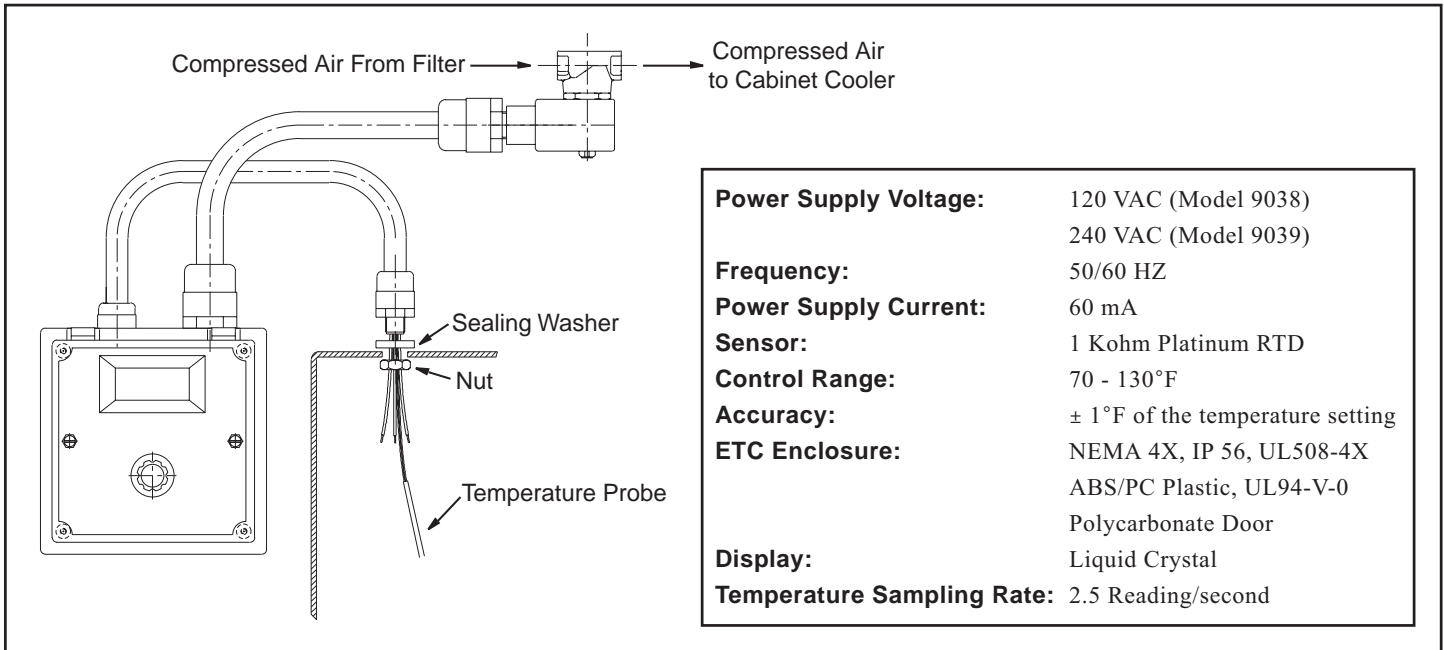


ETC - ELECTRONIC TEMPERATURE CONTROL™



EXAIR's ETC (Electronic Temperature Control) provides precise temperature control of the EXAIR Cabinet Cooler System. The clear polycarbonate door permits viewing of the large LCD display that constantly monitors the internal temperature of the electrical enclosure. The ETC display and temperature setting dial remain sealed to provide NEMA 4, 4X and 12 integrity. It can be quickly unlatched to change the thermostat setting. The ETC offers the reliability of a solid state temperature controller and uses a platinum RTD sensor for temperature measurement.

INSTALLATION

Please refer to the Cabinet Cooler Installation and Maintenance Sheet that is enclosed with the Cabinet Cooler. The ETC has been pre-wired for fast installation. It is easily substituted for EXAIR's standard valve and thermostat kit (as shown on the Cabinet Cooler Installation and Maintenance sheet).

1) Connect the compressed air supply to the solenoid valve, paying attention to flow

direction arrow on brass valve body (in and out). The solenoid valve should be located downstream from the filter(s) and before Cabinet Cooler. For ease of connecting the compressed air pipe to the solenoid valve, the electrical coil can be detached from the valve body by removing the metal clip with a flat blade screwdriver.

2) Locate the desired position for the ETC plastic enclosure. The ETC is lightweight, and is easy to mount. There is an assortment of mounting hardware for your choice of mounting arrangements. The ETC has (4) threaded inserts on the back of the enclosure. (4) offset clips with screws are provided that are ideal for flush mounting. Another option is to attach the (2) right angle brackets directly to the ETC using the screws included with the offset clips. The right angle brackets can be held to the mounting surface using the (4) 10-24 x 5/8" screws that are provided. **If mounting the ETC to the electrical enclosure itself, be sure to maintain the seal (to maintain the NEMA rating of the enclosure).**

- 3) Drill a 1/2" (13mm) diameter hole through enclosure to locate the electrical supply for the ETC.
- 4) Remove hex nut from the ETC liquid tight conduit connector.
- 5) Thread the (3) wires and the platinum RTD sensor through the drilled hole. The foam sealing washer should be placed on the outside of the enclosure between the liquid tight conduit connector and the metal enclosure. Tighten the retaining nut from the inside of the enclosure to ensure a tight seal at the foam washer.
- 6) For 120 VAC, make the following connections:
Black – Hot
White – Neutral
Green – Ground

For 240 VAC, make the following connections:
Black – Hot
Black – Hot
Green – Ground
- 7) Secure the platinum RTD temperature probe inside the enclosure with adhesive clip provided. Mounting the probe vertically with the wires positioned at the top works best. It is not sensitive to mounting position. The RTD temperature probe must be mounted inside the enclosure. It should not be mounted directly in the cold air exhaust of the Cold Air Distribution Kit.

SETTING THE THERMOSTAT

Setting for the correct temperature is important. It is best to choose a temperature that keeps the electronics in the electrical enclosure functioning without setting the temperature so low that it simply wastes compressed air. For most applications, a setting of 90 to 95°F (32 to 35°C) is sufficient. Most electronic components are normally rated at 104°F (40°C). Some newer electronics can withstand more heat and have a maximum temperature rating of 122°F (50°C). For these applications, a temperature setting of 104 to 111°F (40 to 44°C) is adequate. For best results, check the manual on the piece of equipment for the maximum temperature rating.

WARRANTY

There is a one year warranty against defects in workmanship and materials. Defective products must be returned freight prepaid for repair or replacement at our option. This warranty applies under conditions of normal use, but does not apply to defects that result from intentional damage, negligence or unreasonable use or exposure. The ETC has no user serviceable parts inside. Warranty is void if there is evidence of tampering.

If you have any questions or problems, please contact an EXAIR Application Engineer at:
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