

Coalescing filter element ELT-110

Construction

The element consists of multiple layers of borosilicate media. The filter material is pleated for a maximum extended surface-area.

End caps as well as the (perforated) inner- and outer-core are made from stainless steel. The filter material is sealed at both end caps using a high-temperature epoxy sealant.

For easy installation a Viton O-ring is incorporated at the inlet.

Design data

Element model	: ELT-110
Diameter	: 110 mm
Total height	: 475 mm
Type of element	: Coalescing
Medium	: Natural gas / Associated gas
Medium pressure	: Up to 100 barg
Design temperature	: -50 / +150 °C
Collapse pressure	: differential pressure > 2 bar
Filtration: - liquid particles	: 99,9% ≥ 0,3 µm absolute
- solid particles	: 99,9% ≥ 0,3 µm absolute

Pressure drop and element replacement

Initial pressure drop, clean & dry, is less than 100 mbar. At rated flow conditions when removing liquids, pressure drop will normally range from 100 to 200 mbar, depending on the quality of the influent gas. Further pressure drop only occurs when the filter elements become contaminated with solid particles. Element replacement is based on differential pressure and actual operation temperatures.

Systems operating at a temperature:

- Below 100 °C, elements must be changed at 1 bar differential pressure or once a year.
- Above 100 °C, elements must be changed at 1 bar differential pressure or twice a year.
- Note: Replacing elements also means replacement of the housing gasket.

Gas filter sets

For replacement elements please contact us at service@eltacon.com.

We supply gas filter sets including:

- The number of coalescing filter elements required, please refer to the drawing of the filter housing.
- A spiral wound gasket (acc. ASME B 16.20), material 316L/Graphite, C.S. Outer ring and S.S. Inner ring.

