

# *CCTA and CCTB Air Handling Units*

*For customized applications*



# Air handling solutions tailored to your needs

When you turn to the Trane CCTA range of air handling units you'll benefit from Trane's dedication to constant development in order to deliver the latest state-of-the-art air handling solutions. When it comes to bringing air to your building at the right temperature, pressure and humidity, with the right sound level and level of cleanliness, Trane units offer a unique combination of high indoor air quality, energy efficiency and flexibility. It's a range designed and engineered to meet all project requirements in air conditioning and to comply to your local regulations.

## Versatility comes as standard

Developed by the world's number one solutions provider, the latest, expanded CCTA air handling unit range offers the flexibility that allows units to meet application constraints in terms of thermal, acoustical, dimensional and functional aspects, ensuring exactly the right performance at the right price.

Whatever your application, Trane CCTA units always offer a high level of Indoor Air Quality (IAQ), ensuring the health and comfort of building occupants.

For applications where hygiene requirements are critical, as in hospitals, laboratories and clean rooms, the CCTB offers an enhanced casing with completely smooth external walls for easier cleaning for improved, together with thermal performance to class T2/TB2.

## Unequalled flexibility to match your application

Choice is what sets the Trane CCTA air handling unit range apart – an unrivalled

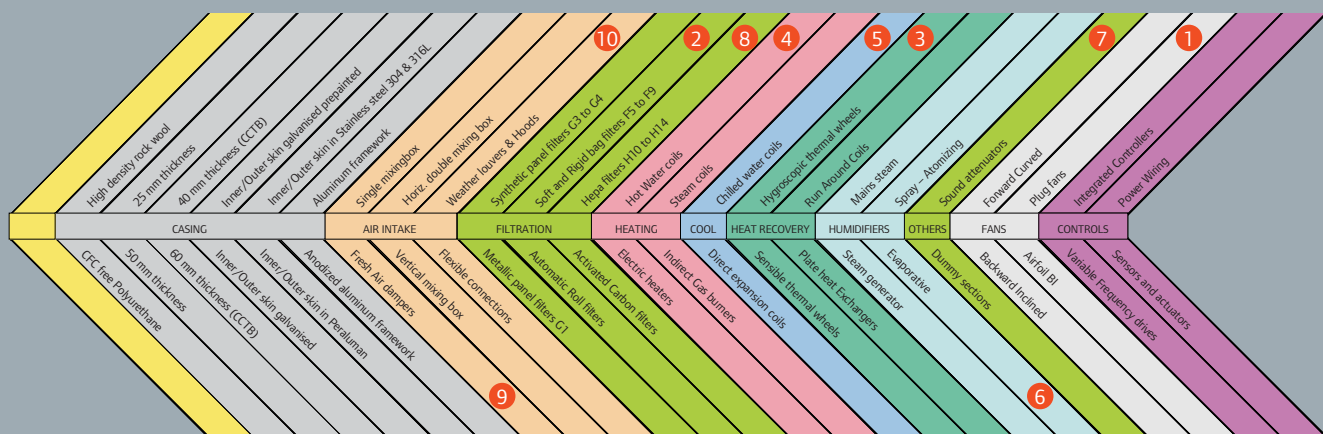
range of options and configurations that means you will always be able to meet the demands of your particular building and application exactly. And as you'd expect from one of the world's leading air handling solutions providers, we make it easy to specify the air handling unit that's right for you. A highly efficient and flexible Trane computer program uses your application data and project specifications to select the precise CCTA components that will provide you with optimum performance.

The CCTA range covers air volumes from 1000 to 140,000 m<sup>3</sup>/h with total pressure up to 2000 Pa with more than 100 different unit sizes.

## Wide choice of configurations

The modular construction of the CCTA unit allows accommodation to site constraints. It can be built with the following configurations:

- Horizontal in line
- Horizontal, L or U shaped
- Double stacked and side by side
- Vertical, upstream air flow.



## State of the art casing concept

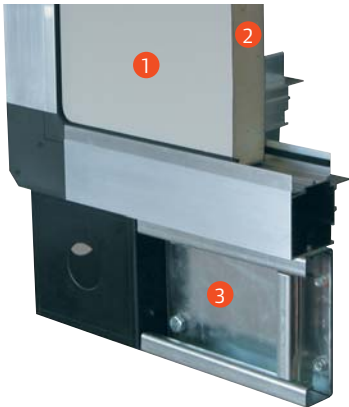
### CCTA standard casing design:

Panels fixed with a wedge → Nice finishing without any screws, easy maintenance

Polyurethane foam insulation → Better thermal performances and rigidity

Double gasket → Maximum casing air tightness

Smooth internal walls → Easy to clean, minimized dust traps



#### Wide choice of casing options

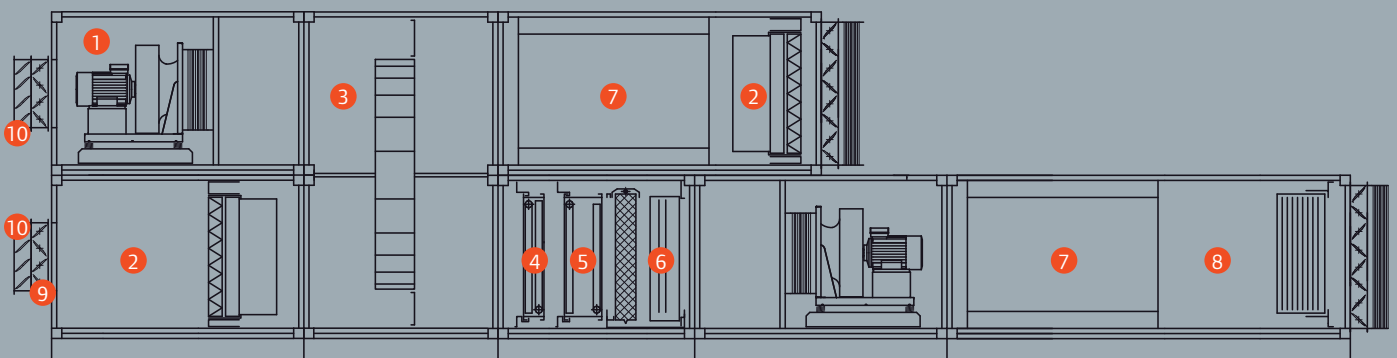
1 Wall materials	<ul style="list-style-type: none"> <li>Galvanized steel</li> <li>Pre-painted steel</li> <li>Peraluman</li> <li>Stainless steel 304 &amp; 316L</li> </ul>
2 Panel insulation	<ul style="list-style-type: none"> <li>Standard version: 25 or 50mm</li> <li>Injected polyurethane foam</li> <li>Rock wool, 80kg/m³ density</li> </ul>
3 Framework	<ul style="list-style-type: none"> <li>Aluminum</li> <li>Anodized aluminum</li> </ul>
3 Support/Handling	<ul style="list-style-type: none"> <li>Peripheral base frame</li> <li>Supporting feet</li> <li>Adjustable feet</li> </ul>

#### Eurovent-certified casing mechanical characteristics

Casing Type	CCTA 25 mm PU	CCTA 50 mm PU	CCTA 50 mm RW	CCTB
Panel Thickness	25 mm	50 mm	50 mm	40 mm
Insulation Material	Polyurethane foam	Polyurethane foam	Rock Wool	Polyurethane foam
Casing Strength	D1	D1	D3	D1
Casing Air Leakage	L2	L1	L1	L1
Filter Bypass leakage	F9	F9	F9	F9
Thermal Transmittance	T3	T3	T2	T2
Thermal Bridging Factor	TB4	TB3	TB3	TB2



*Certified performance  
Eurovent certification  
for the CCTA 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. ARI  
certified heating and  
cooling coils can be  
provided upon request.*





## *The best choice to successfully complete your air conditioning projects*

### **Energy savings in mind**

To minimize your HVAC operating costs, Trane CCTA units can be equipped with the latest energy saving technologies such as :

- High efficiency Eff1 motors
- High efficiency thermal wheels
- Run around coils
- Plate heat exchangers
- Plug fans and variable frequency drives

### **Fast, simple installation and maintenance**

The Trane CCTA units come packaged following the “plug and play” concept. To ensure easy installation and commissioning, most specified options are factory-installed and arrive on the jobsite already mounted, eliminating the need for time-consuming accessory field installation. Units can be delivered in one piece, in sections or flat packed for easier on-site assembly. All panels can be easily removed to maintain, repair or change components inside the unit, and all sections requiring regular maintenance are equipped with properly sized and air-tight hinged doors.

### **Integrated comfort systems for optimized operation and faster commissioning**

The factory-mounted control package can be tied to other Trane products through Trane Integrated Comfort System (ICS). ICS is a powerful system architecture that unifies Trane control and building management into a coherent whole, providing a single source of responsibility, including monitoring and diagnostics, system optimization, and open protocol communication for assured high levels of comfort.

The control package, including dedicated Trane controllers, variable frequency drives, power wiring, sensors and actuators are fully integrated into the unit for a minimized footprint and easier maintenance.





## *CCTB: the right design for stringent project requirements and optimum comfort*

Wherever hygiene and thermal conditions are critical factors, the Trane CCTB delivers

### **CCTB standard casing design:**

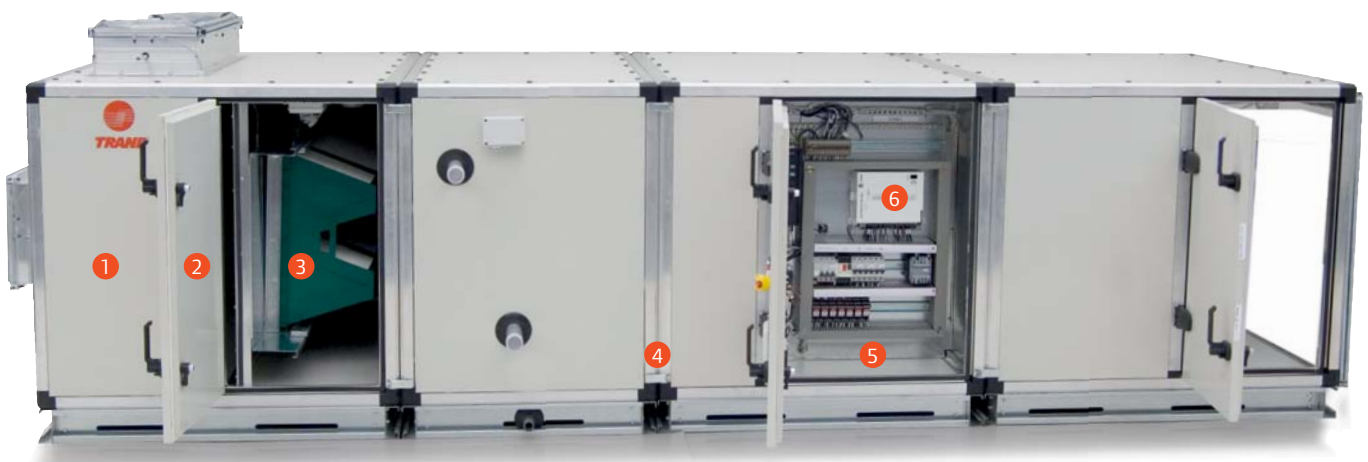
- 40 mm panel thickness (T2/TB2 certified)
- Polyurethane foam insulation
- A1-fire rated (Euro class)
- Thermal break integrated in panels and framework
- Smooth easy-to-clean internal walls

### **Options:**

- 60 mm panel thickness
- Rock wool 80kg/m<sup>3</sup> insulation



T2/TB2 Eurovent-certified



- 1** Built to last: Robust and efficient casing design with anodized aluminum framework and rigid foamed panels.
- 2** Easy maintenance: Large hinged doors to access components.
- 3** Indoor Air Quality: Smooth internal walls, filter bypass leakage F9, casing air tightness L1, inclined drain pans.
- 4** Quick installation: Modular construction with quick module-fixing system and strong base frame for an easy handling.
- 5** Fast commissioning with factory-engineered controls.
- 6** Efficient system: Advanced controllers integrated in a comprehensive Building Management System.



## *The single source for all your building needs*

*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.*

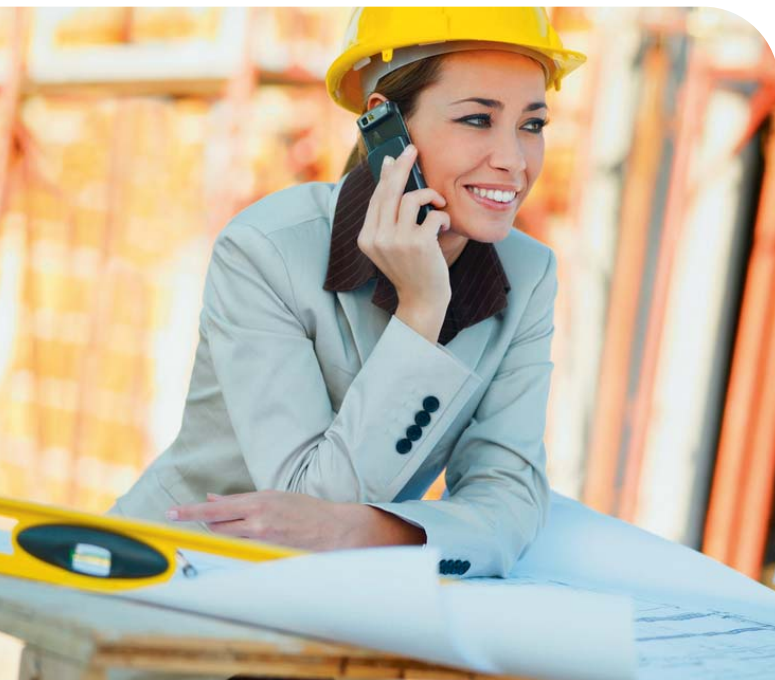
### **Heating, ventilating and air conditioning systems**

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*



*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.



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