



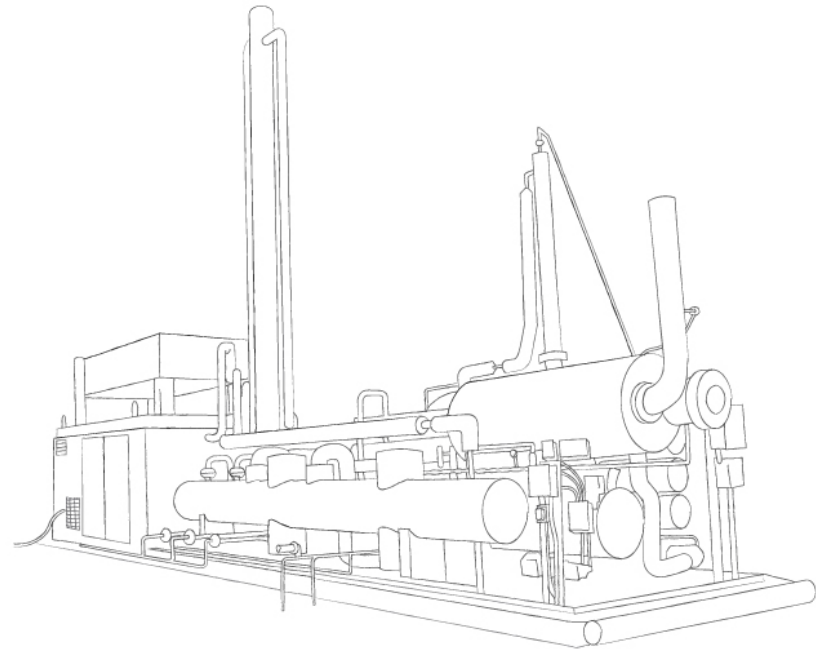
# Mechanical Refrigeration Units

## Product Overview

**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**



# 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:
  - GRU-1 with a gas flow rate of 2.0 MMscfd;
  - GRU-2 with a gas flow rate of 3.5 MMscfd;
  - GRU-3 with a gas flow rate of 5.0 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 some competitor units that are repurposed designs for dewpoint control or other purposes, BFX's line of MRUs was specifically designed and engineered to produce stabilized, transportable NGLs
- BFX can deliver customized 10.0 MMscfd units as requested

MRU Unit Specifications			
Model	GRU-1	GRU-2	GRU-3
Gas Flow Rate (Mcf/d)	2,000	3,500	5,000
Refrigeration Capacity (BTU/HR)	350,000	700,000	1,050,000
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

\* Screw Compressor(s)  
 \*\* Max. Height for Transport - 11' 10"

Note: GRU-1, GRU-2, and GRU-3 each have turndown capability to 500 Mcfd