

## WELL TESTING OPERATIONS: Surface Well Testing Equipment

## Well Testing Equipment Catalogue | Surface Well Testing Equipment CRUDE OIL BURNER

The protection of the environment is of paramount importance, the Oiltest designs allow for the selection of a burner to meet any well conditions.

Crude oil burners are designed for maximum clean burn capability over individual ranges with minimal fall out. The use of compressed air to assist combustion features in all types available, the higher performance units have modified nozzle arrangements which in turn require higher volumes of air. Altering ratios of both air and injected/screen water versus oil production, can enhance the burner performance and visual appearance of the produced smoke.

The crude oil burners come in various head configurations, sized to suit flow conditions. The burner equipment has become a major part of well clean-up hardware. Ever increasing environmental pressures ensure this type of equipment is operated at its maximum performance.

## **Specifications**

Service	H2S	Oil lines:		
Maximum Wor	king Pressure: 1440 psi	Maximum Allowable	Maximum Allowable W.P.:1440 psig	
Atomiziation:	Mixing chamber with vaned	Test pressure:	2160 psig	
	Swirl-boss	Design Temperature:	25 to 400°F	
Oil Capacity:	5000 BOPD per head	Service:	Sour gas (H2S)	
Water Screen P	ressure: 247 psig	Oil capacity (Single h	Oil capacity (Single head): 5000 bbls/d maximum,	
Water Injection	Pressure247 psig		variation to fluid parameters	
Pilot:	Pneumo/electric ignite	or (Triple head):	15000 bbls/d	
Pilot Gas:	Propane	Water requirements:	3 to 5 bbls min, cooling	
Connections:			requirements	
Oil Inlet	3" Fig 602 F	Air line:		
Air Inlet	3" Fig 602 F	Maxium Allowable W	<b>.P.:</b> 1440 psig	
Water	3" 602	Test pressure:	2160 psig	
Pilot	1/2"	Design Temperature:	25 to 400°F	
		Air capacity:	3000 cuft/min @ 300 psig	
Check valves on	air and oil line		Atomising air requirements: 500 scft/bbl Oil	
	on water outlets in water ring.	MATERIALS		
Test plugs for al	burner tips	Burner Head/Nozzle:	AISI 4130	
ABS certified		Piping:	A333 Gr 6	
Burner head fitte	d with isolation valve marine an	ti- Elbows, tee's:	A420 WPL 6	
corrosion coating	3	Flanges:	ASTM A350 LF2	
		Head cowling:	5 mm Aluminium plate	
<b>Overall Dimens</b>		Skid frame:	BS4360 Gd 43D or equivalent	
Width:	3.5'	Hardness requiremen	ts: 22 Hrc Max Average	
Length:	4.5'		(for wetter surface parts)	
Height:	4'	Impact toughness:	Charpy values at minimum	
Weight:	550 lbs (250	kg)	design temperatures	
		Corrosion allowance:	Minimum 0.0625"	

www.oiltestgroup.com

WELL TESTING OPERATIONS: Surface Well Testing Equipment

Well Testing Equipment Catalogue Surface Well Testing Equipment .					
<b>Specification</b>	S				
NOZZLES/FLANGE	S & FLOWLINE	CONNECTIONS			
		Burner head:			
Oil lines:	2" Sch 80 line,	Oil Inlet:	2" Fig 602 Female		
Air lines:	3" Sch 80 line,	Air Inlet:	3" Fig 602 Female		
		Piping:			
SAFETY DEVICES		Oil Intlet:	2" Fig 602 Female		
		Air Inlet:	3" Fig 602 Female		
Oil line check valve:	3" Long pattern wafer check				
	valve	MISCELLANEOUS			
Air line check valve:	4" Long pattern wafer check				
	valve	Ignition system:	Propane fuel		
VALVES			Hi-energy lodge		
Oil Outlet:	3" 600# RF flange Ball		Single igniter		
	Valve	Burner head rotation:	(Optional) 1/2" NPT female		
Air line:	2" 600# RF flange Ball		port		
	Valve	Base plate rotation:	Slew ring		
DIMENSIONS		Oil, Air- line rotation:	3" fig 602 piping swivel joints		
H x L x W:	1.8 x 1.4 x 1.1 metres		allowing rotation of burner		
Weight:	100 kg (Skid & Three Heads)		head centre line.		

www.oiltestgroup.com