

NATURAL REFRIGERANT AMMONIA CHILLERS

Natural Refrigerant Ammonia Chillers from the Budzar Green line of Budzar Industries are suitable for either indoor or outdoor configurations and are both energy efficient and environmentally friendly.

The Natural Refrigerant Low Charge Ammonia Chiller is shipped completely wired, piped, tested and ready to install and contains either an open screw or reciprocating compressor.

Other features include:

- Floating heat pressure control
- Close evaporator temperature approach
- Integrated gas detection
- Automatic oil recovery

- Pumped Liquid overfeed
- Electric heater/s to maintain temperature of 40°F

The Low Charge Ammonia Chillers feature:

- Electric heaters
- Suction discharge service valves, crankcase heater
- Liquid injected cooling
- Oil separator with heaters and sightglass
- Surge drum with level control, feed system and recirculation pumps
- Brazed plate exchanger

- Regulating valves
- Stainless steel tank
- NEMA 4/12 enclosure for safety controls/contactors
- High pressure safety controls
- Digital PLC Control & Display

The Low Charge Ammonia Chillers from Budzar Industries are ideal for air-conditioning systems, food chilling systems, pharmaceutical & medical facilities and extraction systems. Ammonia chillers from Budzar Industries are available as an air-cooled chiller or a water-cooled chiller and are based on more than 40 years of engineering, designing and manufacturing experience in the process heat transfer industry.

Benefits of Low Charge Ammonia

- Temperatures to -40°C
- High volumetric capacity
- Energy Efficient
- Cost Effective
- Global Warming Potential (GWP) 0
- Ozone Depletion Potential (ODP) 0
- Smaller pipe sizes are required allowing refrigeration systems to fit into smaller areas and a more efficient heat transfer
- Small leaks are easily identified without the need for special equipment
- Suitable for high, medium, and low temperature industrial processes



Budzar Industries also designs and manufactures specialized equipment for non-standard applications. Our engineers have extensive experience in process chilling and heating applications for such industries as: chemical, defense, energy, extraction, food, medical, pharmaceutical, plastics, rubber, tire and, semiconductor. We take the time to understand your current and future needs and design solutions targeting high quality and fast payback.

PROGRAMMABLE LOGIC CONTROLLER PROVIDES:

PROGRAMMABILITY

-Software may be customized, transferred from a personal computer and updated via programming key

DISPLAYED INSTRUMENTATION INFORMATION

- Pump discharge pressure and flow
- Compressor suction pressure, temperature and superheat
- Liquid refrigerant temperature and sub-cooling
- Evaporator inlet and outlet temperature
- Compressor pump status

CONTROLLER FUNCTIONS

- Selectable controlled parameter (supply or return temperature)
- Head pressure control via fan motor cyclone (air-cooled units)

HIGH TECHNOLOGY

- All alarm situation, values of the monitor parameters and the status of the controlled devices are saved for service/maintenance review
- Troubleshooting information is displayed when circumstances require assistance
- The controller identifies marginal operating conditions and adjusts chiller operation



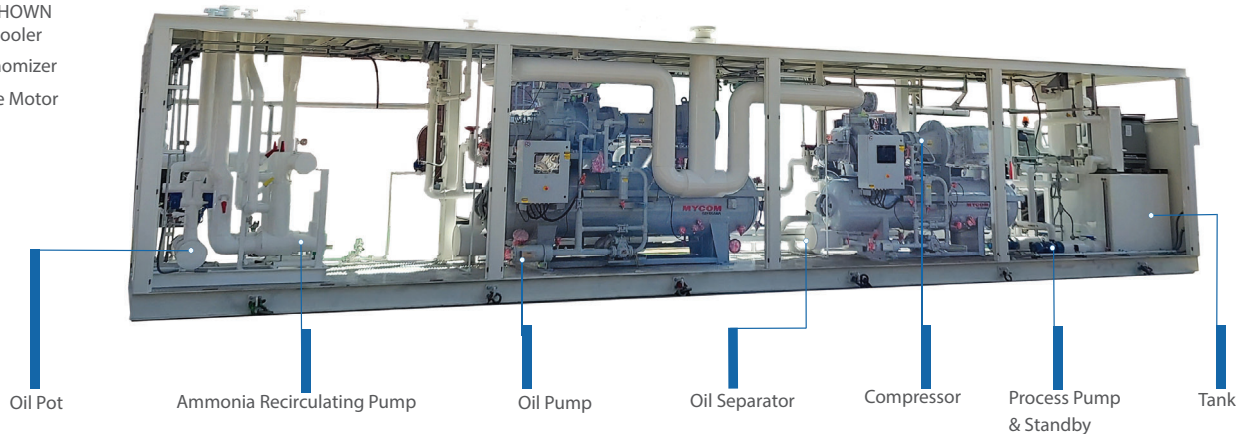
LOW CHARGE AMMONIA CHILLERS

OPTIONS AVAILABLE

- Air or Water cooled
- Quick Freeze
- CRN
- Refrigerant Circuits: single circuit or independent for redundancy/-maintenance
- Packaged Systems with integrated tank and pump(s) for a complete drop in installation
- Remote monitoring/control
- Process tank by number



- NOT SHOWN
- Oil Cooler
 - Economizer
 - Drive Motor



UNITS AVAILABLE FROM BUDZAR INDUSTRIES

