



ARIYA SANAT ASRAR



WE PROVIDE

ANTI HAIL SYSTEM

TO GROW YOUR BUSINESS

The anti-hail system is designed and built in two ways, semi-smart and full-smart

What is an Anti-hail system?



An anti-hail system is a shock wave generator that disrupts the formation of hail beads in the atmosphere.

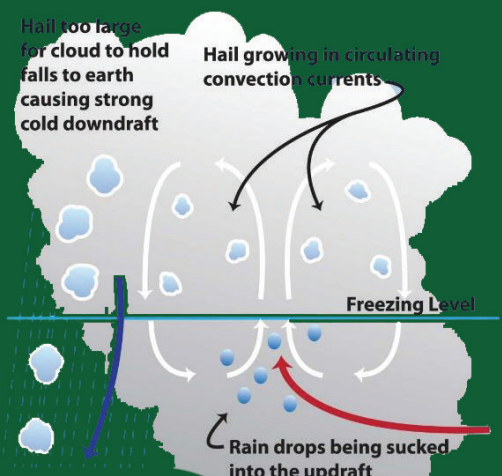
The anti-hail system is used to prevent or reduce severe damages to the crops. This system can be attributed to an Italian mineralogist, who came up in 1880 with the idea of preventing the formation of hailstorms by injecting smoke particles into thunderstorms by using a hailstorm. In the early 1990s, shock waves were produced by gunpowder, which was both dangerous and time consuming.

At that time, many hail machines had to be installed in order to prevent the formation of hail grains.

These days, anti-hail systems generate shock waves that disrupt hail storms. These waves are generated by acetylene or butane gases, causing the shock waves to be stronger and with higher frequency, which is significantly effective in preventing the formation and growth of hail beads.



Hail Formation



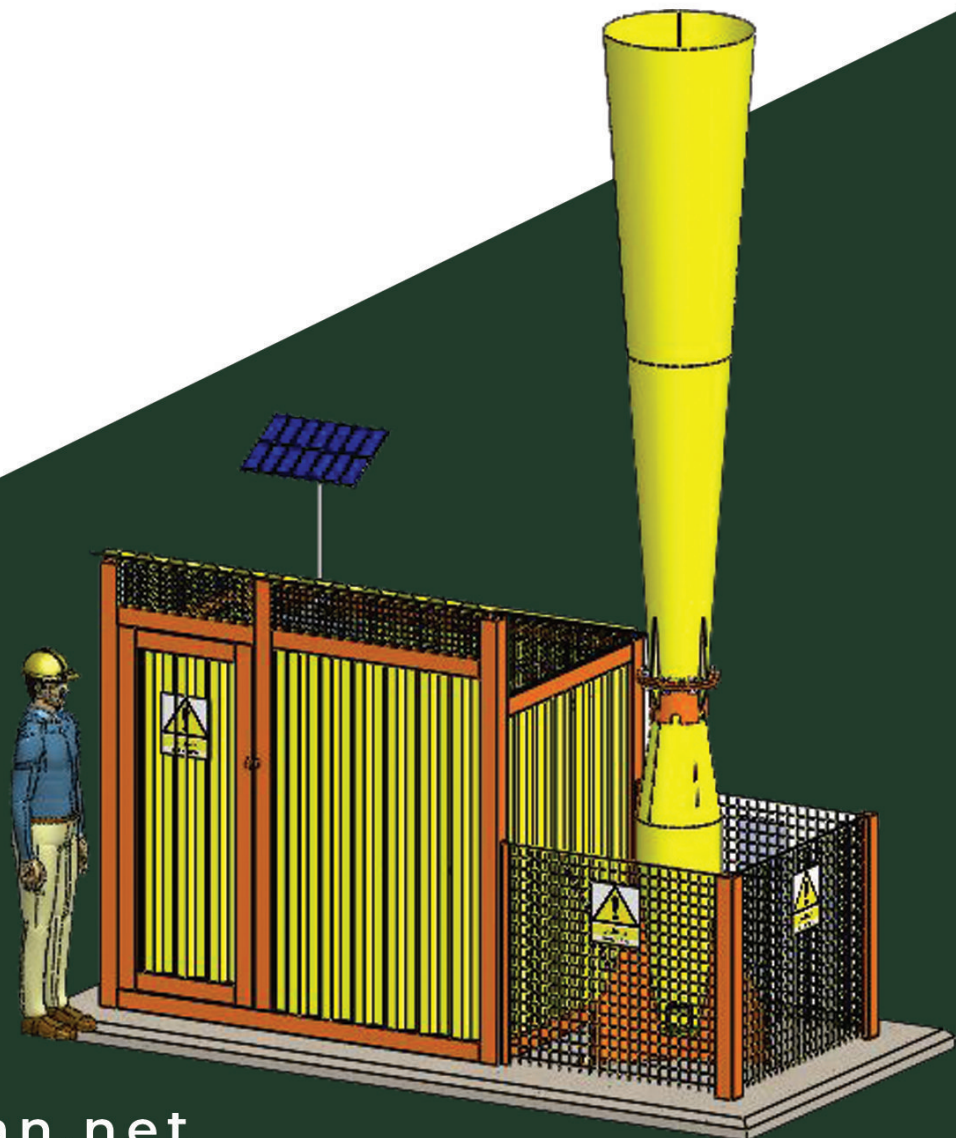
ANTI HAIL SYSTEM



An anti-hail system is a generator of shock waves that disrupts the formation of hail grains in the atmosphere.

How the system works?

A mixture of acetylene and ambient air explodes in the explosion tank of an anti-hail device. The resulting explosion passes through the duct and enters the conical chamber, creating a shock wave. The shock wave then travels at the speed of sound through a cloud formation. This is a riot that anti-hail manufacturers claim that disrupts hail phase growth. During the time when storm is approaching and passes through the area, the anti-hail system fires repeatedly every 4 seconds and turns hailstones into watery snow or rain.





Features of anti-hail system

- Many new hail systems are portable.
- Installation of anti-hail systems does not require basic work.
- To prevent potential hazards due to the portability of the hail system, the system is equipped with GPS which is activated by specifying the coordination of the installation location. In case of sudden and unauthorized change in location, the system gets deactivated and reports the operator.
- Anti-hail systems have a central control system.
- Anti-hail systems can change the data within the GPRS range.
- For convenience of the anti-hail systems operators, the system has an Android application which can be installed on Android devices.
- For fast data processing and data transfer, the electronic control unit of anti-hail system is equipped with a dual-core processor.
- The anti-hail system is equipped with a fuel injection system, which optimizes the fuel consumption. Anti-hail system has a twofold high voltage system.
- To make the system smarter, the anti-hail system is equipped with various sensors.



The anti hail system has a one-year warranty for electrical and mechanical parts

How the system works

Command in place

Remote control



In this method, the authorized user can activate the system by sending a 4-digit code to the number that is only available to him along with the code, and activate the system without the need to be present at the location and view the result of each shot on his phone screen. Fully intelligent command (optional) In this method, users can purchase a radar (satellite) meteorological account, in order to have a smart and automatic system without requiring any human intervention. This system starts operating by receiving information about the requested condition, and sends the performance report to the owner at the end.

An anti-hail system is not effective against pre-formed hailstones; Therefore, the most important requirement in using an anti-hail system is the time of use and start-up. The anti-hail system must be started 20 minutes before the onset of the storm or hailstorm.

System components



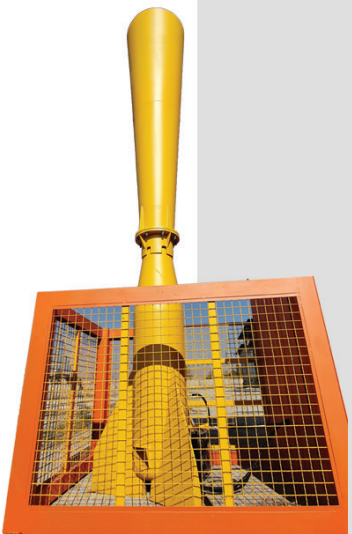
Control unit

- Controller
- Screen-Command menu
- Remote control system
- Gas detection sensor
- alarm system



Installation unit

- Acetylene gas capsule
- Gas manifold
- pressure control and converter unit
- Electric steering valve
- Rectifier
- Transmission duct
- Power supply
- Voltage boost transformer



Wave firing unit

The funnel explosion tank guides the wave of air inlets. Ignition gas inlet. Ion conduction channels

ABOUT US

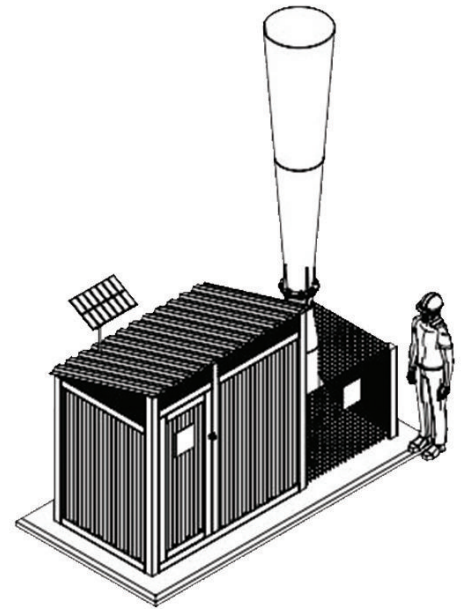
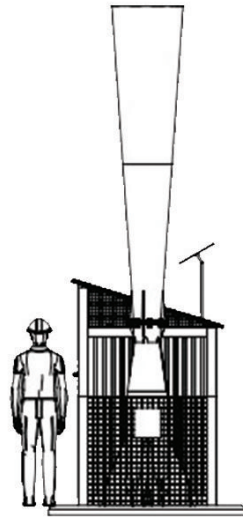
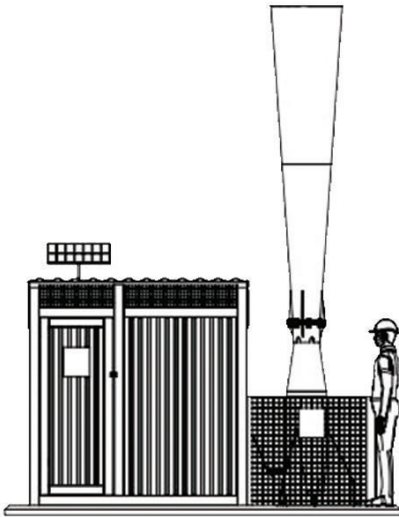
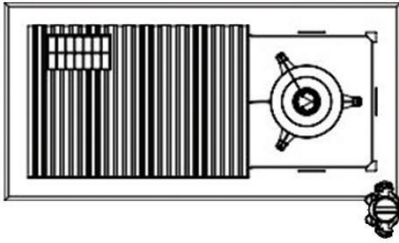


The main objective of the company is to complete the mechanization chain of fodder corn, including cultivation, harvesting, and packaging corn silage, with the ability to move and store for three years. At the moment The operation of cultivating, holding, and harvesting fodder corn in the country is fully mechanized, but unfortunately, the transfer operation, silo construction, and exploitation in livestock farms are done in the traditional way. Another mission of this company is to design and manufacture products in order to protect health Agricultural products, which are exposed to different climatic conditions. Products and services such as Hail systems, frost control systems, mechanized irrigation, etc.



The multiplicity of ASA systems and projects shows the high capabilities and customer satisfaction. Climatic diversity and dispersion of the ASA systems show the high capabilities of the systems and compatibility with any working environments.

ANTI HAIL SYSTEM

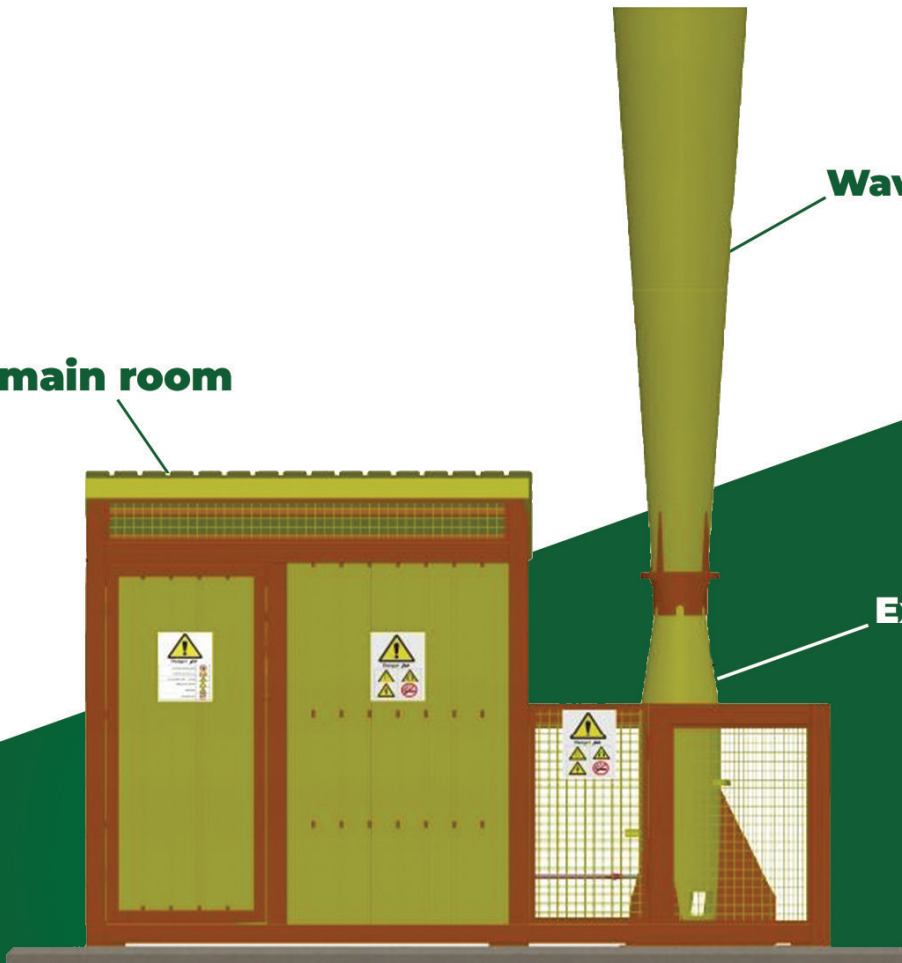


The main room

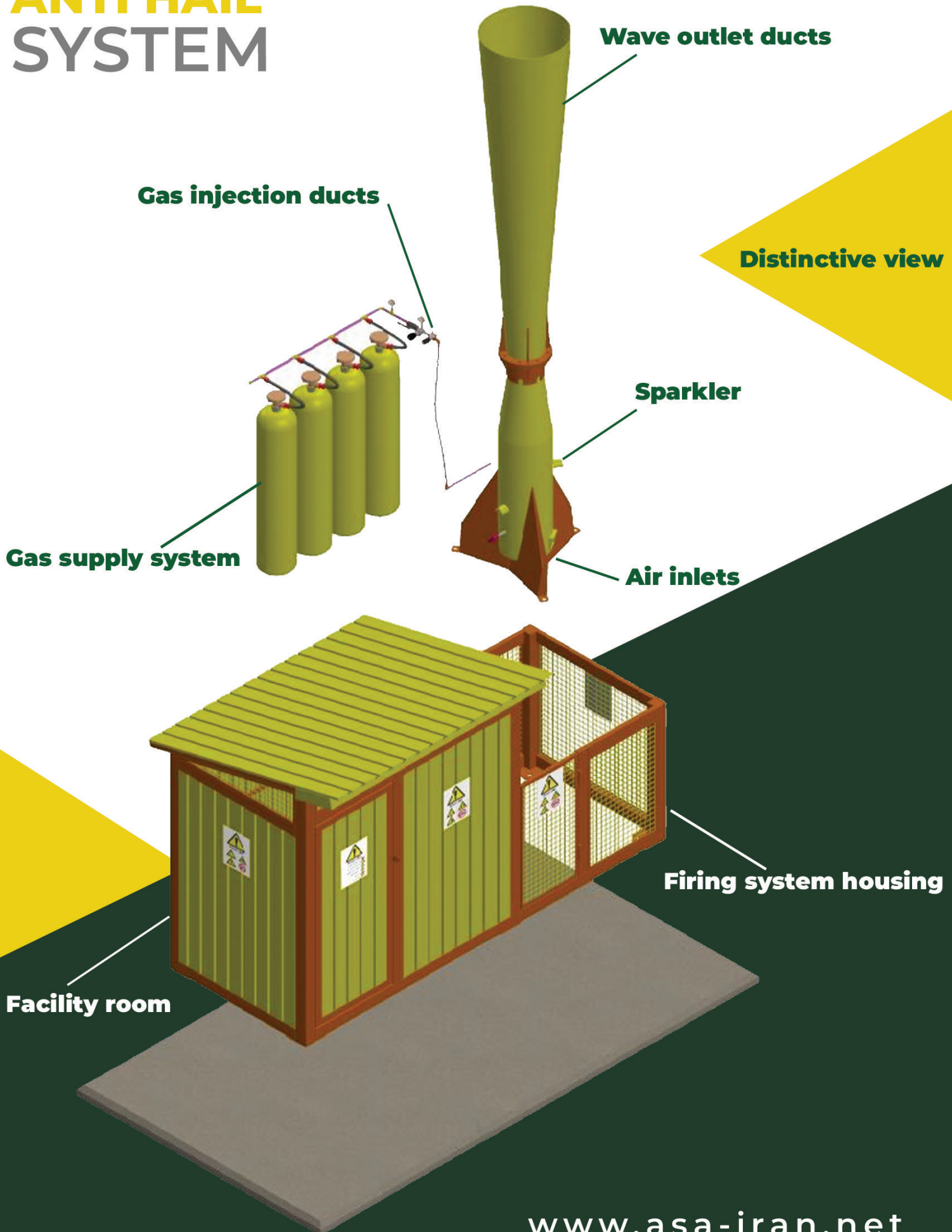
Wave outlets

Technical drawings

Explosion tank



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By creating sound and thermal vibrations, the anti-hail system breaks down the core cells of hail molecule inside the cloud, and turns the hail into the rain.



📍 No. 8, No. 15, First 15m, Tree Street,
Shahriar-Karaj Road, Tehran, Iran

☎ 00989197137758

💻 www.asa-iran.net

📠 00982142695780

✉ shokri.marzieh@yahoo.com

