Ablemail Electronics

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PRODUCT TYPE : HEATER PRODUCT RANGE

CONTENTS LIST:

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PART NUMBER : AHC12-600W BLUETOOTH ELECTRIC AIR HEATER KIT

DESCRIPTION :

The 600W Ablemail Vehicle Heater utilises 3 PTC (Positive Temperature Coefficient) heaters and a fan to rapidly heat the vehicle ambient air.

The Ablemail controller maintains the ambient vehicle air temperature at a level determined by the temperature sensor while ensuring the supply battery is never over discharged. The AHC12-600W Air heater is controlled by a fascia mounted potentiometer with an led indicator, a bluetooth IOS / Android App and 3 control inputs on the rear panel. The bluetooth app allows control of the temperature from the comfort of your chair, configuration of the 7 day timer and configuring of the many software functions built into the heater.

The AHC12-600W has 3 heater elements and the controller uses all 3 to get the passenger/working area to temperature as quickly as possible. The unit then maintains the target temperature using single element heating as much as possible. The unit maximises usable battery capacity by stepping the current loads and reducing the fan current as much as possible. There is a night mode / maintaining mode which allows running current to be matched to the mains charger capacity and reduces the fan noise during heating.

The 3 external control inputs of the AHC12-600W can be configured to heat automatically when driving (ignition controlled) or when connected to a mains supply(External switch input) or in Night mode to ensure the maximum battery capacity is available for off grid heating. The external switch can also be used for vehicle Scheduled Pre-Conditioning to remotely optimise the cabin and battery temperature while still on Shore charge to maximise vehicle range. These switched inputs also provide an easy way for other vehicle electrical systems to control heating.

Installation is incredibly quick and easy as there is no fuel tank, exhaust system and associated piping to install. The Electric Air Heater is provided with a set of vents, hot air ducts and electrical terminations to make installation as easy and stress free as possible.

The EV Heater uses considerable energy and we would recommend a minimum of 100Ahr usable auxiliary battery capacity to ensure adequate heating.

EV heating has many advantages when compared to diesel heating; there is no flammable diesel or refuelling to worry about. There is also no need to worry about carbon monoxide, carbon dioxide or diesel fumes and the electric heater does not have any issue when the vehicle is moving. This makes the Ablemail Air Heater ECO Friendly.

The PTC heating elements inherently limit to their design temperature and so require no overheat protection but for additional safety, the PTC heaters are all mounted within a non-conductive & temperature resistant isolated housing within the heater chassis In the event of an ‘overheat’ situation, there are 2 additional designed safety systems built into the EV Heater.

1. The control system will shut the heater down when the input temperature reaches 52°C & will not switch back on until the internal temperature is below 30°C. The fan will keep running to cool the heater as quickly as possible once the heater elements are switched off.

2. In the very unlikely event of a total fan failure, or control system failure we have included a single use non-resettable thermal fuse. If the internal core temperature of the heater element exceeds 110°C the fuse will break shutting off the power to all the PTC heating elements .

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