

AR-053 AIR CONDITIONER - ROOFTOP

Zones 2

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AIR CONDITIONERS

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ZONES 2 (gas)

AR-053 rooftop air conditioners are designed to safely provide a comfortable indoor climate in areas where an explosive atmosphere may be present due to the release of gas. These rooftop air conditioners feature a compact design and require minimal installation space. The control knobs for ventilation and cooling, as well as the air thermostat, are integrated into the low-profile ceiling panel.

Installation of this compact rooftop air conditioner does not require any connections to the refrigeration circuit; therefore, no specialized refrigeration technician is needed. The circuits supplying the control knobs and thermostat are intrinsically safe, and the connection between the rooftop unit and the ceiling panel is made via plug-in connectors. As a result, installation is fast, simple, and efficient. When access to the control knobs in the ceiling panel is impractical, the AR-053 rooftop unit can be equipped with a wired remote control.



Declaration of Conformity

All units are supplied with an additional protective coating on the sheet steel components, copper tubing, and aluminum condenser and evaporator fins, ensuring extended service life even under harsh operating conditions.



ITEM REFERENCES

Designation:	Cooling capacity:	Power supply:	Running Watts:	Air flow:	Start-up current:	Fuse rating:	Weight:	Item No.:
AR-053/250	4,3 kW (15.000 BTU/h)	115 / 120 VAC 60 Hz, 1 phase	1,9 kW	520 m ³ /h	Up to 59 A / 0,15 s	20 A (slow)	42 Kg	
AR-053/260	3,95 kW (13.500 BTU/h)	230 / 240 VAC 50 Hz, 1 phase	1,5 kW	470 m ³ /h	Up to 24 A / 0,15 s	10 A (slow)	44 Kg	

TECHNICAL SPECIFICATIONS

Marking:	II 3G Ex ec h ic mc IIB+H2 T3 Gc
Certificate:	Declaration of Conformity
Standards applied:	EN 14986:2017, EN 60079-0:2018, EN 60079-7:2015 / A1:2018, EN 60079-11:2012, EN 60079-18:2015 / A1:2017, EN 80079-36:2016 and EN 80079-37:2016
Ambient temperature:	-20°C to +60°C
Operating temperature:	+7°C to +52°C
Resistance:	Shock and vibration resistant design
Ingress protection:	IP54 for all parts, including fan motor
Coating:	All sheet metal parts, copper tubing and aluminum condenser and evaporator fins are provided with an additional coating to increase service life under harsh conditions.
Dimensions:	Rooftop unit: 97 x 67 x 30 cm, ceiling plate: 56 x 54 x 5 cm Roof opening: 36 x 36 cm, roof thickness: 15 cm max.
Power connection:	Factory mounted H07RN-F cable, 3 x 2,5 mm ² , length 10 meter
Controls connection:	The circuits to the control knobs are intrinsically-safe and are connected to the units control box by means of connectors.
Refrigerant:	R410A
Fan speed:	2

OPTIONAL WIRED REMOTE CONTROL

Designation:	Settings:	Dimensions:	Connection:
AR-053/900 (replaces the control knobs in the ceiling plate)	Off / fan low / fan high / cooling low / cooling high. Temp. control knob	240x120x100 mm	Factory mounted Ölflex EB CY 4 x 0,75 mm ² cable, length 5m, provided with connector