HYDAC PROCESS TECHNOLOGY

Natural gas filtration in the "Sapolyarnoye" gas field in Siberia

HYDAC delivers over 1000 coalescence filter elements

Key figures

Savings on filter elements

15 %

Increase in filter life

30 %

Amortization time

Immediate

Cost saving / year

€ 30,000

Application

To protect the compressors and pipelines, the natural gas is conducted from its underground deposits for the first separation of contaminants and fluids to a booster-compressor station which is fitted upstream of 10 separators.

The HYDAC filter elements are installed for the final filtration stage in the separators. A total of 10 separators were each fitted with 92 filter element units (plus 92 replacement filter elements) within the course of the project. After the treatment process, the gas is directed to the compressor station where it is then transferred to the gas treatment plant.

Example image of several gas separators, source: Fotolia

Processmicron Coalescence filter elements

Technical data & advantages	
Filter material	Processmicron glass fibre fleece ➔ Combination of micro glass fibre media and wire mesh 1.4404
Filtration ratings	0.1 µm to 20 µm (absolute)
T_{smax}	100 °C
Advantages	• Minimal pressure loss due to high porosity • No fibre migration • Good pressure stability • Low pressure loss

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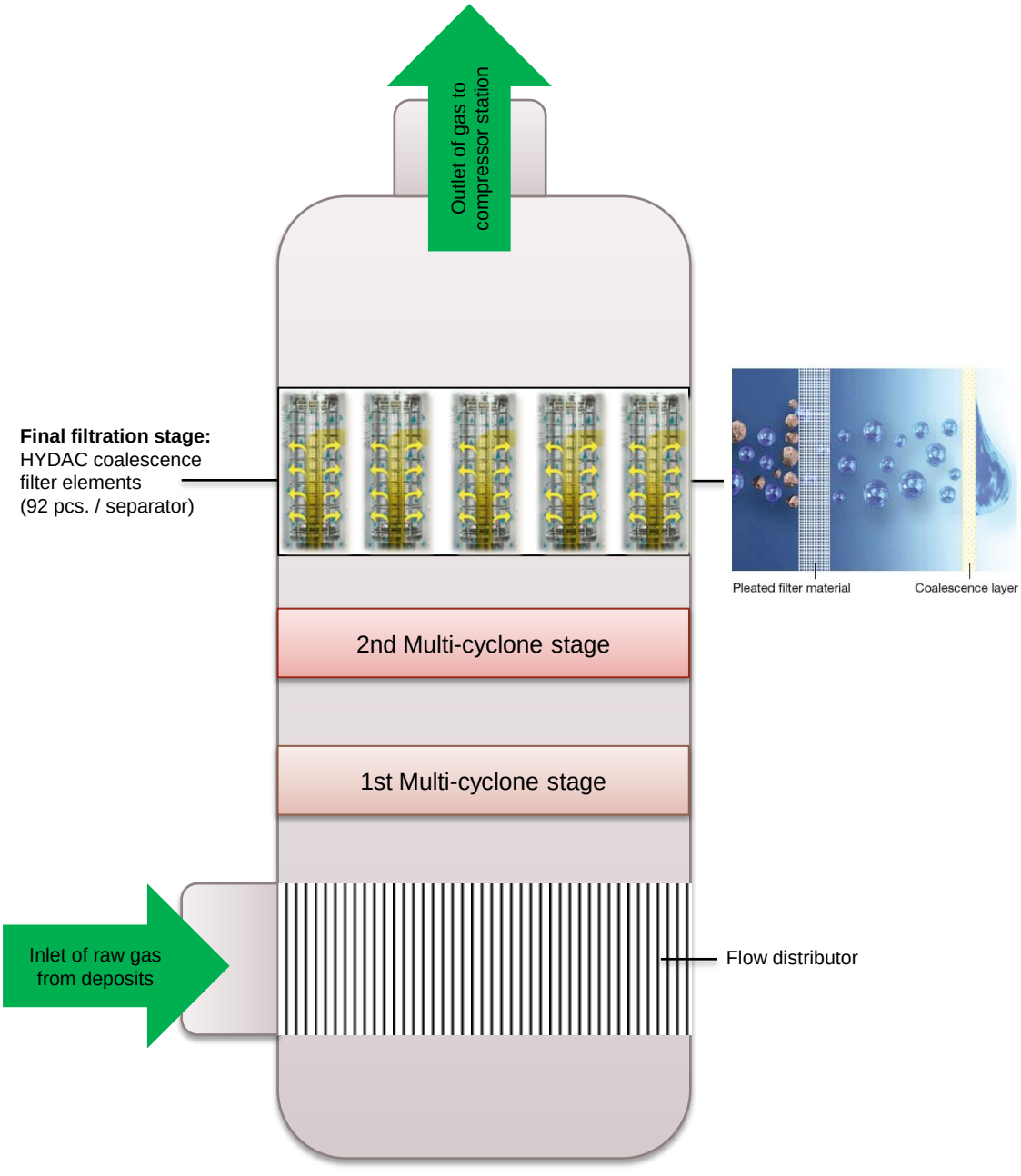
Function

1. Raw gas enters the lower container space and is distributed evenly
2. First multi-cyclone stage: primary gas cleaning - separating solids and liquids (centrifugal-vertebral elements)
3. Gas washing: pressurizing the gas with reflux water to wash out acidity
4. Second multi-cyclone stage: separating the reflux water from the gas
5. **Final filtration stage: coalescence filtration: separating the finest contaminants up to 10 µm (absolute) and liquid droplets up to a residual content of 5 ppm using HYDAC's coalescence filter elements**
6. Treated gas is transported to the compressor station and then directed to the gas treatment plant (glycol dehydration, acid gas, etc.)



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