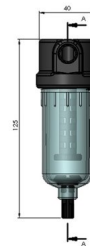


GAS ANALYSIS / INSTRUMENTATION · CENTRAL EUROPE

Analyser sample line: a functional alternative for a plastic filter housing

A system integrator needed 30 compact filters for natural-gas analysers. We proposed a nylon housing with a coalescing element as a functional alternative – and listed openly what still has to be checked.


APPLICATION

**Natural-gas
analyser sample
line**

PRESSURE

–5 to +5 psig

FLOW

0–10 L/min

CONNECTION

1/4" NPT

QUANTITY

30 filters

SITUATION

An integrator of analyser systems was looking for a replacement for an existing plastic coalescing filter in natural-gas sample lines. Pressure is close to atmospheric, flows are small, and space in the analyser cabinet is limited.

TASK

Offer a compact filter with the same connection size and coalescing function, and make clear which installation details must be verified before ordering.

ENGINEERING APPROACH

1 Match the operating window

RF-H-730N is a nylon housing with 1/4" NPT, rated 7 bar and 50 °C – well above the sample-line conditions.

2 Coalescing element

RF-C-12057-HE (12 × 57 mm) removes liquid aerosol before it reaches the analyser.

3 Check the space

Height 125 mm, head width 40 mm, plus about 60 mm clearance below for removing the bowl.

PRODUCTS USED IN THIS CASE



RF-H-730N
HOUSING



RF-C-12057-HE
ELEMENT

Anonymised application example. Customer name, project data and prices are not disclosed.

RECOMMENDED R+F CONFIGURATION



HOUSING

RF-H-730N

Nylon, 1/4" NPT, 7 bar, 50 °C, element
12 × 57.



ELEMENT

RF-C-12057-HE

Coalescing element for liquid aerosol.

LIMITS & OPEN POINTS

- Functional alternative – installation dimensions are confirmed on request.
- Drain thread and suitability for the vacuum part of the range (–5 psig) are clarified before ordering.

Result: A compact, ready-to-quote alternative with transparent open points, so the integrator can verify the fit before rolling it out to 30 analysers.

HOW WE WORK WITH YOU

1 · Send your data

Gas, flow, pressure, temperature,
contamination and connection size.

2 · Get a configuration

Housing and element with R+F article
numbers, limits stated openly.

3 · Order and service

Housings supplied with element fitted;
replacement elements available
individually.

Similar application? Let us size it for you.

Send us your operating data and we return a concrete filter configuration with R+F article numbers.

- Gas / medium and contamination
- Flow (Nm³/h or L/min), pressure, temperature
- Connection size (NPT) and installation position

info@filter-elements.eu

Online inquiry: process-gas-filter.com
Free filtration engineering tool

Read more: Analytical instrumentation · Analyser sample contamination · Instrumentation filters · Replacement filters