



5,000 psig - 15,000 psig Steam Heat Exchangers

Airpac Bukom's heat exchangers, consist of a pressurised shell containing a set of process coils. Steam is piped from an external steam generator into the shell to heat the variety of hydrocarbons, fluids or chemicals flowing through the process coils in order to lower their viscosity.

Airpac Bukom's range of portable skid mounted 5,000 psig, 10,000 psig (conventional 3" ID or high rate 4" ID) and 15,000 psig heat exchangers are primarily used to complete the package of heat transfer during surface well test operations as well as extensive use in pipelines, storage tank, oil bunkers and refineries during operations, maintenance, cleaning and decommissioning projects.

Features and Benefits

- Improves separation of oil/water emulsions and foaming oils by reducing surface tension through heat transfer
- Prevents formation of hydrates
- Reduces viscosity of oil to improve burner efficiency
- Equipped with toolbox and spares
- Fully automatic temperature control
- All units are DNV 2.7-1 approved

Technical Specifications

5,000 psig - 15,000 psig Steam Heat Exchangers

Performance

Model	5,000 psig	10,000 psig	4" ID 10,000psig	15,000psig
Capacity Exchanger	4.5 MMBtu/hr, H ₂ S Service			
Shell:				
Shell Size	44" x 15'		52" x 17'	
Max. Working Pressure	230 psig			
Test Pressure	345 psig			
Capacity of the Vessel	4850 litres		8290 litres	
Steam Inlet	2" Weco fig. 206			
Condensate Outlet	2" Weco fig. 206			
Temperature Controlled	Yes			
Rupture Disk*	Yes		No	
	4" 16 Bar is fitted as double safety device for shell protection		Not applicable	
Safety Relief Valve	Yes		Yes, 2 off	
	6" inlet - 10" outlet 12 Bar fitted to protect the shell against coil failure		1 no 6" - 10" outlet 10.3 Bar & 1 no 4" - 6" outlet 11.3 Bar fitted to protect the shell against coil failure	
Heating Capacity	4.5 MMBtu/hr			
Steam Input Pressure	10 Bar 178°C			
Condensate Return	Controlled by Floater Steam Trap 2" equipped with bypass system			
Coil:				
Manifold Inlet Working Pressure	5000 psig	10000 psig	15000 psig	
Test Pressure	7500 psig	15000 psig	22500 psig	
Coil Design Temp	-20°C to +121°C			
Inlet Product	3" Weco fig. 602	3" Weco fig. 1502	4" Weco fig. 2202	
Outlet Product	3" Weco fig. 602	3" Weco fig. 1502	4" Weco fig. 2202	
Inlet Valve	3" 5000 psig	3" 10000 psig API 6A	3" 15000 psig API 6A	
Outlet Valve	3" 5000 psig	3" 10000 psig API 6A	3" 15000 psig API 6A	
Adjustable Choke Size	Available upon request			
Process Coil Size	Average 3"		Average 4"	Average 3"
Bypass Manifold	ID 3 1/16"		ID 4 1/16"	
Service	H ₂ S Service NACE MR-01-75			

* Airpac Bukom's latest steam heat exchangers are fitted with two PRV safety valves which replace 1 safety valve and rupture disk assembly. Please contact your Airpac Bukom representative for further guidance.

Weights & Dimensions

	5,000 psig	10,000 psig	4" ID 10,000 psig & 15,000 psig
Overall Length	6200mm / 244"	17200mm / 677"	7900mm / 311"
Overall Width	2100mm / 83"	2000mm / 79"	2200mm / 87"
Overall Height	2600mm / 102"	2600mm / 102"	2650mm / 104"
Weight	10000 Kgs / 22046 lbs	12000 Kgs / 26455 lbs	16000 Kgs / 35274 lbs

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Airpac Bukom Oilfield Services UK is certified to BS EN ISO 9001:2015 & BS EN ISO 14001:2015



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