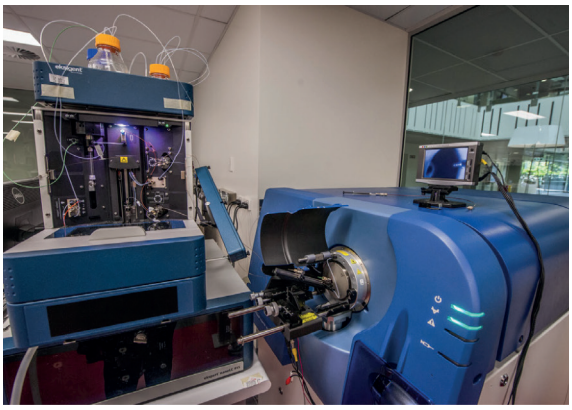
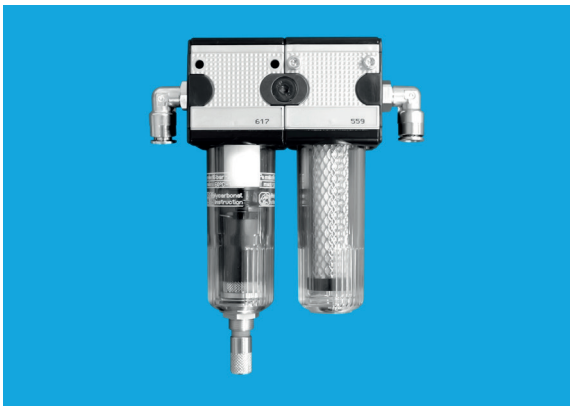
Parker NitroFlow Lab: Outlet Filtration





The Reason to Upgrade

Parker NitroFlow Lab nitrogen generators utilise high capacity Active Carbon inlet filters with a single stage 2um paper filter on the outlet. No other filtration is fitted as standard within this model, and there is no final stage filtration of the output nitrogen. This poses several risks for NitroFlow users.

Risk of Carbon Ingress

The carbon utilised in the Parker inlet filter is friable, leading to dust formation during manufacture, transport or maintenance. Tests have shown that carbon particulates can be pushed through to the LC-MS either by bypassing the paper filter (which is not securely clamped in a housing), or because the particulates are smaller than 2um.

Increased Particulates

The two oil-free compressors in the NitroFlow will produce wear particulates from the piston seals and bearings. This must be added to any particulate from the inlet air drawn from the lab atmosphere.
Both are likely to cause performance issues for the downstream MS system.

The Solution

Chromalytic have developed and tested an efficient two-stage filtration system that effectively removes particulates including carbon, atmospheric and compressor wear particulates from the outlet of the NitroFlow before the gas is supplied to your LC-MS. This protects the considerable investment in your analytical instrumentation for a very modest cost, and improves on the design of the NitroFlow.

Replaceable Filters

Replacement filters are available to maintain the kit. We can also carry out the filter replacement during your service visit for a small charge.

Specifications

First Stage

First stage particulate filtration 5um in high efficiency housing, with automatic float drain valve.

Second Stage

Fine particulate (1um) and active carbon filtration in high efficiency housing.

Ordering

NitroFlow Outlet Filtration Upgrade	700550
5um filter element	700456
Active carbon element	700497

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