on the female quick disconnect fitting and pulling the filter away from the compressor (fig. 1).



- 2) Find the seam in the filter housing (fig. 2.1), twist the large half counter-clockwise, unscrewing it until the unit separates (fig. 2.2).



- 3) Locate the cartridge filter inside of the large half of the filter housing (fig 3.1). Remove it with tweezers or by puncturing it with an allen key and pulling it out of the housing (fig. 3.2).



- 4) Once the used filter is removed, replace it with a new cartridge filter by pressing the new filter into the large half of the housing (fig. 4).



- 5) Reassemble the filter housing by screwing the small and large halves together, turning the large half clockwise until it is hand tight (fig. 5).



- 6) Re-attach the female quick disconnect to the compressor by pulling back on the collar on the female while pressing it onto the male fitting. Make sure the collar is in the forward/locked position before attempting to run the compressor.

# Troubleshooting

## Issue - Compressor will not start

- **Resolution:** Make sure the compressor is plugged into a functional electrical outlet, and verify the plug into the wall and compressor are both properly connected.

## Issue - Compressor is not building pressure

- **Resolution:** Make sure the pressure release valve is closed. It should be hand tightened. If closed and the compressor is still not building pressure, contact Air Venturi by calling: **216-220-1180**.

## Issue - Compressor shuts off within 10 seconds of starting a fill

- **Resolution:** Start the fill with the bleed valve open, once the compressor has run for a few seconds, close the bleed valve and your compressor should run normally. If this does not resolve the issue, contact Air Venturi by calling: 216-220-1180.

## Issue - Compressor shuts off before reaching desired pressure.

- **Resolution:** Make sure the Output Pressure Dial (*Auto Shut Off*) is set properly.

## Issue - Burst disc failure

- **Resolution:** Should the burst disc fail during use of the compressor, depress the **START/STOP** button and make sure the compressor has stopped. Open the Pressure Release Valve to let the remaining air vent from the compressor. Once you have verified the burst disc has failed (*there will be a hole in it*) by removing the burst disc retention screw (*pictured right*), remove the broken burst disc from the unit. You will find additional burst discs in the bag of spare parts that comes with the compressor. Install a new burst disc, and re-insert the burst disc retention screw by turning clockwise. If you do not have additional burst discs, contact Air Venturi for replacement at: **216-220-1180**.



**In the unlikely event that your compressor malfunctions, DO NOT ATTEMPT TO FIX THE PROBLEM YOURSELF. Please call Air Venturi's service line so we can address any issues or have you return the compressor for repair. Air Venturi Service Line: 216-220-1180**

# Warranty

## One Year Limited Warranty

Your Air Venturi Compressor is manufactured to the highest possible standards, using quality materials to give a lifetime of service. In the unlikely event that there are any defects in materials or workmanship in the first twelve (12) months after retail purchase, we will repair or replace the defective items under warranty.

### What is covered?

- Replacement Parts and labor.
- Transportation charges to consumer for repaired product.

### What is NOT covered?

- Any damage or faults caused by owner misuse, action or inaction.
- Transportation charges to Air Venturi for defective products.
- Damages caused by abuse or failure to perform normal maintenance.
- Any other expense.
- Parts subject to normal wear and tear.
- Consequential damages, incidental damages or incidental expenses including damage to property.

This warranty is in addition to your statutory rights. Retain your sales receipt as proof of purchase.

**NOTE:** *Some states do not allow the exclusion or limitation of incidental or consequential damages, so the above limitation or exclusion may not apply to you.*

### Warranty claims:

Call Air Venturi at 216-220-1180 before returning any product.

### Implied Warranties:

Any implied warranties, including the implied warranties of merchantability and fitness for a particular purpose, are limited in duration to one year from the date of retail purchase.

**NOTE:** *Some states do not allow limitations on how long an implied warranty lasts, so the above limitation may not apply to you.*

To the extent any provision of this warranty is prohibited by federal, state or municipal law, which cannot be preempted, it shall not be applicable. This warranty gives you specific legal rights, any you may also have other rights, which vary from state to state and country to country.

Illustrations and photographs are for information purposes only and may not show the exact model you purchased.

### This warranty shall be invalid if the Compressor:

- Has been incorrectly disassembled, reassembled or maintained.
- Has been fitted with non-Air Venturi parts.
- Has been abused, misused or improperly stored.
- Original purchase receipt cannot be presented.



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