



HEATEC

FIRE TUBE REBOILER

THE HEATEC FIRE TUBE REBOILER is a fired heat exchanger that can be used in systems that process natural gas for pipeline distribution.

Two of these units may be used in a gas processing system. One may be used to regenerate glycol. The other may be used to regenerate amine.

When glycol is used to remove moisture from gas the glycol becomes a mixture of glycol and water. It must be regenerated before it can be reused. Regeneration removes the water from

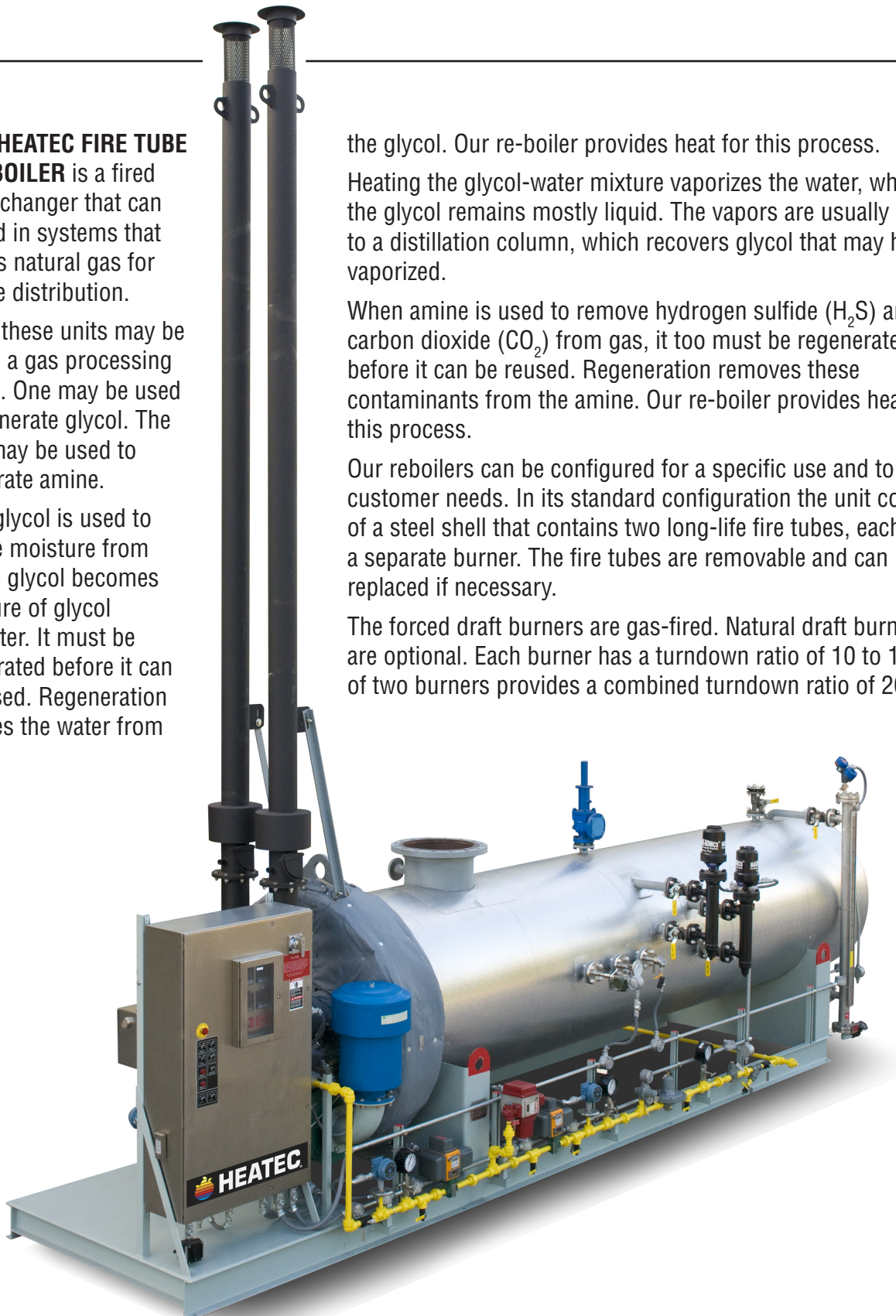
the glycol. Our re-boiler provides heat for this process.

Heating the glycol-water mixture vaporizes the water, while the glycol remains mostly liquid. The vapors are usually piped to a distillation column, which recovers glycol that may have vaporized.

When amine is used to remove hydrogen sulfide (H_2S) and carbon dioxide (CO_2) from gas, it too must be regenerated before it can be reused. Regeneration removes these contaminants from the amine. Our re-boiler provides heat for this process.

Our reboilers can be configured for a specific use and to suit customer needs. In its standard configuration the unit consists of a steel shell that contains two long-life fire tubes, each with a separate burner. The fire tubes are removable and can be replaced if necessary.

The forced draft burners are gas-fired. Natural draft burners are optional. Each burner has a turndown ratio of 10 to 1. Use of two burners provides a combined turndown ratio of 20 to 1.



The reboiler has natural circulation within the unit and does not require a booster pump. This reduces the electrical energy required—an important consideration for offshore platforms.

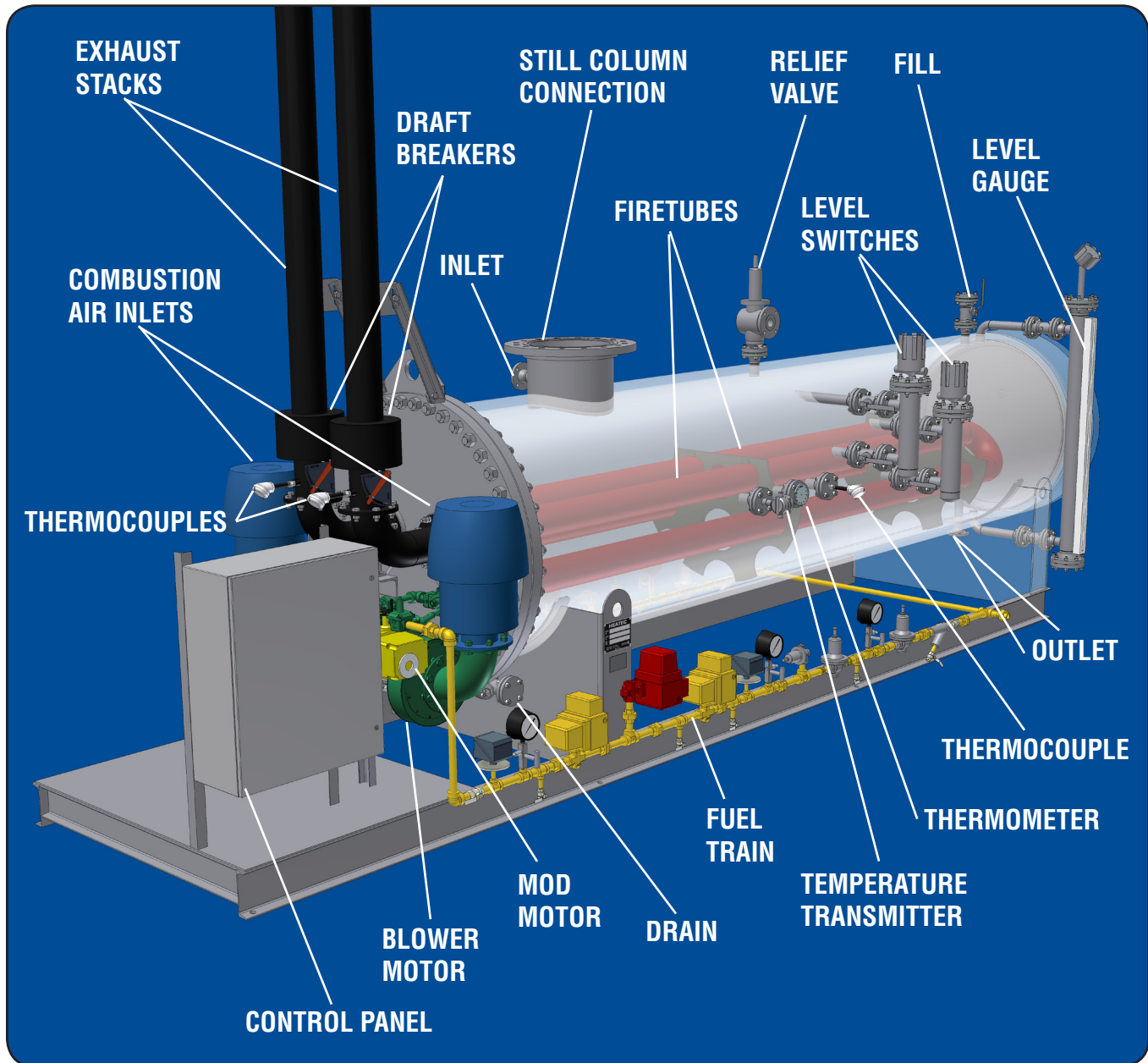
Each exhaust stack has a draft breaker that keeps the flow of combustion air constant as operating temperatures change.

The heater shell is insulated to minimize heat loss

and increase thermal efficiency.

The reboiler can be provided in various sizes to meet customer needs. The reboiler pictured here is designed with output up to 624,000 Btu/Hour.

Heatec also offers helical coil reboilers. Please refer to Heatec Publication 8-10-242 for information on these products and the considerations for choosing between them.



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