



## 5,000 psi - 15,000 psi 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 psi, 10,000 psi (conventional 3" ID or high rate 4" ID) and 15,000 psi 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

- 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 psi - 15,000 psi Steam Heat Exchangers

### Performance

Model	5,000 psi	10,000 psi	4" ID 10,000 psi	15,000 psi
Capacity Exchanger	4.5 MMBtu/hr, H <sub>2</sub> S Service			
<b>Shell:</b>				
Shell Size	44" x 15'		52" x 17'	
Max. Working Pressure	230 psi			
Test Pressure	345 psi			
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			
<b>Coil:</b>				
Manifold Inlet Working Pressure	5000 psi	10000 psi	15000 psi	
Test Pressure	7500 psi	15000 psi	22500 psi	
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 <sub>2</sub> 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 psi	10,000 psi	4" ID 10,000 psi & 15,000 psi
Overall Length	6200mm / 244"	7200mm / 283"	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

N.B. Weights and dimensions are for guidance only; please contact your local Airpac Bukom office for individual asset details

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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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