CUSTOM OPTIONS FROM BUDZAR

- •Heat Pump or Chiller with Heat Recovery
- •Water cooled or Air cooled Condensing
- •Applications for indoor or outdoor use
- Configured to Multi-Circuit
- •Cascade Systems for wide temperature ranges
- •Add Fluid Coolers to the loop
- •Add Pump & Glycol loops to your Heat Pump
- •Add Remote Monitoring hardware to controls

CFC/ HFC REFRIGERANT OPTIONS

R1233zd

- •Cooling temperature (Source Out): 85°F Min.
- •Heating temperature up to 250°F

R1234ze

- •Cooling temperature (Source Out): 5°F Min.
- •Heating temperature up to 180°F

R513A

- •Cooling temperature (Source Out): 5°F Min.
- •Heating temperature up to 155°F

*Budzar will custom build equipment compatible with any refrigerant and heat transfer fluid per your specifications

PROPANE (R290) OPTIONS

- •One of the most versitile refrigerants with a wide temperature range
- •Cooling temperature (Source Out): -33°F Min.
- •Heating temperature range up to $135^{\circ}F$
- •COP depends on supply temperature
- Safety Group A3
- •Global Warming Potential: 3
- •Ozone Depletion Potential: 0

WHY BUDZAR?

Customized to meet your requirements

Client-driven customization makes Budzar Industries uniquely special. Our engineering team will work with you to develop a tailored solution for your specific needs.

Full capability manufacturing

Budzar Industries is a one-stop operation with over 100,000 square feet of dedicated manufacturing and testing floor space.

Top quality, non-proprietary components

Products from Budzar Industries are engineered, designed, and manufactured using non-proprietary parts to make maintenance, repairs, & upgrades on-time and affordable.

Servicing Nationally and Internationally

Our products deliver accurate temperature control in 49 states and internationally across six continents.

Parts and Service

With our expert technicians & large inventory of spare parts, we will keep your facility up and running!

Contact Us!



www.budzar.com 440-918-0505





"Precision in Every Degree"

& HEAT RECOVERY

WHY HEAT PUMPS?

BENEFITS OF HEAT PUMPS

- •The ability to heat and cool simultaneously
- •Uses waste energy from already supplied source
- •High Coefficient of Performance
- •Eliminates the need for seperate heating and cooling equipment, which leads to:
 - Maximizes facility floorspace
 - •Cost savings in process equipment
 - Cost savings in utilities

MODES OF HEAT PUMPS

- Heat Pump for heating only
- Chiller with Heat Recovery Balanced
 Distributes even loads of heating and/or cooling
- Chiller with Heat Recovery Unbalanced
 Distributes varying loads of heating and/or cooling





For facilities focused on **Sustainability**, Budzar Industries also offers **Budzar Green Natural Refrigerant Products**, including standard and custom designed Natural Refrigerant Heat Pumps. No matter the temperature range or load for your process, Natural Refrigerants have excellent **Coefficient of Performance & Low GWP**, which aid in the reduction of greenhouse gas emissions.

CO2 (R744) CHILLER WITH HEAT RECOVERY

- •Cooling temperature (Source Out): -50°F Min.
- •Transcritical Design: Heating up to 230°F
- •Subcritical Design: Heating up to 65°F
- Insensitive to pressure losses
- •Non-toxic / non-flammable
- •Standard Heating COP: 4.5
- Standard Combined COP: 8
- Safety Group A1
- •Global Warming Potential: 1
- •Ozone Depletion Potential: 0

ISOBUTANE (R600a) HEAT PUMP

- •Cooling temperature (Source Out): 25°F Min.
- •Heating temperature range up to 225°F
- •Simultaneous heating and cooling with two setpoints
- •Integral regulating valves for variable heating or cooling
- •Standard Heating COP: 3
- Standard Combined COP: 5
- Safety Group A3
- •Global Warming Potential: 3
- •Ozone Depletion Potential: 0

ISOPENTANE (R601a) HEAT PUMP

- •Cooling temperature (Source Out): 105°F Min.
- •Heating temperature range up to 300°F
- Simultaneous heating and cooling
- •Achieves higher temperature at
- lower pressures
- •Excellent option for Cascade Design
- •Standard Heating COP: 3
- •Standard Combined COP: 5
- Safety Group A3
- •Global Warming Potential: 5
- •Ozone Depletion Potential: 0