

Sea Emerald burner

The Sea Emerald™ well test burner is used to provide clean, efficient disposal of produced oil during well test operations.

An independent environmental laboratory test found that the Sea Emerald burner can operate at 99.993% efficiency under a wide range of conditions.

The burners have a unique nozzle design that uses compressed air to atomise the oil in a mixing chamber. Internal air mix atomisers produce much smaller hydrocarbon droplets than conventional burners. Smaller droplets burn faster, eliminating the potential for raw hydrocarbons to fall out of the flame.

Carefully positioned multiple burner tips create maximum flame turbulence and air ingestion. Multiple tips discharge the fuel in a unique array. The combination of atomised droplets and maximum air ingestion makes the burn very clean.

An efficient pilot system with remote igniters provides the ignition source for the finely atomised spray.



Features and benefits

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Highly efficient, environmentally friendly; third-party rated at 99.993% efficient

Modular design can be used in multiples to match the anticipated flow rates

Stable pilot assembly provides the reliable ignition source

Low oil pressure reduces pump capacity requirement

Clean start up, wide turndown ratio, simple operation

Applications

Onshore and offshore oil and gas well testing and clean-up operations

Technical specifications

Oil flow rate (3 heads)	12,000 BOPD	636 -1907 m3/d
Air nominal flow rate	4500 scf/min	127 m3/min
Maximum working pressure	1440 PSI	9928 kPa
Test pressure	2160 PSI	14892 kPa
Temperature rating	-20°F to 300° F	-29°C to 149°C
Dimensions (L x W x H)	5.45 x 6.56 x 5.51(ft)	1660 x 2000 x 1680 (mm)
Weight	2640lbs (light weight option 1790lbs)	1200 kg (light weight option 812kg)
Standards	NACE MR01-75 ASME B31.3 DNV 2.7.1 transportation skid	

NOTE: The above referred design codes are for guideline purposes only. For specific information and any additional codes applicable to comply with region specific standards please consult your local Expro representative.