

# ANTGRAN®

## Magnetic Cover Anti-Hail Systems

**AntGran®** is an innovative hail protection system for areas of any size and in any environment. The **custom-made** system consists of one or more devices positioned in a predefined location, which generate an **invisible magnetic cover**.

### How the System Works

**AntGran®** generates a **dimensional magnetic field at altitude** that counteracts the force field of the atmospheric event, nullifying the formation of hail. The system was studied and designed by researcher Alessandro Mendini.



### Technical, Structural and Functional Characteristics

**Structure:** The equipment consists of an AISI 304 or AISI 316 stainless steel structure, with a cubic central body with a pyramidal shape. It has four conveyors on four levels (N-S-E-W) and a closed-shape capture device with geometric reflectors in the upper part.

**Internal Components:** Inside is housed the **3- or 4-element 'tri-ionic flow Nucleus'**, which constitutes the primary functional unit. In addition, there is a 12 V-100Ah battery, a charge regulator, a voltmeter with display and a control button.

**Power supply and operation:** **AntGran®** generates its dimensional magnetic fields through the **tri-ionic flow Nucleus**. The battery and photovoltaic panels, installed on all four sides, support the operation of the system. The equipment does not need to be connected to the mains and is operational 24h/24h.

**Dimensioni:** 1035×1035×1830 mm

**Peso:**

- **AG-5000:** 275 kg
- **AG-10000:** 286 kg



## Installation and Positioning of the System

The **AntGran®** system is supplied ready for use and does not require complex installation processes. Its fixed, predefined location is established during the design phase. Furthermore, it does not require any management or maintenance processes during its operational life.

Hail protection is achieved by simply installing the equipment on site, which must be oriented, with the aid of a compass, so that the conveyor identified with the letter **N** is directed towards the North.

- It is advisable to prepare a base slab where the unit is to be located.
- The equipment must be kept in an upright position during operation, transport and storage.

## Areas of Application

The **AntGran®** Magnetic Cover Anti-Hail System is designed for:

1. **Agriculture:** Protection from hail for crops, livestock, greenhouses, solar and Photovoltaic panels, agricultural vehicles, and agrivoltaic systems.
2. **Private and public Infrastructure. Entrepreneurship. Buildings:** Protection from hail for vehicle fleets, airports, ports, beach resorts, amusement parks, photovoltaic parks, roofs, thermal insulation, glass windows, etc.
3. **Civil Protection:** It is the only technology capable of ensuring effective protection of civil society against hailstorms.

## Warranty and Certifications

**AXS M31 di Zambanini Silvana** guarantees its products for a period of 10 years from the date of receipt of the goods.

The validity of the warranty is subject to specific conditions described in the instruction manual, including:

- The equipment must operate within the area coverage limits stated in the contract.
- Maintenance must be carried out at the specified times and in the specified manner, using original spare parts.
- The warranty is limited to the replacement and/or repair of the defective part and does not include shipping or labour costs.

The equipment is **CE** marked in accordance with the Electromagnetic Compatibility Directive 2014/30/EU. It does not generate dangerous radiation nor can it be affected by such disturbances.

**AXS M31** di Zambanini Silvana  
**soluzioni avanzate per agricoltura - ambiente - salute**  
Loc. Deggia 28 - 38078 San Lorenzo Dorsino (TN) Italia  
Tel. +39 0465 734591 info@axsm31.com www.axsm31.com