PREHEAT ENGINEERING LIMITED

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ENGINE NOT WARM ENOUGH

There are a number of reasons why an engine may not be as warm as required, the most common ones being set out below:-

1). One or more of the elements within the heater are not working

2). The thermostat setting is too low. All Peregrine coolant heater thermostats are set at 50°C unless otherwise requested.

3). The heater has been connected to the engine using unsuitable connecting points, e.g.

a) The heated coolant entering the cooling system, rather than dissipating throughout the engine, circulates back to the heater too soon – connecting points too 'close'- maybe within the same closed gallery or pipe system.
b) The heated water enters the cooling system too close to the radiator/exchanger, and the heat is thereby partially lost.
c). The cold supply for the heater has been taken from a point higher than the return (hot). The warm water will initially circulate but once the top of the engine achieves the same temperature as the outlet from the heater the flow will stop and the thermostat will cycle, leaving the heater warm and the engine cold.

4). The heater wattage is too low. Some customers wish to just keep the chill off an engine, purchase low wattage heaters and request 0-40°C range thermostats set at 20°C or even as low as 05°C. Other customers wish to maintain an almost operational engine temperature and purchase high wattage heaters set at 85°C to achieve this. If not specified by you we will always supply the wattage of heater which is usually requested by previous customers for the engine in question and set the thermostat at 50°C.

As with all heaters, the engine temperature will be controlled by a) the heater wattage b) the thermostat and c) the heat loss from the engine. The larger the difference between the ambient temperature and the engine temperature the greater the heat loss.

As always if there is anything we can do to help, just contact us on the usual numbers.