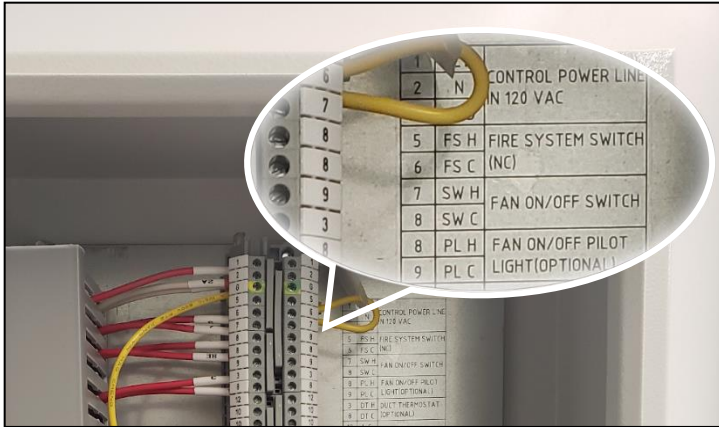
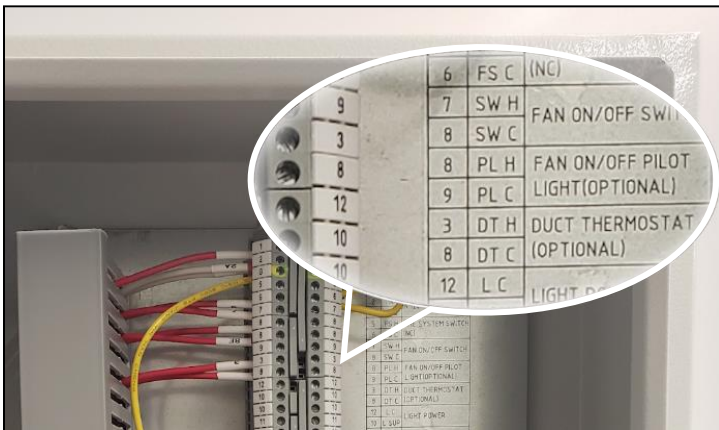


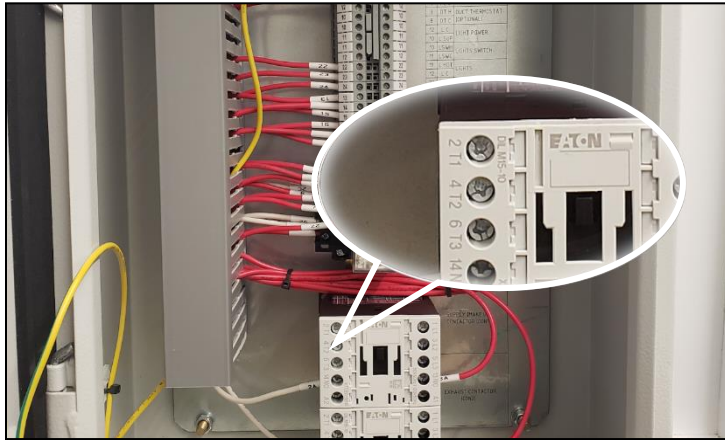
Troubleshooting Guide – Model 251



- How do I control my fan / why won't they turn on?
 - (No on/off switch installed)
Ensure ON/OFF switch is installed to terminal block locations 7 (SW H) and 8 (SW C) and verify continuity and operation of switch with control circuit power OFF. If no fire suppression switch is used with the installation, then the yellow jumper wire with tag must remain installed to terminal block locations 5 (FSH) and 6 (FSC).



- How do I connect the duct thermostat?
 - The duct thermostat is wired to terminal block locations 3 (DT H) and 8 (DT C). If no fire suppression switch is used with the duct thermostat installation, then the yellow jumper wire with tag must remain installed to terminal block locations 5 (FSH) and 6 (FSC).



- Where do I connect my exhaust / supply fans?

For model 251 connect exhaust fan as follows:

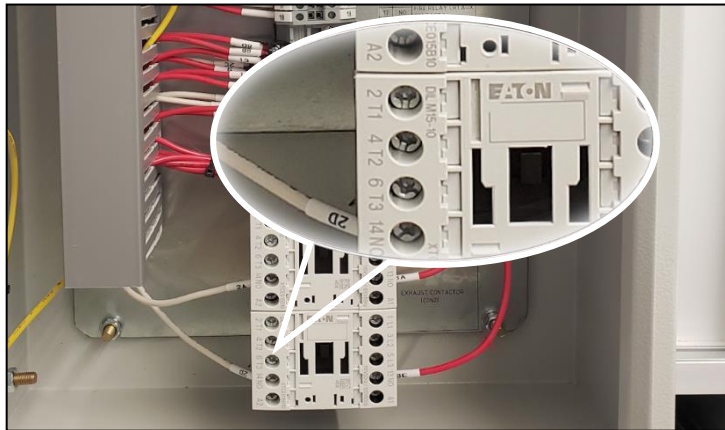
- T1,T2 and T3 on contactor CON2 for a three-phase 208-240V/460V motor
- T1 and T2 on contactor CON2 for a single-phase 208-240V motor
- T1 on contactor CON2 for a single-phase 120V motor

For model 251 connect supply fan as follows:

- T1,T2 and T3 on contactor CON1 for a three-phase 208-240V/460V motor
- T1 and T2 on contactor CON1 for a single-phase 208-240V motor
- T1 on contactor CON1 for a single-phase 120V motor

Ensure Building Power is connected as follows:

- Connect the exhaust and supply fan line voltage wiring using terminals L1, L2, and L3 for a three-phase connection, or L1 and L2 for single -phase connection. Incoming power wires to originate from building power wiring from branch circuit protection or disconnect means. There should be separate branch circuits for each motor contactor.



- How many circuits do I need? Can I run everything from one circuit breaker?

For model 251 three circuits will be needed. One for the 120V control circuit and the other two for the supply and exhaust fan circuits respectively. One circuit breaker cannot be used for all the circuit in accordance with the UL requirements for this product

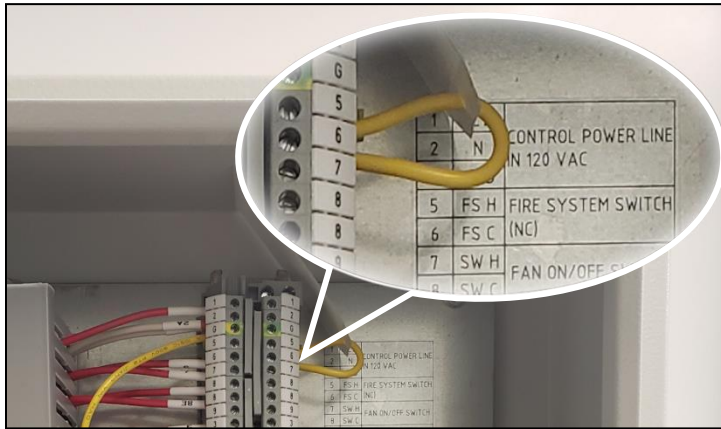
- What circuit breaker do I need?

For the model 251 120V control circuit a 10-ampere maximum type CC fuse should be used for branch circuit protection

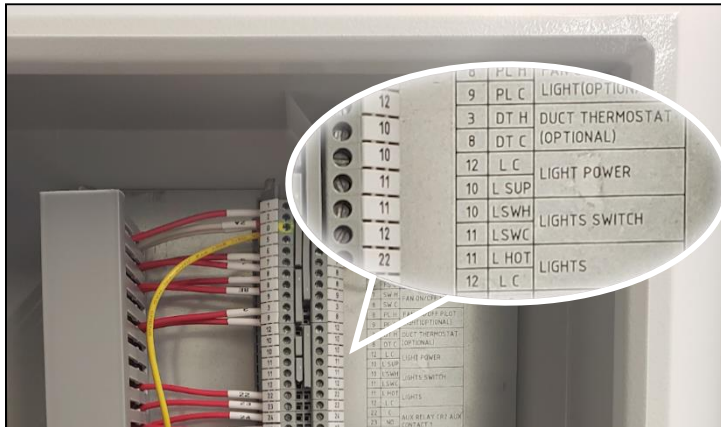
The supply and exhaust fans individual circuit breakers or fuses will be required for each fan. The following motor fusing chart is established based on the following motor horsepower's

Phase	Supply Voltage	Horsepower	Fuse size type CC
1	120	1	30
1	230	3	30
3	230	5	30
3	460	10	30

Troubleshooting Guide – Model 251



- How do I connect the microswitch (fire system)?
 - The fire system microswitch is wired to terminal block locations 5 (FS H) and 6 (FS C). The jumper wire must be removed when a microswitch is installed.
- How do I wire my lights? How do I get the lights / fryer / outlets to turn off when there is a fire?
 - (as an FYI, regular tungsten lights need special relays to control. A fryer would need a connection point defined in the fryer. The aux relays in the panels are not designed for normal commercial kitchen receptacle loads for things like blenders.)
 - To wire the lights connect the light switch to terminal block locations 10 (LSWH) and 11 (LSWC). The light should be wired to terminal block locations 11 (L HOT) and 12 (L C). Power for the light will need to be provided to terminals 10 (L SUP) and 12 (L C) -reference the wiring diagram which is located on the inside of the control panel door or page 4 of this document for details
 - The control panel cannot be used to interrupt power to premise outlets or appliances



- How do I install a variable speed switch on the fan?
 - Please contact NAKS for variable speed accessory kits designed to be used with your NAKS exhaust hood system. The kits have complete instructions and wiring details for the installation process
- How can I shut off the supply (make up) air manually when its cold outside?

Supply make up air should be provided under normal circumstances of operation. If the user decides to shut off the supply make up air, the respective circuit breaker for the supply fan branch circuit protection needs to be turned off. Alternatively, if a disconnect switch is installed in the supply fan branch circuit, it could be turned off.

Troubleshooting Guide – Model 251

