New Offshore Nitrogen Vaporizers for Gas & Oil Well Service

C ryquip has developed a new hybrid fan assisted vaporizer which utilizes waste heat from an on board engine systems to warm and vaporize nitrogen. The new unit uses forced draft ambient air supplemented with heat from a radiator assembly mounted on the air inlet by the customer. This allows for efficient use of engine waste heat from the exhaust stream. The radiator assembly can be used to capture the energy from the many waste heat streams that are available onboard. Typical deck engine systems can have as many as four heat sources that can be utilized without drawing any parasite power for the vaporizer. The fan is powered by the customer's available hydraulic system.

The exhaust gas heat exchanger and radiator assembly may be positioned in any orientation. Normally the EGV unit would be placed in series with the main engine waste heat vaporizer (downstream) in the Nitrogen circuit.

Oil and gas well enhancement has created an ever increasing need for high pressure nitrogen. These



new vaporizers have been developed with this demand in mind while maintaining a green approach. To date these energy sources have been wasted. The utilization of this "free" energy efficiently improves vaporizer performance while lowering the client's carbon footprint. For more information please visit www.cryoquip.com

