

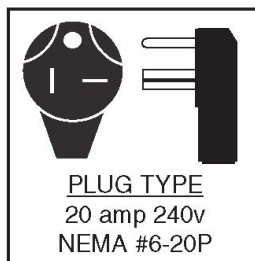


## GREENHOUSE HEATER PHOENIX 2.8 kW

The newly designed Phoenix is a high-end “2 in 1” heater that’s perfect for both the cultivation of young plants, and for protecting them during the winter months. With three output levels (1.0 kW, 1.8 kW or 2.8 kW), the Phoenix provides great output, and delivers easy temperature control between 32 and 79°F courtesy of a precision thermostat.

Manufactured from high quality rust-proof steel, to the absolute highest standards, the Phoenix includes a quiet and powerful built in fan for air and heat circulation that can be operated either on its own, or in conjunction with the heater.

Flexible, dependable and easy to use, either on the floor, or fixed to the ceiling of the greenhouse, it’s a fantastic heater that will provide years of faithful service and plant protection to any keen gardener.



PHOENIX 2.8 kW	
Maximum heat output	2800 W (three levels)
Fan power	53 W
Power connection	110VAC ±10%, 50/60Hz
Plug	3pin - earthed
Maximum power input	13 A
Achieved temperature	32-79 °F
Air circulation	420 m³/h
Dimensions	16 x 8.7 x 13"
Order-No.	PHX 2.8/US
EAN-/Barcode	505532000006



The technology that we have developed ensures that the temperature is maintained reliably at a reasonable level with no energy-wasting temperature peaks in the greenhouse. The energy savings that are made are not due to half-hearted heating but to sensible use of the available energy.

### Heating a greenhouse – the problem

To keep a greenhouse frost-free, the temperature must remain above 32°F even in the corners. If the current of air does not reach there, then the temperature on the heater has to be really high, however, then a large proportion of the warmth goes up into the gable of the greenhouse, where it is not needed, while the corners may still dip down to

minus temperatures. (see diagram)  
 This is an unsatisfactory state of affairs, because heating energy is being wasted. In addition, there may be a significant temperature difference between when the heater switches on and off, especially with cheaper thermostats. This means if the thermostat has a switching differential of, for example, 43°F, then the greenhouse has to be heated up to 47°F if it is not to fall below the frost-free limit of 36°F before the heating switches on again automatically (see diagram).

Bio Green heaters avoid this unnecessary heating up by keeping the switching differential to a minimum, as can be seen from Diagram. This results in significant energy savings. This is why we as greenhouse specialists have developed a range of heaters which offer important advantages: High ventilation rate up to 460 m<sup>3</sup>/h The fan setting. By using the fan setting, all the air in the greenhouse can be circulated even in the summer season. With the window open and the fan on, the greenhouse can be cooled down. Air circulation in the summer is also necessary for the pollination of many flowers.

## PHEONIX 2.8 – The gardeners choice



**BioGreen greenhouse heating**  
 Lower input temperature and high ventilation ensures even heat distribution.

Control curve for a high-quality thermostat with a small temperature differential.

**Traditional system**  
 High input temperature, little circulation, the heat rises and cold corners remain.

Control curve for a cheap thermostat with a large temperature differential.