



## 10,000 psi - 15,000 psi Steam Heat Exchangers

The Airpac Rentals range of 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.

The portable skid mounted 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

## 10,000 psi - 15,000 psi Steam Heat Exchangers

### Performance

Model	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	150 psi		
Test Pressure	287 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	10000 psi	15000 psi	
Test Pressure	15000 psi	22500 psi	
Coil Design Temp	-20°C to +121°C		
Inlet Product	3" Weco fig. 1502	4" Weco fig. 2202	
Outlet Product	3" Weco fig. 1502	4" Weco fig. 2202	
Inlet Valve	3" 10000 psi API 6A	3" 15000 psi API 6A	
Outlet Valve	3" 10000 psi API 6A	3" 15000 psi 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 Rentals' latest steam heat exchangers are fitted with two PRV safety valves which replace 1 safety valve and rupture disk assembly. Please contact your Airpac Rentals representative for further guidance.

### Weights & Dimensions

	10,000 psi	4" ID 10,000 psi & 15,000 psi
Overall Length	7200mm / 283"	7900mm / 311"
Overall Width	2000mm / 79"	2200mm / 87"
Overall Height	2600mm / 102"	2650mm / 104"
Weight	12000 Kgs / 26455 lbs	16000 Kgs / 35274 lbs

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

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Airpac Rentals UK is certified to  
BS EN ISO 9001:2015 & BS EN ISO 14001:2015



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