

# Arctic Freeze Instructions for Use – January 2023

1. **IMPORTANT:** Arctic Freeze is **only suitable** for cars that use **R134a** gas in their air-conditioning system. R134a was the 'standard' gas for all cars built between (about) 1995 and 2017. The car **must** also have a **13mm** low side valve to fit the hose/ gauge to
2. Be aware of your safety - you are working with a gas! Preferably use gloves and eye protection. If the R134a is dispensed from the can too rapidly, it will become very cold, very quickly. If you then get it on your skin - it can be cold enough that it could cause frostbite!
3. Before you begin to top-up your car air-conditioning gas, give the **Arctic Freeze** can a *gentle* shake for 10 seconds – slowly tip the can upside down a few times. (If the can has been stored for some time, the gas and oil may have separated. The can's contents are however very high quality gas and oil – and the 'shelf-life' of the product is years. The can is aluminium and will not rust)
4. Screw the gauge/ hose on to the top of the can. (If there is a plastic disc already screwed onto the top of the can, remove that first. The screw thread fitting to which the hose must be attached is aluminium.) NOTE: Screwing the gauge onto the can will pierce the can. When that has been done, it will not be possible to unscrew the hose from the can without losing any remaining gas that is in the can. The can must be empty before removing the gauge. (It is against the law to **intentionally** release R134a into the atmosphere!) (The gauge base has a rubber seal on it however, and the gas will not leak out from a partly-filled can. It can be stored like that for months)
5. Check the surrounding (ambient) air temperature of the place where you will be performing the top-up. Adjust the central red arrow on the moveable bezel/ rim of the gauge to indicate the ambient temperature. (Please be aware that product is from the US – and so the temperature on the dial face is in Fahrenheit, not Celsius!)
6. Locate the 13mm low-pressure valve on the car air-conditioning system. (The low-pressure side of the compressor is the one where the gas enters the compressor, after it has been used to cool the car interior.) Remove the plastic cap from that valve. Note: The valve for the 'High Pressure' side of the compressor is a **different size** to the 'Low Pressure' one - so you can't accidentally confuse them. Which is good - as the pressure behind that valve can be much higher!
7. Start the car's engine. Turn the air-conditioning up to maximum cool. Then turn the air-conditioning fan to its highest speed
8. Connect the Arctic Freeze hose to the air-conditioning 13mm low-pressure valve. It should clip on securely
9. Check the pressure displayed on the gauge. If it reads below the left-hand red line on the moveable rim, squeeze the trigger on the gauge. **NOTE: Do only short bursts of filling – maximum 5 seconds at a time.** Shake the can gently from side to side between bursts, to ensure the contents of the can remain well mixed. **IMPORTANT:** This also ensures the contents of the can are delivered into the hose and hence the car's aircon system
10. Continue to fill and shake until the gauge needle is above the left-hand red line but inside the right one. **NOTE: The car air-conditioning system is sufficiently full when the gauge needle lies anywhere in the region between the two outside red lines on the moveable rim. DO NOT OVER-FILL! (The pressure only needs to be just past the left-hand marker to work perfectly well)**
11. NOTE: You will only get a meaningful pressure reading when the air-conditioning compressor is running. This is easy to see/ hear as it clicks on and off regularly
12. Disconnect the hose and replace the low-pressure valve cap. ***It really is a simple job!!***

YOU CAN WATCH ALL OF THIS IN ACTION IN OUR 'HOW TO' VIDEOS

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