

The ultimate in off road compressed air systems

## How big should my tank be?

## Good Question?

In a previous document we pointed out the importance of having a tank in your system to collect the condensation and contaminants that will be discharged from a compressor. so what size tank should you fit? Before that question is answered lets first dispel a popular rummer that filling a big tank to 140psi will give you enough air to fill your tires.

## WRONG!

And here's why. In practical test one, we had a 5 gallon (19 liter) tank filled to 140 PSI. We also had a dead flat  $35 \times 17$  R14 tire. We then connected the tank to the tire and we were able to inflate the tire to only 14 PSI and that was it, no more air!

In practical test two we again filled the tank to 140 PSI and ran some air tools straight off the tank and following are the run times obtained.

4" air grinder	23 seconds
3/8" Impact gun	38 seconds
Senso nail gun	18 shots

So clearly the lesson here is it's not the tank that supplies the air, it is the compressor. So back to the question "how big a tank do I need?" Answer is, as big as you can easily fit.

Don't go changing and modifying massive amounts of things just to get a 5 gallon tank fitted instead of a 2.5 gallon tank. Don't think you will be loosing anything from your AOB systems operation because you can only fit a 1.75 gallon tank in. It makes <u>NO</u> difference! remember;

## IT IS THE COMPRESSOR THAT DOES THE WORK, NOT THE TANK!

If you are still not convinced have a look at the following tests where we inflated our 35 x 17 R14 tire from 14 PSI to 34 PSI off the same vehicle with the same AOB compressor and the only difference was we used three different tank sizes.

Test one	5 gallon tank	35x14R17	14 to 34 PSI	revs 750 RPM	Time 48 seconds
Test two	2.5 gallon tank	35x14R17	14 to 34 PSI	revs 750 RPM	Time 51 seconds
Test three	1.7 gallon tank	35x14R17	14 to 34 PSI	revs 750 RPM	Time 54 seconds

Thank you for choosing an AOB product