

Application note

Purging the FT-MIR Rocket with a N2 line

Introduction

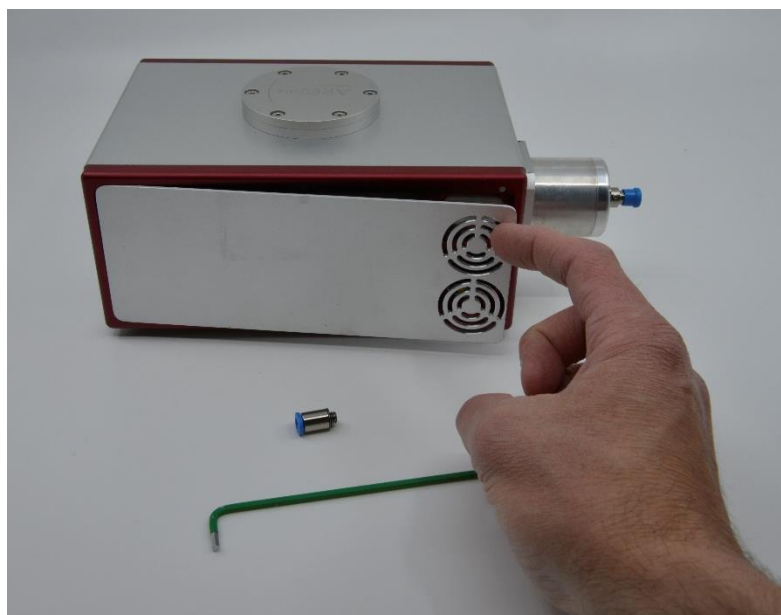
Starting from 2020, FTIRs from ARCOptix include a top desiccant port, that allow using the instrument without nitrogen line. For some customers however, the residual moisture level achieved with desiccants is not sufficient. This document shows how to install a nitrogen purge line on the FT-MIR Rocket.

Material

- Push-in fitting with M5 thread, e.g. Festo QSM-M5-4
- Hex key 2.5mm
- Tubing with OD corresponding to the push-in fitting (4mm)
- Fitting needed to connect to the nitrogen source
- The nitrogen source must be clean (e.g. with particle filters) and allow setting of a low volumetric flow, <1L/min

Procedure

You must remove the spectrometer side panel as shown below. The panel is held in place by small magnets. You can grasp it via the fan apertures, or use a sucker.



Next, use the allen key to remove two screws, as indicated below.



Finally, replace at least one of the screws by the push-in fitting, and connect the purge tube. Use a low volumetric flow, in the order of 0.5L/min or less.



When you are not using the purge, close the ports so the desiccant is not used up unnecessarily.