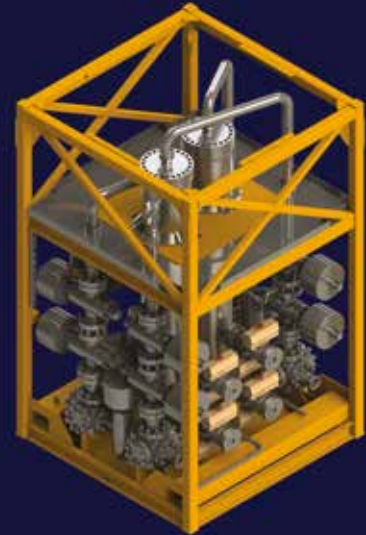


# 5K DualFlow Unit

## The leading solids removal solution on the market

The DualFlow 5K unit uses next generation cyclone technology that was developed and engineered by FourPhase and is the leading solids removal solution on the market. The DualFlow is used in surface applications where solids might be present during production, intervention clean-up, kick-starting wells or well test applications.



### Compact solution where space is at a premium

- Separation of solids down to 20 micron
- Solids management with no flow interruption
- Online solids measurement and performance monitoring
- 2.0 x 2.0 meter footprint
- Proven efficiency 99.8%

### Real-time information for better quality decisions

- Weight of solids removed
- Flow rate
- Pressure (six locations)
- Temperature
- Asset integrity of desander system

An interlock system is used to control all valves during vessel isolation for maximum safety and reliability.

### Market differentiating technology

- Wide flexibility in flow range (liquid/gas) - 60 m<sup>3</sup>/day to 3168 m<sup>3</sup>/day
- Solids management with no flow interruption
- Compact unit – 2m x 2m x 3m (8.5 tonnes)
- Highest proven solids separation efficiency in the market - with no under flow management required
- Online sand weighing technology and precision - 0.1kg accuracy
- Metal/metal sealing on flowback package - maintains system integrity
- Multi-well hook-up capability

### DIMENSIONS

Height: 3280 mm  
Width: 2000 mm  
Depth: 2000 mm  
Weight: 8500 kg

### MATERIALS

Pressure vessel:  
Duplex UNS 31803  
Valves:  
Stainless AISI 410  
Pipes:  
Duplex UNS 31803  
Frame:  
Carbon steel

### CERTIFICATIONS

NACE MR0175-97  
PED  
CE  
Norsok Z-015, Zone II  
DNV GL 2.7 -3 lifting equipment  
API 6A

### CAPACITY

Maximum flow rate (fluid): 3168 m<sup>3</sup>/day  
Maximum flow rate (gas): 200 000 Sm<sup>3</sup>/day  
Maximum sand rate: 200 kg/hrs  
Pressure drop: 1 bar  
Smallest particle size: 20 micron

### TEMPERATURE

Min. operating temperature: -28 °C  
Max. operating temperature: +120 °C



FourPhase NO  
Hegglandsdalsveien 271  
N-5211 OS

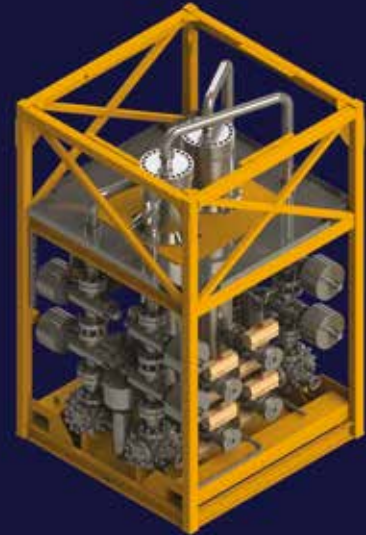
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# 5K DualFlow Unit

The leading solids removal solution on the market

The DualFlow 5K unit uses next generation cyclone technology that was developed and engineered by FourPhase and is the leading solids removal solution on the market. The DualFlow is used in surface applications where solids might be present during production, intervention clean-up, kick-starting wells or well test applications.



## Compact solution where space is at a premium

- Separation of solids down to 20 micron
- Solids management with no flow interruption
- Online solids measurement and performance monitoring
- 6.6 x 6.6 feet footprint
- Proven efficiency 99.8%

## Real-time information for better quality decisions

- Weight of solids removed
- Flow rate
- Pressure (six locations)
- Temperature
- Asset integrity of desander system

An interlock system is used to control all valves during vessel isolation for maximum safety and reliability.

## Market differentiating technology

- Wide flexibility in flow range (liquid/gas) - 377 bbl/day to 19 926 bbl/day
- Solids management with no flow interruption
- Compact unit – 6.6 ft x 6.6 ft x 10.9 ft (19 000 lb)
- Highest proven solids separation efficiency in the market - with no under flow management required
- Online sand weighing technology and precision - 3.5 0lb accuracy
- Metal/metal sealing on flowback package - maintains system integrity
- Multi-well hook-up capability

### DIMENSIONS

Height: 10.9 ft  
Width: 6.6 ft  
Depth: 6.6 ft  
Weight: 19 000 lb

### MATERIALS

Pressure vessel:  
Duplex UNS 31803  
Valves:  
Stainless AISI 410  
Pipes:  
Duplex UNS 31803  
Frame:  
Carbon steel

### CERTIFICATIONS

NACE MR0175-97  
PED  
CE  
Norsok Z-015, Zone II  
DNV GL 2.7 -3 lifting equipment  
API 6A

### CAPACITY

Maximum flow rate (fluid): 19 926 bbl/day  
Maximum flow rate (gas): 100 MMscf/day  
Maximum sand rate: 441 lb/hrs  
Pressure drop: 14.5 psi  
Smallest particle size: 20 micron

### TEMPERATURE

Min. operating temperature: - 18,4 °F  
Max. operating temperature: + 248 °F



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