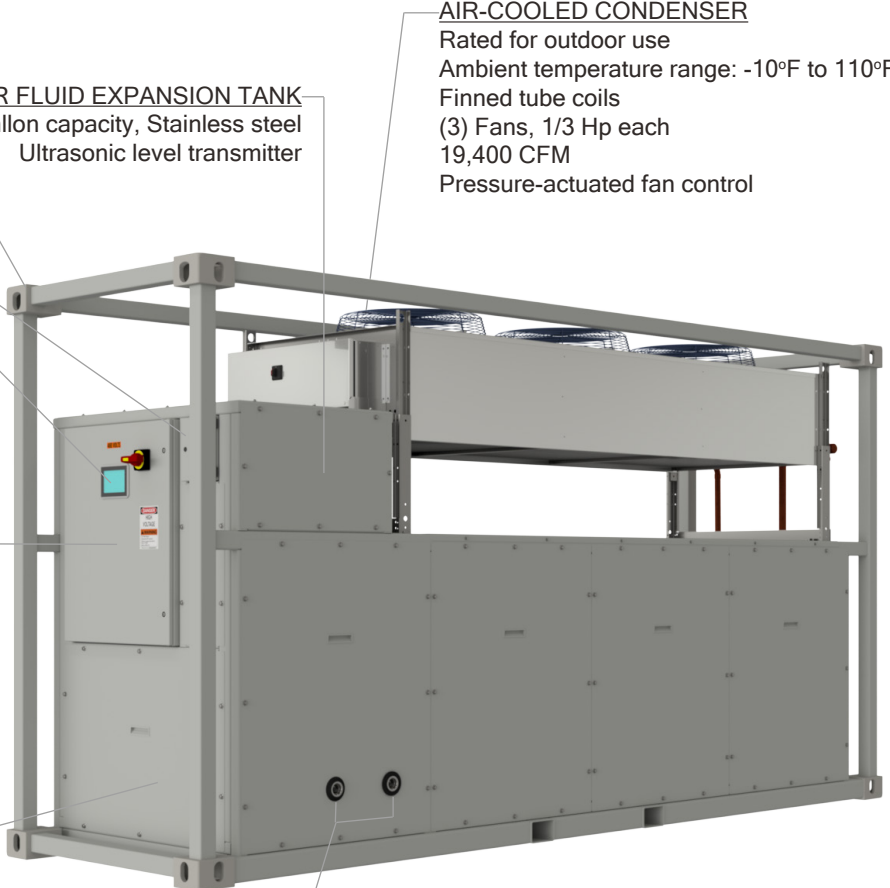


High Capacity Ultra-Low Temperature Chiller

for hydrocarbon extraction process temperature control and solvent recovery



Rated for 23 kW at -60°C



HEAT TRANSFER FLUID EXPANSION TANK
25 Gallon capacity, Stainless steel
Ultrasonic level transmitter

AIR-COOLED CONDENSER
Rated for outdoor use
Ambient temperature range: -10°F to 110°F
Finned tube coils
(3) Fans, 1/3 Hp each
19,400 CFM
Pressure-actuated fan control

HEAVY DUTY WELDED STEEL FRAME
Durable powder coated access panels

Electronic expansion valve controller

HUMAN-MACHINE INTERFACE (HMI)
7" Color touchscreen
Wi-Fi Remote access control option
Allen-Bradley PLC by Rockwell Automation
Data acquisition + Alarms

UL508A INDUSTRIAL CONTROL PANEL
NEMA 4X Enclosure
Power supply: 82 Amps, 460VAC 3-Phase
Single point electrical connection
Fused disconnect switch with safety door lock
Control power transformer
Circuit breakers
Motor starters

CENTRIFUGAL PROCESS PUMP
Stainless steel
Rated flow: 30 GPM at 45 PSI
3 Hp TEFC Magnetic drive motor

STAINLESS STEEL AND COPPER PROCESS PIPE/TUBING/VALVES
1-1/2" FNPT Connections (ANSI Flanges or sanitary tubing clamps optional)
3" Thick closed-cell elastomeric foam pipe insulation
Strainer on process return piping
RTD Temperature sensor and transmitter on supply piping
Pump discharge pressure transmitter
Flow transmitter

2-STAGE CASCADE REFRIGERATION SYSTEM
40 Hp, with 3 stages of compression
(2) Bitzer semi-hermetic reciprocating compressors
Compressor variable frequency drive
Electronic expansion valves
Oil management system with separators and controls
Stainless steel brazed plate heat exchangers
Suction accumulator
Refrigerant filter-driers
Refrigerant sight glass and moisture separator
High pressure switches and transmitters

Dimensions (LxWxH): 180" x 54" x 96"
Approximate weight: 4,750 lbs.

Temperature	-40°C	-50°C	-60°C	-70°C
Cooling Capacity (kW)	32.7	32.1	22.8	17.0

Temperature	-40°F	-50°F	-60°F	-70°F	-80°F	-90°F
Cooling Capacity (Btu/hr)	111,000	108,000	105,000	87,000	72,000	61,000

