

## !! The World Simplest & The Most Cost-Effective Electric heater !!

Our brand-new electric heater called "AGRI HEATER" provides the quality greenhouse crop heating system with the simplest structure adopted. It ensures the most cost-effective and the simplest heating solution for greenhouse farming and various other heat-requiring environment.



"AGRI HEATER"

### ! No Complex installation Need !

### ! Pinpoint heating and Non-wasteful heat use possible !

■ "Agri Heater" requires no complex installation process due to its very simple structure designing. The mechanical problems and malfunctioning are rarely found and very easily handled even when in case of arise (not like the conventional fossil fuel combusting air heating system with huge &

■ By achieving the pinpoint-heating directly to the plant roots from inside the farm soil and supplying uniform temperature along its entire body, it gives the most desirable growing environment for your greenhouse farm crops.

■ Several problems such as "Crop damaging caused by direct wind blowing" and "In-door air pollution" when using the conventional fossil fuel combusting air heater are completely preventable by replacing it with our "AGRI HEATER" greenhouse heating system !!

■ Pinpoint heating requires much less amount of electricity in comparison with the large amount of energy needed by conventional air heating system. It achieves the significant saving of energy cost in a long run.



## Soil Disinfection

"AGRI HEATER" can exterminate the unwanted matters in the farm soil such as the disease-causing bacteria, crop-damaging pests, and the annoying weeds during its use at high temperature and the use of harmful chemicals such as pesticide, herbicide, fungicide that must be sprayed around or directly to your growing crops can be avoided or significantly reduced. It promotes the healthy crop growing by achieving the chemical-free organic farming and contributes the environmental protection by releasing no air pollution and preventing the soil & groundwater contamination caused by the harmful chemical residues after the use of chemical pesticide.

## Soil Heating

The greenhouse crop farming in the cold region becomes always possible in all season throughout the year by maintaining the soil temperature at 20 degree celsius by using our Agri Heater. In order to produce the better quality crop, it is very important to recover the soil's fertility by activating the possitive bacteria contained in it.

### Case Study to compare the growth of seedlings between conventional heating system & "Agri Heater" installed seedlings.

Date of Installation: December 16th, 2006  
Location: Shanghai city  
Kind of seedling: flower plants



35 days after the installation of "AGRI HEATER"



"AGRI HEATER" installed seedlings  
A  
B  
Conventional heating system

!! New Technology !!

## " Sheet type - Plate type Heating Element

!! Adopted !!

### " What is "Sheet type - Plate type Heating Element adopted in Agri-Heater ??"

Our latest invention "Sheet type - Plate type Heating Element(SPHE)" is the brand-new & state-of-the-art technology totally different from the conventional widely used carbon type heating element. Our heating element passes through the special material processing to be coated by the very thin resin sheet with its thickness at 0.5 mm only and the pulverized silver is sprayed around its electrode section to achieve the best stability.

While the conventional heating elements could only provide the inadequate heat temperature of about 50 degrees celsius which in most cases is inadequate(useless) for many higher heat requiring environment, our heating element when without the coating resin material can generate the heat temperature of about 1,000 degrees celsius at maximum (the maximum temperature for resin-sheet coated heating element is limited at around 120 degree celsius only) and the temperature could be controlled at any level as intended within the permissive range.

"Agri-Heater" is also capable of very efficient use of electricity once its pre-setting temperature is confirmed and the additional electricity supply after reaching the setting temperature needs only at the time of heat loss which happens non-frequently and randomly while in its operation. Because of this, the heat-controlling device such as "thermostat" is no longer needed depending on the growing conditions.

"Sheet type - Plate type Heating Element" achieves the highest thermal efficiency by supplying the uniform temperature along its long entire body and provides the environmental-friendly & energy-saving heating solution.



"Sheet type - Plate type Heating Element"