

NATURAL REFRIGERANT CARBON-DIOXIDE (CO₂) CHILLERS

Natural Refrigerant Carbon-Dioxide 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 Carbon-Dioxide Chiller from Budzar Industries delivers high efficiency and reliability for low temperature cooling and combines expert custom engineering and world-class CO₂ system components to deliver a top quality industrial chiller.

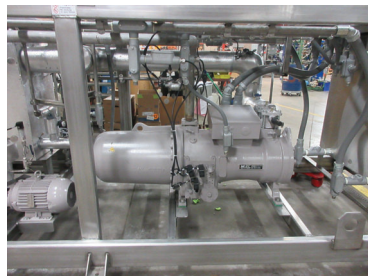
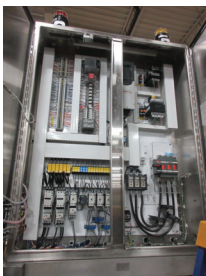
Other features include:

- Transcritical and/or Subcritical design
- Brazed or welded joints
- Electronic Expansion Valve
- Variable speed gas cooler fan controls
- Stainless Steel or Copper piping
- Modulating hot gas
- High pressure safety controls
- Digital PLC Control & Display
- Easily accessible components
- Programmable Logic Controller
- Pressure receiver
- Heat Reclaim options

The Carbon-Dioxide Chillers from Budzar Industries feature precise temperature control and are ideal for commercial and industrial refrigeration systems, transport refrigeration, compact systems, dairies, and supermarkets. The CO₂ chillers are based on more than 40 years of engineering, designing, and manufacturing experience in the process heat transfer industry.

Benefits of Carbon-Dioxide

- High density gas which results in a greater cooling effect with a low circulating mass
- High energy content at higher temperatures
- Offers greater cooling capacity than most synthetic refrigerants
- Very low viscosity
- Cost effective
- Global Warming Potential (GWP) 1
- Ozone Depletion Potential (ODP) 0
- Relatively insensitive to pressure losses
- Heat reclamation
- No long-term side effects
- Non-flammable
- Low toxicity (only dangerous in high concentrations)



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 monitored 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

