



ATM/ITM

AIR TREATMENT MODULE



PLANNED
OPTIMISED COMFORT

CENTRALISED - 42GR/42GM

TWO SOLUTIONS FOR GUARANTEED EFFICIENT COMFORT

The Carrier air treatment modules combine absolute user comfort with the simplicity and flexibility of commissioning for contractors.

Installed in the plant room or cleverly placed above the false ceiling in an empty space they can fit any projected building configuration.

The variable-speed supply air fan allows optimisation of energy consumption. The fan coils are equipped with valves and flexible piping for quick connection to facilitate installation and maintenance.

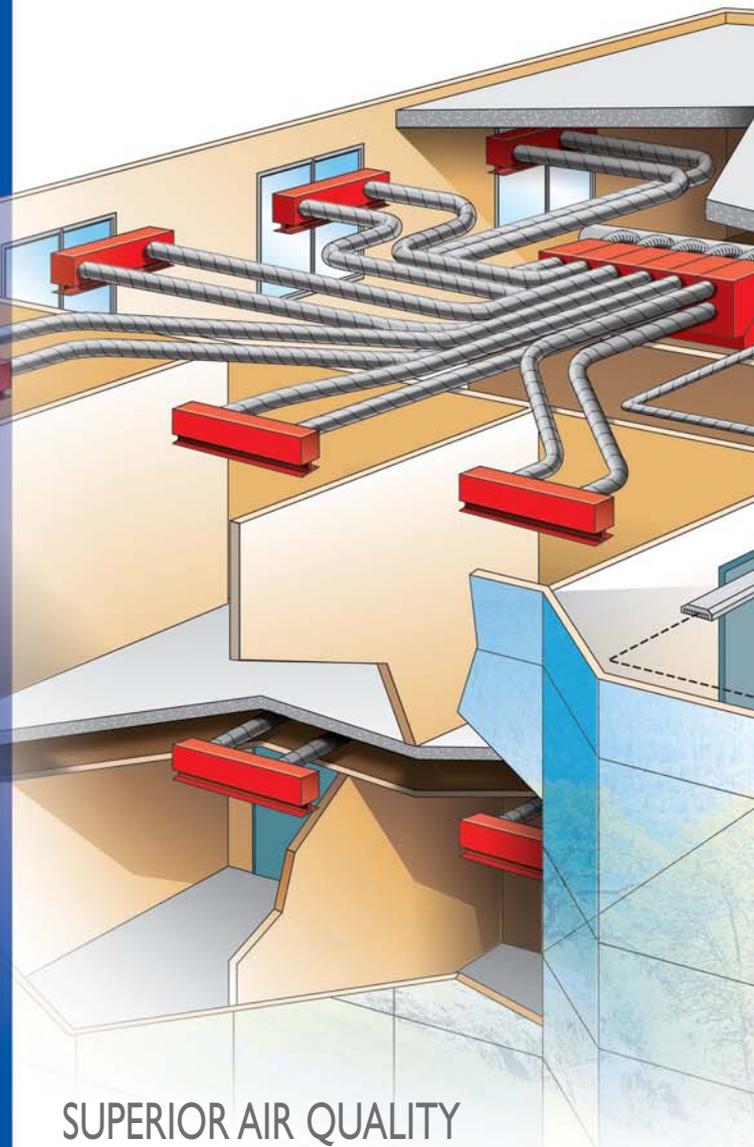
The Carrier air treatment modules are connected to linear Moduboot diffusers, ensuring perfect uniform air distribution to each building space.

INDIVIDUALISED COMFORT PARAMETER CONTROL

Designed for use with a central energy monitoring system (building management system), the Carrier air treatment modules allow users to control the comfort conditions in each room while minimising the operating costs.

For the occupants the Carrier air treatment modules are equipped with a specific numeric control for individualised control of their well-being:

- temperature control
- automatic fan-speed control
- occupied/unoccupied mode
- control of blinds and lighting



SUPERIOR AIR QUALITY

The Indoor Air Quality (IAQ) control system used in the Carrier air treatment modules permits adjusting the ventilation rate, based on the occupation of the rooms, supplying clean air for the occupants and controlling the energy consumption.

The various elements of the Indoor Air Quality system guarantee generation of high-quality air:

- high-efficiency filtration with a pleated F6 filter
- air purification using the UV light option to deactivate potentially irritating airborne substances.
- fresh air intake modulation, using a modulating valve to adjust the fresh air supply, based on the number of occupants.



WITH A PLANT ROOM - ATM

FLOOR-BY-FLOOR CENTRALISATION CONCEPT

In the plant room the Carrier variable-speed air treatment modules with available pressure ensure individual air treatment. With this solution the air treatment module can be located up to 50 m from the conditioned space.

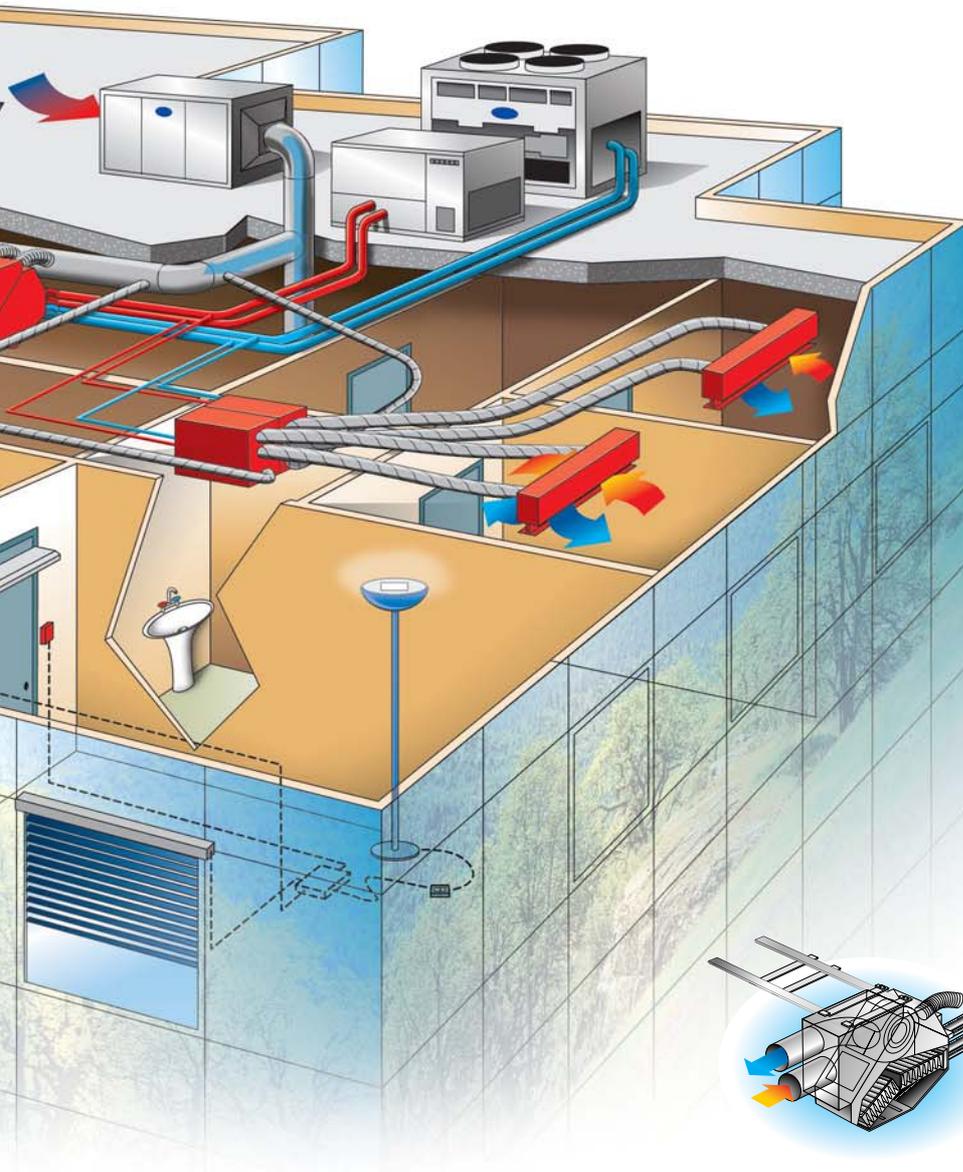
It offers total flexibility, allowing installation of the modules in two stages. All maintenance operations are centralised in the plant room, saving time and avoiding disturbance of the office occupants.

PRE-EQUIPPED SYSTEM - JUST CONNECT

The installation of this air treatment module type is in two stages. First a hanging rail with suspension casing is fixed to the ceiling. Just before

the building is equipped, the modules are simply installed and connected to the hydronic circuit, the fresh air supply and the mains power supply.

This means that the investment can be staggered.



WITHOUT PLANT ROOM - ITM

OPTIMISED SPACE UTILISATION

For buildings without plant room or extension, Carrier recommends installing an air treatment module above the false ceiling in the unused space. The low height and the compact size of the module permit clever integration in most configurations. This installation type allows grouped maintenance and space optimisation, benefiting consultants as well as building occupants.



OPTIMISED AIR DISTRIBUTION

The variable air flow linear Carrier Moduboot diffusers in each conditioned space ensure perfect and uniform air flow: they direct the air along the ceiling encouraging rapid mixing of the supply and ambient air - no cold shower effects for the occupants, just quiet and discreet integration into the ceiling design.



42GR		1	2
Nominal air flow	l/s	94	139
Available static pressure	Pa	310	320
Total cooling capacity (1)	W	2800	4100
Sensible cooling capacity (1)	W	1900	2700
Heating capacity, hot-water coil (2)	W	1200	2200
Heating capacity, electric heater	W	1700	1800
Power supply	V-ph-Hz	230-1-50	
Min. output from variable speed controller	V	80	
Fan		Single inlet	Double inlet
Power supply	W	140	210
Air filter efficiency		F5/EU5	
Dimensions H x L x D	mm	950x960x250	950x960x420
Fresh air connection diameter	mm	75	125
Min. controlled air flow	l/s	8	17
Unit weight	kg	35	50

(1) For 5-row coil: Water 6/11°C, air 25°C/50%, nominal air flow
 (2) Water 50/40°C, air 19°C



42GM		1
Nominal air flow	l/s	125
Available static pressure	Pa	205
Total cooling capacity (1)	kW	3330
Sensible cooling capacity (1)	kW	2310
Heating capacity (2)	W	1500
Heating capacity, electric heater	W	1880
Power supply	V-ph-Hz	230-1-50
Min. output from variable speed controller	V	80
Fan		Double inlet
Power input	W	185
Air filter efficiency		F6/EU6
Dimensions H x L x D	mm	1081x300x404
Fresh air connection diameter	mm	125
Min. controlled air flow	l/s	30
Max. controlled air flow	l/s	44
Unit weight	kg	30

(1) For 5-row coil: Water 6/11°C, air 25°C/50%, nominal air flow
 (2) Water 50/40°C, air 19°C



Quality Management System Approval



Environmental Management System Approval



Order No.: 18316-20-06/2005
 Supersedes order No.: New
 Manufacturer reserves the right to change
 any product specifications without notice

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