
# Mechanical Refrigeration Units

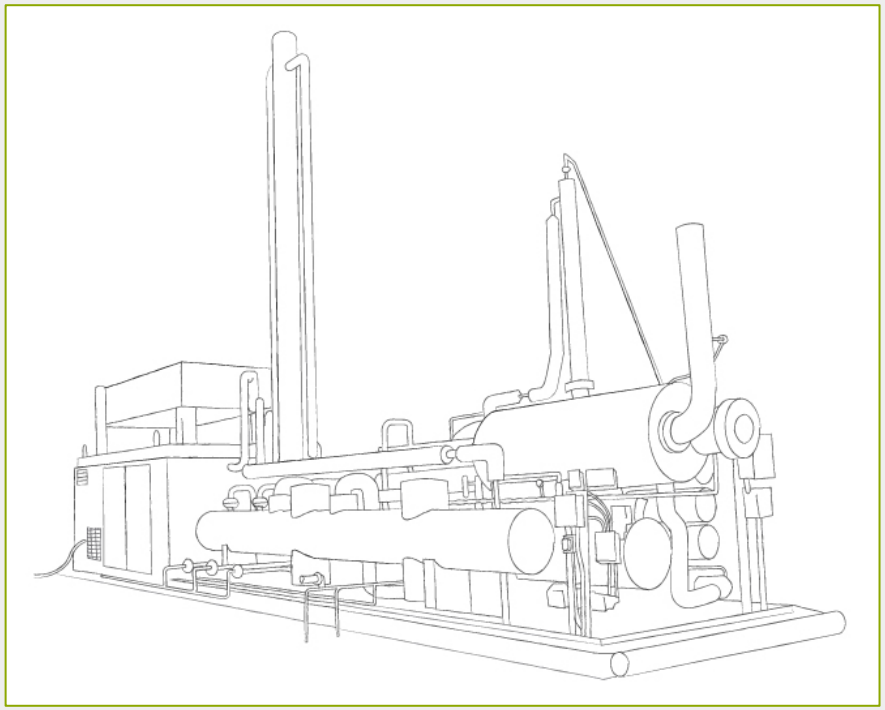
## Product Overview

# Superior Technology

**No other solution affords the same durability, universal applicability, or performance**

- Features a turnkey, stand-alone process; no additional dehydration or stabilization equipment is required
- Highest refrigeration horsepower in the class, but with turndown capability
- Remote monitoring and unique controls that enable ethane rejection
- Rapidly deployable—can be transported and mobilized anywhere in North America in 3-5 days
- Proven reliability in the extreme desert heat, as well as the frigid Bakken winters
- Modular design allows multiple MRUs to be combined for large scale gas processing
- Ideal complement for any back-end device, such as gas-to-liquids or compressed natural gas units

**BFX Mechanical Refrigeration Unit (MRU)**



**Efficient, Reliable, Scalable, Mobile**

# Profitable Customer Solutions

| Waste Monetization | Environmental | Modular Midstream |
|---|---|---|
| Make Money from Waste Stream; Rapid Payback; Customer Profit Center | Regulatory Solution; Green Technology; Leading VOC Impact; Thwart Shut-ins | Clustered BFX Units; Alternative to Fixed Plant – Faster, Cheaper, Redundant |

| Total Flare Requisite | Turnkey and Streamlined | Tailored Solutions |
|---|---|---|
| First-step in Total Flare Reduction; Ideal Complement to Back-end Devices | Superior to Alternative Technologies – Economically, Environmentally, Operationally | Flexible Arrangements; Cash Leases, POP Leases; Hybrids |

# Product Specifications

**Three core MRU models scaling from smaller wells to multi-well solutions and gathering station processing**

- Features a turnkey, stand-alone process; no additional dehydration or stabilization equipment is required
- Three core MRU models with broad gas flow ranges:
  - GRU-1 from 0.5 MMscfd to 2.5 MMscfd;
  - GRU-2 from 0.5 MMscfd to 5.0 MMscfd;
  - GRU-3 from 0.5 MMscfd to 10.0 MMscfd;
- GRU-1 and GRU-2 share a common platform, only differentiated by the number of embedded compressors and size of the dehydration unit (which impact the heating capacity available for NGL stabilization and glycol regeneration)
- Unlike "dewpoint control" technology that has been repurposed for NGL extraction, BFX's line of MRUs was specifically designed and engineered to maximize the production of stabilized, transportable NGLs
- BFX technology features remote monitoring

**MRU Unit Specifications**

| Model | GRU-1 | GRU-2 | GRU-3 |
|---|---|---|---|
| Gas Flow Range (Mcfd) | 500 to 2,500 | 500 to 5,000 | 500 to 10,000 |
| Refrigeration Capacity (BTU/HR @ -10°F SST) | 455,000 | 910,000 | 1,365,000 |
| Refrigeration Horsepower (# Units/HP Rating Ea.) | 125 (1/125) | 250 (2/125) | 375 (3/125) |
| Reboiler Duty (BTU/HR) | 270,000 | 515,000 | 1,500,000 |
| Maximum Operating Pressure (PSIG) | 1,420 | 1,420 | 1,420 |
| Electric Service: | | | |
| Volts/Phase/HZ | 480/3/60 | 480/3/60 | 480/3/60 |
| Run/Start Amps | 224/560 | 394/730 | 594/930 |
| Service Amp Rating | 350 | 500 | 800 |
| Generator Size (KW) | 250 | 350 | 500 |
| Skid Dimensions and Weights: | | | |
| Process Skid | 8' 6" x 31' 10" | 8' 6" x 31' 10" | 8' 6" x 31' 10" |
| Weight (lbs) | 27,000 | 27,500 | 29,000 |
| Refrigeration Skid * | 8' 6" x 27' 2" | 8' 6" x 30' 2" | 8' 6" x 39' 3" |
| Weight (lbs) | 21,500 | 26,000 | 32,500 |
| Oil Heater Skid | NR | NR | 5' 0" x 12' 0" |
| Weight (lbs) | | | 4,500 |
| Initial Fill Quantities: | | | |
| R-507a Refrigerant (lbs) | 570 | 770 | 984 |
| Ethylene Glycol (75/25) (gal) | 375 | 500 | 360 |
| Refrigeration Compr. Oil (gal) | 19 | 37 | 55 |
| Heating Oil (500°) (gal) | | | 320 |

* Height for Transport - 11' 10"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