

AXIAL MAD

ENVELOPE

- ✓ Galvanised sheet metal coated with epoxy baked powder paint
- ✓ Thermo-acoustic fire resistant insulation foam
 - Customized design to meet special requirements

COMPRESSORS

- ✓ Scroll compressors with Crankcase heaters
- ✓ Compressor discharge temperature protection
 - Scroll Inverter compressors
 - Compressors jacket for lower sound levels
 - Compressor soft start

HEAT EXCHANGERS

- ✓ Optimised coils manufactured from copper tube and aluminium fins
 - Fins coating protection (Epoxy, Blygold©...)

VENTILATION

- ✓ AC axial fans (2 speeds)
 - Axial EC fans with stepless head pressure control (PID)

OTHERS

- Electric heating for additional heating
- Low pressure hot water coil for additional heating
- Air quality sensors
- Fire and smoke detector

REFRIGERATION CIRCUIT

- ✓ 1 or 2 refrigeration circuits
- ✓ Thermostatic expansion valves
- ✓ Filter dryer
- ✓ Full operating charge of R410
- ✓ Non-return valves
- ✓ 4 way valve for heat pump mode
- ✓ High and low pressure switch
 - Electronic expansion valves
 - R-134a refrigerant for high ambient temperatures

ENERGY SAVINGS

- Free cooling (based on temperature or enthalpy), of 2 or 3 dampers



ELECTRICAL COMPONENTS

- ✓ In accordance with EN-60204-1
- ✓ Door interlocking electric isolator
- ✓ Phase rotation protection
- ✓ Sub circuit and fuse protection
- ✓ Wired to the latest European standards and codes of practice
 - Magnetothermal protection
 - Energy manager to monitor energy consumption

SOFTWARE & CONTROL

- ✓ **Unity Software:** Dedicated RC Clima software
- ✓ Time zone programming
- ✓ BMS port communication via Modbus RTU
- ✓ Data logging and alarms log
- ✓ EC fans controlled via Modbus
 - User terminal Th-Tune
 - BMS communication cards available (Bacnet, Modbus, Ethernet)
 - pGD Graphic Display

AIR FILTRATION

- ✓ Category G4 air filter
 - Category M5, M6, F7, F8, F9
 - Filter change pressure switch

✓ Standard
*Options

Cooling capacity and input power at nominal conditions. Indoor temperature of DBT= 27°C, WBT = 19°C and outdoor temperature of DBT = 35°C, in accordance with UNE-EN 14511 standard. Heating capacity and input power at nominal conditions. Indoor temperature of DBT = 20°C, WBT = 15°C max., And outdoor temperature of DBT = 7°C, WBT = 6°C, in accordance with UNE-EN 14511 standard.

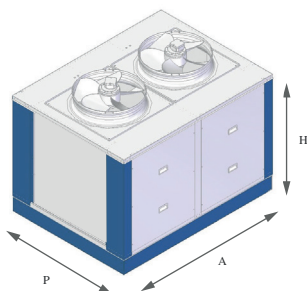
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MODEL		MAD025	MAD035	MAD045	MAD050	MAD065
COOLING MODE						
Total cooling capacity	kW	25,5	36,5	43,1	49,0	65,4
Sensible cooling capacity		19,5	28,0	34,0	38,9	51,9
Input power in cooling	kW	8,2	12,8	15,4	15,9	21,5
EER	W/W	3,12	2,85	2,80	3,08	3,04
HEATING MODE						
Total heating capacity	kW	24,9	36,0	42,8	48,0	64,1
Input power in heating	kW	7,6	12,1	14,2	14,8	20,2
COP	W/W	3,29	2,97	3,00	3,23	3,17
COMPRESSORS						
Type of compressor		Scroll				
Nº of compressors	ud	2	2	2	2	2
Nº of circuits	ud	1	1	1	1	2
OUTDOOR FANS						
Type		AC Axial				
Air flow	m³/h	8.300	14.500	14.300	18.000	18.400
External static pressure	Pa	50	50	60	55	55
INDOOR FANS						
Type		Centrifugo EC				
Air flow	m³/h	4.800	7.000	7.900	9.700	12.000
External static pressure	Pa	437	412	178	257	636
GENERAL DATA						
Mains incoming supply		400V-III-50Hz				
Refrigerant		R410A				

OPTIONAL: INVERTER

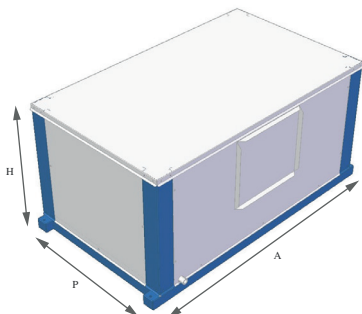
CONDENSING UNIT DIMENSIONS

MAD - C MODEL		MAD025	MAD035	MAD045	MAD050	MAD065
Width (W)	mm	1470	1470	1470	2000	2000
Depth (D)	mm	1000	1000	1000	1380	1380
Height (H)	mm	1700	1700	1700	1500	1500

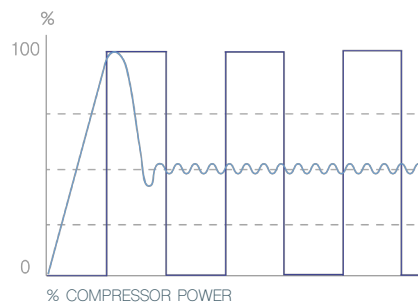
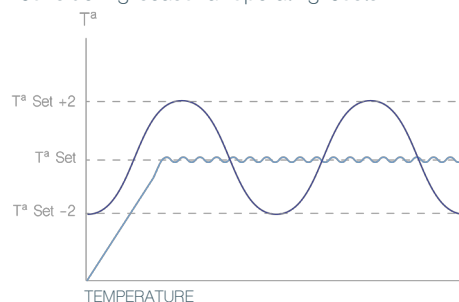


EVAPORATOR UNIT DIMENSIONS Vertical NEW YORK

NYC - E MODEL		NYC020 - E	NYC025 - E	NYC035 - E	NYC045 - E	NYC050 - E	NYC065 - E
Width (W)	mm	1480	1480	1780	1780	2700	2700
Depth (D)	mm	880	880	944	944	970	970
Height (H)	mm	755	755	835	835	850	850



The Inverter compressor makes it possible to precisely adjust the capacity of the equipment to the thermal demand of the installation, consuming only the electrical power needed at any time. Inverter equipment is the most cost effective option when considering seasonal operating costs.

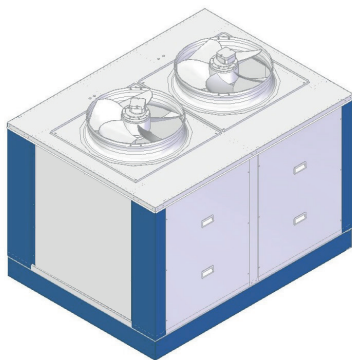


on/off compressor

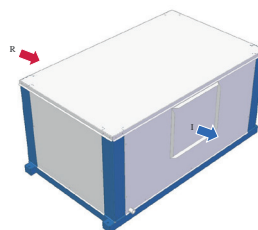
Inverter compressor ✓

OUTDOOR UNIT CONFIGURATIONS Condensing unit

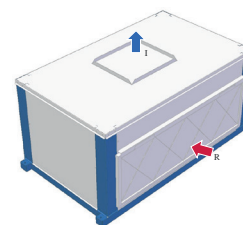
A



INDOOR NYC MATCHING CONFIGURATIONS Evaporator unit



1



2

← I - Supply air
→ R - Return air



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