GALILEO Technologies

Vaporizer
(ambient and boiler)

Technical Product Note

Galileo offers two different options for vaporizing liquefied natural gas ‘LNG’: *the ambient vaporizer and the boiler vaporizer.*

The ambient **vaporizer, sometimes called the rig vaporizer**, consists of a coil system in which the LNG flows through while exchanging the energy (heat) from the ambient which is at a higher temperature. In this process, the LNG absorbs this energy, heating up and boiling off to the gas state.

- An ambient vaporizer typically works on a range of 25 MSCFH (thousand standard cubic feet per hour).

Ambient vaporizer

The boiler vaporizing system, also known as the frac vaporizer, is primarily utilized in fracking operations. While it shares a similar objective with the ambient vaporizer, its application in frac operations involves much higher flow rate demands, surpassing the capacity of a standard ambient vaporizer and quadrupling the flow rate to 100 MSCFH.

To achieve this, the system incorporates a boiler, enabling a significant increase in energy transfer. This heightened energy transfer facilitates the rapid conversion of liquid to gas at the elevated flow rates encountered in frac applications. Additionally, this system finds utility in extremely cold weather conditions, where ambient temperatures alone are insufficient to effect the transformation of liquefied natural gas (LNG) into a gas state.

- The frac vaporizer system can be equipped with an LNG pump for high flowrate/high pressure (HF/HP) applications also known as Tier 4 frac systems in unconventional well E&P.

Frac vaporizer – heat exchanger skid with LNG pump skid (placed on the ground)

Frac vaporizer – boiler skid

Galileo Global Link – Scada System

As with any of the other Galileo Technologies products, this equipment is also monitored by our Galileo Global Link – Scada System. This system processes the information of all our equipment around the world and it is remotely operated by specialized technicians that provide support 24/7. The system contemplates hundreds of monitored devices and can be applied to the entire range of products.

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