

MODULA

COMPACT MODULAR VEHICLE AIR-CONDITIONING SYSTEMS



MODULA AIR CONDITIONING SYSTEMS

MADE IN ITALY

A modular air conditioning system designed to offer flexibility in system or system components installation into a variety of different vehicles and vehicle applications where a standard engine-driven air conditioning compressor is not available or desirable.

The MODULA offers flexible power options: 12V, 24V or 80VDC electric power or hydraulic (over 12 or 24VDC).

The modular design of the system offers a variety of system or system components installation combinations:

- RT** – Complete rooftop unit
- MK** – Motor/compressor/condensing unit
- MC** – Motor compressor unit

The Modula can be installed in various types of specialty vehicles:
Electric/Hybrid/Farming/Off-Road/Forklifts/Cranes etc.



MODULA RT



COMPLETE UNIT – Roof Top Installation

The **MODULA RT** is a complete vehicle rooftop air conditioning system which **only requires installation and electrical or hydraulic electric connection**. It is suitable for cooling medium and smaller vehicle cabs. The unit contains all standard air conditioning components (compressor, condenser, filter, drier, expansion valve, evaporator) and an electric or hydraulic motor to power the system. It offers flexible power options – Electric 12/24VDC/80VDC (over 24VDC) or Hydraulic (over 12 or 24VDC). The system controls can be located on the diffuser or in a remote location. Standard supply does include ceiling air diffuser, power wires for the unit and fuse.

MODULA RT is supplied pre-charged with R-134a and has CE certification and E24 approval.

TECHNICAL FEATURES

Cooling Capacity: 10,240 BTU's (3KW)

Airflow: 324 CFM (550 m³/h)

Electric Version:

80A @ 12VDC / 40A @ 24VDC

10A @ 80VDC – 8A @ 24VDC

Hydraulic Version:

18A @ 12VDC / 11A @ 24VDC

Weight: 88lbs (40kg)

Coolant Charge: 1lb 0.9oz (480 gr)



MODULA MK



MOTOR CONDENSING UNIT – Roof Top or Optional Remote Installation

The **MODULA MK** is a roof top or horizontal surface mount motor-compressor condenser unit. It is suitable for cooling medium and small vehicle cabs. The unit contains all standard air conditioning components: compressor, condenser, filter, drier, expansion valve, and an electric or hydraulic motor to power the system. It offers flexible power options: Electric – 12/24VDC/80VDC (over 24VDC) or Hydraulic (over 12 or 24VDC). The **MK** requires the addition of a variety of remote mounted evaporators with a maximum cooling capacity of 4KW. Standard supply does include power wires for the unit, relay and fuse.

TECHNICAL FEATURES

Maximum Cooling Capacity: 13,650 BTU's (4KW)

Electric Version:

70A @ 12VDC / 35A @ 24VDC
10A @ 80VDC - 4.5A @ 24VDC

Hydraulic Version:

14A @ 12VDC / 7A @ 24VDC

Weight: 66lbs (30kg)

Coolant: R134A

Max Coolant Charge: 1lb 1.6oz (500 gr max)

Max Coolant Hose Length: 16ft (5m)



MODULA MC



MOTOR COMPRESSOR UNIT – Remote Location Installation

The **MODULA MC** is a horizontal surface mount motor compressor unit. It is suitable for cooling medium and small vehicle cabs. The unit contains an electric or hydraulic motor to power the compressor system. It offers flexible power options: Electric – 12/24VDC/80VDC (over 24VDC) or Hydraulic (over 12 or 24VDC). The **MC** requires the addition of a variety of remote mounted evaporators and condensers with maximum cooling capacities of 4KW. Standard supply does include wiring for power to the unit.

TECHNICAL FEATURES

Maximum Cooling Capacity: 13,650 BTU's (4KW)

Electric Version:

60A @ 12VDC / 30A @ 24VDC

Hydraulic Version:

4A @ 12VDC / 2A @ 24VDC

Weight: 44lbs (20kg)

Coolant: R134A

Max Coolant Charge: 1lb 1.6oz (500 gr max)

Max Coolant Hose Length: 16ft (5m)

MODULA ADVANTAGES

- Compact System and System Components
- Extremely flexible installation options
- Electric or Hydraulic driven compressors
- Engine driven compressor NOT required
- Easy and fast installation
- Low maintenance

CHOOSE YOUR SYSTEM

MODEL	ENGINE	A/C TYPE	POWER CONSUMPTION	VOLTAGE	WEIGHT	COOLANT	COOLING CAPACITY	CONTROLS	AIR FLOW
Modula RT Electric 12V	Electric	Complete Rooftop A/C	80A	12V	88lbs	R134a	10,240 BTU/hr (3kW)	Manual	3 2 4 C F M (5 5 0 m ³ /h)
Modula RT Electric 24V	Electric	Complete Rooftop A/C	40A	24V	88lbs	R134a	10,240 BTU/hr (3kW)	Manual	3 2 4 C F M (5 5 0 m ³ /h)
Modula RT Electric 80V-24V	Electric	Complete Rooftop A/C	10A @ 80VDC 8A @ 24VDC	80V – 24V	88lbs	R134a	10,240 BTU/hr (3kW)	Manual	3 2 4 C F M (5 5 0 m ³ /h)
Modula RT Hydraulic 12V	Hydraulic	Complete Rooftop A/C	18A	12V	88lbs	R134a	10,240 BTU/hr (3kW)	Manual	3 2 4 C F M (5 5 0 m ³ /h)
Modula RT Hydraulic 24V	Hydraulic	Complete Rooftop A/C	11A	24V	88lbs	R134a	10,240 BTU/hr (3kW)	Manual	3 2 4 C F M (5 5 0 m ³ /h)
Modula MK Electric 12V	Electric	Motor-Condensing Unit	70A	12V	66lbs	R134a	Matching Evaporator Max 13,650BTU/hr (4kW)		
Modula MK Electric 24V	Electric	Motor-Condensing Unit	35A	24V	66lbs	R134a	Matching Evaporator Max 13,650BTU/hr (4kW)		
Modula MK Electric 80V-24V	Electric	Motor-Condensing Unit	10A @ 80VDC 4.5A @ 24VDC	80V-24V	66lbs	R134a	Matching Evaporator Max 13,650BTU/hr (4kW)		
Modula MK Hydraulic 12V	Hydraulic	Motor-Condensing Unit	14A	12V	66lbs	R134a	Matching Evaporator Max 13,650BTU/hr (4kW)		
Modula MK Hydraulic 24V	Hydraulic	Motor-Condensing Unit	7A	24V	66lbs	R134a	Matching Evaporator Max 13,650BTU/hr (4kW)		
Modula MC Electric 12V	Electric	Motor-Compressor Unit	60A	12V	44lbs	R134a	Matching Evaporator/Condenser Max 13,650BTU/hr (4kW)		
Modula MC Electric 24V	Electric	Motor-Compressor Unit	30A	24V	44lbs	R134a	Matching Evaporator/Condenser Max 13,650BTU/hr (4kW)		
Modula MC Hydraulic 12V	Hydraulic	Motor-Compressor Unit	4A	12V	42lbs	R134a	Matching Evaporator/Condenser Max 30,710BTU/hr (9kW)		
Modula MC Hydraulic 24V	Hydraulic	Motor-Compressor Unit	2A	24V	42lbs	R134a	Matching Evaporator/Condenser Max 30,710BTU/hr (9kW)		



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