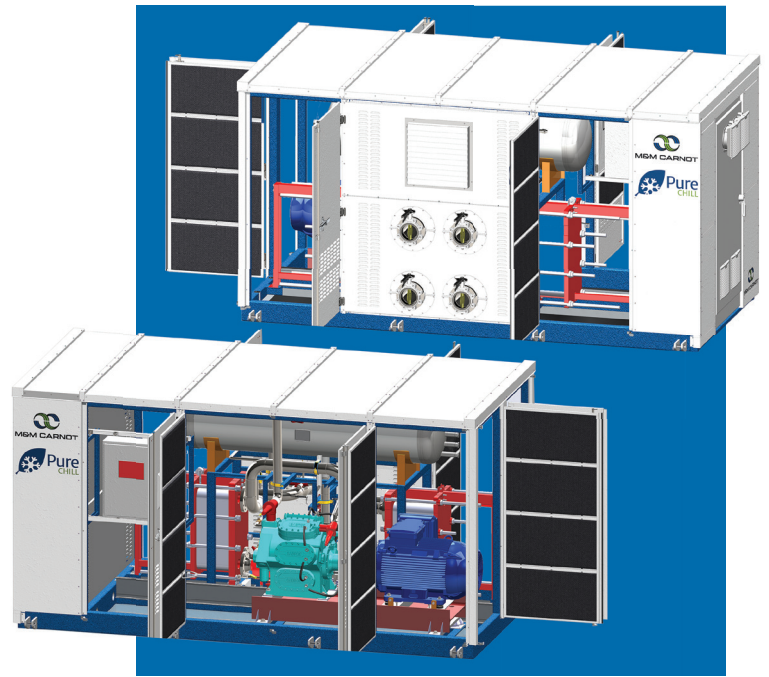




Low Charge Ammonia Packaged Chiller

A natural refrigerant-based refrigeration system that is safe, sustainable, and energy efficient in all climates.



Design Features:

- Industrial-grade direct drive recip compressor
- Flooded plate & frame chiller
- PLC-based control system with touch screen user interface
- High efficiency oil management system
- Sound attenuated enclosure
- Vibration isolation drive base
- Ammonia leak detection
- Built-in ventilation
- Used with water, propylene glycol, or ethylene glycol as secondary refrigerant
- Cooling capacities ranging from 30 tons to 400 tons
- Secondary refrigerant temperature ranging from -2°F to 60°F

Benefits:

Contractor:

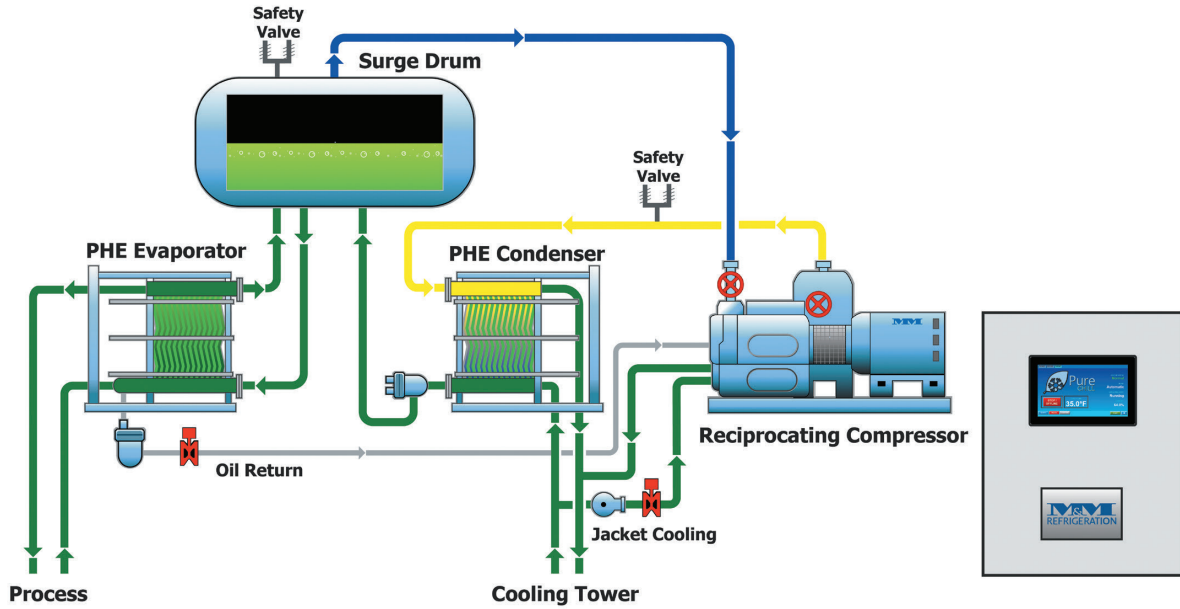
- Single point power connection
- Outdoor, indoor, floor mounted or rooftop mounted.
- Insulated surge drum and cold piping
- Full access doors for commissioning, start-up and service
- Easy rig points

End User:

- Up to 10% better full-load compressor energy efficiency vs. screw compressor designs. Superior part load energy efficiency
- Industrial Grade Compressor
 - Long Product Life
 - Higher level of reliability
 - Superior part-load efficiency vs. screw compressor
- Low Installed Cost
 - Plug and play design
 - Lower Maintenance
 - Fully serviceable compressor
- Reduced regulatory burdens
 - Low charge ammonia
- Increase revenue-generating square footage by eliminating engine room
- Environmentally friendly, future-proof natural refrigerant



System Diagram



Standard Package Includes:

- Plate and frame evaporator and condenser. Evaporator has 304SS plates and the condenser has 316 SS plates
- Mechanical float valve liquid makeup
- One reciprocating compressor direct driven with 1800 rpm TEFC motor
- NEMA 4 VFD without bypass in 460V or 575V
- Dual flow flooded surge drum vessel complete with level eyes, and dual relief manifold assembly
- Stainless steel ammonia piping
- Surge drum and cold piping insulation
- Ammonia leak detector
- Ammonia detection horn and strobe
- Emergency / temperature exhaust fan
- PLC-based control system with touch screen interface

Options:

- Evaporative condenser
- Air cooled condenser
- Adiabatic condenser
- 316 SS evaporator plates
- Titanium evaporator and condenser plates
- Outdoor enclosure
- Pump skid
- Condenser skid

Technical Data

Model	Capacity TR	Power Consumption (BHP)	Motor (HP)	COP	R717 Charge (lbs.)	Dry Weight (lbs.)	Dimensions (ft.)	Sound Level dB(A)
PURE CHILL 104L	93	78	100	5.6	108	7200	11 x 6 x 8	77
PURE CHILL 106L	139	116	150	5.6	119	7800	11 x 6 x 8	79
PURE CHILL 108L	185	154	200	5.7	128	8600	12 x 6 x 8	80
PURE CHILL 112L	278	228	250	5.7	172	11000	14 x 6 x 8	81
PURE CHILL 116L	370	303	350	5.8	216	12500	16 x 6 x 8	82

Note: Based on 35°F evaporating, 95°F condensing

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