

FLARE GAS RECOVERY UNITS

Recover, Recycle, Reuse

ZEECO®



WHAT IS A FLARE GAS RECOVERY UNIT?

A Flare Gas Recovery Unit (FGRU) is a system that captures flare gases and returns them to the production plant for reuse as fuel or process gas.

HOW DOES AN FGRU WORK?

ZEECO FGRU systems are engineered for reliability and efficiency.

- **Capture:** gases are induced from the flare header to the FGRU
- **Compress:** gases pass through a compressor or an ejector to increase pressure
- **Condition:** gases are conditioned to be sent back to the plant
- **Reuse:** gases return to the plant for reuse as fuel or process gas

If an upset occurs requiring flaring, the recovery process stops, and the facility's flare system safely destroys the waste gases.

FGRU BENEFITS:

ZEECO FGRU systems deliver an exponential advantage that literally pays for itself.

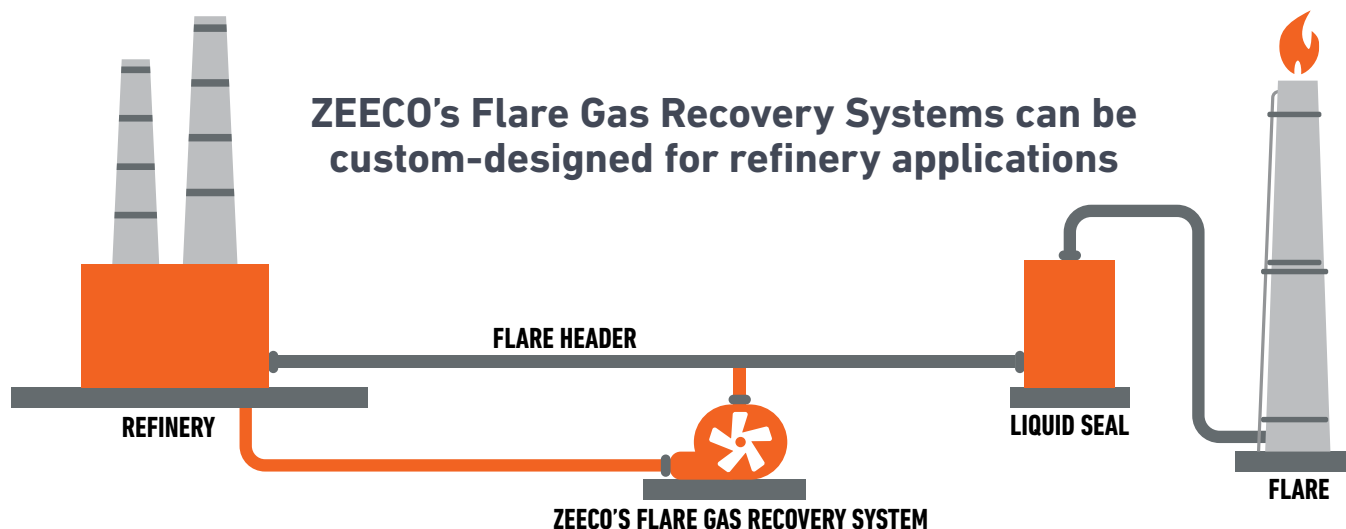
- Near-zero flaring
- Reduces fuel gas consumption
- Reduces flare light, noise, & odor
- Lengthens the life of the flare tip
- Reduces emissions & complies with environmental regulations

TYPICAL FGRU SIZING:

- Flowrate ranges: 0.1 typically 10MM SCFD (11,100 NM3/hr.)—maximum recovery rates can be infinite
- Pressure ranges: 15 to 1,200 psig (83 barg)

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ZEECO's Flare Gas Recovery Systems can be custom-designed for refinery applications



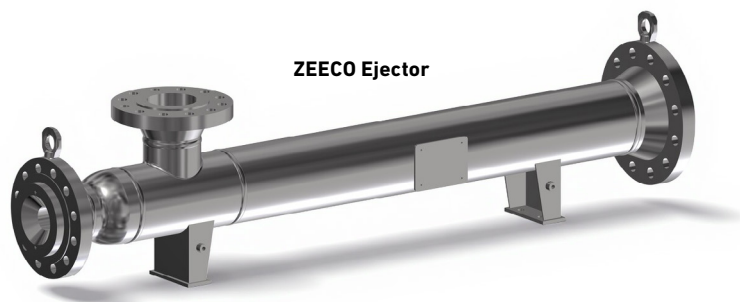
SERVICES OFFERED:

- › Engineered studies: Let us help you determine if an FGRU system is right for your facility. Our engineers will recommend system sizing, compressor technology, and any necessary ancillary equipment. They will develop the cost estimate and evaluate the payback period to help you decide the economic feasibility of an FGRU system.
- › Engineering, design, fabrication, supply, installation, and startup of FGRU packages.
- › Field Support after equipment startup.

ADVANTAGES OF EJECTORS IN FGRUs:

Zeeco offers ejector technology as an alternative to traditional compressors. In certain situations, ejectors can provide distinct advantages for an FGRU system.

- › Reliability & simplicity
- › Low maintenance requirements
- › Significant cost savings
- › No moving parts



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