



GeoFlow™ Muffler

The GeoFlow™ Muffler is at the heart of any Medium and High Enthalpy Geothermal Well Testing solution. An atmospheric vessel that is designed to promote bulk separation of the steam and liquid phases, enabling the efficient and safe processing of fluids whilst gathering critical data that is utilised to aid in the characterisation and evaluation of Geothermal reservoirs.

Units are fitted with a metering manifold capable of measuring bulk liquid flowrates, and a James Lip Apparatus on the inlet of the unit to measure the lip pressure. These two variables can then be inserted into an empirical formula to calculate the fluid enthalpy and total steam mass flow rates.

Tailor built and designed to handle high steam and liquid rates along with high temperatures, the GeoFlow™ Muffler is the perfect solution to minimize carryover of liquid droplets out with the steam which could lead to inaccurate liquid measurements and an underestimation of key Geothermal reservoir capacity.

Further augmenting the GeoFlow™ Muffler with the Expro EDGE and Data to Desk system allows for high-accuracy and real-time gathering of key data points to be transmitted globally to any device to unlock rapid and informed operational decision making in real time.

Optional removable liquid level indicators can be fitted to provide additional operational oversight and the system can be designed such that the liquid level in the GeoFlow™ Muffler is automatically set at the optimum point and does not require continuous monitoring and control by an operator in close vicinity to the vessel.

The modular nature of the GeoFlow™ Muffler lends itself to allow for different configurations to best suit the project parameters and allows for easy transportation of the different sections.

Features and benefits

- Manage high steam and liquid rate bulk separation
- Fitted with James Lip Apparatus and metering manifold to gather critical reservoir characterization data
- Modular design to allow for tailored setup and ease of transportation
- Fully compatible with Expro EDGE and Data to Desk system for real-time, remote data gathering
- Fitted with inlet Silencer to reduce noise pollution on surrounding areas

Applications

- Onshore Medium and High Enthalpy Geothermal Well Testing & Clean Ups
- Data Gathering to Assist with Reservoir Characterization and Evaluation





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Specifications

Design standards	ASME B31.3 PED 2014/68/EU
Pressure rating	Atmospheric
Temperature range	0°C to 220°C
Flow rate capacity	120kg/s
Liquid outlet capacity	90kg/s (gravity driven)
Weight (dry) (kgs)	9200 kg
Dimensions (L x W x H) (m)	2.5m x 2.5m x 7.4m (Vessel) 0.8m x 0.8m x 6.1m (Silencer)

Other sizes, configurations and pressure ratings are available to meet most applications, for more information contact your local Expro representative or email welltesting@exprogroup.com

