CenTraVac™ chillers CVHH & CDHH
with Next-Generation Refrigerant, R-1233zd

Simplex chiller (Single Circuit) model CVHH
900 to 2000 tons (3150 to 7000 kW) – 60 Hz
850 to 2000 tons (3000 to 7000 kW) – 50 Hz

Duplex™ chiller (Dual Circuit) model CDHH
1800 to 4000 tons (6300 to 14000 kW) – 60 Hz
1500 to 4000 tons (5300 to 14000 kW) – 50 Hz

For larger cooling capacities, the CDHH model extends the proven CenTraVac design to more than 4000 tons. Duplex CenTraVac chillers utilize a series counterflow design with two independent refrigerant circuits that leverage thermodynamic staging to deliver unmatched efficiency. The Duplex design reduces energy consumption by 15 percent compared to a single compressor unit; and – when paired in a series configuration – increases the energy savings to 19 percent.

Next-Generation Refrigerant
Trane has always taken a balanced approach to selecting refrigerants, considering factors such as safety, sustainability, efficiency, sound, reliability and overall lifecycle impact. With the selection of low pressure R-1233zd, Trane continues this commitment as the industry transitions from HCFCs and HFCs to next-generation, low-GWP refrigerants. Classified as an “A1” refrigerant per ASHRAE Standard 34, R-1233zd has a GWP of 1 and is one of the few non-flammable olefin options available today.

The CVHH and CDHH models maintain the CenTraVac chiller’s best-in-class efficiencies. Additionally, a 35 percent capacity gain with R-1233zd enables performance enhancements for our CenTraVac portfolio, delivering an expanded capacity range and an efficiency shift to better serve larger, district cooling applications, plus heat recovery capabilities up to 140°F (60°C).

Energy-Saving Options
The CenTraVac chiller offers energy-saving options like integrated full or partial heat recovery, heat pump capabilities, thermal storage down to 18°F (-7.8°C) and integrated free cooling. These options are good for the environment and can often pay for themselves through reduced water consumption, reduced heating and ancillary power consumption and lower total operating costs.
Low Voltage (<600V) Options
Unit- and remote-mounted wye delta or solid state starters, or unit-mounted Adaptive Frequency™ drives.

Medium Voltage (2.3-6.6kV or 10-13.8kV) Options
Unit- and remote-mounted across-the-line, primary reactor or auto transformer starters, or remote-mounted Adaptive Frequency drives.

Tracer AdaptiView™ Controls
Trane Adaptive Control™ strategies respond to a variety of conditions to maintain efficient chiller plant operation using patented control algorithms to maximize performance in variable primary flow systems. The open protocol design works with any building automation system without the need for gateways (BACnet®, Modbus RTU and LonTalk®).

Ingersoll Rand (NYSE:IR) advances the quality of life by creating comfortable, sustainable and efficient environments. Our people and our family of brands—including Club Car®, Ingersoll Rand®, Thermo King® and Trane®—work together to enhance the quality and comfort of air in homes and buildings; transport and protect food and perishables; and increase industrial productivity and efficiency. We are a global business committed to a world of sustainable progress and enduring results.

Dimensions do not include waterboxes, hinges, starters or other unit-mounted options that may affect unit size. Contact your Trane representative for more information.

1. C1 can be at either end of the machine and is required for tube pull clearance. 2. C2 is always at the opposite end of the machine from C1 and is required for service clearance.

We are committed to using environmentally conscious print practices.