

Natural Gas Liquefiers... Simple, Efficient, Reliable

Cosmodyne's closed loop gaseous nitrogen expansion refrigeration cycle (reverse Brayton cycle) for simple, cycle has an operating range of 100% to 25% with proportionate energy savings. This operability range is important since most LNG plants have a steep ramp up period. The process further allows the operator the

design allows for the equipment to be skid mounted and modularized for easy site erection, installation, and even relocation. Furthermore, the environmentally friendly nitrogen gas allows for simpler site permitting, eliminates the need for hydrocarbon refrigerant storage, and easier maintenance procedures (no in and out purging required). The nitrogen cycle is easy to operate and control since the nitrogen cycle is less sensitive to changes to feed gas composition and ambient conditions. The complexity of changing the mixture of several hydrocarbons to match the changing gas composition

temperature setting when needed. Cosmodyne's natural grade LNG or other product requirements. The fractionation step(s) moreover can also recover other natural gas liquids such as HD-5 propane. Cosmodyne also offers engineered cycles to meet specifications for smaller capacity plants and single mixed refrigeration process cycles for larger capacity plants.

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