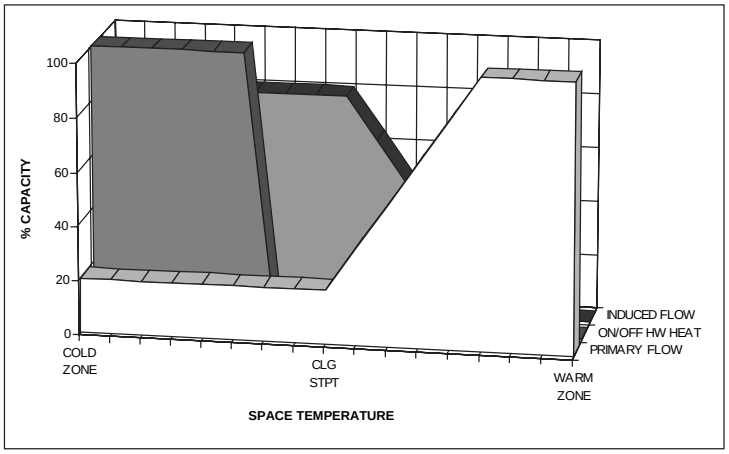


CONSTANT VOLUME FAN POWERED TERMINAL UNIT ANALOG CONTROL SEQUENCE 2205

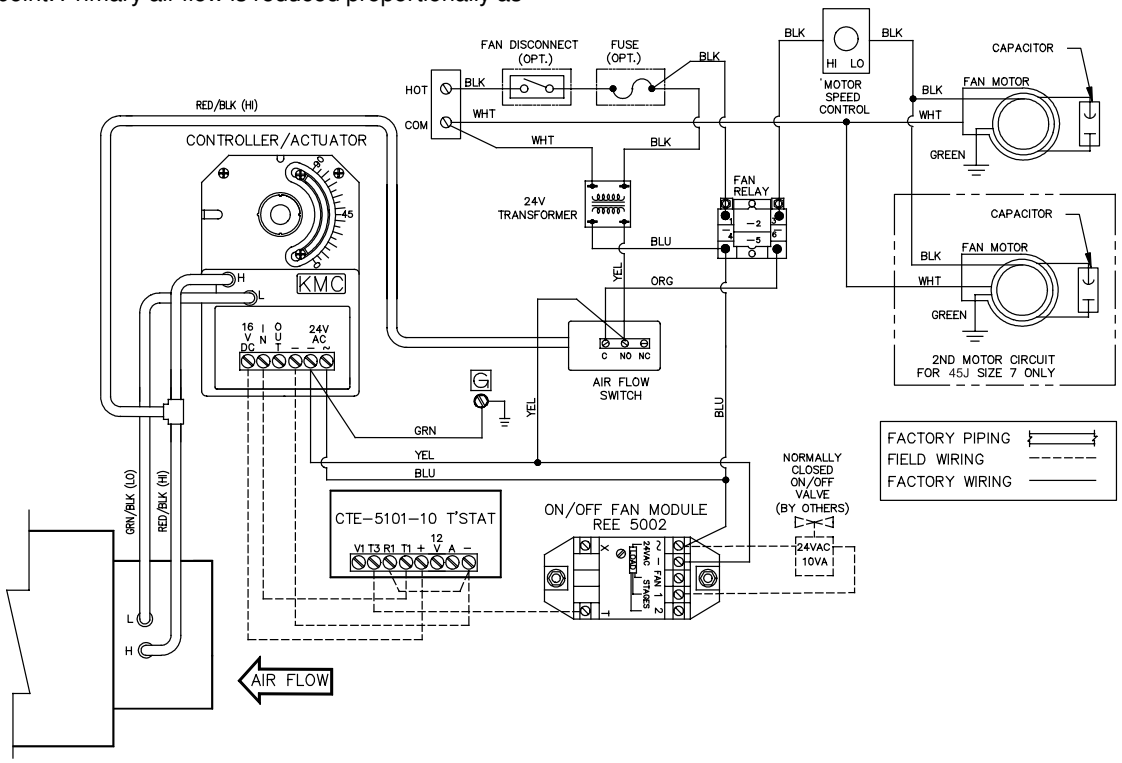
Cooling With On/Off Hot Water Heat And Automatic Night Shutdown On Loss Of Primary Air

2205 — User defined primary air flow setpoints are maintained regardless of central system pressure, while terminal fan runs continuously. Minimum and Maximum air flow setpoints are adjusted at the room thermostat as opposed to the terminal controller, with a digital voltmeter (DVM). The thermostat output range is from 0-10vdc for minimum and maximum air flow setpoints (0-3300 fpm).

Under load for cooling, primary air flow is at maximum when the occupied space is 2 degrees above the user defined cooling setpoint. Primary air flow should not exceed fan air flow setpoint. Primary air flow is reduced proportionally as room temperature approaches the cooling setpoint. As primary air flow is reduced, the constant volume terminal fan proportionally induces ceiling plenum return air or ducted return air, to maintain a constant volume of air to the occupied space.

Unoccupied mode is in effect when the central air handling station serving primary air to the terminal, shuts down. Upon a signal loss of primary air at the terminals inlet probe, an air flow switch automatically shuts down the constant volume terminal fan.

Under a load for heating, the field supplied 24vac on/off hot water valve will be energized at the user defined heating setpoint. Upon the signal for heat, theo controller will apply 24vac to the normally closed on/off hot water valve. In order to apply a normally open hot water valve a field supplied reversing relay must be applied into the circuit by the field.



PRODUCT INFORMATION IS SUBJECT TO CHANGE WITHOUT NOTICE. 01/29/2003

JOB NAME	JOB NUMBER	LOCATION		DRAWING NUMBER
BUYER	BUYER #	REVISION	SHEET	45J/K/Q-A-2205