



TRANE®



CCEB Air Handling Units

For customized applications



Process and Environment

As a worldwide leader in the HVAC industry, Trane creates environmentally responsible building solutions that deliver energy performance, reduce power consumption, and save lifecycle costs. We execute programs to reduce our own impact on global climate change and help others do the same. In addition, we support green building initiatives by investing resources in the various industry committees and expertise in designing and manufacturing energy-efficient systems for buildings. Whether it is designing, operating or maintaining high performance buildings, Trane can help.



Green Buildings

Demand for environmentally responsible buildings grows as people realize that it's not a cost, it's an investment. Green buildings are designed with energy efficiency, comfort, and sustainable materials in mind. At Trane, we recognize the importance of supplying our customers with Air Handling Systems that meet and exceed environmental standards while focusing on green-build initiatives that contribute to a more sustainable work environment. With architects, designers, customers, suppliers and its employees, Trane embraces environmental responsibility in our culture.

As a leading global supplier of HVAC systems and services, with more than 450 LEED Accredited Professionals, Trane can help you achieve your green building goals.



CCEB is a custom made air handling unit, specially designed to meet the most stringent project specifications for applications such as hospitals and industry, including pharmaceutical and micro-electronics applications.

The CCEB air handling unit delivers:

- Superior performances
- Highest quality and reliability
- Custom design
- Lowest energy consumption
- Lowest installed costs.



Reliable and Customized Solutions

Trane has history of combining customer needs, engineering expertise, advanced technology and cutting edge innovation to provide superior product and systems that deliver exceptional performance. The CCEB generation continues this tradition.

CCEB is a modular air handling unit based on a robust casing design and high quality components to provide the highest quality and reliability available on the market.

Unlimited unit configurations and functions make the CCEB unit ideal for spaces with obstacles or tight space constraints, readily adaptable for the retrofit and replacement market.

The range includes 54 standard unit sizes to cover air volumes from 1000 to 130.000 m³/h and beyond. The units are available with indoor or outdoor versions and can be made with a wide choice of materials.

CCEB standard casing design:

- 50 mm panels
- 150 µm external coating
- Casing made of galvanized steel, aluminum or stainless steel
- Hinged access doors with adjustable hinges
- 80 mm base frame.

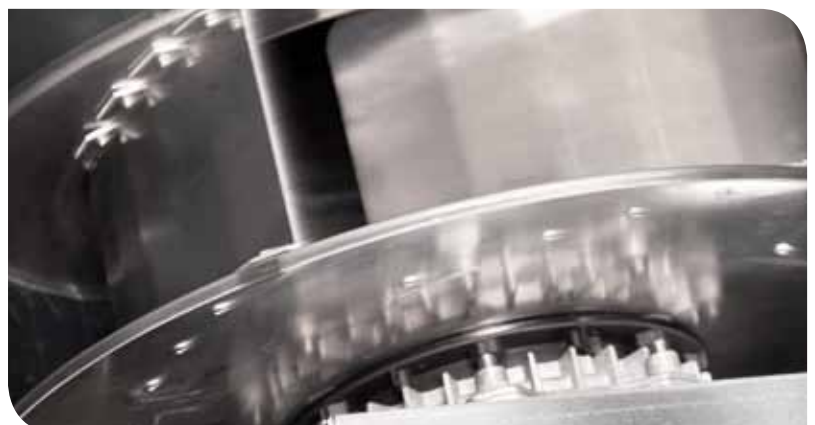
The performances of the CCEB units have been certified by Eurovent and meet the following mechanical classes according to EN 1886 :

Eurovent-certified casing mechanical characteristics:

	CCEB	CCEB T2
Casing strength	D1	D1
Casing Air leakage	L1	L1
Filter Bypass leakage	F9	F9
Thermal Transmittance	T3	T2
Thermal Bridging Factor	TB3	TB2



Certified performance Eurovent certification for the CCEB range guarantees accurate performance data and common comparison criteria. The unit performances and the mechanical casing characteristics have been tested and certified respectively according to EN 13053 and EN 1886.



Clean Concept Design



Air handling systems today are much more complex than ever before. Air handling units are at the heart of these systems and are a vital component in today's commercial and industrial building design to provide the right Indoor Air Quality.

With their unique casing concept, CCEB units are now the best solution to ensure the right air cleanliness, temperature and humidity conditions for your specific application.

The CCEB design offer the highest casing air tightness (L1 as per EN 1886 & Class C according to BS DW144) and units with easy-to-clean interior (smooth internal walls) through large inspection doors.

CCEB have been designed to comply to the EN 13 053 standard and can be selected to meet the VDI 6022 standard.

Indoor Air Quality options:

- High efficiency rigid bag filters
- Hepa filters up to H14 (EN 1822) fitted on stainless steel welded frames
- Sloped floor over the full unit length
- Components fitted on rails
- Low leak dampers
- Inner parts painted or in stainless steel.

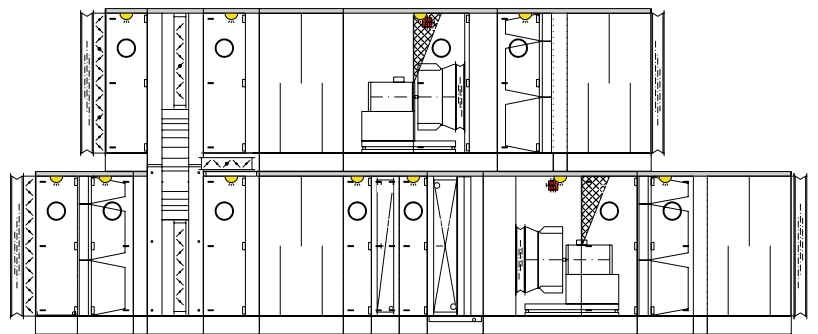


Efficiency in Mind

CCEB units can be selected to reach Class A according to the Eurovent energy class calculation and the lowest Specific Fan Power (SFP) to minimize the system energy consumptions.

Energy savings components include:

- High efficiency thermal wheel, plate heat exchangers, run around coil.
- Direct driven plug fans, driven with variable frequency drives and high efficiency motors (Eff1, EC motors).



Advanced controls to optimize comfort and energy consumption

Integrated comfort systems for optimized operation and faster commissioning

The HRCU units are equipped with a factory engineered controls package including dedicated Trane programmable controller, variable frequency drives, power wiring sensors and actuators fully integrated into the unit for a minimized footprint and easier maintenance.

All units are tested at the factory prior the shipment to job site. When the units are shipped in two or three pieces, quick connectors are used to join all interconnecting controls cables.

The programming and setting of the controller – which is customized according to the project specifications – is done by our controls experts.

The HRCU can work as stand alone equipment or tied to other Trane Integrated Comfort Systems (ICS).

ICS is a powerful system architecture that unifies Trane controls and building management into a coherent whole, providing a single source of responsibility, including monitoring and diagnostics, system optimization and open protocol communication for ensured high level of comfort and energy savings.



Factory engineered controls package



The single source for all your building ne

When you specify a Trane Air Handling Unit, you don't just get a top-class product, you also get the expertise to optimize your whole HVAC system and keep your total building operating cost to a minimum while maintaining the utmost level of comfort.

Heating, ventilating and air conditioning systems

Depending on your building or process, you may need a chiller, an air handling unit or terminals. And here Trane can help as well. As one of the world's leading HVAC equipment manufacturers we can provide the exact solution. Moreover, you can be sure it fits perfectly with your air handling unit, because they will use the same protocols and control strategies. Trane chillers, fan coils and air handling equipment come with factory-mounted controllers for integration within a Trane Building Management System.

Building Management Systems

The **Tracer Summit™** building management system provides supervision and control through a single, integrated system. Its user-friendly graphical interface, associated with its pre-engineered functions, and standard communication protocols allows you to efficiently pilot your building performance. **Tracer Summit™** can help you meet your building's temperature, humidity, ventilation and energy management needs, no matter how challenging. High quality, easy-to-use, integrated and reliable controls are the key to maximizing efficiency and to prolonging the life of your building comfort system.

*Peace of mind from
total accountability*



Factory tests can be offered upon request such as:

- Volumetric tests (airflow/pressure)
- Air leakage test
- Acoustic tests
- Components air pressure drop.

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*Peace of mind with service and parts
At Trane, we are committed to providing full service solutions
that are efficient and reliable, just like our equipment.*

Elite Start™

Trane equipment is commissioned by technically competent factory trained technicians. Trane commissioning confirms that the system has been not only accurately installed, but also configured and fine-tuned to operate according to your requirements.

Operate and Maintain

To keep your Trane equipment operating at peak efficiency, Trane offers technical expertise to maintain or repair your system. Our full range of HVAC spare parts, both Trane-specific and generic, coupled with our advanced logistics network ensures a quick and reliable service. The result? Even in the rare event of equipment failure, downtime is kept to an absolute minimum.

Upgrade and Improve

To help you conserve energy while maximizing cost saving in your building systems and operations, Trane offers:

- **Trane Select Contracts** tailored to your needs, your business, and your application. They are comprised of several levels of services, ranging from a 24/7 duty to full ‘all parts and labor’ coverage, including life cycle management and maintenance.
- **Trane Care Services** to offer a wide range of upgrade products to answer your needs in terms of reliability, energy conservation, and respect of the environment.



Make certain your HVAC systems are fully optimized and integrated – with our expert services.



How do you choose?

There are hundreds of possible system designs, air handling unit or chiller configurations.

How do you possibly narrow the choices and definitively determine the right HVAC system design for your building?

Amazingly, it's quite easy... with Trane's help.

Our System Analyzer™ helps estimate building loads and performs preliminary energy and cost analyses of virtually any building, system and equipment combination. For LEED certification, TRACE™ 700 (Trane Air Conditioning Economics) software helps analyze the energy and economic effects of virtually any system configuration. It allows you to manipulate a wide range of variables to create a detailed energy usage profile for your specific building. Unlike overly simplified spreadsheet-based energy analyses,

TRACE 700 software accurately compares the impact of building alternatives. You can test the effects and consequences of different architectural features, HVAC systems, and building utilization or scheduling scenarios. And you can see the different economic options for each scenario. This enables you to make genuine life-cycle, cost-based system decisions with absolute confidence.

Contact us – we're here to help

We can help you plan, install and manage your next HVAC system – so you can concentrate on your core business. Our experience and expertise in designing, commissioning and maintaining HVAC systems not only guarantees a solution that best answers your needs, it also gives you complete efficiency and peace of mind.

Call us, let's talk.



Trane® is a brand of Ingersoll Rand®. Ingersoll Rand (NYSE:IR) advances the quality of life by creating comfortable, sustainable and efficient environments. Our people and our family of brands—including Ingersoll Rand®, Trane®, Thermo King® and Club Car® — 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.



Trane has a policy of continuous product and product data improvement and reserves the right to change design and specifications without notice. Trane bvba, Lenneke Marelaan 6, 1932 Sint-Stevens-Woluwe, Belgium, ON 0888.048.262 - RPR Brussels