

ANEMOSTAT[®]

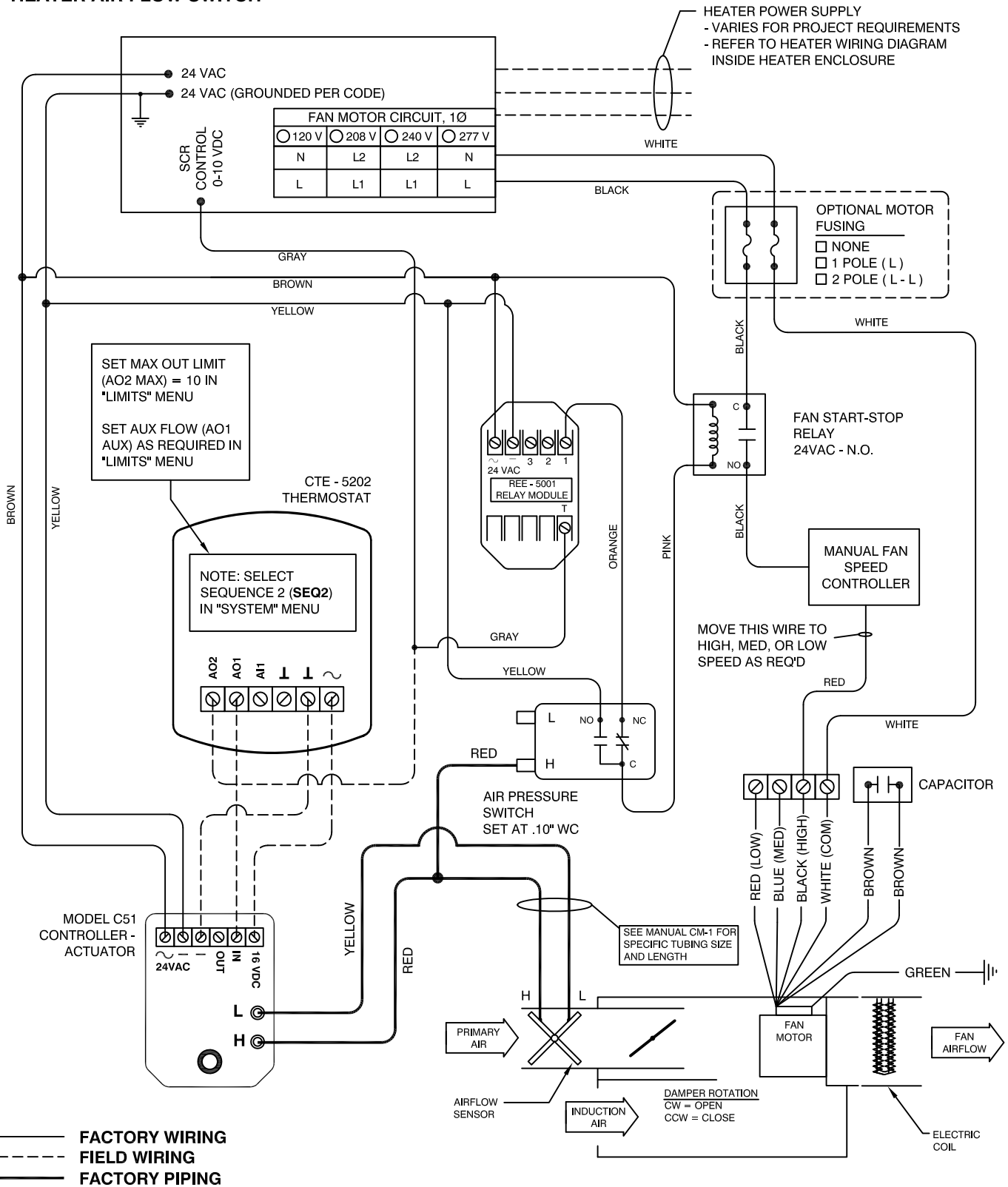
AIR TERMINAL CONTROLS

Control Package

FS - A - 5224

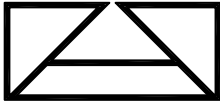
- SERIES FAN AIR TERMINAL
- ELECTRIC HEAT - SCR CONTROL
- HEATER AIR FLOW SWITCH

- ANALOG ELECTRONIC CONTROLS
- NIGHT CYCLING FEATURE



JOB NAME:
 SUBMITTED BY:
 DATE:

DWG #: FS-A-5224.1
 REV: -
 DATE: 3-27-14



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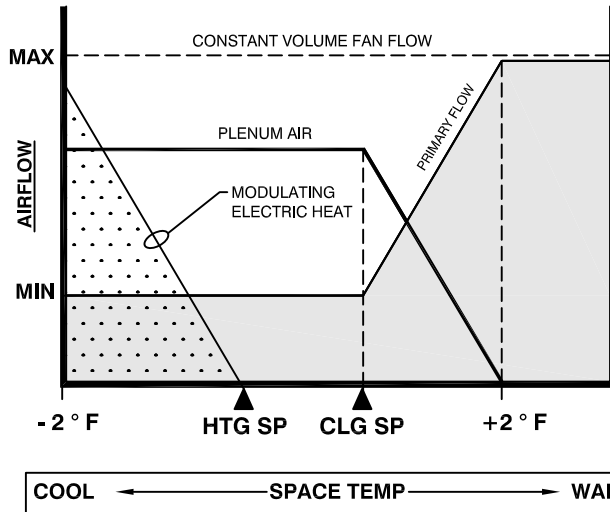
AIR TERMINAL CONTROLS

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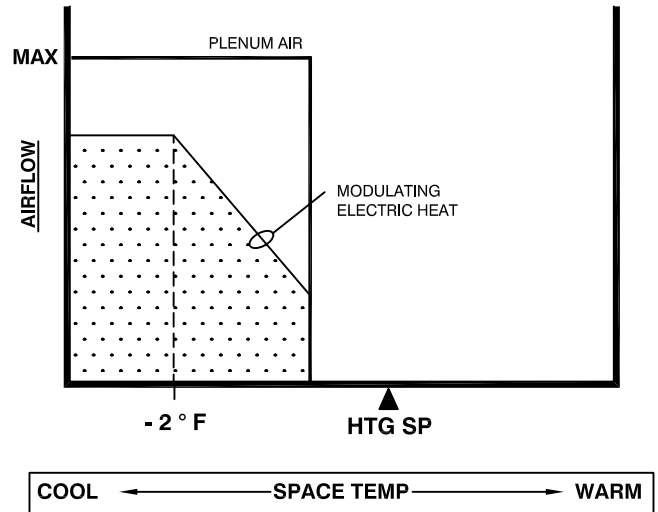
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OCCUPIED MODE (AHU ON)



UNOCCUPIED MODE (AHU OFF)



SEQUENCE OF OPERATION

THE AIR TERMINAL FAN MUST BE RUNNING TO DELIVER AIR TO THE SPACE. THE CONSTANT VOLUME FAN CFM (MANUALLY ADJUSTABLE) MUST BE GREATER THAN THE MAXIMUM PRIMARY CFM TO PREVENT SPILLING OF AIR INTO THE CEILING PLENUM. $FAN\ CFM = PRIMARY\ CFM + INDUCED\ CFM$

THE MINIMUM AND MAXIMUM PRIMARY AIRFLOW SETPOINTS ARE ADJUSTED AT THE WALL THERMOSTAT.

OCCUPIED MODE (AHU ON)

1. THE AIR PRESSURE SWITCH SENSES SUPPLY DUCT PRESSURE, AND TURNS THE TERMINAL FAN ON. THE THERMOSTAT SIGNALS THE CONTROLLER IN RESPONSE TO THE SPACE TEMPERATURE, AND INCLUDES BOTH A COOLING AND HEATING SETPOINT SLIDER.
2. AS THE SPACE TEMP INCREASES FROM THE COOLING SETPOINT TO +2° F ABOVE THE COOLING SETPOINT, THE DAMPER OPENS FROM MIN TO MAX AIRFLOW. ABOVE (CLG SP + 2° F), THE DAMPER MAINTAINS MAX FLOW. BELOW COOLING SETPOINT TEMP, MIN AIRFLOW IS MAINTAINED.
3. AS THE SPACE TEMP DECREASES FROM THE HEATING SETPOINT TO -2° F BELOW THE HEATING SETPOINT, MODULATING ELECTRIC HEAT IS ADDED FROM 0-100%.

UNOCCUPIED MODE (AHU OFF)

1. THE AIR PRESSURE SWITCH INDEXES FAN ON-OFF CONTROL TO THE REE-5001 MODULE.
2. AS THE SPACE TEMP DECREASES TO ABOUT -1° F BELOW THE HEATING SETPOINT, THE TERMINAL FAN WILL ENERGIZE, AND THE HEATER WILL BE AT APPROXIMATELY 50% HEAT. AS THE TEMPERATURE CONTINUES TO DECREASE TO -2° F BELOW THE HEATING SETPOINT, THE HEAT WILL MODULATE FROM 50% TO 100%.

UPON LOSS OF POWER, PRIMARY DAMPER FAILS IN PLACE.

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