



AUTOMATIC FILTER CHANGER NOVA-FC / A-2

for partial flow dilution systems measuring particulate emission of combustion engines

To satisfy the request of many users in manufacturing, research and development for a further automation of test processes, NOVA developed their own Automatic Filter Changer. The application of our filter changer means a big step forward to more safety of the operating staff and more operator convenience, as it is not necessary to enter the test cell with the running engine so often for changing the measuring filters.

The filter changer "NOVA-FC/A2" is designed as a separate, mobile unit and ensures the fully automated change of up to 14 filters.

It complies with all legal requirements and directives regarding the sampling for particulate measuring:

Filter temperature according to 2005/55 EC (formerly 88/77 EEC), ISO16183, dir. 97/68 EC, US 2007

Filter holder diameter 70 mm, according to EEC 91/542 (in its current version), ISO 16183, dir. 97/68 EC

Particulate pre-classifier according to 40 CFR part 1065 is available

The functionality of the partial flow system regarding the applicable regulations and directives (for example piping the test medium through stainless steel, dilution air temperature, system response t_{50} , look ahead at t_{50} , CO₂ control check etc.) remains preserved when the filter changer is installed.

The operation of the remaining filters in the partial flow system is unaffected too (only the measuring filter is situated in the changer).

The NOVA-FC/A-2 provides the opportunity of a leak test after every filter change or before each active step.

As the software of the filter changer will be integrated in the user software of our partial flow dilution system MICROTROL 5, the filter changer can be operated conveniently

from the control computer of the partial flow system.

Existing MICROTROL 5 systems can be retrofitted with a connection set for the application of the filter changer.

Generally there is the possibility to use our filter changer together with partial flow systems of other manufacturers.

Technical details:

Dimensions: 680mm x 610mm x 1730mm (WxDxH)

Weight: approx. 180 kg

Compressed air: free of oil, dust and water, 6 bar; changer is supplied over the compressed air connection of the partial flow dilution system, no separate compressed air supply necessary

Power supply: separate, 230V, 50Hz

EMC-safe: tested according to CE regulation

Protection class: IP51

Mobility:

With 4 turnable wheels and flexible connections to the partial flow system the filter changer can be positioned freely in the test cell (max. ~ 3 meters from the partial flow system).

Please contact us for your individual quotation!

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