

PNEUMATIC CONTROLS SINGLE DUCT VAV TERMINAL UNIT MODEL: 30RE CONTROL SEQUENCE: 2P3 (CSC-3011)

DIAMOND FLOW SENSOR STAGE 3 PF AIRFLOW (OPTIONAL) SWITCH ĻC ні О NORMALLY OPEN DAMPER STAGE 2 PF (OPTIONAL) SWITCH NORMALLY OPEN PF STAGE 1 5 - 10 PSI ACTUATOR SWITCH P.E. SWITCH(FS) BALANCING TFFS INTEGRAL ELECTRIC COIL RESET START POINT FACTORY SET AT 3.0 PSI 0 6 SETTING MUST \bigcirc BE ON N. O. RESET SPAN CSC-3011 FACTORY SET CONTROLLER AT 5.0 PSI **REVERSE ACTING** 2-PIPE T THERMOSTAT IOW STAT P = MAX FACTORY PIPING MAIN MB HIGH STAT P = MIN. (OPTIONAL OR (м) AIR ---- FIELD PIPING BY OTHERS) 20 PS

COOLING WITH ELECTRIC REHEAT • REVERSE ACTING, NORMALLY OPEN • VARIABLE AIR VOLUME • PRESSURE INDEPENDENT

Sequence of Operation:

SCHEDULE TYPE:

PROJECT:

ENGINEER:

CONTRACTOR:

- 1. When main control air is off, damper is fully open and P.E. switch for electric heater is open (de-energized). Morning warm-up setting (if required) with warm air from the system supplied at full flow rate.
- 2. Main control air on controller is activated. Begins modulating cold airflow according to thermostat output.
- 3. Decrease in room temperature increases thermostat output pressure (thus decreasing airflow).
- 4. Maximum airflow is maintained between 0 and 3 psi thermostat signal.
- 5. Further decrease in room temperature will increase thermostat signal from 3 to 8 psi which will decrease airflow to room. At 8 psi and above, minimum airflow is maintained.
- 6. A further decrease in room temperature will energize the electric reheat coil one stage at a time.
- 7. If main control air fails, damper fails open and P.E. switch for electric heater fails open (de-energized).

Options:

Two Pipe Thermostat (Vertical Mount. Includes backing plate for 2" x 4" electrical box).

- CTC-1622-103 °F scale plate
- CTC-1622-113 °C scale plate

VAV COOLING, ELECTRIC REHEAT

REVERSE ACTING THERMÓSTAT, NORMALLY OPEN DAMPER

