

SMART AIR HANDLING UNITS EXPERIENCE A TRANSFORMATION IN COOLING SYSTEMS

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A state-of-the-art manufacturing facility, Carrier International Sdn Bhd (CISB) leverages best-in-class technologies to deliver comprehensive HVAC solutions for your spaces. CISB's factory presence extends beyond Malaysia, including the Asia Pacific and Middle East regions.

We are proud to say that our unwavering commitment to excellence and innovation has garnered multiple recognitions and accolades from across the industry.





Operations Since 1962



Eurovent Certification AHU & FCU



Regional Multi-purpose Training Hub and Experience Centre



AHRI Certification AHU coils: AHRI 410

CARRIER SMART AHU AND ITS ADVANTAGES

No. of Street, or other

Open your spaces to our advanced air handling unit (AHU) designed to deliver easy integration and efficiency in operations. A smart building solution to conserve energy, uplift spaces, reduce operational costs and lessen the impact on the environment — with Carrier Smart AHUs, the future of efficiency is truly in your hands.

 Easy Setup Smart Monitoring Temperature Control Performance Validation Real-Time Display 	Increased setup time due to manual adjustments Periodic manual checks leading to delay in issue identification Valves-based control Relying on periodic manual performance validation Limited or no real-time data,	Quick and efficient setup with user-friendly controlsClose loop system with constant comparison of preset values with real-time data using sensors and feedbackInbuilt controller with control logic to actuate PICV valve and fan speed to meet supply air temperatureReal-time performance (KW/RT)
Monitoring Temperature Control	leading to delay in issue identification Valves-based control Relying on periodic manual performance validation	constant comparison of preset values with real-time data using sensors and feedback Inbuilt controller with control logic to actuate PICV valve and fan speed to meet supply air temperature Real-time performance
Control Control Performance Validation Real-Time	Relying on periodic manual performance validation	control logic to actuate PICV valve and fan speed to meet supply air temperature Real-time performance
Validation	performance validation	
	Limited or no real-time data	
	requiring additional tools for assessment	Instant feedback on cooling capacity and system status to third party BMS
ی است. Service کے ا	Relying on periodic manual inspections, with potential delays in maintenance	Alerts and alarms for need-based predictive maintenance

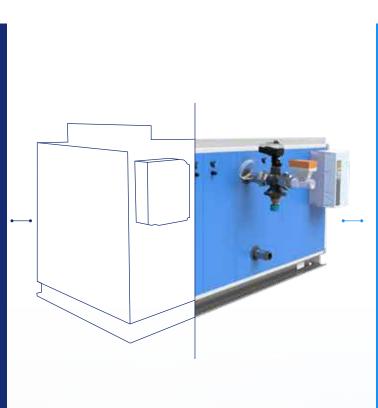
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FAST-TRACKING SOLUTIONS FOR SITE CHALLENGES

Before 🖓

- Water carryover
- Airflow issue
- Cooling load issue
- Excessive noise and vibration
- Choked filters and coils
- High
 electricity bills



After 🖒

- Maintains design coil face velocity
- Auto regulate airflow via feedback
- Maintains temperature through closed loop operation
- Operates AHU in optimum condition
- Alerts and alarms for filters and coils cleaning
- Optimum operation with real-time display of energy efficiency (kW/RT)

THE FEATURES AND FUNCTIONALITY OF CARRIER SMART AHU.



OPERATING MODES OF CARRIER SMART AHU.

COMMISSIONING MODE BY COMMISSIONING TEAM

- Enter design parameters from data sheets
- Compare design value with actual condition value differences

HAND MODE BY SERVICE TEAM

- Manually control the AHU functions via AHU controller
- BMS override

NORMAL OPERATION MODE

Non-CO₂ operation mode

- Air dampers will actuate to meet the on-coil air temperature
- Water valve will actuate to meet the off-coil air temperature
- Unit will operate to meet desired airflow requirement

CO₂ operation mode

- Air dampers will actuate to meet desired \rm{CO}_2 PPM
- Unit will operate to meet desired airflow
- Off-coil temperature requirement

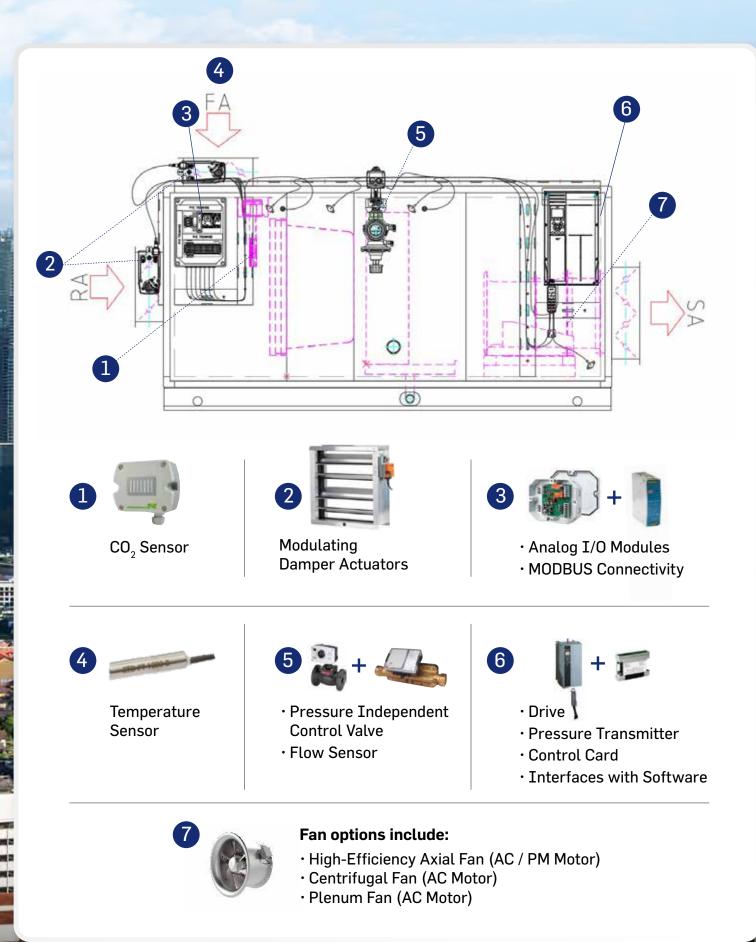
PURGE MODE

 AHU will expel ~3x air volume of the system by scheduled timetable

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- Clears up the dirty ambient air/building construction debris
- Can be set to run at intermittent time

THE CARRIER SMART AHU CONTROLLER







Carrier International Sdn. Bhd. (3385-T)

Lot 4, Jalan P/6, 43650 Bandar Baru Bangi, Selangor Darul Ehsan, Malaysia. Tel: 03-8913 7600 | Email: marketing.smb@carrier.com | Website: www.carrier.com/commercial/en/my/

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