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 operates at 99.993% efficiency under a wide range of conditions.

The burners have a unique nozzle design that uses compressed air to atomize the oil in a mixing chamber. Internal air mix atomizers 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 atomized droplets and maximum air ingestion makes the burn very clean.

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

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

Features & Benefits:
- 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
## Technical Specifications:

### OIL
- **Flow Rate (3 heads)**: 12,000 BOPD (636,1907 m³/d)
- **Maximum Working Pressure**: 1440 PSI (9928 kPa)
- **Test Pressure**: 2160 PSI (14892 kPa)

### AIR
- **Nominal Flow Rate**: 4500 scf/min (127 m³/min)
- **Maximum Working Pressure**: 750 PSI (5171 kPa)
- **Test Pressure**: 1125 PSI (7756 kPa)

### TEMPERATURE RATING
- **-20°F to 300°F (-29°C to 149°C)**

### DIMENSIONS (approx.)
- **Length x Width x Height**: 5.45 x 6.56 x 5.51 ft (1660 x 2000 x 1680 mm)
- **Weight (estimate with transportation frame)**: 2640 lbs (1200 kg)
- **Standards**: NACE MR01-75, ASME B31.3 & DNV 2.7.1

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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.