

**Head Office:**  
Cyclotech House,  
Armstrong Road,  
Basingstoke,  
Hampshire, RG24 8NU,  
U.K..  
Tel. +44 (0) 1256 347 450  
Fax. +44 (0) 1256 347 451

**Aberdeen:**  
Skene House,  
24 Rubislaw Den North  
Aberdeen, AB15 4AL,  
U.K.  
Tel +44 (0) 1224 329 090  
Fax +44 (0) 1224 329 091

**Stavanger:**  
Rogaland Science Park,  
Prof Olav Hanssensvei 7A,  
Postboks 8034,  
N-4068 Stavanger,  
Norway,  
Tel. +47 51 87 46 00  
Fax. +47 51 87 46 01

**Houston:**  
11490 Westheimer,  
Suite 900,  
Houston,  
Texas 77077,  
USA  
Tel. +1 713 425 6315  
Fax. +1 713 783 0067



## TECHNOLOGY BULLETIN

### HIGH CAPACITY DESANDING HYDROCYCLONE PACKAGE

CPP6

Available for short/long term rental.



This Desanding Hydrocyclone unit comes complete with Accumulator vessel, is fully skid-mounted and has all necessary manual valving and local instrumentation. It has been designed to provide high process flexibility and can be used for the following duties:

- **Produced Water Desanding / De-Chalking** - Conventional produced water treatment Desanding Hydrocyclone system
- **Jet Water Desanding** – Sand removal from jet water during sand-jetting operations
- **Seawater Treatment** – Removal of heavy solids from seawater intake
- **Wellhead Desanding** – Removal of sand and other solids particles in low pressure, low concentration applications.

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Potential applications of the pilot plant include:

- EWT and EPS systems
- short term and long term expansion of existing Desanding Hydrocyclone systems;
- Interim system prior to the installation of purpose built systems;
- Short term and long term testing of Desanding Hydrocyclones at high capacity.
- PWRI Pilot Schemes

### System Specification

Nominal Capacity	6,000 bpd, (40 m <sup>3</sup> /h)
Design Pressure	150 psig
Design Temperature	-10°C/+110°C
Design Code	ASME VIII division 1
Vessel Material	Carbon Steel to NACE MR-0-175
Corrosion allowance	3mm
Plates and Liner Material	316L SS / Ceramic
Material Traceability	DIN 50049 3.1B
Pipework	ANSI B 31.3,
Valving	ANSI B 16.34, manual
Instrumentation	Pressure Gauges (Bourdon type)
Skid Box Frame	Designed to DNV 2.7.1
Paint	standard offshore 3 coat external paint system
Utility Requirements	Nil
Skid Dimensions	3500 (L) x 1700 (W) x 1800 (H)
Skid Dry Weight	2,300 kg
Skid Operating Weight	3,000 kg

### Nozzle Schedule

<b>Inlet</b>	<b>3"</b>	<b>150# ANSI</b>	<b>RFWN</b>
<b>Overflow Outlet</b>	<b>3"</b>	<b>150# ANSI</b>	<b>RFWN</b>
<b>Accumulator Outlet</b>	<b>2"</b>	<b>150# ANSI</b>	<b>RFWN</b>
<b>Accumulator Vent</b>	<b>1 1/2"</b>	<b>150# ANSI</b>	<b>RFWN</b>
<b>Accumulator Flush</b>	<b>1"</b>	<b>150# ANSI</b>	<b>RFWN</b>

### Notes

- Control is manual but the system can be re-configured for local pneumatic control, local electronic control or remote electronic control.
- The unit has a nominal capacity of 6,000 bpd, (40m<sup>3</sup>/h) with a pressure drop of 45 psi, (3 bar) and a capacity of 9,000 bpd, (60m<sup>3</sup>/h) with a pressure drop of 75 psi, (5 bar).