

Drawing liquid nitrogen (Flakkebjerg)

Before you begin working with liquid nitrogen (N_2), you must read both the supplier's instructions and the workplace instructions carefully. They can be found close to the container in B218. A TAP responsible for this task should assist you the first time you are going to draw nitrogen.

Fasten the N_2 container to a sack truck with a blue clamping strap (you can borrow a sack truck – ask Lars or Jens).

Put on safety equipment: you can find rubber boots, apron and face shield in the room between buildings B and D.



Remember to bring your master key to the tank installation



Put the filling tube into the N_2 container and turn on the tap at the large red arrow (see the photo above). The tap needs several turns. After approximately 10 minutes nitrogen will begin to flow into the container, and both the tube and the tap will be coated with ice. It takes a LONG time to fill the container, and it is difficult to see when it is full! When you draw nitrogen, it is important that you station yourself in such a way that it is easy for you to get out of "the cage" if an accident happens. Don't leave the place during the tapping!

You can draw nitrogen from the N_2 container to the container for daily use by means of siphons. You can find these in the extraction room B218. Put the long nozzle into the container; due to the difference in temperature a super pressure will be formed, which will cause the N_2 to flow out at the top. You can draw approximately $\frac{1}{2}$ l at a time. Again REMEMBER gloves and safety goggles.



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