DALRADA
Climate Technology

DALRADA HEAT PUMPS

COMMERCIAL & RESIDENTIAL

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DALRADA
Climate Technology

Commercial Products

Dalrada Heat Pumps offer low emissions and simultaneous heating and cooling using CO2 (R744) refrigerant technology. They are CFC-free, HFC-free, and combustion-free. Dalrada's residential and commercial lineup offers up to 75% energy savings and a wide temperature range of 32°F to 185°F on select models. **Dalrada Heat Pumps are future-focused solutions for a variety of boiler room systems.**

DCT ONE SERIES

CHILLER HEAT PUMP / COMMERCIAL

REFRIGERANT TYPE: R744 / **POWER RANGES: 120-160 KW** (409.4- 545.9 MBH)

- Simultaneous heating and cooling
- Up to 7 times more efficient than traditional boilers and chiller plants
- Delivers 60–80% energy savings while reducing CO2 emissions
- Coefficient of Performance: COP 1:7
- 1 kW of electrical energy produces 4.5 kW of heating
- Hot water supply range: 122°F to 185°F (50°C to 85°C)
- Cold water supply range: 32°F to 59°F (0°C to 15°C)
- Uses R744 carbon dioxide (CO2) as the refrigerant

DCECO W

LIGHT COMMERCIAL / RESIDENTIAL HEAT PUMP

REFRIGERANT TYPE: R454B / **POWER RANGES: 5-22 KW** (15-75 MBH)

- Inverter technology and scroll compressor
- Simultaneous heating and cooling production
- Integrated active cooling production & photovoltaic hybridization
- Integrated cascade management up to 3 units
- HTR technology: Allows DHW production of up to 158°F (70°C) without the need of an electric heater
- Control throught Internet with the ecoSMART easynet
- External DHW tank (Basic)
- 43 gal/165 L Stainless steel integrated DHW tank (Compact)

DCECO W HP

COMMERCIAL HEAT PUMP

REFRIGERANT TYPE: R454B / **POWER RANGES: 20 - 85 KW** (85 - 290 MBH)

- Inverter technology and scroll compressor
- Domestic hot water production
- Heating and pool production integrated active cooling production
- Simultaneous heating and cooling production
- Possibility of hybridization with photovoltaic energy
- Cascade management up to 6 units through cascade manager
- Control through Internet with the ecoSMART easynet

DALRADA
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Commercial Products

DCE
COMMERCIAL HEAT PUMP

REFRIGERANT TYPE: R744 / POWER RANGE 125 KW (426.5 MBH)

- Uses natural CO_2 refrigerant (R744) for efficient commercial and industrial hot-water production
- Designed for multifamily, hospitality, healthcare and other large volume projects, it can produce leaving water temperatures up to 194°F (90°C)
- Coefficient of Performance: COP 4.7

DCE HT
COMMERCIAL HEAT PUMP

REFRIGERANT TYPE: R744 / POWER RANGE: 75 KW (257.6 MBH)

- Safe and Reliable. Delivers hot water up to 194°F (90°C)
- Highly efficient & energy saving: Delivers a COP of up to 4.5, providing significantly higher efficiency
- Environmentally friendly with the use of R744 refrigerant
- Year-Round Hot Water: Functions in both warm and cold climates
- Quiet Operation: Operates at just 54 dB(A), making it suitable for noise-sensitive environments such as hotels, hospitals, and residential complexes.
- Wide Operating Range: Performs reliably in ambient temperatures from −13°F to 109°F

DCE 4P
COMMERCIAL HEAT PUMP

REFRIGERANT TYPE: R32 / POWER RANGE: 105KW (358.3 MBH)

- Heats water up to 131°F (55°C), ideal for various applications
- Operates reliably even in cold climates down to -14°F (10°C)
- Provides simultaneous heating and cooling
- Perfect for buildings with varying zone requirements, including hospitals, hotels, offices, and malls
- Replaces the need for separate heating and cooling systems—one unit does it all.

DCE WT
COMMERCIAL HEAT PUMP WATER HEATER

REFRIGERANT TYPE: R32

- Extracts heat from the surrounding air, using electricity only to power the compressor, which transfers this heat
- Consumes only 25% of the energy of traditional electric water heaters
- Consistent Performance: Operates 24/7, regardless of weather conditions
- Versatile Applications: Suitable for homes, factories, schools, hotels, hospitals, beauty salons, laundromats and shower centers
- Rated Hot Water Temperature: Supplies hot water up to 131°F (55°C)
- Max Hot Water Temperature: Up to 140°F (60°C), ideal for high-demand

DALRADA
Climate Technology

Residential Products

AIR TO AIR

RESIDENTIAL AIR HANDLER/CONDENSER

REFRIGERANT TYPE: R454B

- Full Inverter System for enhanced efficiency and precise control for optimized energy consumption and comfort
- Weekly Timer Control to create a 24-hour operating plan
- Flexible installation allowing the air handler unit to be installed either vertically or horizontally
- Refrigerant Leakage Detector ensuring safe operation

MINI-SPLIT

RESIDENTIAL HEAT PUMP

REFRIGERANT TYPE: R32 OR R454B (subject to availability)

- Easy installation with no need for expert technicians
- Mini-split technology is perfectly designed for small spaces such as rooms, small shops, offices, or warehouses
- Complete system includes temperature sensors and a thermostat control for precise climate control
- Efficient heating and cooling, tailored to the specific needs of each space

AIR TO WATER

PRO SERIES RESIDENTIAL HEAT PUMP

REFRIGERANT TYPE: R32

- Lower GWP
- DC inverter compressors and controllers
- Smarter Technology: Intelligent controller, Wi-Fi monitoring
- Reduced Noise: Quiet, reinforced sound reduction
- Integrated Controls: Multiple heat pump connections
- Single controller via a user-friendly mobile application
- Guaranteed Safety: Built with anti-explosion measures

POOL & SPA

RESIDENTIAL HEAT PUMP

REFRIGERANT TYPE: R32

- Speed up heating time by 50% with smart inverter control technology
- DC brushless fan motor
- Eco-friendly R32 refrigerant
- DC Inverter twin-rotary compressor
- Titanium heat exchanger
- Super low ambient noise