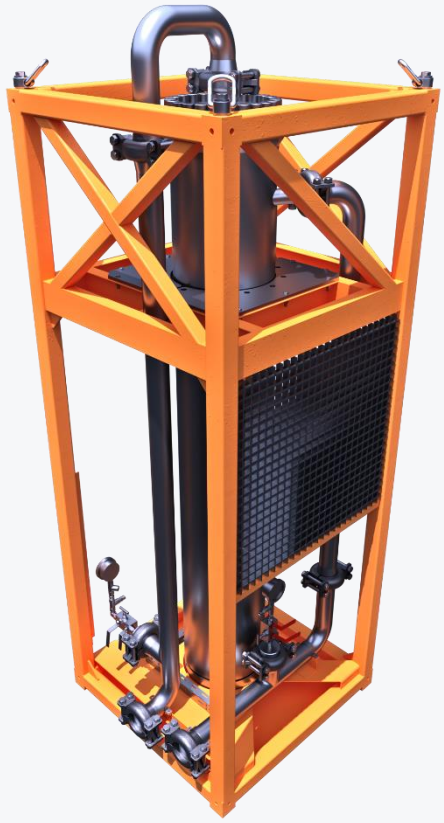
5K Strainer Unit

Product Summary

The FourPhase Strainer unit is intended for use in offshore topside applications where solids can be present at surface during flowback operations.

The Strainer unit manages solid particles of various sizes depending on the insert mesh size. It is typically used upstream of the 5K DualFlow to separate larger particles depending on application and expected solids. In principle, the separation of particles such as sand, rubber, metal is separated using a machined mesh. The mesh size can be changed depending on the application for optimal flow.

The main design criteria for the Strainer unit were for a simple installation with minimum interruption, which is achieved using modest dimensions and easy connections. This means that as the Strainer unit is designed for easy adaptation to the loads and dimensions of existing systems even at crowded platforms where retrofits can be challenging.



Market differentiating technology

- Large holding volume of 200 litres compared to conventional strainers.
- Ultra compact unit with a modest 3.6ft x 3.6ft footprint
- Separation of solids between 200 – 20 000 micron@ 20k bbls/day
- Adaptable depending on flow, solids size & pressure conditions.
- Groundbreaking design ensuring low erosion parameters downstream the strainer unit.

Contact us
mail@fourphase.com

5K Strainer Unit

Technical Specification

SI U.S.

Pressure

Working Pressure: 1-345 bar (1 – 5 000 psi)
Design Pressure: 345 bar (5 000 psi)

Temperature

Min operating temp: -28 °C (-18,4 °F)
Max operating temp: +120 °C (+248 °F)

Capacity

Strainer mesh size(s): 200 - 20 000 micron
Maximum flow rate (fluid): 1 584 m3/day (19 926 bbl/day)
Maximum flow rate (gas): 100 000 Sm^3/day (7.0 - 20.0 MMscf/day)
Maximum solids capacity: 200 liters

Certification

Pressure Vessel / PED
NACE MR0175-97
CE

Dimensions

Height: 3 200mm (10.5 ft)
Width: 1 100 mm (3.6 ft)
Depth: 1 100 mm (3.6 ft)
Weight: 2 300 kg (5 000 lb)

Materials

Strainer pressure vessel: Duplex (UNS 31803)
Pipes: Duplex (UNS 31803)
Frame: Carbon steel, NVE 36
Nuts, bolts: L7 + Standard galvanic 8.8
Seal rings: Viton / Duplex / 316L / 6MO

Interfaces

Flowing piping: 3″
Flanges: 3″ Greylock

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