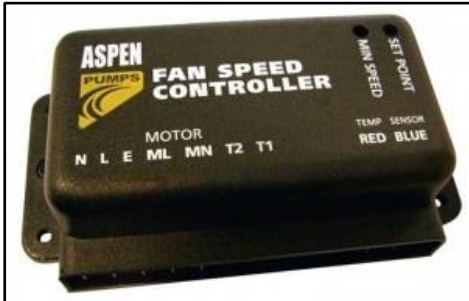


Fan speed controller

The fitting of a fan speed controller is compulsory for applications where the system pipe run is longer than 15m. Refer to **Table 2**.

Aspen Cooling Only model as shown in **Figure 10**, is recommended to be installed on the outdoor unit to regulate fan speed based on condensing temperature. The fan speed controller could be obtained either from your unit distributor or various refrigeration stockists.

Figure 10: Fan Speed Controller (Aspen FP2094)



Aspen FP2094 fan speed controller comes supplied with full fitting and set-up instructions. Refer to **Figure 12** and instructions below for the field wiring:

- Find a suitable mounting point for the controller within the outdoor unit casing and fix it securely. (Aspen FP2094 is not waterproof and should be installed in the electrical compartment of the condensing unit).
- Connect the thermal sensor to the terminals red/blue on the controller and fix the sensor side to a bend of the condenser coil in the middle between an entrance point and outgoing point of the refrigerant tubing, refer

Figure 11. In case of any doubt, measure the condensing temperature and select the point which is closest to the saturation point.

- If possible, put a thermal paste on the sensor or isolate it, to obtain the best measurements and working results.
- Remove the condenser fan Live wire (Black) from the 'L' connection on the unit and connect to ML on the FSC. Remove the condenser fan Neutral wire (Blue) from the connection at the compressor run capacitor and connect to MN on the FSC.
- Make up a new wire to connect 'L' (on unit) to L (on controller) and another new wire to connect 'N' (on unit) to N (on controller). Provide a new Earth wire between the unit and E on the controller.
- Tighten all wiring connections and secure all wires as necessary. The wiring is now complete.
- Run the unit and adjust controller as per instructions to give required condensing temperature (35°C~40°C).

Figure 11: Sensor Location

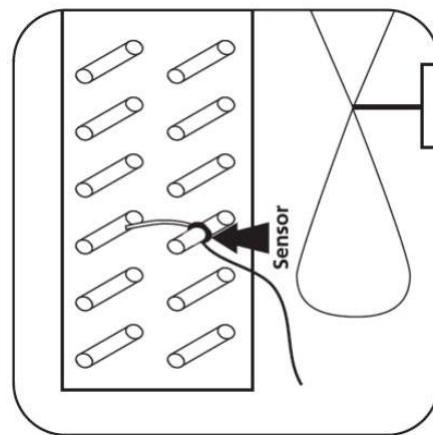


Figure 12: Wiring Diagram Outdoor Unit Integrate FSC

