

Systems Manual Description  
15500/TRA BuyLine 5344

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## **Central Station Air Handlers**

### **Modular Climate Changers®**

#### **1,660 to 50,180 CFM - Catalog CLCH-D-7**

With its "building block" design, the Trane Modular Climate Changer air handler can be tailored for virtually any industrial or commercial application. Due to its bolted construction design, the Modular Climate Changer air handler can ship as individual modules or as one complete unit. This makes it especially well-suited for renovation, retrofit and replacement jobs in existing buildings.

The modular Climate Changer was designed to reduce the footprint and maximize usable and net rental space. This is accomplished by stacking modules in 180 degree turns as seen in the picture at left. Stacking modules can reduce the footprint up to 66%.

Utilizing Indoor Air Quality (IAQ) features and options, the unit can provide high quality clean air to any workspace. IAQ sloped drain pans, double-wall insulation, and anti-microbial coatings on both drain pan and filters reduce the microbial growth inside the unit. A large variety of fan options addresses both the acoustical and energy concerns that often result from IAQ applications. All panels are easily removable for quick access and cleaning of the unit interior.

Factory-mounted controls, starters, and variable frequency drives are wired, programmed and tested before the unit ships to reduce field labor. Fully functional in stand-alone applications or as part of the Trane Integrated Comfort System (ICS), the Direct Digital Control (DDC) system improves occupant comfort, minimizes energy usage and simplifies equipment troubleshooting.

#### **Feature: Modular Design (Stackability & Flexibility)**

**Benefit:** Stacking modules in 180 degree turns significantly reduces the unit footprint. It also adds acoustical benefits to the application. Various sections in each size can be mixed and matched to customize the unit for specific job requirements.

#### **Feature: Bolted Construction (Retrofit and Replacement Design)**

**Benefit:** Simplifies module assembly/disassembly by eliminating the need

for welding or cutting torches. Units fit through standard doorways making it an excellent choice for retrofit jobs.

**Feature: Trane ICS-Compatible Factory-Mounted Control System**

**Benefit:** Reduces installation costs, increases reliability and provides single-source responsibility and system optimization.

**Feature: Trappable Base Rail / Integral Housekeeping Pad**

**Benefit:** Drain can be properly trapped without need of housekeeping pad. Lowers install costs since unit can ship in one piece. Base rail can be set on floor or hung from ceiling, and can be used with either internal or external isolation.

**Feature: IAQ Features and Options**

**Benefit:** IAQ sloped drain pans allow for positive drainage of condensate thus minimizing microbial growth. Double-wall insulation keeps fiberglass out of the airstream and provides a smooth cleanable surface, also minimizing microbial growth. Anti-microbial coatings on drain pans and filters reduce microbial count. A large variety of fan options allows for both quiet and energy efficient applications. All panels are easily removable, allowing easy access for cleaning the interior of the unit where microorganisms and other contaminants might be found.

**Feature: Energy Efficient Design and Options**

**Benefit:** Large variety of fans can optimize design and save energy. High efficient motors reduce electrical consumption. A large choice of high efficient coils can optimize design for lowest possible air-side and water-side pressure drop.

**Feature: Quiet Options**

**Benefit:** Offering a wide variety of fan options, including both plug and Q fans, the Modular Climate Changer air handler can be designed to provide high quality air flow at extremely low sound levels. Discharge plenums with perforated insulation significantly dampen the discharge air sound power levels to provide a quiet workspace. Stacking modules in 180 degree turns also dampens sound. Factory tested sound data is provided on every unit selection no matter the configuration.

**Feature: High-Quality Dampers**

**Benefit:** Roll-formed, gasketed, airfoil-shaped damper blades promote low leakage and operational reliability.