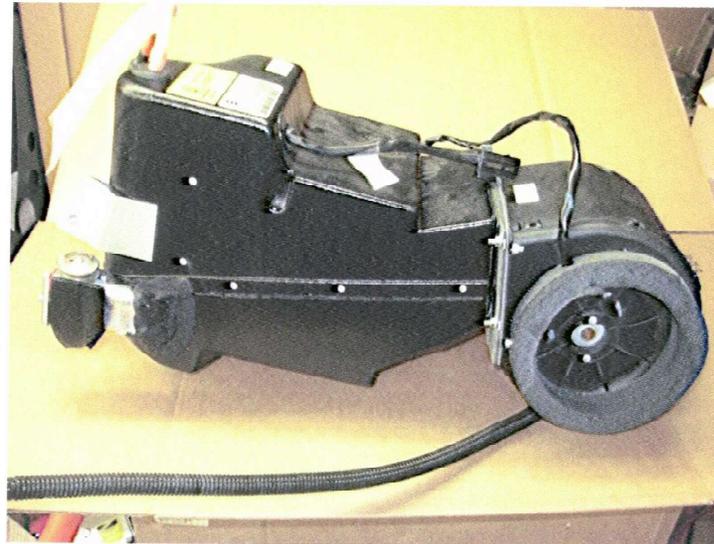


HVAC Components



HVAC – HVAC Assembly

- The HVAC assembly is located under the hood and houses both the evaporator and the PTC heater. A drain is fitted to the bottom of the assembly to remove any condensation.
- The assembly contains a flap, which diverts air flow either to bypass or to pass through the PTC heater. The flap actuator is mounted on the front of the assembly.
- The thermostatic switch (Froststat) is located on the RH side of the assembly, with a probe that extends into the housing and through to the evaporator. A single electrical connector connects the inlet and outlet temperature sensors to the front harness.



HVAC Assembly

HVAC Components



Positive Temperature Coefficient (PTC) Heater

- Cabin Heating is provided by the PTC heater. The heating elements are powered by a PWM signal from the 400V controller in response to signals from the HVAC 12 V controller.
- The heater requires no other control as it self regulates according to resistance. If the system determines that heating is excessive, PWM is reduced to maintain heating within acceptable limits.
- This type of heater will reduce heat output automatically from a maximum of around 2.5kW to around 200W if the air temperature is too high or if the airflow is too low.



PTC Heater