

NATURAL REFRIGERANT PROPANE CHILLER

Natural Refrigerant Propane Chillers are highly efficient and climate friendly.

The Natural Refrigerant Propane Chillers contains a semi-hermetic screw compressor with features as:

- Automatic capacity control via a Modulating Unloading Valve which decreases energy consumption
- Superior part-load performance
- PID chilled water set-point through slide valve
- Precise Rotor Tip Clearance reduces the leakage between high and low pressure cavities during compression
- Step capacity control
- Compressor motor protector

The Natural Refrigerant Propane Chiller features:

- Self-Contained
- Independent chiller circuits with block valves
- Exhaust fans
- Audible and visual alarm systems
- Process safety valve exhaust port
- Independent isolation valves
- Heat trace with temperature elements and heat trace indicator
- Separate pump butterfly valves and disconnect
- Z Purge panel
- Cooling Tower Systems
- Pressure transmitter
- Variable frequency drive
- Touch Screen HMI (human interface module)
- High voltage lockable disconnect
- E-stop/E-stop reset
- EY (explosion proof conduit fittings)
- PLC Processor
- Cabinet temperature sensor for heater control
- Phase monitor
- Danfoss superheat control boards

The Natural Refrigerant Propane Chiller is an R290 propane self-contained closed-loop system. Constructed in an ISO container (optional) and featuring insulation on all refrigerant piping and evaporator, the propane air-conditioning system has a diamond plate flooring and an ASME coded evaporator.

Other features of the The Natural Refrigerant Propane Chillers include:

- Drager explosion proof propane leak detection audible and visual alarm system
- Twin screw compressor
- Water-cooled or Air-Cooled condenser
- Liquid line isolation valves, service valves and pressure gauges
- Liquid line solenoid valves
- Electronic expansion valves
- Hot gas by-pass for capacity control
- Three (3) way pressure safety assemblies; (rupture disk, pressure transmitter chamber and a pressure safety valve)
- Evaporator inlet and outlet temperature monitoring
- Differential pressure transmitter
- Biometric dampers
- NEMA 4/12 Class I Div. II Electrical Classification



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 cycling

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



Refer to www.Budzar.com for ISO Certificate with specific details.