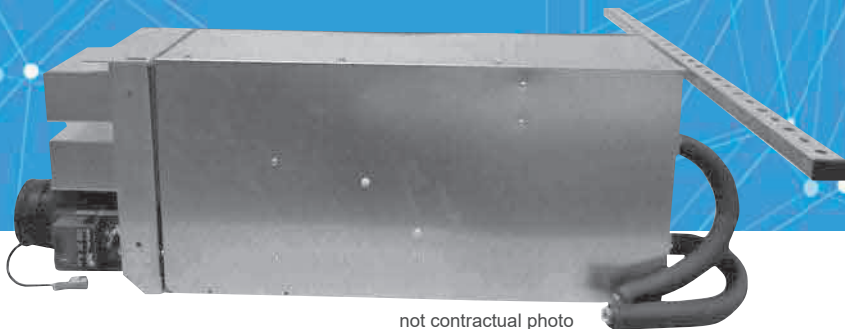


AIR TREATMENT MODULES



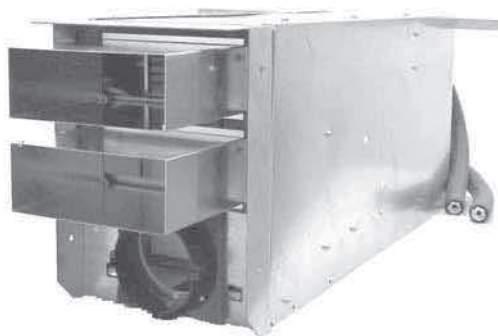
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42GM



The 42GM Individual Air Treatment Module (ITM) is something more than a simple air conditioner which enables room air temperature to be controlled. It is a total, integrated comfort system in the building.

The Carrier 42GM is a compact central station air handler to supply conditioned air at a rate of 125 l/s to rooms with floor areas of approximately 25 m². The main components of the unit are an air filter, a fresh air supply, equipped with an air flow controller (option), a chilled water cooling coil, a hot water heating coil or an electric resistance heater, a centrifugal fan. The unit is controlled by a Carrier numeric controller.



not contractual photo

PHYSICAL DATA

42GM		Size 19	
		2 pipes or 2 pipes +electrical heater	4 pipes
Variable Speed	Volt	10	10
Air Flow Rate	l/s	93	93
	m ³ /h	335	335
External Static Pressure	Pa	290	290
Cooling Mode **			
Total cooling capacity	kW	2,09	2,09
Sensible cooling capacity	kW	1,57	1,57
Water flow rate	l/h	380	380
	l/s		
Water pressure drop	kPa	22,2	22,2
Two-pipe heating Mode ***			
Heating capacity	kW	2,47	
Water flow rate	l/h	430	
	l/s		
Water pressure drop	kPa	17,3	
Four-pipe heating Mode ****			
Heating capacity	kW		1,91
Water flow rate	l/h		170
	l/s		
Water pressure drop	kPa		4,30
Electrical heater (PTC)		1 ph - 50 Hz - 230 V	
Low Capacity	W	800	
Medium capacity	W	1440	
High capacity	W	1735	
Maximum current drawn	A	11	
Sounds levels			
Lw (global): Sound power level	dB(A)	69	69
Lw (inlet + radiated): Sound power level	dB(A)	60	60
Lw (outlet): Sound power level	dB(A)	68	68
Lp (global): Sound pressure level ‡	dB(A)	52	52
NC level ‡	dB(A)	45	45
NR level ‡	dB(A)	47	47
Electrical data, motor		1 ph - 50 Hz - 230 V	
Power input	W	115	115
Air filter F5 or F6	mm	240x400	
Physical data			
Connection diameter, chilled and hot-water coil	in	1/2» gaz	
Length (standard)	mm	1202	
Height (standard)	mm	412	
Depth (standard)	mm	300	
Unit weight (standard)	kg	30	

Based on EUROVENT rating standards

** Cooling mode : Entering air temperature 27°C/47% wb, entering/leaving water temperature : 7°C/12°C

*** Heating mode (2 pipes) : Entering air temperature 20°C, entering/leaving water temperature : 45°C/40°C

**** Heating mode (4 pipes) : Entering air temperature 20°C, entering/leaving water temperature : 65°C/55°C

‡ Based on a hypothetical sound attenuation for the room and the system of - 17 dB(A)

OPTIONS/ACCESSORIES

- Customised product on request

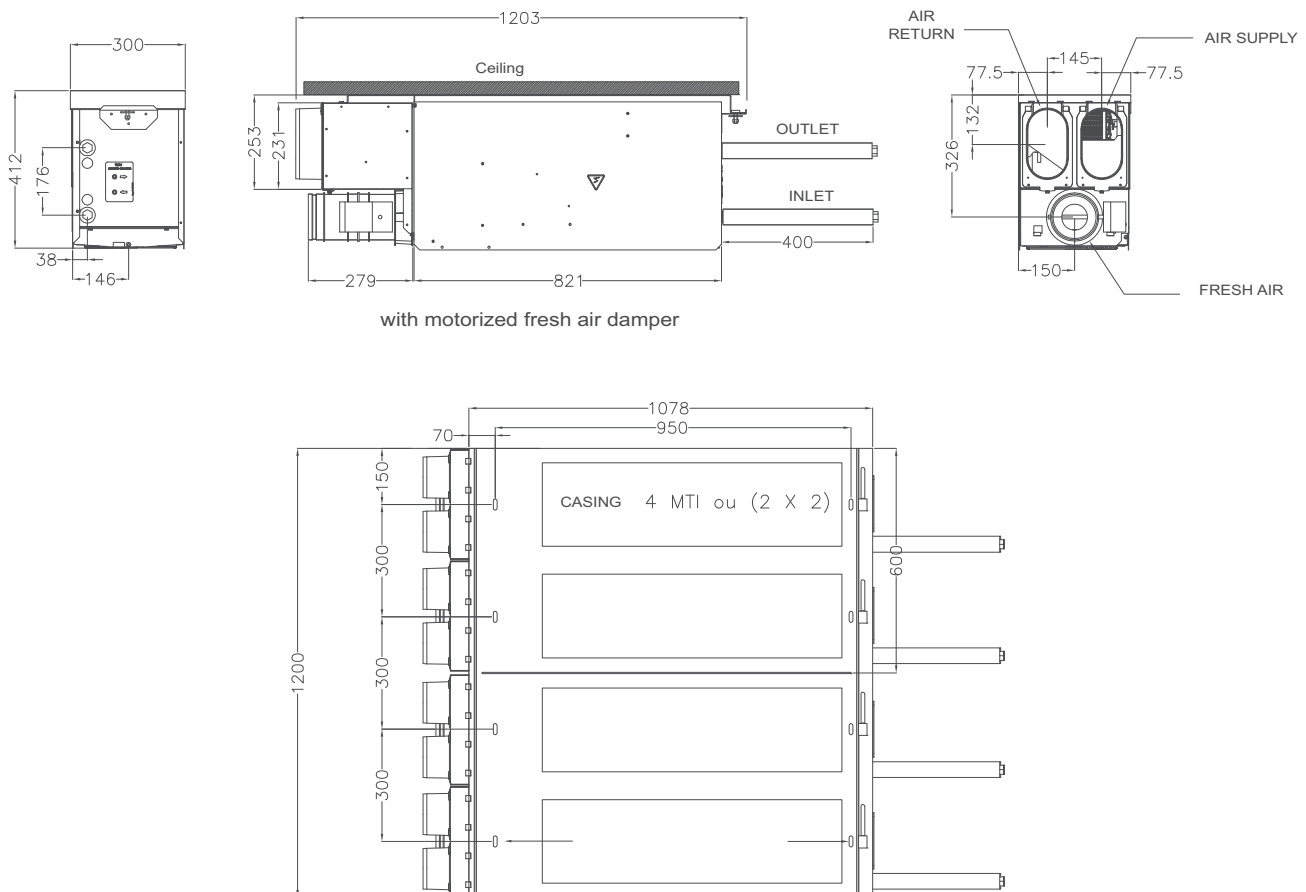


35BD linear diffuser (supply and return air)

FEATURES AND ADVANTAGES

- One size with two-pipe plus electric heater or four-pipe coils, with an air flow of 93 l/s, a cooling capacity of 2.1 kW and a heating capacity of 2.5 kW in two-pipe coil and 1.9 kW in four-pipe coils.
- Decentralised compact ducted chilled-water fan coil system, designed for installation in plant rooms. This allows centralised service and maintenance.
- Reliable and efficient heating and cooling for office blocks and institutional buildings.
- High efficiency EU6 filter.
- Extremely low sound level.
- The LEC (low energy consumption) fan motor assembly is available as standard. This direct-drive motor is electronically commutated (EC motor), controlled by a 0–10 V signal and allows precise, simple and quiet unit operation in a wide range of rotational speeds in variation from the original speed.
- High-pressure centrifugal fans, compatible with air distribution systems up to 300 Pa.
- Compatible with the 35BD air diffuser range.
- Safe factory-installed electric heater for single or two-stage hot water heating.
- Available with demand control ventilation (DCV) and CO₂ sensor.
- Available with control fitted in factory : NTC (CCN protocol) or WTC LON or BacNet
- Can be equipped with a UV-PCO IAQ module.
- Low hydraulic pressure drop with a valve mounted, compatible with all chiller pump kits.
- Quick installation with factory-installed options (controls, valves).

DIMENSIONS/CLEARANCES



Dimensions are given in mm.