



INDIRECT HEATER

The Indirect Heater unit has system of coils immersed in water bath. The coils separated into High and Low pressure by a choke increases greatly the surface area between the well effluent flowing inside coil and the water bath for heat transfer by conduction to increase the temperature of the well effluent before separation process to prevent hydrate formation or to break-down foaming oil to get good separation and accurate flow rate.

The heater is fired with produced gas (when there is no H₂S) or diesel. Oiltest units are dual fire gas or diesel for versatility. The diesel or gas fire heats up the water bath and the water bath heats up the embedded coil and the well effluent flowing inside the coil, hence the term Indirect Heater.



Specification

Capacity	:	2 MMBTU/Hr
Service	:	H ₂ S
Nominal W.P.:		5000/3000 psi (350/200 bar)
TEST PRESSURE:	HP Coil	: 7500 psi (517 bar)
	LP Coil	: 4500 psi (310 bar)
Corrosion allowance	:	1/16" (1.6 mm)
Maximum Design Pressure	:	9139 psi
Design Temperature	:	121°C (250°F)

Vessel W.P. Maximum W.P.	:	2.8 psi (.196 bar)
Connection:		
Inlet	:	3" WECO Fig. 1002 F
Outlet	:	3" WECO Fig. 602 F
Separator Gas Connection	:	1" WECO Fig. 602 F
Dimensions:		
Length	:	28'4" (8.65 m)
Width	:	7' (2.13 m)
Height (for transportation)	:	9' (2.74m)
Height (in operation)	:	20.9' (6.32 m)
Total weight	:	29040 lbs (13170 kg)
Consumption Gas:		80 m3/Hr Diesel: 100 1/Hr