

Trane Performance Climate Changer Air Handlers



Built for any industry



A hard-working HVAC component designed for hard workers



How an HVAC system treats indoor air can impact your workforce. Indoor air temperature, humidity, cleanliness, freshness, odors and noise must be properly managed to help ensure high levels of employee satisfaction, productivity and retention. Trane® Performance Climate Changer™ air handlers can help quietly deliver the clean, comfortable air your employees want and deserve.

Industrial and manufacturing spaces need reliable, flexible HVAC systems in order to maintain uptime, keep employees comfortable and maximize productivity. Trane® Performance Climate Changer™ air handlers are available in many configurations to do just that - and can help improve energy efficiency, too. A Trane air handler is an investment in your business that can return multiple dividends for years to come.

Flexible design

Trane® Performance Climate Changer™ air handlers are built to serve virtually any industrial setting. To best fit your specific needs, a wide variety of casing materials are offered, including stainless steel and aluminum. Many environment-specific options are available too, including direct-fired gas heat, evaporative cooling and robust fan offerings for high static pressure applications. And because retrofit applications are common in industrial environments, Trane units can be specified with a stackable design for a smaller footprint and installation into tight locations. Units can be easily broken down into individual components; our FlexFit solution ships unassembled units to meet the most challenging installations.

Reliable air delivery, minimal maintenance

Trane air handlers reliably maintain comfortable indoor air temperatures while needing minimal maintenance throughout their long life cycles.

- Available no-through-metal construction and doublewall casing panels with up to 4 inches of high-performance foam insulation to help mitigate exterior condensation and humidity-related problems under normal operating conditions.
- Outdoor air handlers incorporate design features such as welded integral base frames, low-velocity hoods and moisture eliminators to prevent water intrusion for reduced risk of water-related malfunctions and corrosion.
- Redundancy can be crucial in industrial environments. Trane Stacked Direct-Drive Plenum (SDDP™) fan arrays contain multiple fans that can help keep HVAC systems working. With no belts requiring tension adjustment or changing, SDDP fan arrays are not only reliable, but also require less maintenance
- A washdown construction option allows thorough cleaning of interior components to remove contaminants and maintain high air quality. The unit's floor design includes a continuously welded turnedup lip around the base perimeter with drains in each section.

Improved energy efficiency and indoor air quality

- Advanced energy recovery options include AHRI 1060-certified energy wheels, which recover energy from the exhaust air stream, transferring it to the air being distributed throughout a building and reducing the workload on chillers and boilers, lowering energy use and utility bills. Air-to-air plate heat exchangers are a great solution to recover sensible energy (heat only) from an exhaust air stream, with little or no cross-contamination. These exchangers may also be used for free reheat in dehumidification applications, including dedicated outdoor air systems. Where exhaust air is not available, the exchanger can be used in series to heat the dehumidified air.
- Superior casing construction techniques have doublewall panels that are up to 4 inches thick and injected with high-performance foam insulation, which keeps air leakage rates low to maximize efficiency and reduces energy consumption by more than 30 percent.**Reliable air delivery, minimal maintenance**

• AMCA 611-certified Traq™ airflow monitoring and measuring dampers can deliver improvements in both air quality and energy efficiency, ensuring appropriate levels of outside air to help maintain good indoor air quality while avoiding the excessive energy consumption associated with over-ventilation - and the added expense of an outdoor air unit.

- Trane Cool Dry Quiet (CDQ™) desiccant dehumidification wheels can help control and manage building humidity. With CDQ technology, critical dehumidification levels can be improved 20 to 300 percent by delivering dew-point temperatures 5°v to 10°F lower than traditional cooling coil systems. CDQ technology breaks the dew point barrier, supplying a dew point that is lower than the refrigerant or chilled water temperature without having to add additional cooling devices to achieve the same results. Equally important, a CDQ system can reduce energy consumption by up to 60 percent compared to a cooling coil with reheat. CDQ technology is just one of the humidity management options available from Trane.
- A wide variety of fan options includes SDDP fan arrays.

Trane: Making buildings better for life

At Trane, we have over one hundred years of proven experience to handle even the most difficult jobs, helping customers around the world improve industrial environments and achieve better financial and operational performance.



For more information about Trane solutions for industrial or manufacturing environments, visit Trane.com/PerformanceAHU or contact your Trane account manager.



Trane – by Trane Technologies (NYSE: TT), a global climate innovator – creates comfortable, energy efficient indoor environments through a broad portfolio of heating, ventilating and air conditioning systems and controls, services, parts and supply. For more information, please visit trane.com or tranetechnologies.com.