

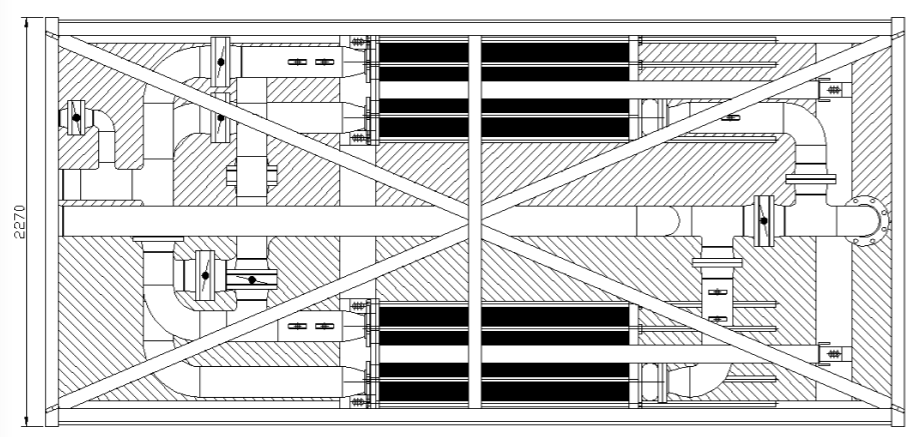


BLUEFIN

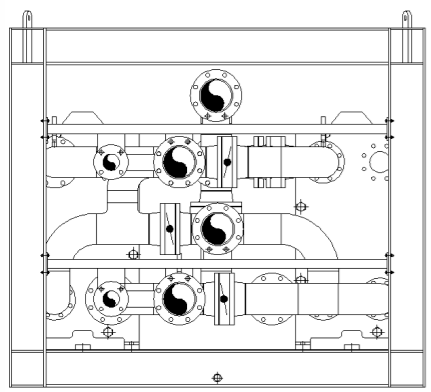
Drilling Fluid Temperature Control System



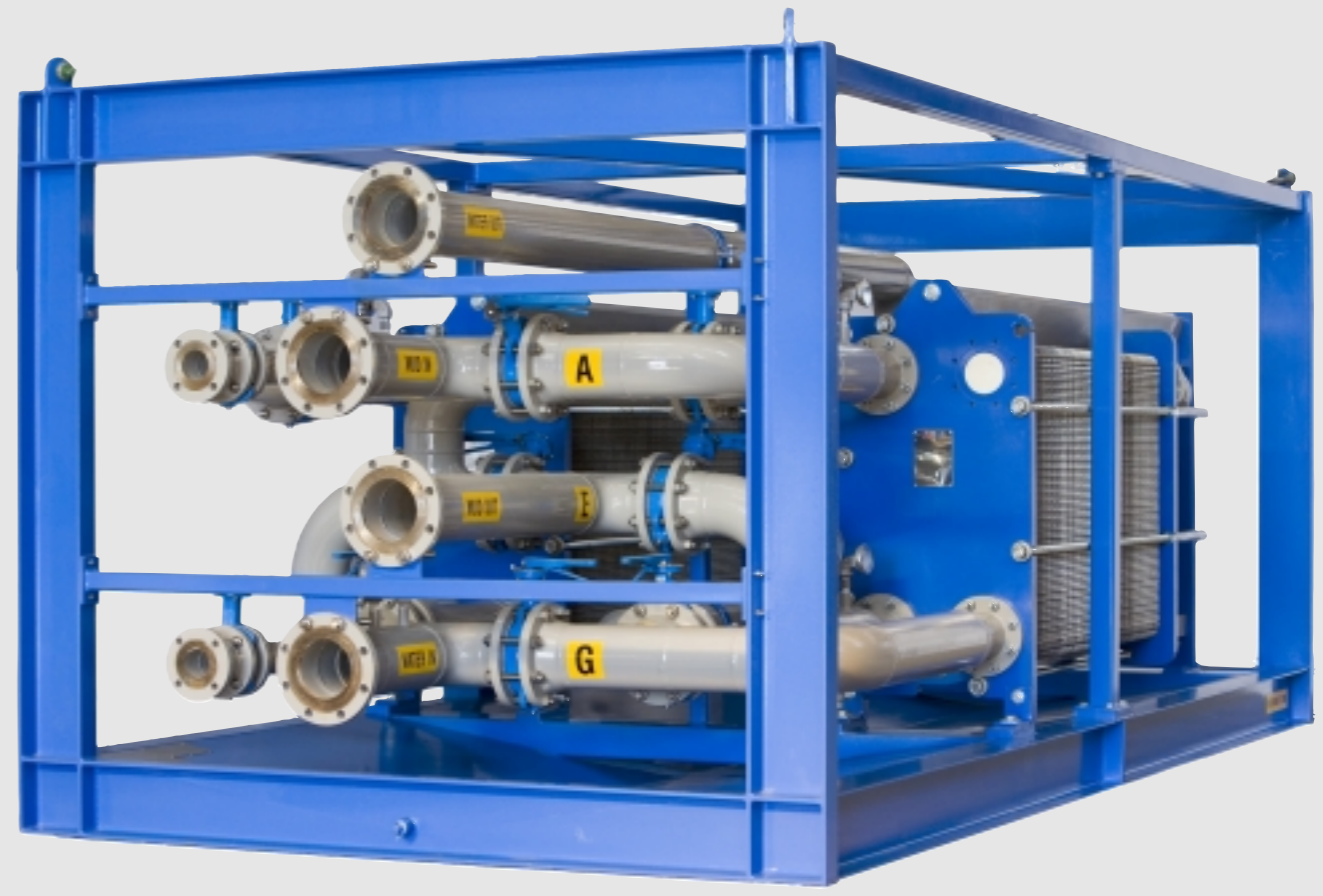
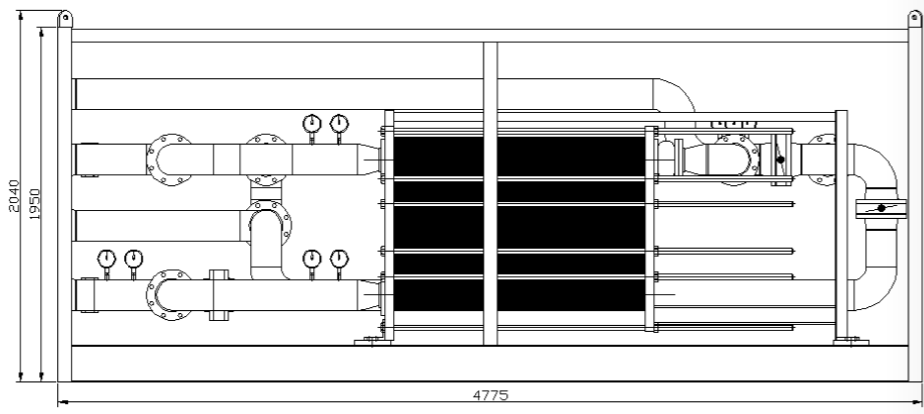
PLAN VIEW



END VIEW



SIDE ELEVATION



The Bluefin features:

- Units can operate in parallel or series to suit drilling mud circulation rates and temperature drop requirements
- Condition monitoring by pressure gauges and mechanical thermometers of all flow streams
- Rugged skid mount and frame, certified for offshore lift (SGS Gp - Societe Generale de Surveillance)
- A Titanium heat exchanger to resist corrosion
- Simple site operation and easy on-site installation through quick release hose connection
- All fabrication is to ASME and API standards
- Compact design allows for ease of transport by truck, or by container and minimises required deck space for installation

Technical Data		Connection schedule:	
Design pressure	10 bar/150psi	Seawater outlet	6" Ansi 150
Temperature max.	110° C	Seawater inlet	6" Ansi 150
Flow rate mud	230m3/hr	Mud inlet	6" Ansi 150
Flow rate sea water	258 m3/hr	Mud outlet	6" Ansi 150
Liquid hold up volume	175 litres	Injection Point for Seawater	3" Ansi 150
Dry weight operating	6.1 tons	Injection point for mud side	3" Ansi 150
Wet weight operating	6.6 tons		
Heat Exchanger plates	327 max		
Channel plates	Titanium gr.1		
Pressure vessel code	ASME / API		
L x W x H (mm)	4800 x 2300 x 2050		

DFE Bluefin has been designed to provide a safe and efficient process for cooling drilling fluids on high pressure/high temperature well sites for water based and oil based muds.

The Bluefin's high efficiency heat exchanger, lowers operating costs and reduces the operational risk.

Benefits

- Lowering of flash point for site safety when using oil based fluids
- Greater accuracy with "downhole" measurement when using MWD devices
- MWD and logging tools can go to a greater depth and with increased endurance due to reduced thermal stresses
- Reduced usage of additives and increased life of elastomers

The Bluefin offers an economical design in dimension and weight, with ease of site operation and servicing in mind.