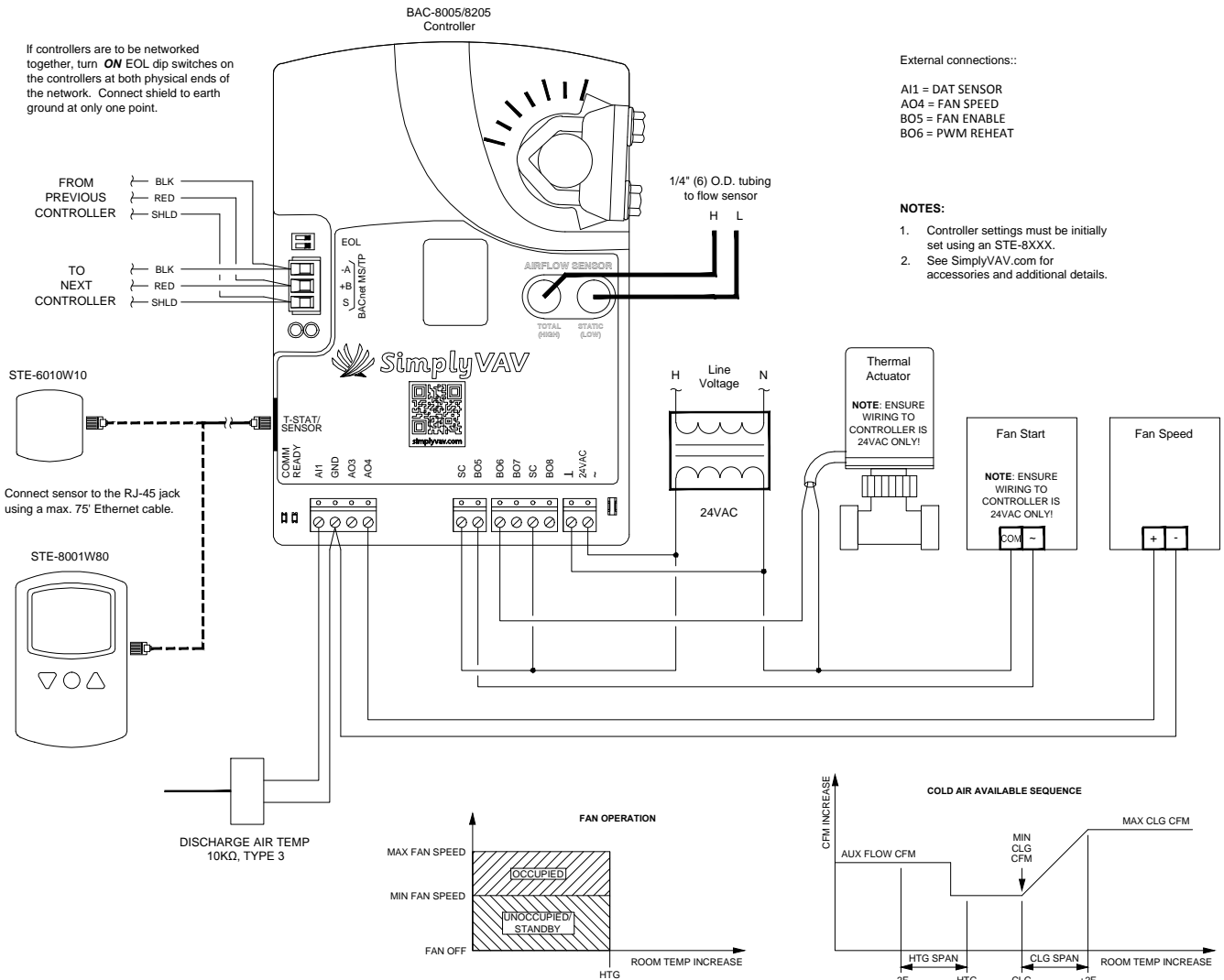




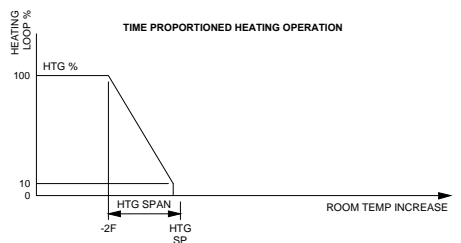
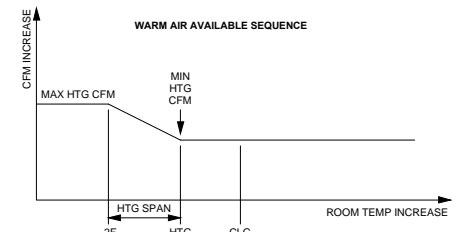
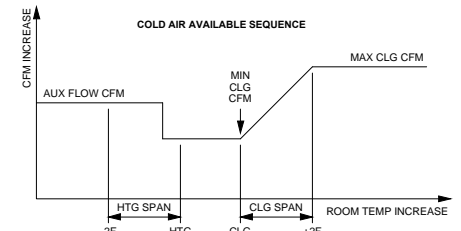
Single Duct Variable Air Volume (VAV) Terminal Unit
Parallel Fan Powered with Time-Proportioned Reheat (PWM)
Pressure Independent
Model: BAC-8005/8205

If controllers are to be networked together, turn **ON** EOL dip switches on the controllers at both physical ends of the network. Connect shield to earth ground at only one point.



SEQUENCE OF OPERATION:

1. Changeover: If the discharge air temperature (DAT) drops below 72°F, cool air is said to be available. As the DAT rises above 76°F, warm air is said to be available. Any time warm air is available, auxiliary heat is locked out.
2. Cool air available: As space temperature rises above the cooling setpoint, the controller increases airflow. At a space temperature of 2°F above the cooling setpoint, maximum cooling airflow is maintained. On a decrease in space temperature, the controller reduces airflow. From cooling setpoint to heating setpoint, minimum cooling airflow is maintained. If the temperature drops further and heating is required, the auxiliary flow rate is maintained.
3. Warm air available: As space temp drops below the heating setpoint, the controller increases airflow. At a temperature 2°F below the heating setpoint, maximum heating airflow is maintained. On an increase in space temperature, airflow decreases. As space temperature rises above the heating setpoint, minimum heating airflow is maintained.
4. The fan is started only on a call for heat. The fan stops if there is no call for heat. During occupied mode, the fan runs at maximum fan speed. During standby and unoccupied modes, the fan runs at minimum fan speed.
5. As the space temp drops below the heating setpoint, the heating output is controlled in a 10 second based, time-proportioned manner. If the heating loop is less than 10%, the heating output remains at zero percent.
6. If DAT limiting is enabled and a DAT sensor is detected, the discharge air reheat setpoint is determined based on the heating loop. The discharge air setpoint is limited to a maximum of 15°F above space temperature.



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DRAWING TITLE: PARALLEL FPB W/PWM REHEAT

CREATION DATE: 3/7/2014

FILENAME: SS14014A_SimplyVAV_PAR_FAN_PWM_RHT

REVISION DATE: 3/7/2014

REVISION: INITIAL RELEASE