

NATURAL REFRIGERANT ISOBUTANE SIMULTANEOUS CHILLER/HEAT PUMP

The **Natural Refrigerant Isobutane Chiller/Heat Pump** from the Budzar Green line of Budzar Industries are suitable for applications requiring **simultaneous heating and cooling**.

The **high temperature Isobutane Chiller/Heat Pump** is economical and space-saving. With two-setpoints, it reduces energy consumption and lessens the environmental impact by channeling the cooling generated to your other process, eliminating the need for separate heating and cooling equipment.

The High Temperature Isobutane Chiller/Heat Pumps feature:

- Temperature range to 20°F to 240°F
- Simultaneous temperature control
- Stainless steel, nickel brazed plate style evaporator heat exchanger with insulation
- De-superheater exchanger
- Regulating valves
- Guaranteed-off timer(s) to defeat compressor short cycling
- NEMA 4 Outdoor-rated, electrical enclosure
- Digital PLC Control & Display
- Liquid refrigerant temperature and sub-cooling

The **Natural Refrigerant High Temperature Isobutane Chiller/Heat Pump** is shipped **completely wired, piped, tested and ready to install** and is the ultimate system for efficiency. Integral regulating valves allow for variable pumping on heating, cooling and source water loops.

The **Isobutane Chiller/Heat Pumps** from Budzar Industries, with a range starting at 1 ton to over 740 tons, are ideal for a wide array of industries and applications, including medical equipment, food, metal, dairies, chemical, sterilization, evaporation, and steam generation processes. Isobutane Chiller/Heat Pumps from Budzar Industries are available as water-cooled chiller/heat pumps and are based on more than 40 years of engineering, designing and manufacturing experience in the process heat transfer industry.



Benefits of Isobutane

- Effective and efficient with high temperatures
- Low discharge pressures
- Non-Toxic
- Cost Effective
- Global Warming Potential (GWP) 4
- Ozone Depletion Potential (ODP) 0
- 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 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

OPTIONS AVAILABLE

- Chiller or Chiller Heat/Pump
- Number of Circuits
- UL
- Leak Detection assorted safeties
- Fused Disconnect
- Screen Size
- Class 1, Div II