This application provides single duct variable air volume cooling with up to three stages of electric or hot water reheat, summer/winter changeover and/or morning warm up, and dual minimum setpoints. As space temperature drops, airflow is reset from maximum to minimum setpoint. As space temperature continues to drop, airflow is reset to a higher setpoint and reheat is energized in stages to satisfy the load. Warm air is sensed by an electronic duct sensor causing the sequence to reverse for changeover or morning warm up (reheat is disabled). Air volume limits are located at the thermostat. MAXIMUM COOLING CHANGEOVER OR — MORNING WARM UP (WARM AIR) AIR FLOW COLD AIR S.P. - SETPOINT HEATING MINIMUM 3rd STAGE ENERGIZED 5 COOLING MINIMUM 2nd STAGE ENERGIZED 4 HOT WATER VALVE OR 1st STAGE ENERGIZED COLD ROOM HOT ROOM SPACE TEMPERATURE \*CAUTION: TO 3RD STAGE CONTACTOR COIL<sup>2</sup> (IF REQUIRED) ORANGE FAILURE TO REMOVE JUMPER FROM TERMINAL 3 WILL CAUSE SERIOUS DAMAGE TO CONTROLLER TO 2ND STAGE CONTACTOR  ${\rm COIL}^2$  (IF REQUIRED) TO 1ST STAGE CONTACTOR COIL 2,7 2" SQUARE LOW PROFILE **ELECTRONIC THERMOSTAT** TO COMMON SIDE 2,7 OF CONTACTOR COILS ETST5AW 5 4 3 2 RED **ELECTRONIC** 9 BLACK DUCT SENSOR 7 3 2 9 10 11 5 4 **ETPCO** ETPH3 SETBACK/WARMUP MODULE (GREEN) HEAT/FAN MODULE (RED) ETPM7 ELECTRONIC PRESSURE INDEPENDENT CONTROLLER 8 16a|16b|16c|15a|15b| 14 13 HI LO 1.6 TO DIFFERENTIAL PRESSURE SENSOR BLUE L2(N) 3||[ 24V BLACK DISCONNECT SWITCH 6,10 JCI ACTUATOR M9104-IGA-3S TRANSFORMER 1,6,10 WHITE (OPTIONAL) -O1 COM (OPTIONAL) BLUE -©2 CW |⊙ ⊗3 CCW CONTROLLER ASSY. MODEL: ETPXNCD <sup>1</sup> MINIMUM 40 VA IF HOT WATER REHEAT IS USED, FIELD <sup>2</sup> MAXIMUM 10 VA HOLDING COIL WIRING IS REQUIRED. <sup>3</sup> ENERGIZED 2° F BELOW SETPOINT REMOVE JUMPER ON TERMINAL 3 BEFORE 4 ENERGIZED 3° F BELOW SETPOINT INSTALLATION. ENERGIZED 4° F BELOW SETPOINT IF DUAL MINIMUMS ARE NOT DESIRED, IF ELECTRIC HEAT IS PROVIDED, WIRE FROM TERMINAL 4 OF ETST5AW TO TERMINAL 4 OF ETPH3 IS NOT REQUIRED TRANSFORMER AND DISCONNECT ARE LOCATED IN THE HEATER ENCLOSURE - FACTORY TUBING IF ELECTRIC HEAT IS NOT PROVIDED, SEE ORDER ACKNOWLEDGEMENT FOR OPTIONAL ITEMS REQUIREMENTS AND TRANSFORMER PRIMARY VOLTAGE
IS DEPENDENT ON HEATER LINE --- FIELD WIRING - FACTORY WIRING VOLTAGE REQUIREMENT TITLE: **ENVIRO-TEC** SD7101 BY JOHNSON CONTROLS PRESSURE INDEPENDENT ELECTRONIC CONTROLS DRN BY AWW DATE: SCALE: 03/12/97 N/A DO NOT SCALE DRAWING
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