

# The Right Air Handler Makes All the Difference



## Get more features and options in a standardized system

### Life sciences manufacturing and research facilities pose a wide variety of HVAC system challenges . . .

- "Reliability and uptime are a must: is there an air handler that can be trusted to perform consistently?"
- "What can Trane do to improve indoor air quality and help reduce the amount of energy our building uses?"

Designing the right air handling system can make all the difference in maintaining highly regulated environments and it's never been easier thanks to the new Performance Climate Changer™ air handler. This next-generation cataloged air handler offers more standard components and can help reduce system energy consumption by up to 30% over previous and competitive designs.

### Standard components deliver customized performance

With more standard, pretested components, Performance Climate Changer offers advantages in both initial cost and long-term cost of ownership. Specific features and options can be easily selected to create the exact air handler you need to maintain precise and

consistent environmental conditions. Build it for today, with an eye toward the future: Performance Climate Changer gives you the flexibility to serve specific operational and environmental needs, with the reliability that comes from components that work together in a standardized design.

### Sustain environmental operating conditions vital to the life sciences

In the biotech and pharmaceutical industries, tight tolerances for temperature, humidity and other environmental factors must be strictly maintained. Additionally, companies are being challenged to use less energy to reduce operating costs. No single piece of equipment may have more influence over these factors than the HVAC system air handler. Performance Climate Changer can be configured to dependably maintain highly-regulated conditions throughout your facility.

## Performance Climate Changer -

### A more cost-effective way to manage precise manufacturing and laboratory environments

The Performance Climate Changer™ air handler is much more versatile than a traditional cataloged air handler. It offers more than two dozen unique component options that are engineered to work together as one precision piece of equipment. Offering flexibility and features previously found only on custom units, the Performance Climate Changer is a cataloged product with standard shipping cycles that provides reliable performance that contributes to bottom-line savings year after year.

### Configure an air handler that best meets your performance objectives

#### Maintain optimal indoor air quality

- CDQ™ desiccant dehumidification wheels offer Trane-patented enhanced dehumidification capabilities that help prevent building moisture problems
- Take clean air to new levels with high efficiency particulate filtration technology and the Trane Catalytic Air Cleaning System (TCACS) that has been shown to reduce bacteria and viruses
- Mixing sections with AMCA 611-certified Traq™ measurement and control damper technology helps ensure adequate outside air is introduced into the building

#### Quiet the environment

- Direct drive plenum fans are the industry's quietest, and inherently more reliable due to their design simplicity and increased part-load efficiency. Trane offers multiple blade and wheel width options to optimize acoustical performance and efficiency.
- Factory-engineered discharge plenums are optimized to reduce turbulence and improve high frequency sound attenuation

#### Improve energy efficiency

- Casing with the cataloged industry's lowest air leakage rate is designed to meet ASHRAE 111 Class 6 leakage level, achieving less than 1% leakage at +/-8" w.g.
- Energy wheels and coil runaround loops reduce energy consumption and help prevent coil freezing
- An extensive array of fan types with variable frequency drives (VFDs) enables you to optimize air flow, pressure, acoustics and energy

#### Gain peace of mind

- Factory-engineered, tested and mounted DDC controls reduce installation costs and simplify start-up and operation over the life of the product
- Performance Climate Changers are built to last: standard double-wall panels and doors, interlocking seams and full thermal breaks deliver robust and reliable performance
- Every Performance Climate Changer air handler has AHRI-certified performance and is UL-Listed for safe operation. It's our attention to detail and commitment to safe, comfortable and energy-efficient environments that makes Trane the right choice

### Bring it all together with Trane support

Trane makes it easy to select the air handling components that will deliver the performance levels you need for air filtration, humidity and temperature control, acoustics and energy efficiency.

*Use the Quick Select Guide to choose your Performance Climate Changer options at: [www.traneengineer.com/performance](http://www.traneengineer.com/performance). Or contact a Trane Account Manager for assistance.*



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](http://trane.com) or [tranetechnologies.com](http://tranetechnologies.com).