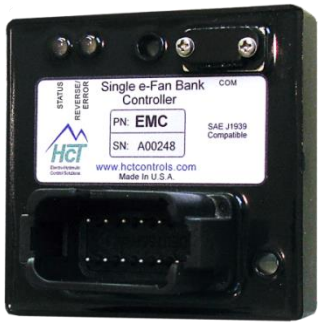
Application 1 - Cooling a single compartment heat exchanger

Use a single thermistor in order to prioritize the cooling demands of a single compartment heat exchanger.



Fan Bank Control

ON-DEMAND

- Configure inputs
- Set maximum and minimum temperature limits
- Setup e-Fan operational profile

1X Fan Diagnostic

PWM % Output

Provides PWM output based upon the % fan speed demand

T1

Heat Exchanger

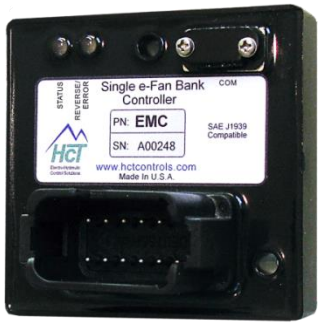
Single compartment heat exchanger with one thermistor.

\+ Controller
\- Supply Power
(*9-32VDC, 200mA Max*)

\+ Fan
\- Supply Power

Application 2 - Cooling a two compartment heat exchanger

Receive J1939 CAN values with two additional thermistor inputs in order to prioritize the cooling demands of a two compartment heat exchanger.

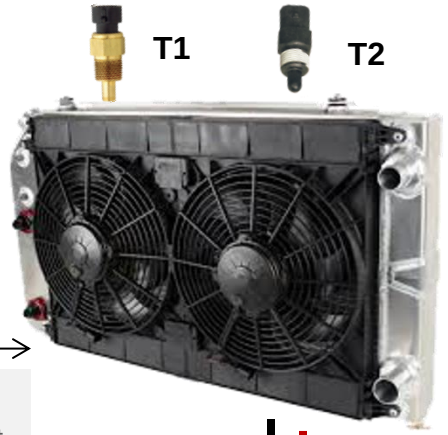


Fan Bank Control

ON-DEMAND

- Configure inputs
- Select J1939 messages
- Set maximum and minimum temperature limits
- Setup e-Fan operational profile

2X Fan Diagnostics



Heat Exchanger

Two compartment heat exchanger with a thermistor for each compartment.

PWM % Output

Provides PWM output based upon the % fan speed demand

+ Controller
- Supply Power
(*9-32VDC, 200mA Max*)

+ Fan
- Supply Power

Switch Inputs

Ignition
Reverse

SAE J1939

Receive

- Engine RPM (EEC1)
- T1 temperature
- T2 Temperature

Transmit

- Fan bank % fan speed
- Calculated fan RPM
- T1 & T2 temperatures
- T1 & T2 % duty cycle demand

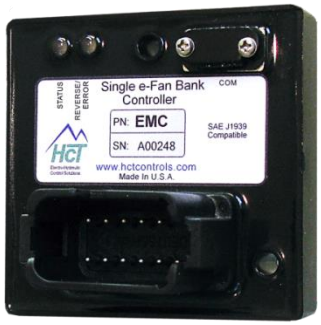
Application 3 - Cooling a three compartment heat exchanger

Receive J1939 CAN values in order to prioritize the cooling demands of a three compartment heat exchanger. For completely isolated fan control, use the EMC-6 multi-fan bank controller.

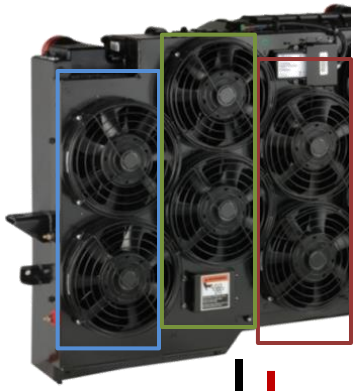
Fan Bank Control

ON-DEMAND

- Configure inputs
- Select J1939 messages
- Set maximum and minimum temperature limits
- Setup e-Fan operational profile



6X Fan Diagnostics



Heat Exchanger

- Engine Coolant
- Transmission Oil
- Charge Air

+ Controller
- Supply Power
(*9-32VDC, 200mA Max*)

PWM % Output

Provides PWM output based upon the % fan speed demand

+ Fan
- Supply Power

SAE J1939

Receive

- Engine RPM (EEC1)
- CM1-Engine % Fan Request (E000)
- Engine Coolant temperature (FEEE)
- Transmission Oil temperature (FEF8)
- Charge Air temperature (FEF6)

Transmit

- Fan bank % fan speed
- Calculated fan RPM
- J1939 received values
- J1939 received values % duty cycle demand

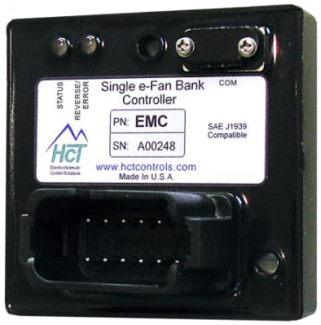
Application 4 - Cooling a single compartment heat exchanger with Set-Point

Tune air handling packages with the PID Set-Point feature for precision cooling capabilities.

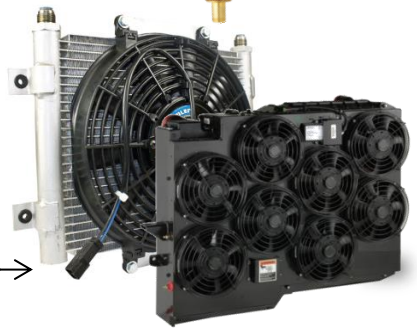
Fan Bank Control

SET-POINT

- Configure inputs
- Set target temperature
- Setup e-Fan operational profile
- Tune cooling system by setting PID values



T1



Heat Exchanger

Single compartment heat exchanger with a single fan or multiple fan bank using a single thermistor input or J1939 CAN message.

1x to 6x Fan Diagnostic

PWM % Output

Provides PWM output based upon the % fan speed demand

\+ Controller
\- Supply Power
(*9-32VDC, 200mA Max*)

\+ Fan
\- Supply Power

Optional Switch Inputs

Ignition
Reverse
Fire

SAE J1939

Receive

- Engine RPM (EEC1)
- T1 temperature

Transmit

- Fan bank % fan speed
- Calculated fan RPM
- T1 temperatures
- T1 % duty cycle demand