

Hail Suppression System

TRAILING Ltd SERBIA



Product Name

Anti-Hail System

Model Number

PGT - A80

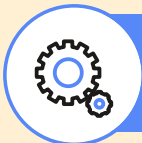


Product Summary



Purpose

Prevent hail formation and protect crops, vehicles, and infrastructure.



Operating Principle

Ionizing sound shock waves generated by acetylene-air combustion disrupt hail nuclei.



Applications

Orchards, vineyards, greenhouses, vegetable gardens, field crops, car lots, and urban infrastructure.



Eco-Friendly

Produces only CO₂ and water vapor; no harmful emissions.



Mobility

Delivered in a protective container, transportable by truck, trailer, or tractor.



Noise Control

Directed upward, ≈ 90 dB at 50 m, acceptable for rural and urban use.

Large Coverage





80

 hectares
Protected area
up to 1 km²

Key Advantages

- Remote monitoring & control ensures timely activation.
- Cost-effective hail protection.
- Rapid deployment (few hours installation).
- Durable & reliable under extreme weather conditions.
- Eco-friendly operation with no harmful emissions.

Hail Suppression System PGT - A80

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Technical Specifications

Generator Type

Shock Wave Generator

Shock Wave Repeat Range

4 - 7 seconds

Wall Thickness

≥ 8.8 mm, based in device type

Igniters

2+ units

Rated Nominal Voltage

24 V DC

Power Sypply

Solar Charger (≥ 450 W)

Solar Battery Capacity

≥ 200 Ah

Fuel Type

Acetylene (C2H2)

Fuel Capacity

18 - 108 kg (40/50 l bottles)

Run Time (100% Load)

48 Hours

Stand-by (No Charging)

14 Days

Activation

Remote Control + Direct Start

Outside Temperature Range

-5 - 70 °C

Noise Level

95,8 dB(A) at 10 meters

Control Panel

Digital Multi-Function Display

Remote Control

Radio Signal & GSM / 4G (LTE) / 5G

Overload Protection

Yes

Low Voltage Warning

Yes (Alarm Notification)

Low Gas Pressure Shutdown

Yes (Automatic)

Emergency Stop

Yes (Automatic)

Online Parameters Reporting

Automatic / User Request

Performance & Efficiency

Android & iOS
Mobile Application

Weather Storm
Notifications

User Friendly
Interface

20 min Early Warning

10 Min Full Efficiency
Achieve

100 % Reliable

→ Online Monitoring & Alerts

- Gas & Battery Status
- System Diagnostics
- Pressure, Voltage, Temperature & Sound Level Sensors
- Supply & Charging Voltage Monitoring
- Connection Quality Alert
- Adjust Parameters Online