

# MD

## Multi-duct cassette units

R-407C



		Cooling capacity (W)	Heating capacity (W)
<b>MD 35</b>	1~230 V - 50 Hz	9100	9140
<b>MD 38</b>		11260	11100
<b>MD 35</b>	3N~400 V - 50 Hz	8790	8790
<b>MD 38</b>		10400	11100
<b>MD 50</b>		12600	14500

*Airwell*

INDIVIDUAL COMFORT RANGE

Technical instructions manual  
**TM03MD1 GB A**  
Cancels and replaces :



# MD Multi-duct cassettes

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# MD Multi-duct cassettes

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## PRESENTATION

These units are optimised for operating with chlorine-free **R-407C** refrigerant having no harmful effects on the ozone layer and they meet the requirements of both current legislation and of care for the environment.

The «**Multi-Duct Cassettes**» range meets the air conditioning needs of all sizes of residential and tertiary installations.

The 3 models, with capacities ranging from 8790 to 14500 W, comprise two separate elements:

The **MD indoors unit** for air distribution via a duct network.

The **GC outdoors unit** for air treatment.

This range is offered with two options:

- **Cooling Only**

Standard Cooling function with electric heating as an option.

- **Heatpump**

Standard Cooling and thermodynamic Heating as standard with additional electric heating as an option.

### 1. INDOORS UNIT

This unit incorporates highly sophisticated technical qualities with particularly well designed aesthetics and ease of installation.

Its low height (300 mm) enables it to be easily integrated into a suspended ceiling.

It can also be installed in corridors (width: 850 mm)

It incorporates three different ventilation fan speeds.

With air blowing orifices located on both sides and air pressure available for connection to a duct network, it is capable of air conditioning up to 6 separate rooms.

Adaptors for flexible ducting (8" to 12") are supplied with the unit.

It is equipped with:

- An infra red receiver, linked to the unit via a 7 m cable enabling all air conditioning functions to be selected by way of the Liquid Crystal Display infra red control (see page 41).
- A turbine with very low noise levels.
- An air intake grille (supplied as an accessory) fitted with an acoustic attenuator.
- A condensates lift pump (factory fitted) with a 600 mm lift height for condensates drainage.
- An electrical connection box on a sliding chassis for easy access to all electrical connections.
- Complete access to all components via the bottom of the unit.
- 2 installation options:
  - Mounting plate and suspension rails.
  - Brackets for attachment to threaded rods (not supplied).
- Reusable air filters.



# MD Multi-duct cassettes

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## 2. OUTDOORS UNIT

Of compact design, taking up very little floor area, this unit houses the «Scroll» compressor, the fan-condenser assembly and the electrical box.

Two installation possibilities:

- Direct floor installation.
- Wall hanging with accessory (not supplied).

## 3. REFRIGERATION CIRCUIT

Both the indoors and outdoors units are equipped with «**FLARE**» connectors, enabling the use of «**FLARE**» refrigeration pipes (refrigeration quality copper pipe)

Depending on the model, pipe lengths can extend up to 50 m.

**Heatpump models** are equipped with a cooling cycle inversion system enabling them to operate in an **AIR/AIR** thermodynamic heating mode down to outside temperatures as low as  $-10^{\circ}$  C.

A good coefficient of performance (COP) for the transfer of calories from the outside to the premises to be air conditioned is achieved.

## 4. OPTIONS

The **Cooling only** and **Heatpump models** can be equipped with:

- Electric heating
- New air intake
- Manual treated airflow gate
- Centralised system control possible with **RCW-2** wall mounted remote control.

## 5. DOCUMENTATION

Each unit is supplied with general wiring and connection diagrams and specific installation and operation instructions.

Each accessory (or kit) is accompanied by technical specifications for fitting and adjustment as required.



# MD Multi-duct cassettes

## TECHNICAL SPECIFICATIONS

Models		MD 35	MD 38	MD 50
R-407C refrigerant		•	•	•
Power supply		1~230 V - 50 Hz		
Nominal cooling capacity (1)	W	9100	11260	
Nominal power input in cooling mode	W	3580	3950	
Nominal heating capacity (1)	W	9140	11100	
Nominal power input in heating mode	W	3150	3985	
Coefficient of performances (COP)	W/W	2.9	2.76	
Power supply		3N~400 V - 50 Hz		
Nominal cooling capacity (1)	W	8790	10400	12600
Nominal power input in cooling mode	W	3370	3850	5185
Nominal heating capacity (1)	W	8790	11100	14500
Nominal power input in heating mode	W	3030	3940	5180
Coefficient of performances (COP)	W/W	2.9	3.82	2.8

### INDOOR UNIT

Noise levels (3)				
• LS - Low Speed	dBA	51.3	54.8	54.8
• MS - Medium Speed	dBA	54.8	56	56
• HS - High Speed	dBA	57.2	57.2	59.3
Airflow				
• LS - Low Speed	m <sup>3</sup> /h	1040	1180	1180
• MS - Medium Speed	m <sup>3</sup> /h	1180	1475	1475
• HS - High Speed	m <sup>3</sup> /h	1700	1700	2000
Dimensions		1025 x 760 x 300		
• Length x Depth x Height	mm			
Weight	kg	43	44	44
Packed dimensions		1125 x 975 x 360		
• Length x Depth x Height	mm			

### OUTDOOR UNIT

Noise levels	dBA	69	65	65
Airflow	m <sup>3</sup> /h	3100	4150	4150
Dimensions				
• Length x Depth x Height	mm	900 x 340 x 860	900 x 340 x 970	900 x 350 x 970
Weight	kg	82	95	95
Packed dimensions				
• Length x Depth x Height	mm	985 x 406 x 906	985 x 406 x 1020	985 x 406 x 1020

### ACCESSORIES & OPTIONS

Air intake grille		•	•	•
Electric heating	W	2 x 750	2 x 1500	2 x 1500
New air intake		•	•	•
Manual treated air gate		•	•	•
RCW-2 Wall mounted remote control		•	•	•

(1) Test conditions for operating in Cooling mode  
 Temperature of recycled intake air to be treated:  
 27° (DBT) / 19 C (WBT)  
 Outdoor air intake temperature: 35° C (DBT)  
 Nominal airflow at the evaporator and at the condenser.

(2) Test conditions for operating in Heating mode  
 Temperature of recycled intake air to be treated:  
 20° (DBT)  
 Outdoor air intake temperature:  
 7° C (DBT) / 6° C (WBT)  
 Nominal airflow at the evaporator and at the condenser.

(3) Noise levels  
 Global acoustic pressure in dBA at nominal conditions.  
Indoors unit:  
 Installation in average size room (LS – 0.5 s reverberation at a distance of 1 m)  
Outdoors unit:  
 In open area against a reflecting surface.

These characteristics are provided for information purposes only and are subject to change without prior notice.



# MD Multi-duct cassettes

## OPERATING LIMITS

The **MD indoors units** and the **GC outdoors units** operate within the following limits:

### COOLING mode

Low limits		
Indoor temperature	DBT °C	21
	WBT °C	15
Outdoor temperature	DBT °C	21

High limits		
Indoor temperature	DBT °C	32
	WBT °C	23
Outdoor temperature	DBT °C	46

### HEATING mode

Low limits		
Indoor temperature	DBT °C	20
Outdoor temperature	DBT °C	-9
	WBT °C	-10

High limits		
Indoor temperature	DBT °C	27
Outdoor temperature	DBT °C	24
	WBT °C	18

DBT: Dry Bulb temperature (°C)  
WBT: Wet Bulb temperature (°C)

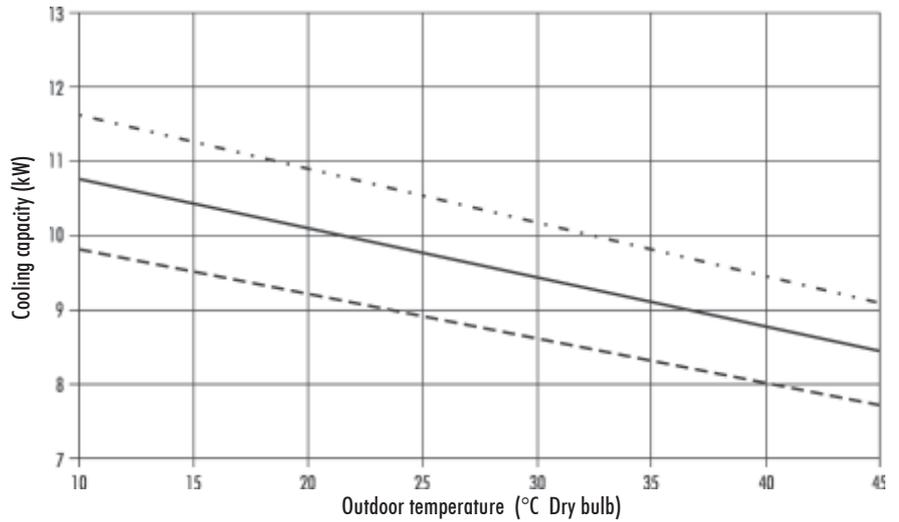


# MD Multi-duct cassettes

## COOLING CAPACITY

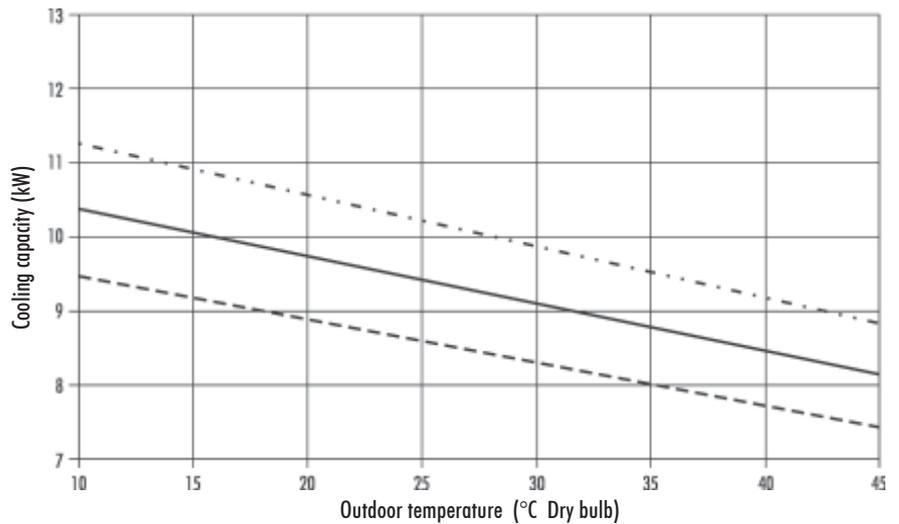
### Model MD 35 single phase

Indoor temperature  
 30° C Dry Bulb - 50% humidity - ·····  
 27° C Dry Bulb - 50% humidity - ———  
 23° C Dry Bulb - 50% humidity - - - -



### Model MD 35 Three phase

Indoor temperature  
 30° C Dry Bulb - 50% humidity - ·····  
 27° C Dry Bulb - 50% humidity - ———  
 23° C Dry Bulb - 50% humidity - - - -



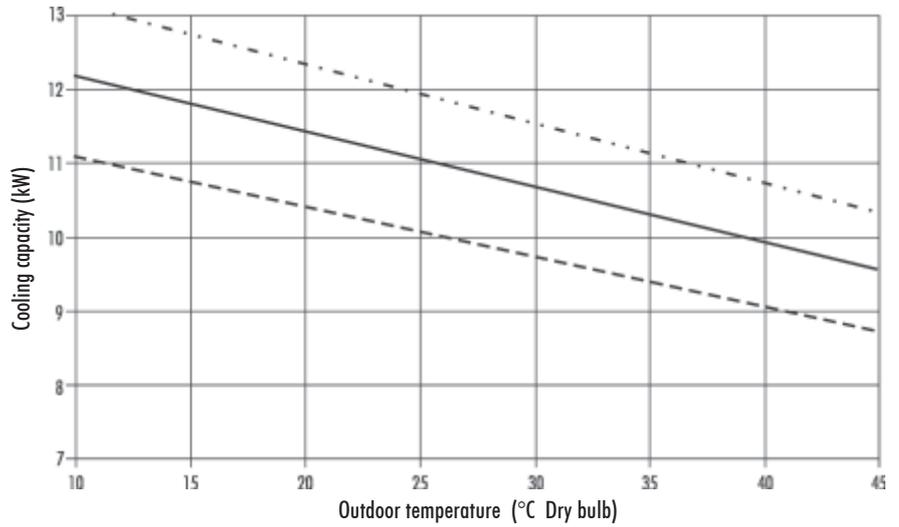


# MD Multi-duct cassettes

## COOLING CAPACITY

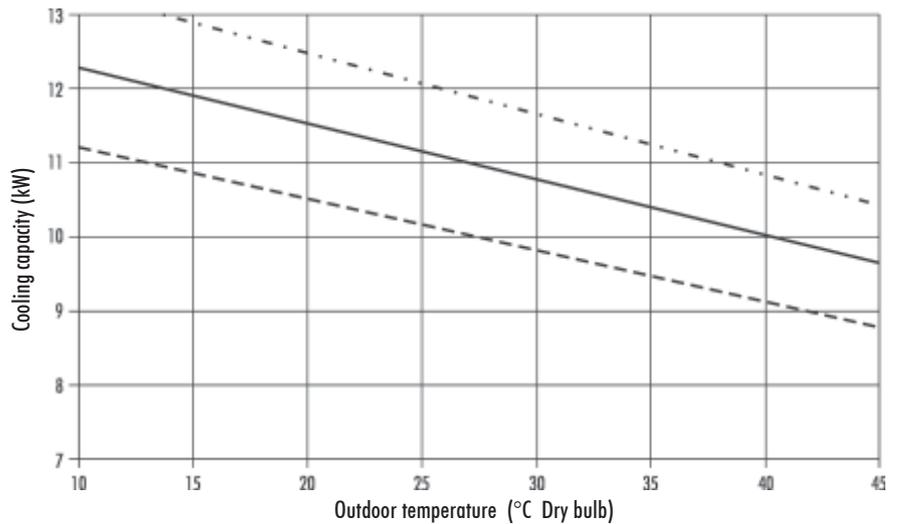
**Model MD 38  
single phase**

Indoor temperature  
 30° C Dry Bulb - 50% humidity - - - - -  
 27° C Dry Bulb - 50% humidity - - - - -  
 23° C Dry Bulb - 50% humidity - - - - -



**Model MD 38  
three phase**

Indoor temperature  
 30° C Dry Bulb - 50% humidity - - - - -  
 27° C Dry Bulb - 50% humidity - - - - -  
 23° C Dry Bulb - 50% humidity - - - - -



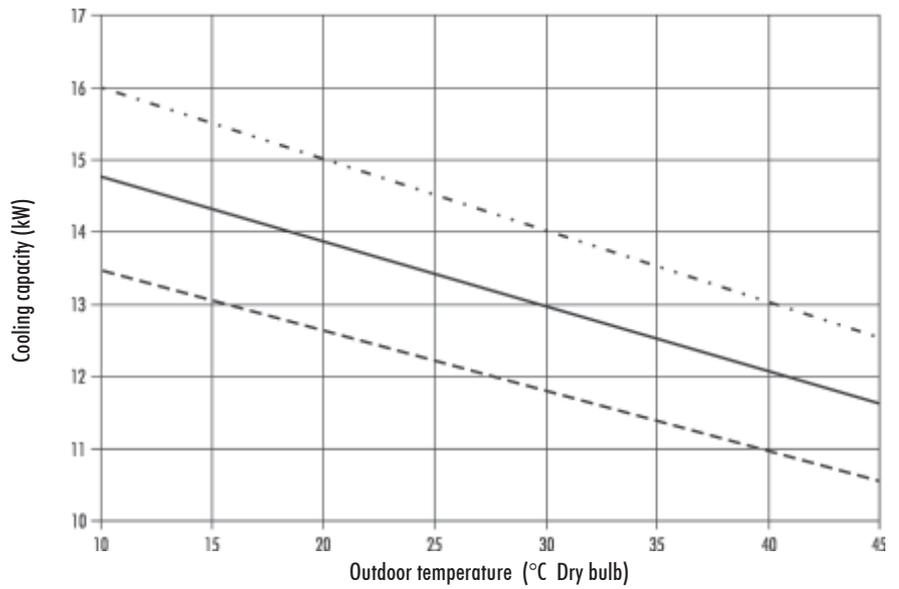


# MD Multi-duct cassettes

## COOLING CAPACITY

Model MD 50  
three phase

Indoor temperature  
 30° C Dry Bulb - 50% humidity - - - - -  
 27° C Dry Bulb - 50% humidity - - - - -  
 23° C Dry Bulb - 50% humidity - - - - -



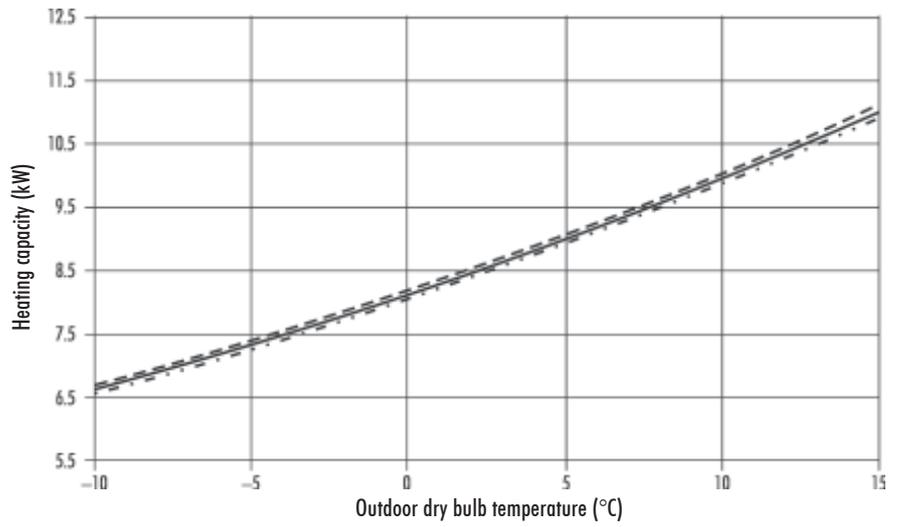


# MD Multi-duct cassettes

## HEATING CAPACITY

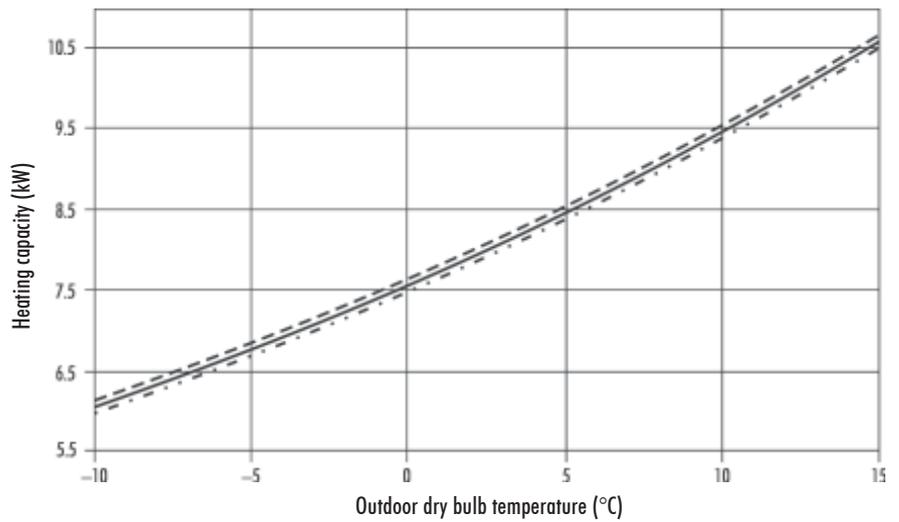
**Model MD 35  
single phase**

Indoor temperature  
 20°C Dry bulb - - - - -  
 18°C Dry bulb —————  
 15°C Dry bulb - - - - -



**Model MD 35  
three phase**

Indoor temperature  
 20°C Dry bulb - - - - -  
 18°C Dry bulb —————  
 15°C Dry bulb - - - - -



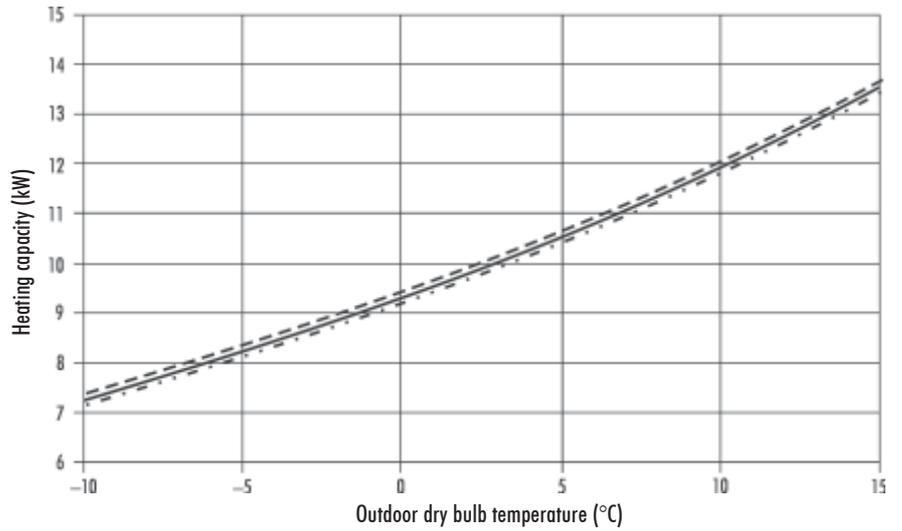


# MD Multi-duct cassettes

## HEATING CAPACITY

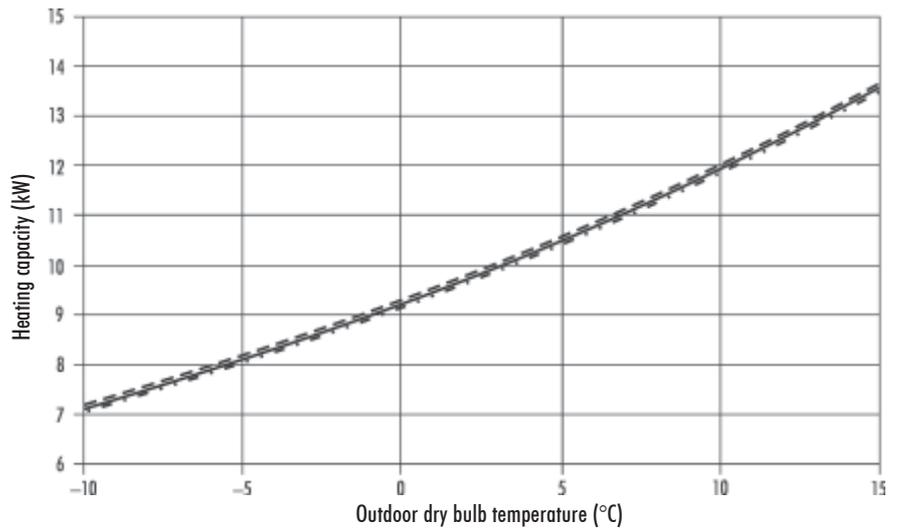
**Model MD 38  
single phase**

Indoor temperature  
 20°C Dry bulb - - - - -  
 18°C Dry bulb ————  
 15°C Dry bulb - - - - -



**Model MD 38  
three phase**

Indoor temperature  
 20°C Dry bulb - - - - -  
 18°C Dry bulb ————  
 15°C Dry bulb - - - - -



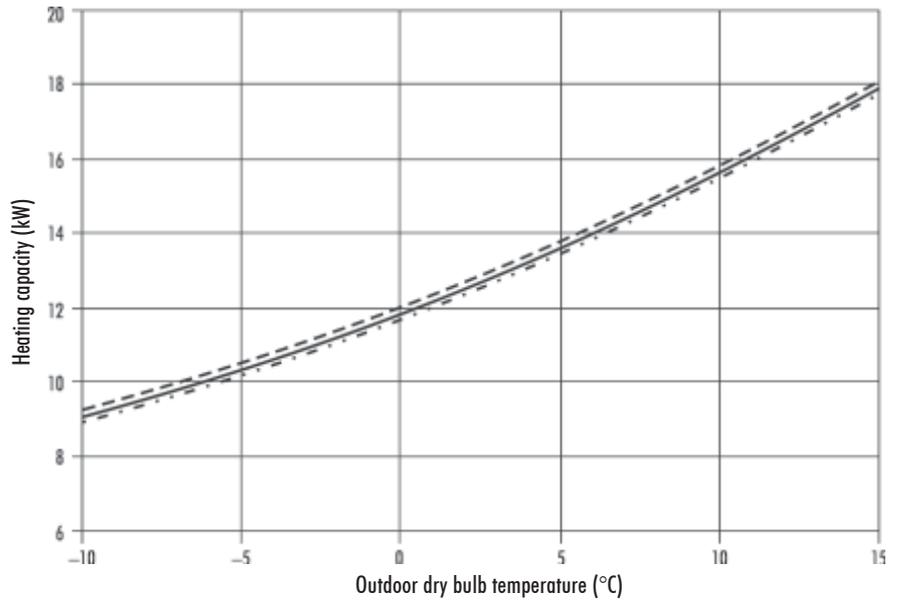


# MD Multi-duct cassettes

## HEATING CAPACITY

Model MD 50  
three phase

Indoor temperature  
20°C Dry bulb - - - - -  
18°C Dry bulb - - - - -  
15°C Dry bulb - - - - -



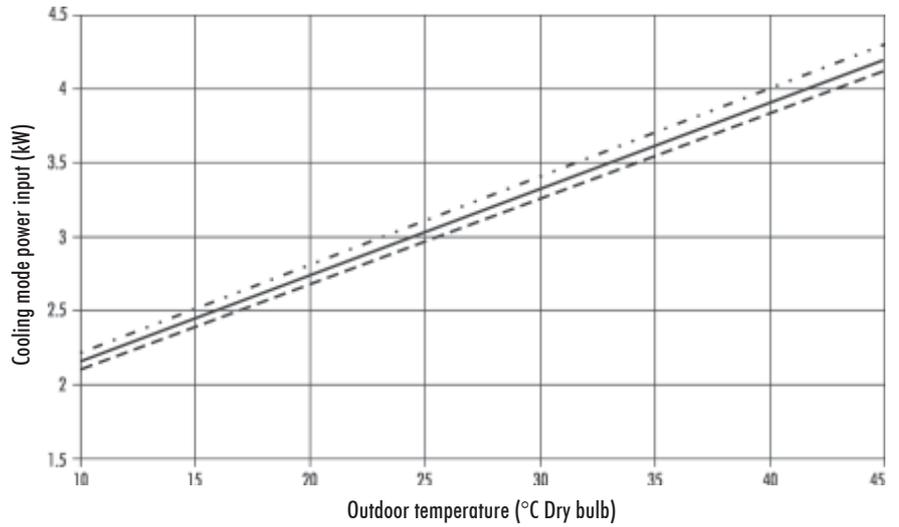


# MD Multi-duct cassettes

## COOLING MODE POWER UNIT

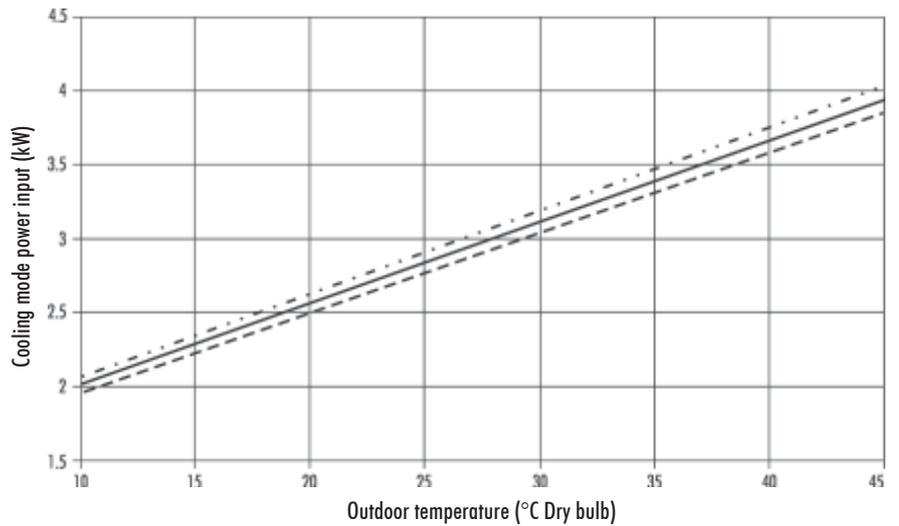
**Model MD 35**  
single phase

Indoor temperature  
 30° C Dry Bulb - 50% humidity - ·····  
 27° C Dry Bulb - 50% humidity - ———  
 23° C Dry Bulb - 50% humidity - - - -



**Model MD 35**  
three phase

Indoor temperature  
 30° C Dry Bulb - 50% humidity - ·····  
 27° C Dry Bulb - 50% humidity - ———  
 23° C Dry Bulb - 50% humidity - - - -



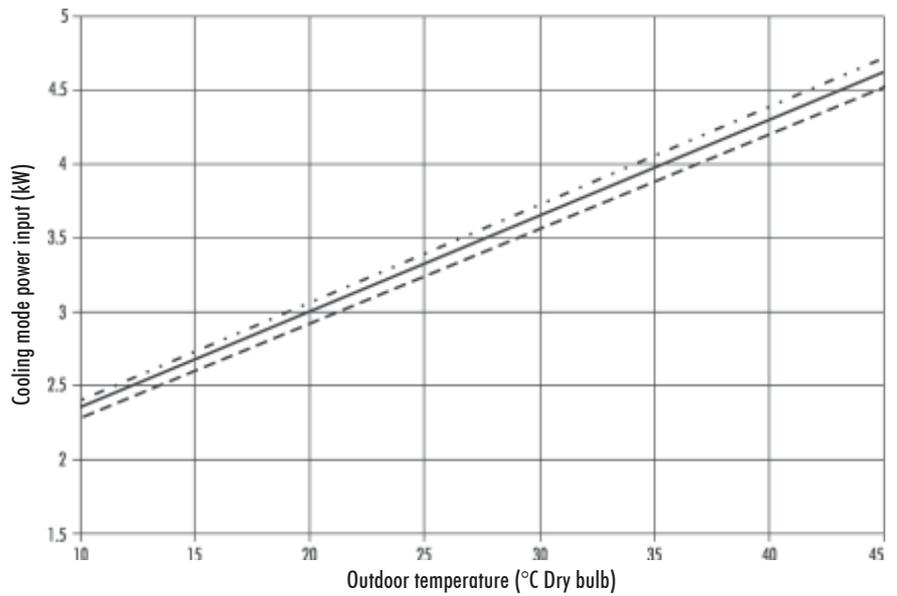


# MD Multi-duct cassettes

## COOLING MODE POWER UNIT

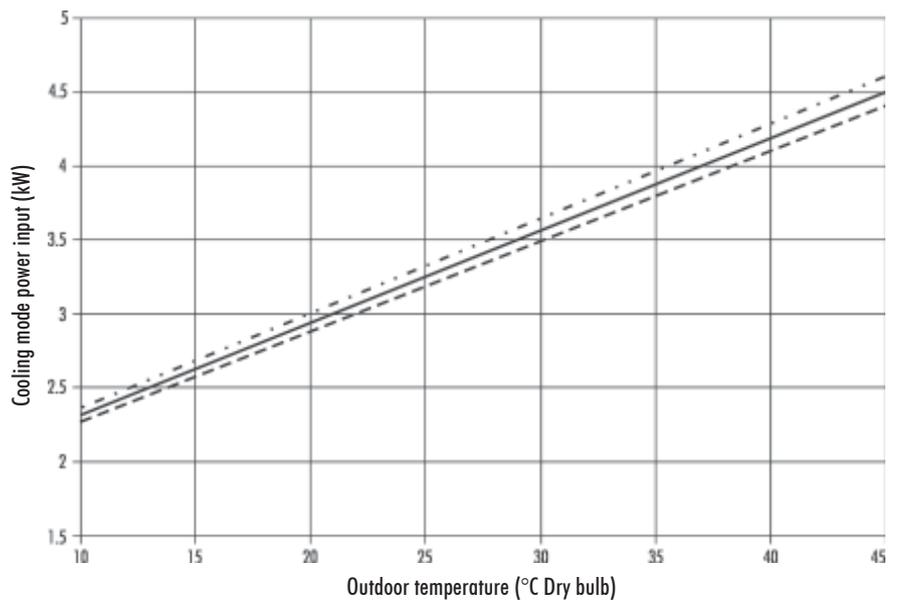
**Model MD 38**  
single phase

Indoor temperature  
 30° C Dry Bulb - 50% humidity - - - - -  
 27° C Dry Bulb - 50% humidity ————  
 23° C Dry Bulb - 50% humidity - - - - -



**Model MD 38**  
three phase

Indoor temperature  
 30° C Dry Bulb - 50% humidity - - - - -  
 27° C Dry Bulb - 50% humidity ————  
 23° C Dry Bulb - 50% humidity - - - - -



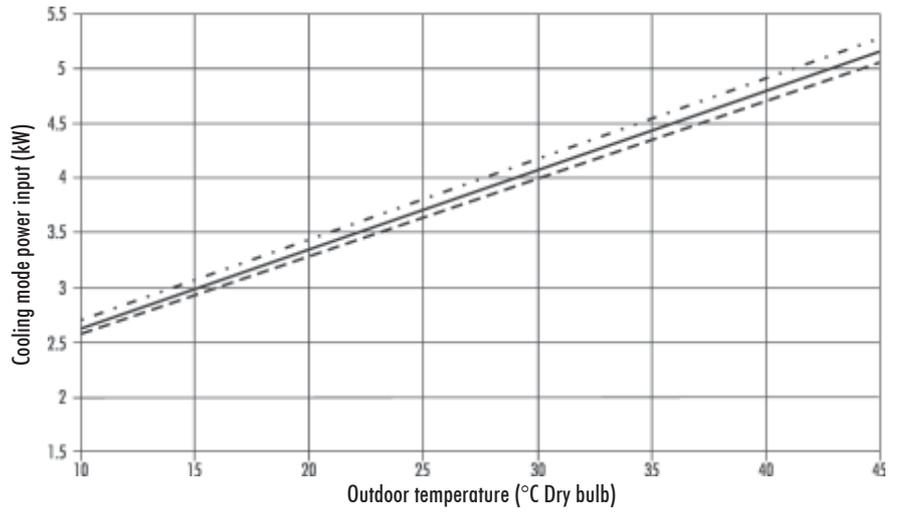


# MD Multi-duct cassettes

## COOLING MODE POWER UNIT

Model MD 50  
three phase

Indoor temperature  
30° C Dry Bulb - 50% humidity - - - - -  
27° C Dry Bulb - 50% humidity ————  
23° C Dry Bulb - 50% humidity - - - - -



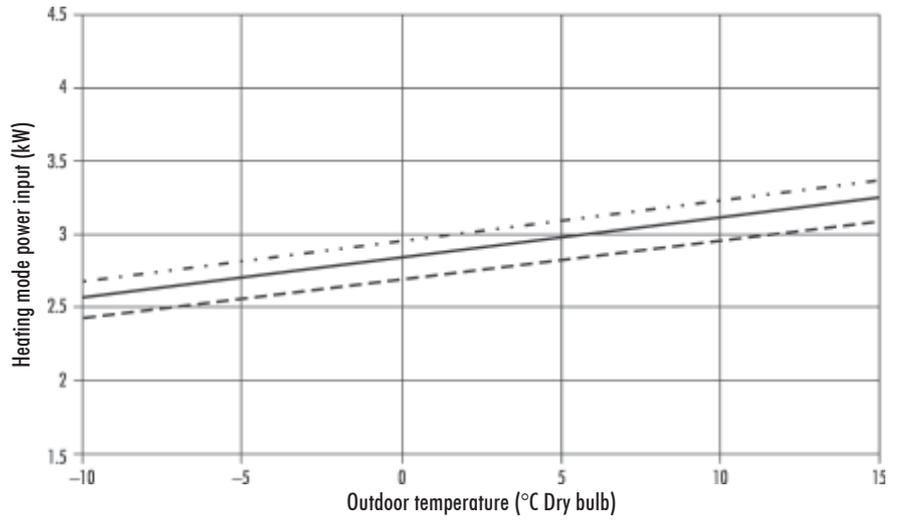


# MD Multi-duct cassettes

## HEATING MODE POWER UNIT

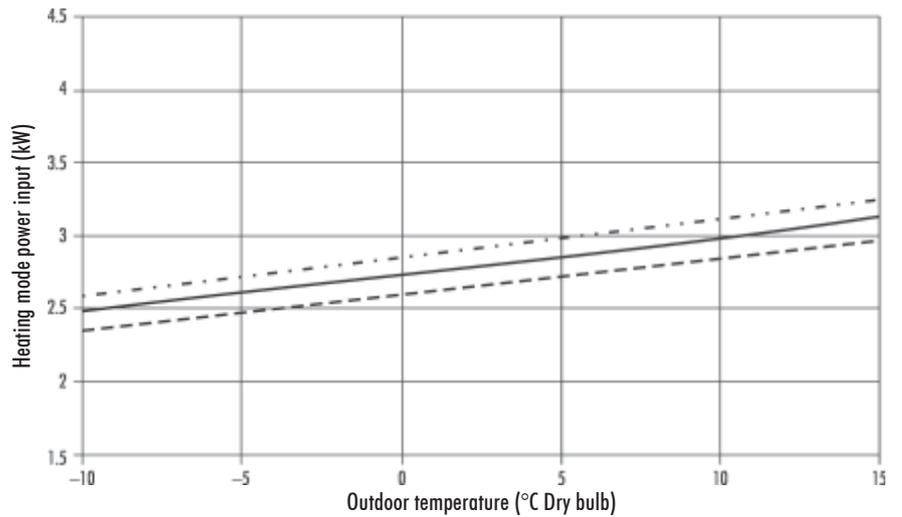
**Model MD 35**  
single phase

Indoor temperature  
 20°C Dry Bulb - - - - -  
 18°C Dry Bulb ————  
 15°C Dry Bulb - - - - -



**Model MD 35**  
three phase

Indoor temperature  
 20°C Dry Bulb - - - - -  
 18°C Dry Bulb ————  
 15°C Dry Bulb - - - - -



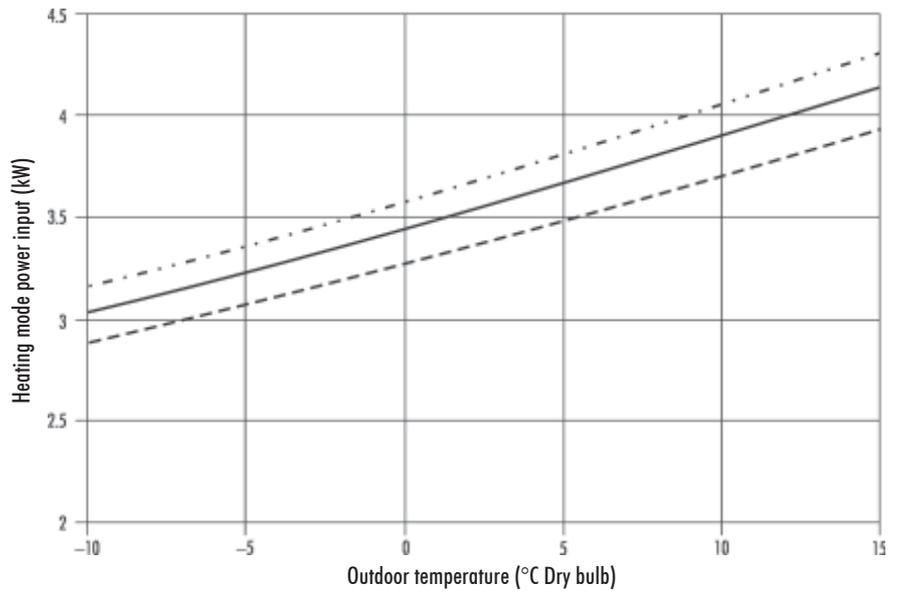


# MD Multi-duct cassettes

## HEATING MODE POWER UNIT

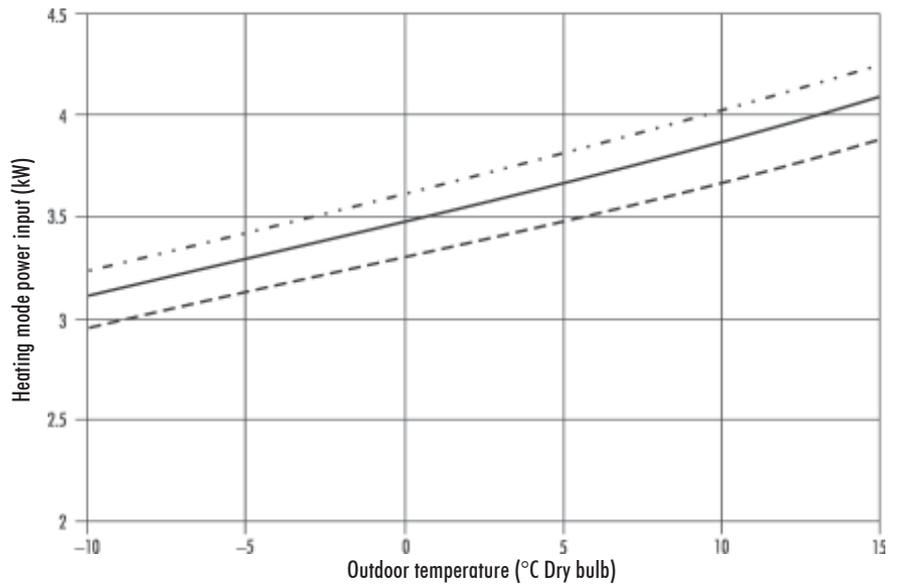
**Model MD 38**  
single phase

Indoor temperature  
 20°C Dry Bulb - - - - -  
 18°C Dry Bulb ————  
 15°C Dry Bulb - - - - -



**Model MD 38**  
three phase

Indoor temperature  
 20°C Dry Bulb - - - - -  
 18°C Dry Bulb ————  
 15°C Dry Bulb - - - - -



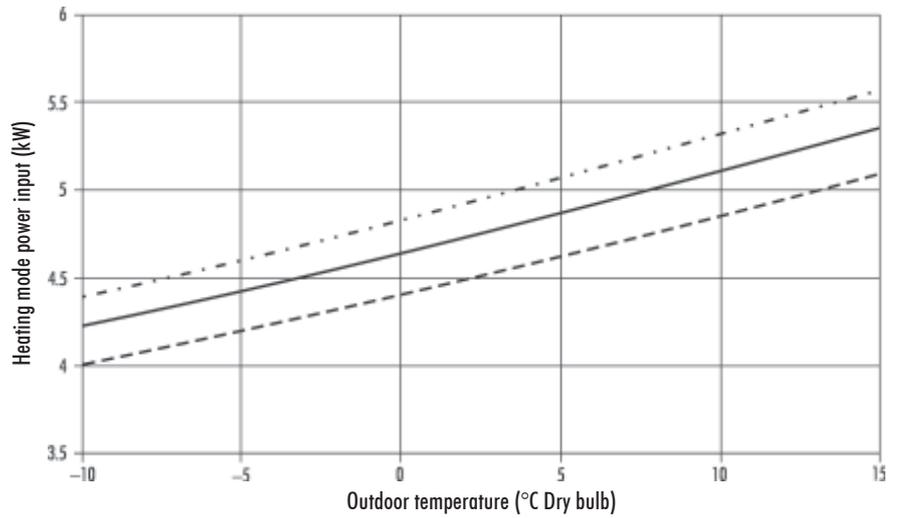


# MD Multi-duct cassettes

## HEATING MODE POWER UNIT

Model MD 50  
three phase

Indoor temperature  
20°C Dry Bulb - - - - -  
18°C Dry Bulb ————  
15°C Dry Bulb - - - - -



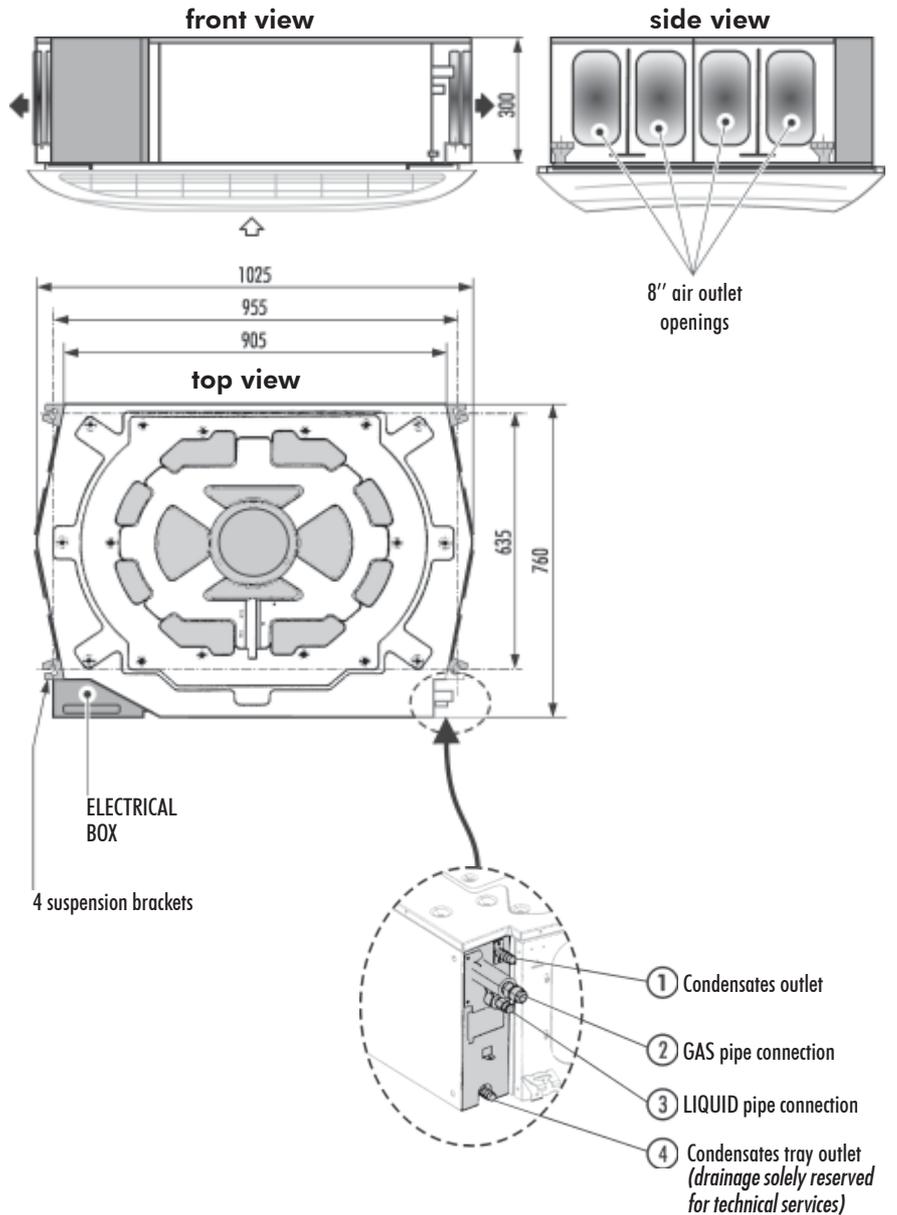


# MD Multi-duct cassettes

## DIMENSIONS

Dimensions in mm

Indoors units  
 MD 35  
 MD 38  
 MD 50





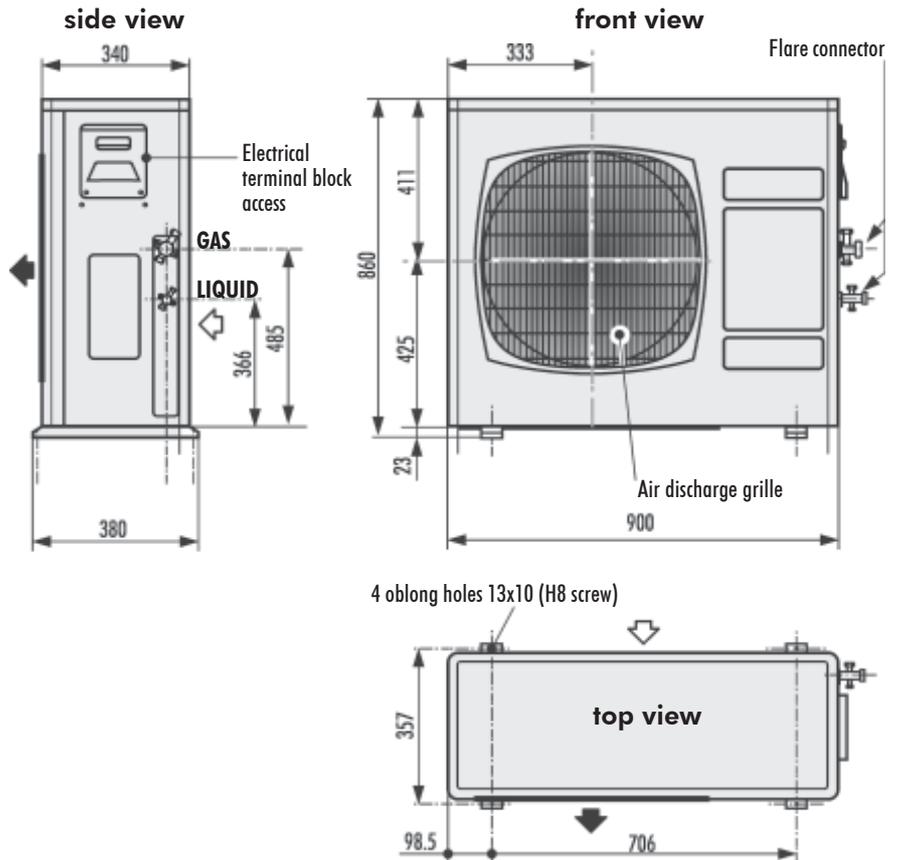
# MD Multi-duct cassettes

## DIMENSIONS

Dimensions in mm

Outdoor unit  
GC MD 35

⇨ INTAKE  
⇦ DISCHARGE





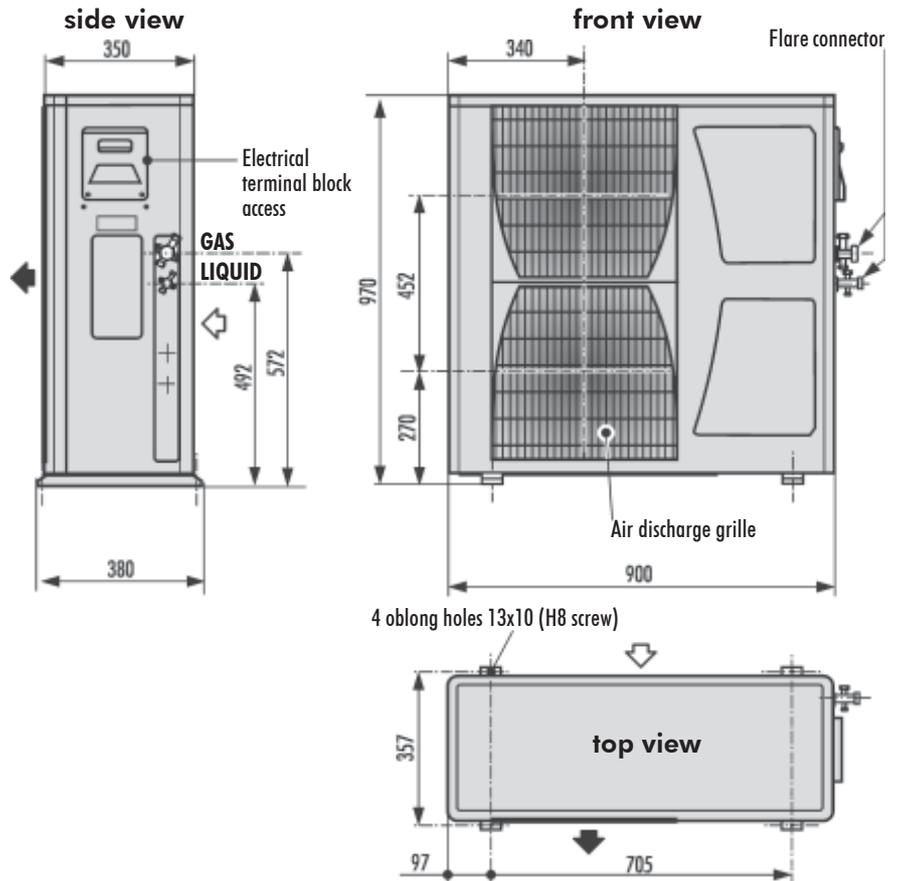
# MD Multi-duct cassettes

## DIMENSIONS

Dimensions in mm

Outdoors units  
GC MD 38  
GC MD 50

◻ INTAKE  
◼ DISCHARGE





# MD Multi-duct cassettes

## INDOOR UNIT INSTALLATION

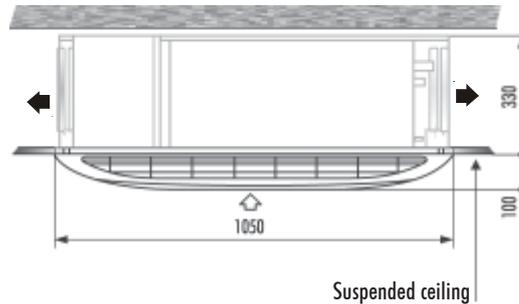
Dimensions in mm

The unit slots into a suspended ceiling:

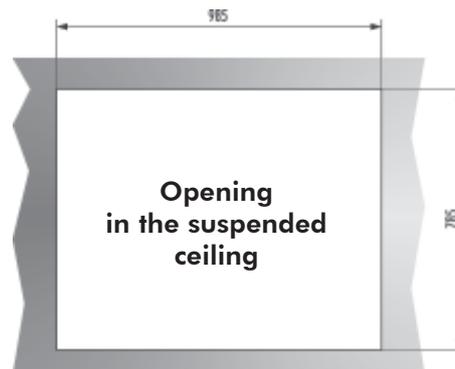
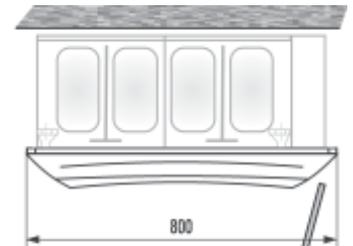
There are 2 types of installation:

1°) With recycled air intake grille

front view



side view

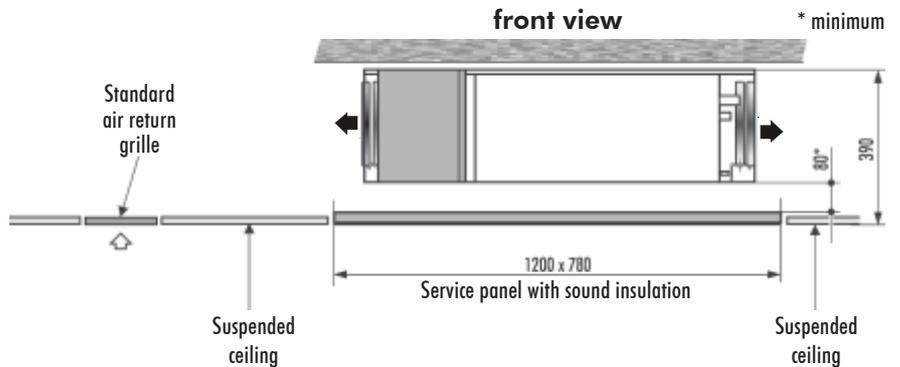


⇨ INTAKE

⇨ DISCHARGE

2°) With service panel in suspended ceiling

front view



Refer to detailed fitting instructions in the installation manual supplied with the equipment.



# MD Multi-duct cassettes

## INDOOR UNIT INSTALLATION

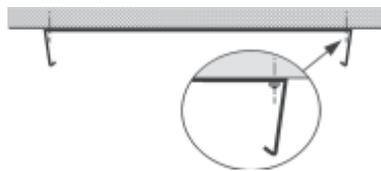
Dimensions in mm

### Attachments

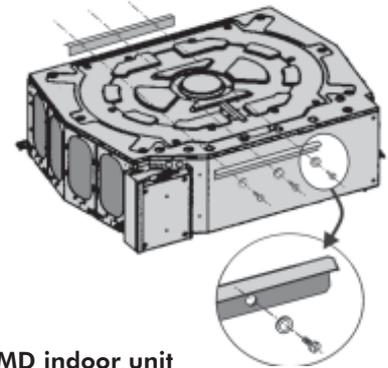
There are **2 options** :

#### 1°) With a mounting plate

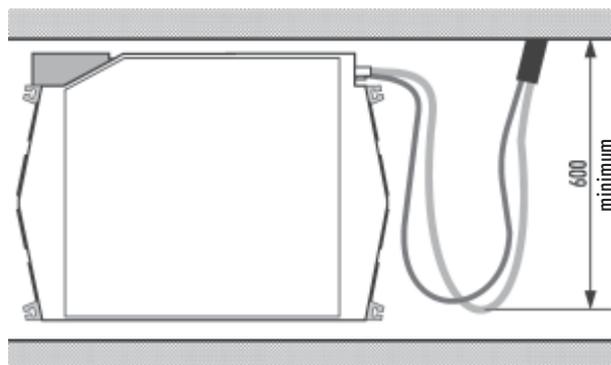
installation  
of the mounting plate  
in the suspended ceiling



installation  
of suspensions rails



attachment of the MD indoor unit  
to the mounting plate



preparation for connecting with  
use of the mounting plate



# MD Multi-duct cassettes

## INDOOR UNIT INSTALLATION

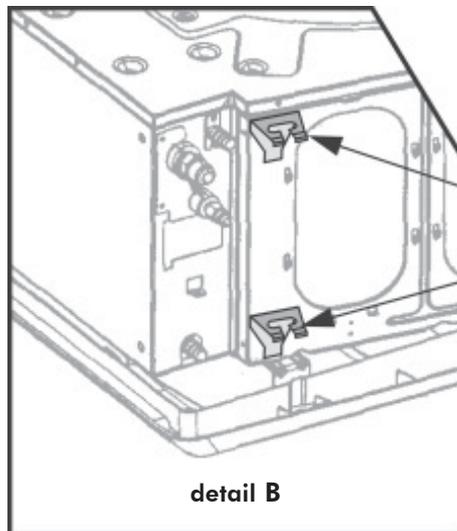
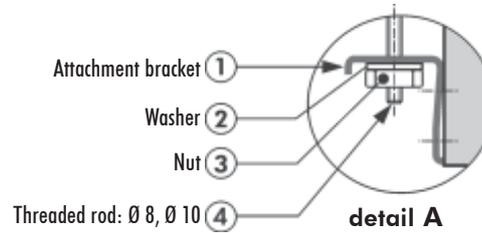
### Attachments

#### 2°) With threaded rods

There are positioning possibilities for the attachment brackets, either on the lower part or the upper part of the cassette (see **detail B**).



detail A



Choice of 2 positions for  
attachment brackets

detail B



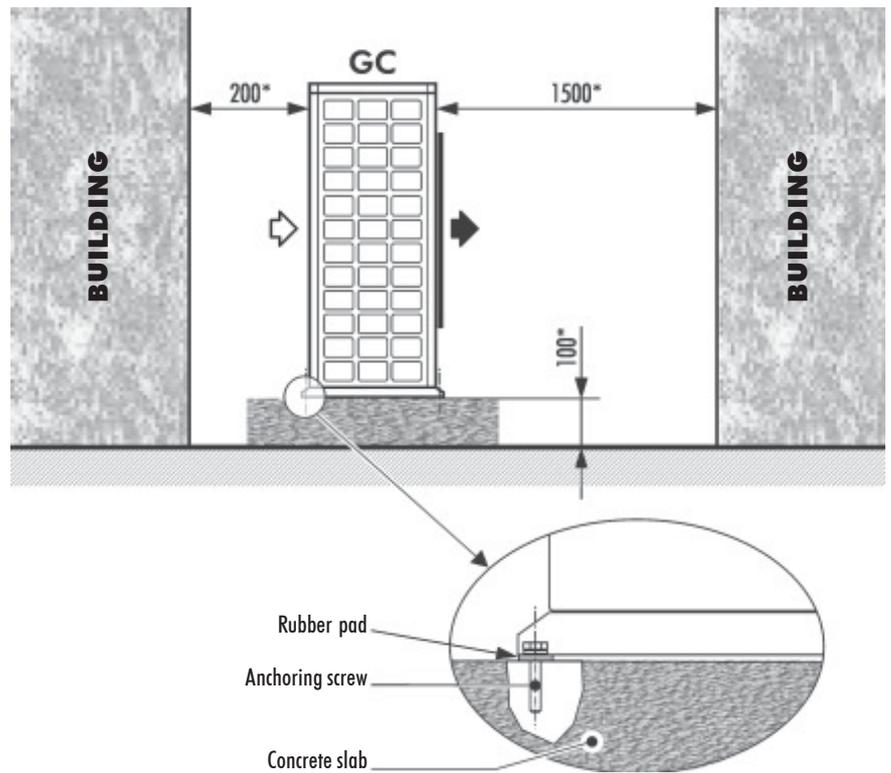
# MD Multi-duct cassettes

## OUTDOOR UNIT INSTALLATION

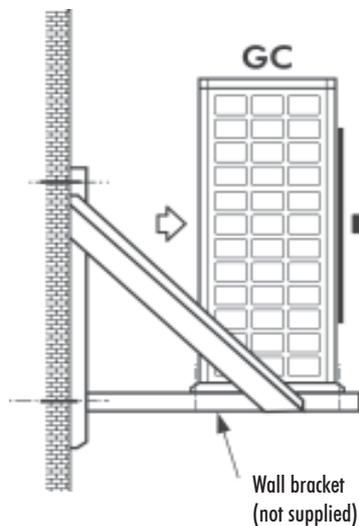
Dimensions in mm  
\* minimum

There are 2 mounting systems:

### 1°) Floor mounting



### 2°) Suspended mounting



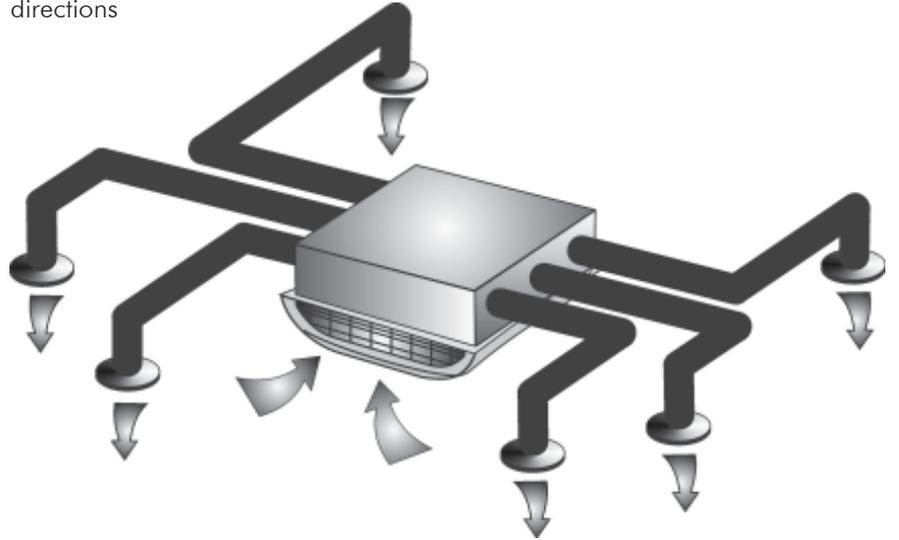
⇨ INTAKE  
 ■ DISCHARGE



# MD Multi-duct cassettes

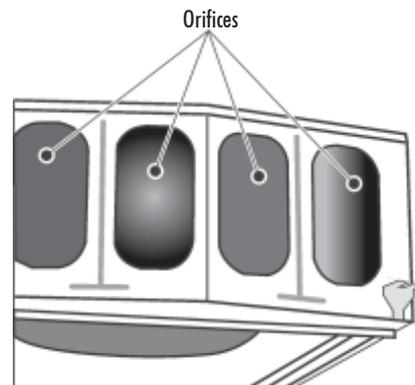
## AIR DISTRIBUTION

Air distribution is by way of a duct network providing airflows in two opposite directions

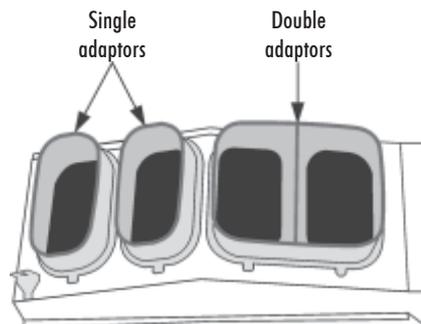


The **MD indoors unit** has 4 air blowing openings on either side of the unit (see **detail A**):

- A maximum of 6 orifices are used with the 6 adaptors supplied, for from 8" to 12" cylindrical ducts (see **detail B**).



**detail A**

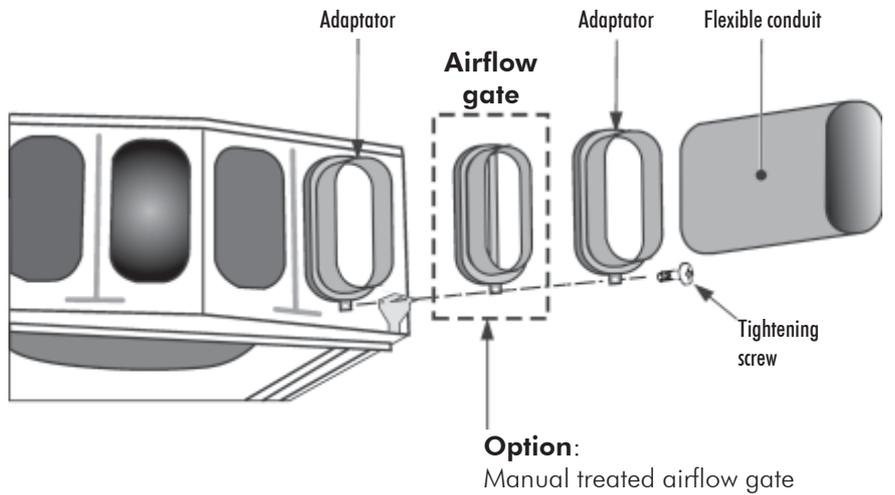
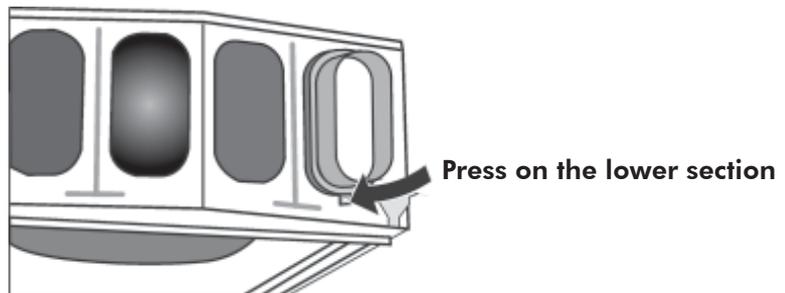
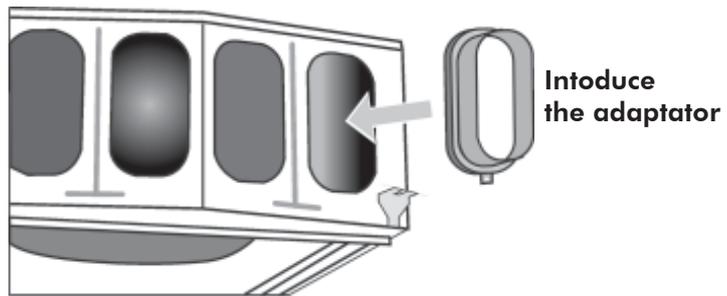


**detail B**



# MD Multi-duct cassettes

## AIR DISTRIBUTION

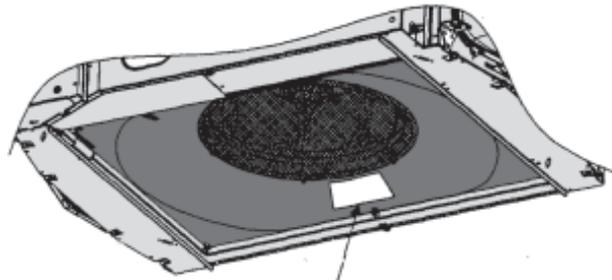




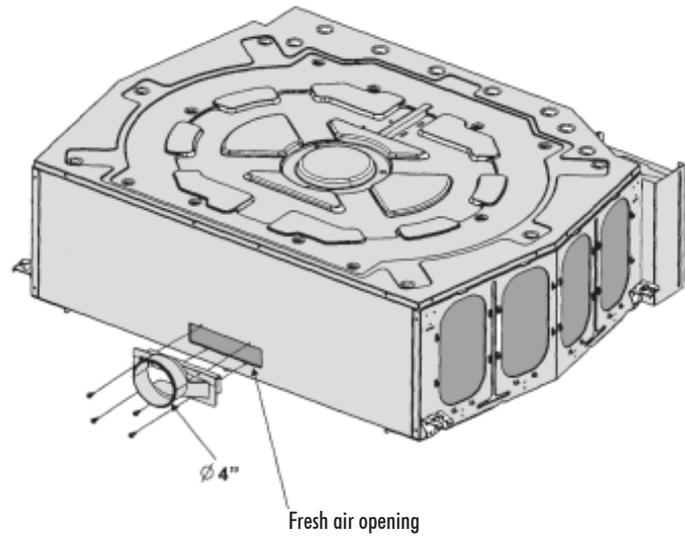
# MD Multi-duct cassettes

## NEW AIR INTAKE (option)

Connect the fresh air conduit ( $\varnothing$  4").



Drill an opening in the air intake plastic

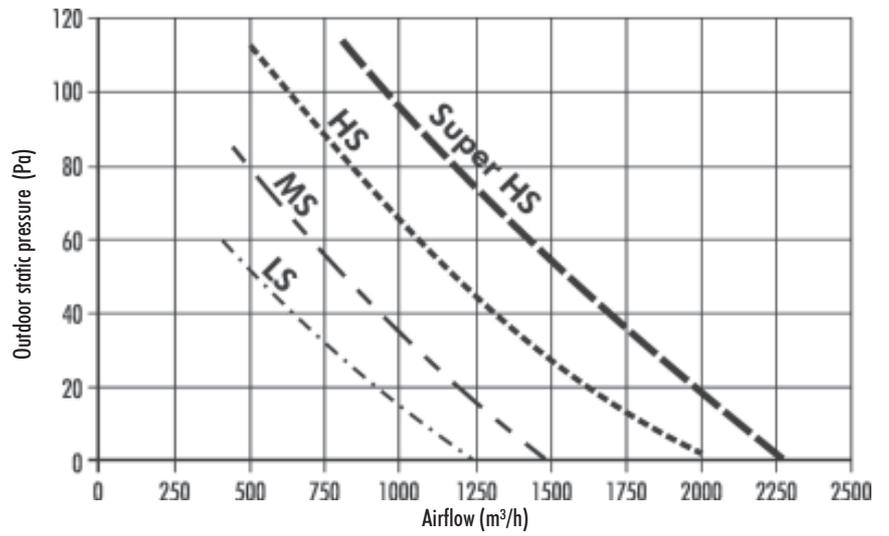




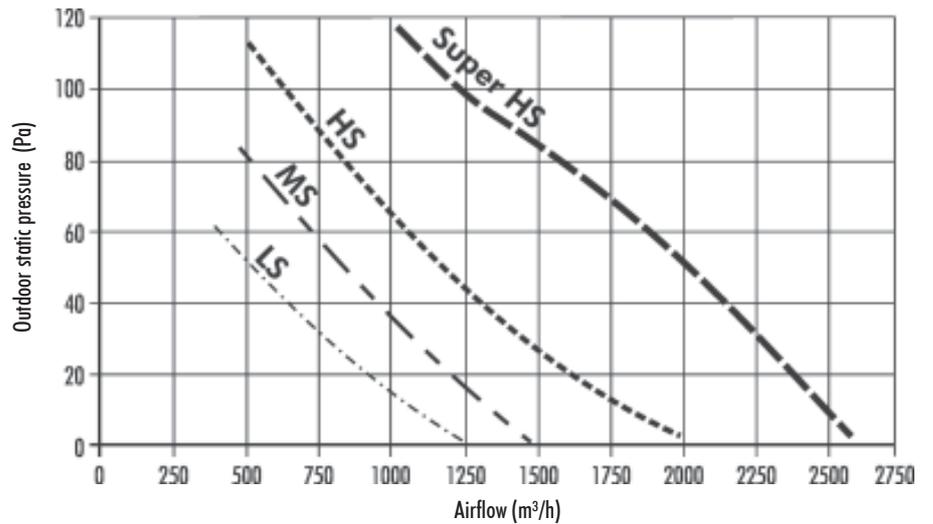
# MD Multi-duct cassettes

## AERUALIC CHARACTERISTICS

Indoors units  
 MD 35  
 MD 38



Indoor unit  
 MD 50

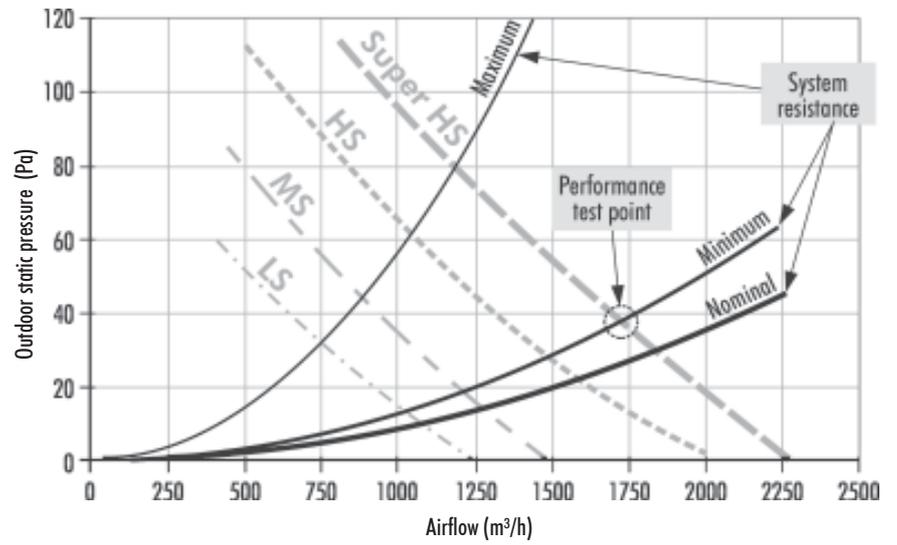




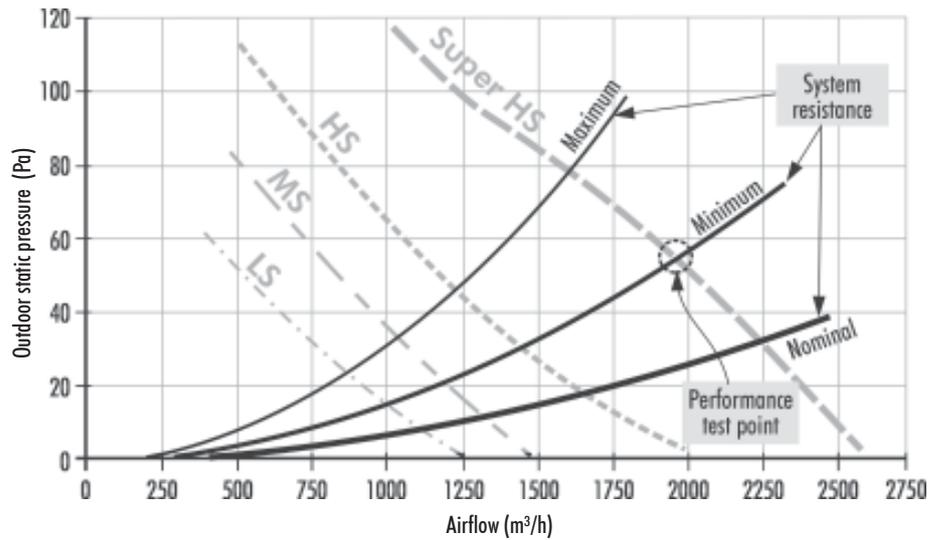
# MD Multi-duct cassettes

## AERUALIC CHARACTERISTICS

Indoors units  
 MD 35  
 MD 38



Indoor unit  
 MD 50





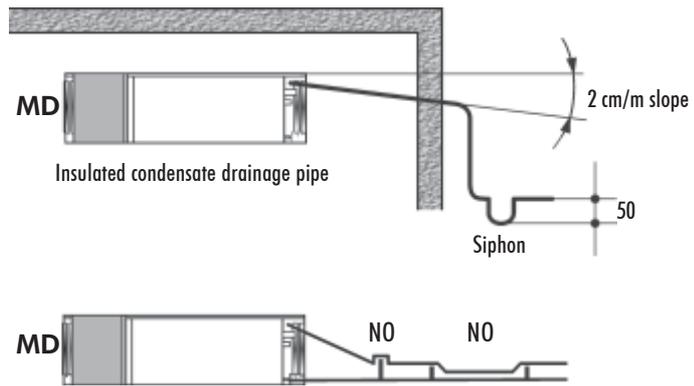
# MD Multi-duct cassettes

## CONDENSATES DRAINAGE

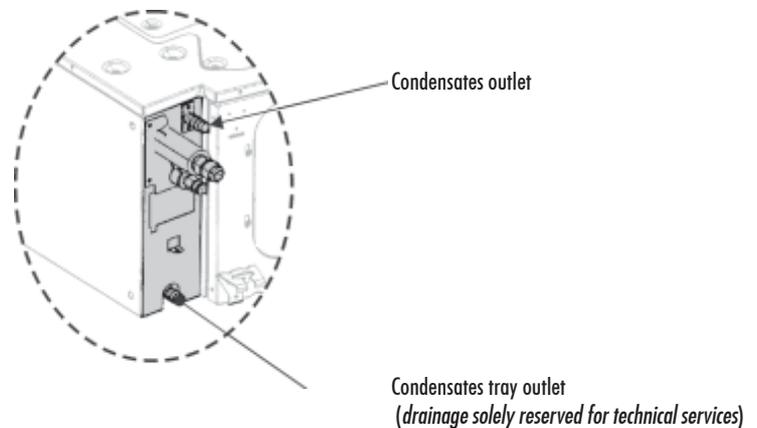
The **MD indoors unit** is equipped with a factory-fitted condensates lift pump with a drainage lift height of 600 mm.

To ensure effective condensates drainage the downward slope should be 2 cm per metre without any restrictions or rising pipe sections (See Fig. 1). Moreover, a siphon with a height of at least 50 mm must be integrated in the pipe to ensure that no unpleasant odours infiltrate the room.

To avoid condensation accumulating on the drainage pipe it must be insulated with insulating material with a thickness of between 5 to 10 mm, such as polyurethane, propylene or neoprene, in compliance with current regulations.



A  $\varnothing$  32 mm opening is to be created for the pipe through the building wall.





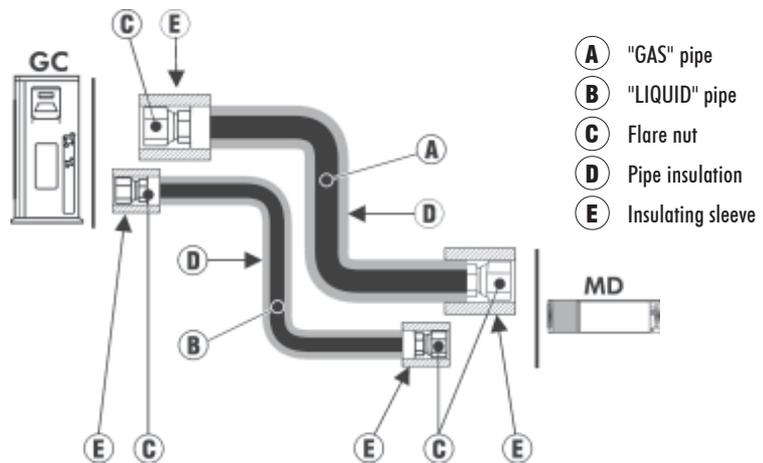
# MD Multi-duct cassettes

## REFRIGERATION CONNECTIONS

The **MD Multi-Duct Cassettes** are designed for refrigeration connection to the outdoors units by means of pipes with Flare connectors (completely insulated refrigeration quality copper pipes with ends equipped with Flare nuts).

Various lengths of pipes equipped with Flare connectors are available from the factory:

- Fixed lengths: 2.5 – 5 – 8 m.

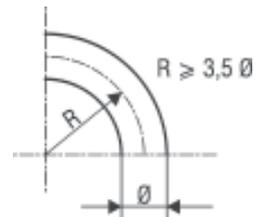


### Tightening torque

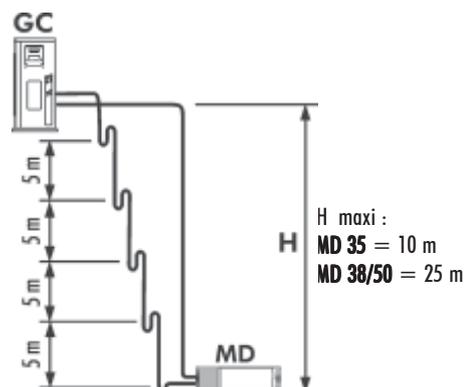
Pipe Ø	Torque
1/4" pipe	15-20 Nm
3/8" pipe	30-35 Nm
1/2" pipe	50-54 Nm
5/8" pipe	70-75 Nm

1 Newton – metre  
= 0.1 metre-kilo

### Refrigeration pipe bending



When the **Condenser Unit** is installed above the **Air treatment** unit a siphon **MUST** be installed every 5 m along the pipe run.





# MD Multi-duct cassettes

## REFRIGERANT CHARGE

The **R-407C** charge is only contained in the outdoors unit. The indoors unit contains a small quantity of neutral GAS. For this reason, after having installed the pipe connections, it is imperative to proceed with vacuum draining the connections and the indoors unit.

**R-407C** charge in relation to refrigerant connection pipe lengths.

Models		Single phase		Three phase		
		MD 35	MD 38	MD 35	MD 38	MD 50
GC charge for 7.5 m (factory filled)	g	2520	2400	2530	2800	3900
Maximum refrigerant pipe lengths	m	30	50	30	50	50
Charge to add depending on pipe length > 7.5 m	g/m	+25	+30	+25	+30	+35
Maximum height difference	m	10	25	10	25	25



# MD Multi-duct cassettes

## ELECTRICAL SPECIFICATIONS

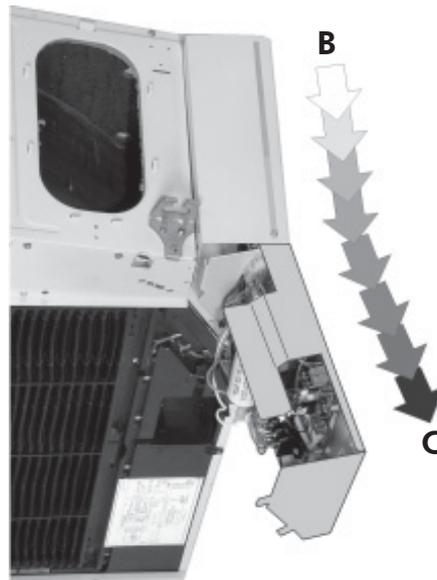
Proceed with the following operations to gain access to the electrical box:

**A)** Remove the screws located on the base of the casing.



**B)** Slide the electrical box downwards.

**C)** Remove the box from the rail.





# MD Multi-duct cassettes

## ELECTRICAL SPECIFICATIONS

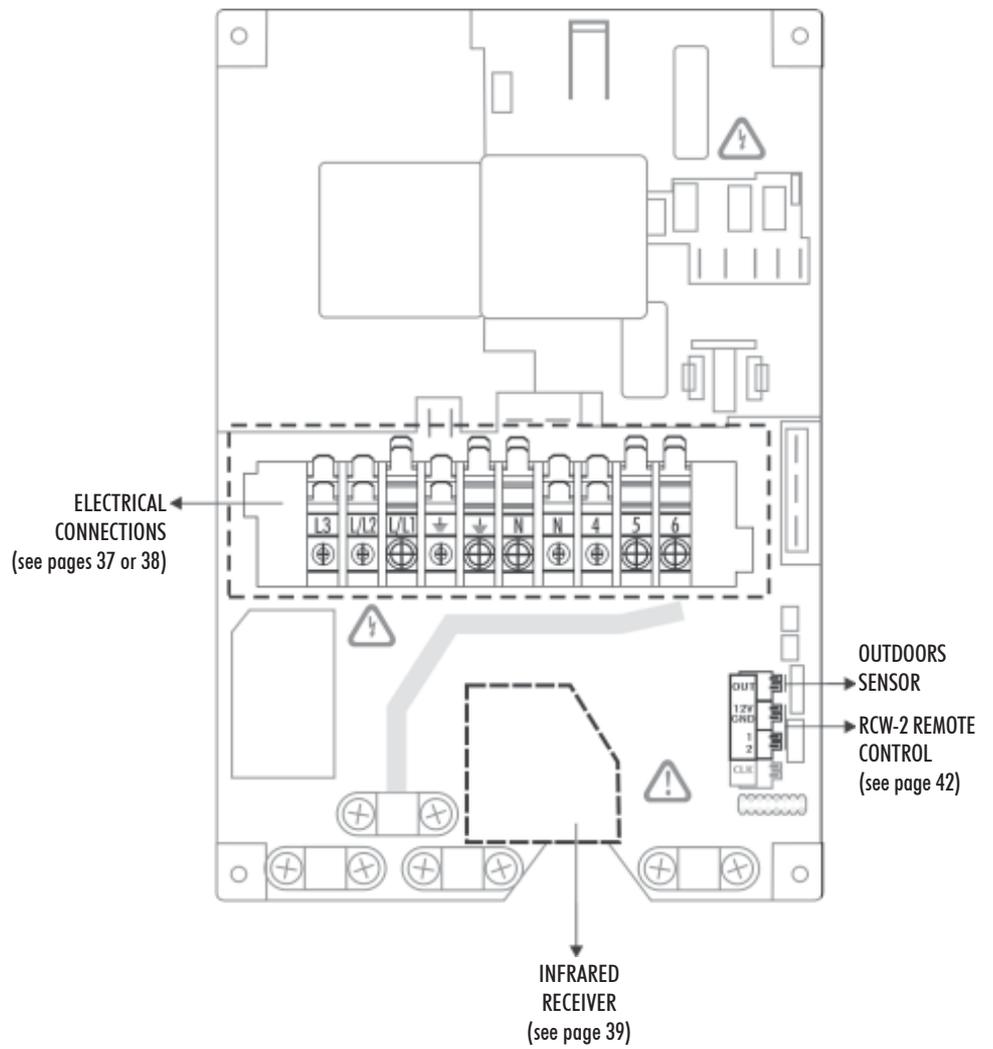
Models		MD 35 MD 35 RC	MD 38 MD 38 RC
Power supply	1~230 V - 50 Hz	•	•
Nominal current	A	15.7 / 13.7	17.2 / 17.3
Fuse calibre	A	20	25
Cable section	mm <sup>2</sup>	3 x 4	3 x 4
Links from MD to GC			
• Cable section	mm <sup>2</sup>	6 x 2.5 + 2 x 0.5 (Sensor)	

Models		MD 35 MD 35 RC	MD 38 MD 38 RC	MD 50 MD 50 RC
Power supply	3N~400V - 50 Hz	•	•	•
Nominal current	A	8.9 / 8	10.1 / 10.4	13.6 / 13.6
Fuse calibre	A	10	16	16
Cable section	mm <sup>2</sup>	5 x 4	5 x 4	5 x 4
Links from MD to GC				
• Cable section	mm <sup>2</sup>	6 x 1.5 + 2 x 1.5 (Option heating) + 2 x 0.5 (Sensor)		



# MD Multi-duct cassettes

## ELECTRICAL CONNECTIONS

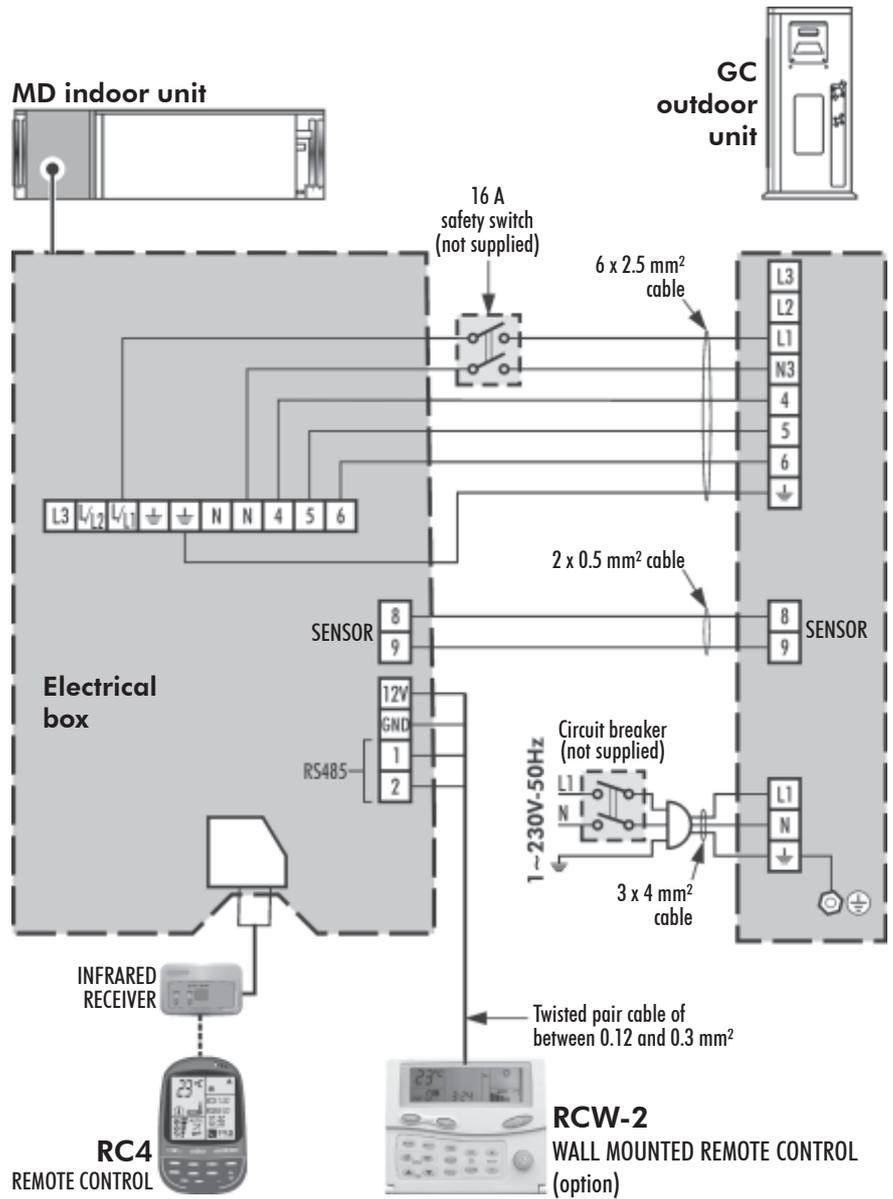




# MD Multi-duct cassettes

## ELECTRICAL CONNECTIONS

Single phase units

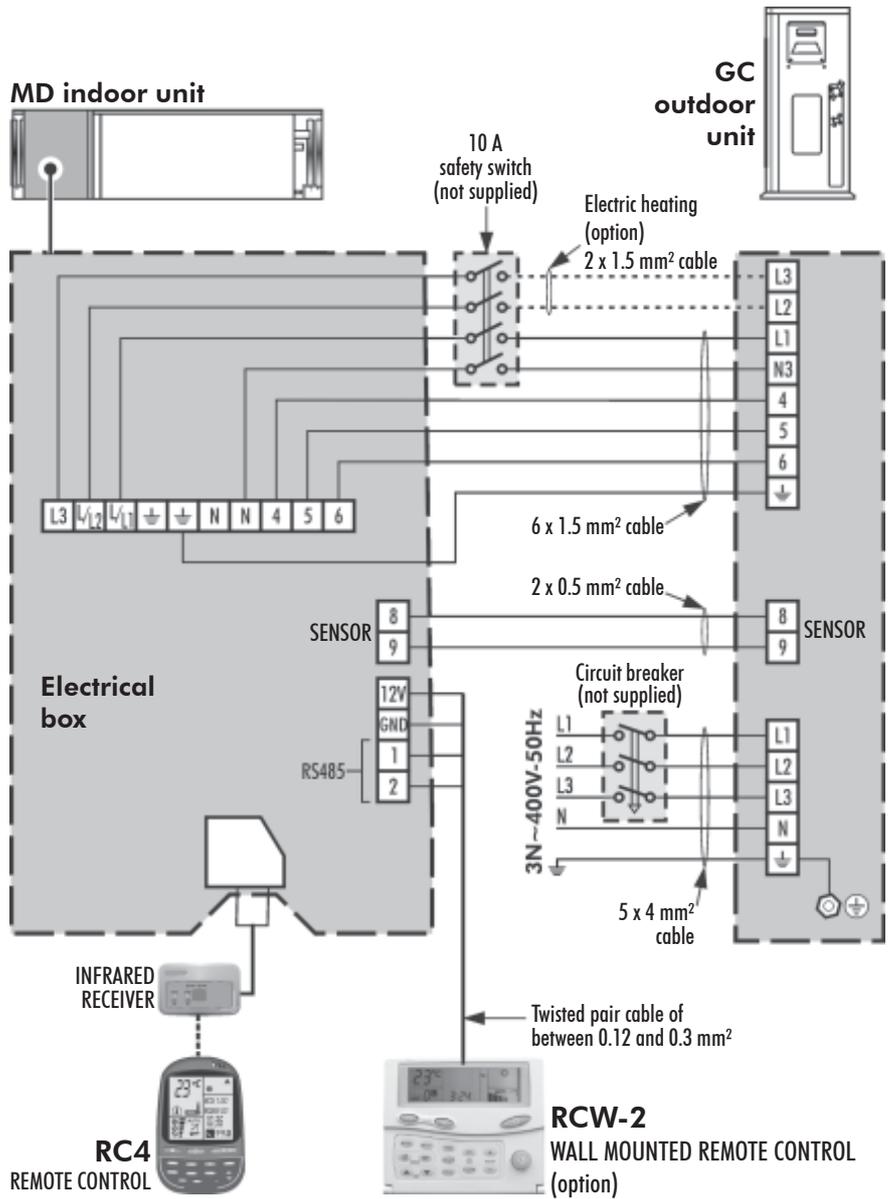




# MD Multi-duct cassettes

## ELECTRICAL CONNECTIONS

Three phase units





# MD Multi-duct cassettes

## INFRARED RECEIVER

**COOL\*** ..... COOLING mode light

**HEAT\*** ..... HEATING mode light

**TIMER** ..... Timed programming activated light

**STBY** ..... Standby light  
It lights up when the unit is connected and when it is ready to receive instructions from the remote control.

**OPER** ..... Operating light  
It lights up when the unit is running.  
A flashing light confirms that the infra red signal has been received.

**MODE** ..... Emergency control  
Pressing this key enables the COOL and HEAT functions to be selected in the event of the remote control not being available.



Infrared signal receiver

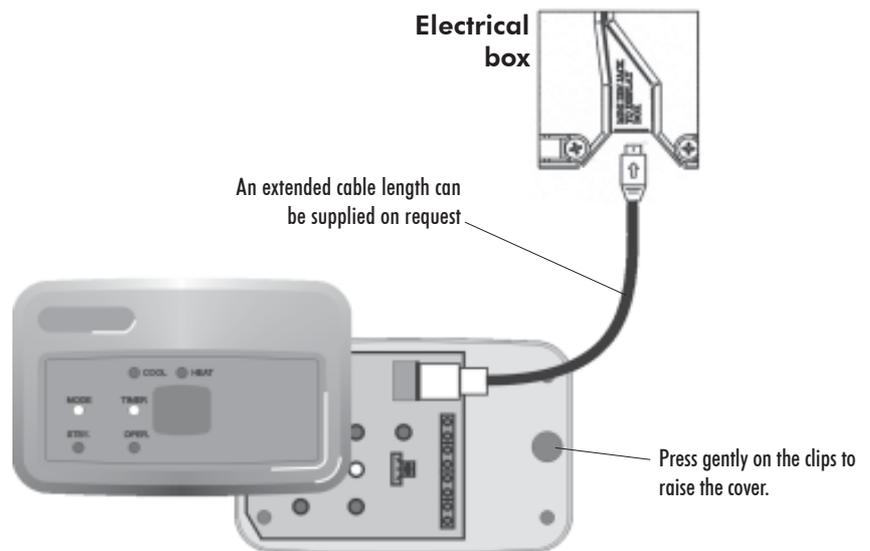
**\*NOTE:**  
The **COOL** and **HEAT** lights are activated by actuating the **MODE** function on the receiver.

# MD Multi-duct cassettes

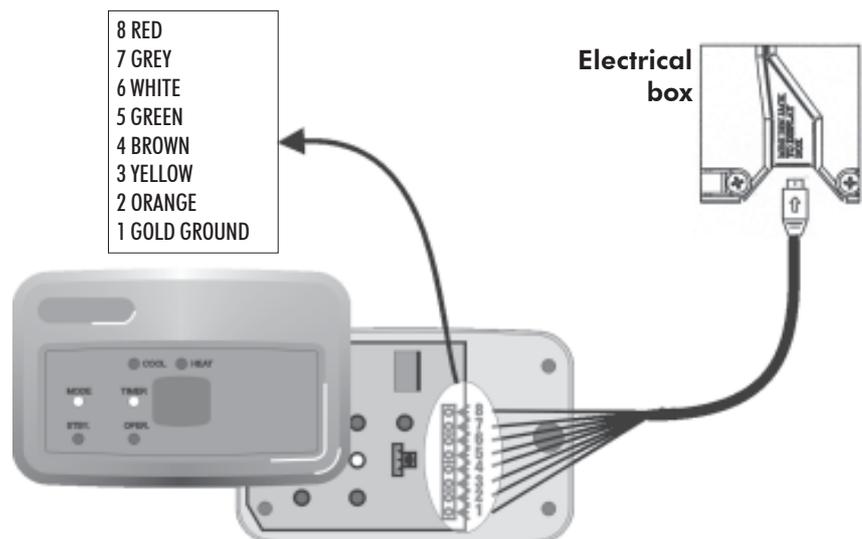


## INFRARED RECEIVER

Connections between the control panel and the infrared receiver



- The equipment is supplied with a 7m long shielded cable, fitted with connectors at both ends for connecting the electrical box to the infra red receiver.
- In the event of difficulties is using the connection cable it is possible to cut the cable and make the connection on the receiver by means of the terminal block.



- In this case, the above colour code should be followed. It corresponds to the colours of the 7 conductors plus the Ground connection that must be connected to the last terminal marked **Gd**.
- To guarantee a good connection, end fittings for 0.25 mm<sup>2</sup> section cable must be fitted to the cable ends.

# MD Multi-duct cassettes

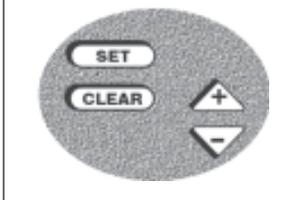


## RC4 INFRARED REMOTE CONTROL

### RESET FUNCTION

1. Remove the battery.
2. Simultaneously press these 4 keys until the symbols disappear.
3. Replace the battery.

The 4 keys concerned are:



**Note**  
Flip open the cover/flap to gain access to the controls.

- ① START / STOP key
- ② Operating mode selection key: COOLING, HEATING, AUTOMATIC COOLING/HEATING REGULATION, VENTILATION, DEHUMIDIFICATION
- ③ I FEEL key: local temperature sensing
- ④ VENTILATION SPEED or AUTOMATIC VENTILATION selection key
- ⑤ Key for raising ambient temperature
- ⑥ Key for lowering ambient temperature
- ⑦ SLEEP key
- ⑧ Key inactive
- ⑨ Key inactive
- ⑩ PROGRAMMING mode selection key
- ⑪ «+» key for raising set temperature and increasing operating time
- ⑫ «-» key for lowering set temperature and decreasing operating time
- ⑬ Liquid crystal display
- ⑭ I FEEL sensor
- ⑮ Infrared signal emitter
- ⑯ ROOM key: ambient temperature display
- ⑰ SET key for setting the PROGRAMMING STOP and/or START times
- ⑱ CLEAR key for erasing the timer parameters
- ⑲ LOCK key



# MD Multi-duct cassettes



## RCW-2 WALL MOUNTED INFRARED REMOTE CONTROL

A wall mounted hardwired remote control is available as an accessory. It groups together all the air conditioning management functions of your air conditioner.

Possibility to pilot until 10 indoors units.



- ① Display screen
- ② Keys for raising and lowering the set temperature.
- ③ Ventilation mode selection:
  - ▬ Low Speed
  - ▬▬ Medium Speed
  - ▬▬▬ High speed
 AUTO: Automatic speed selection.
- ④ ON / Standby
  - SET Accessing the time setting mode.
  - + Advancing the time setting.
  - Retarding the time setting.
  - CLEAR Clearing memory of programmed time settings in programming mode
  - LOCAL Day of the week selection key or sending «I feel» local temperature setting.
  - PROG Programming mode key.
  - ☰ «Copy» key, enabling zone parameters to be duplicated for other zones.
  - MODE Operating mode selection.
  - NIGHT Day /Night key
  - ▲ Current zone setting: zone above.
  - ▼ Current zone setting: zone below.
  - ⏸ Key inactive.
  - ⏹ Key inactive.



# MD Multi-duct cassettes

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