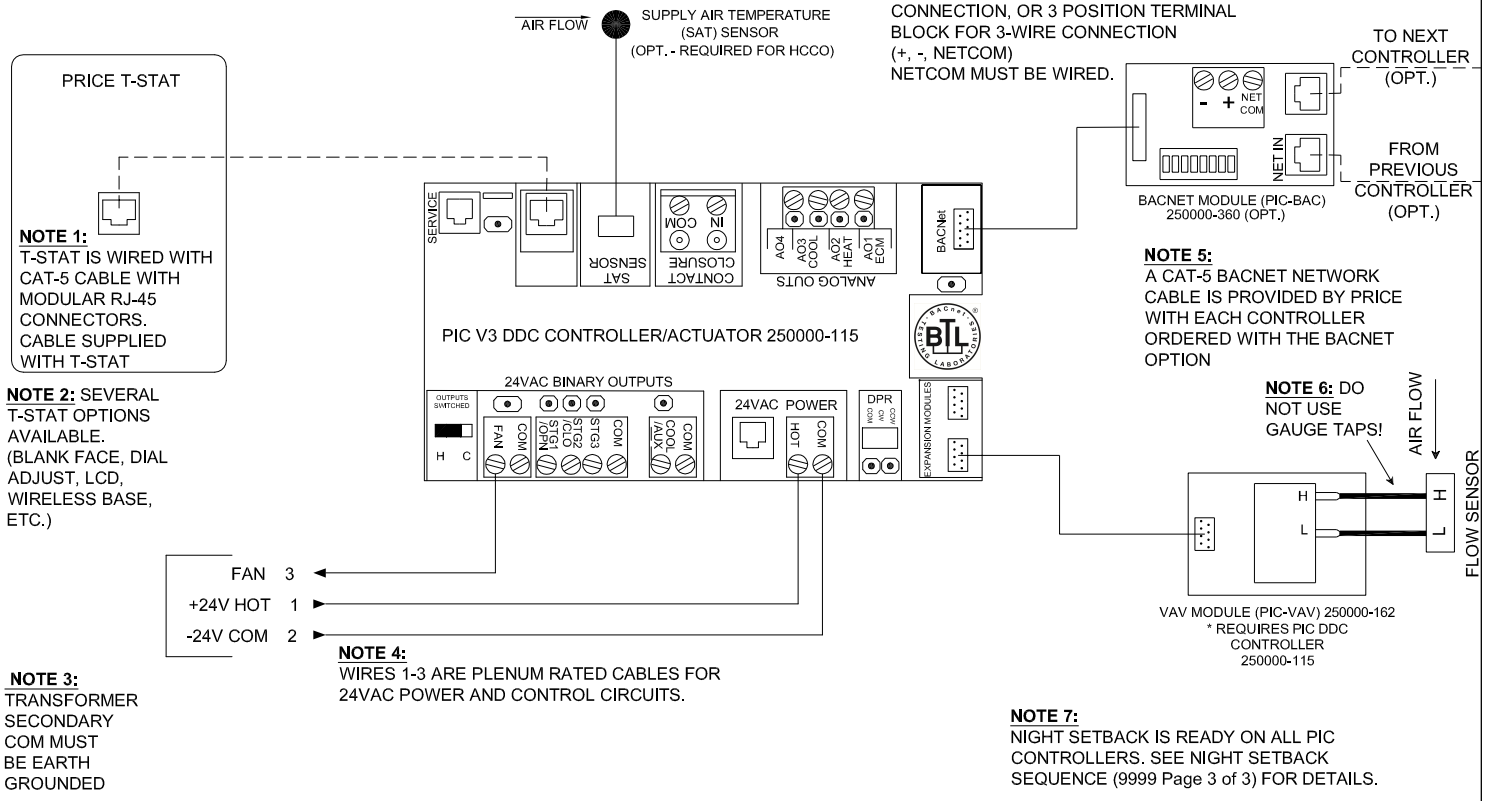
FAN POWERED TERMINAL VARIABLE VOLUME PARALLEL FLOW

Control Sequence Number 8800



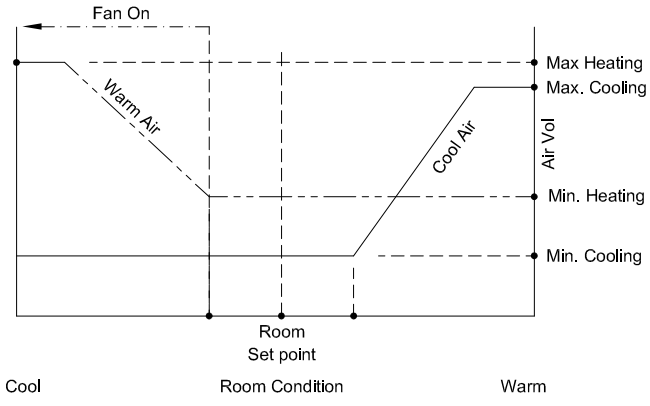
LEGEND

FACTORY FLOW SENSOR TUBING

FACTORY ELECTRICAL WIRING

FIELD ELECTRICAL WIRING

CONTROL GRAPH



Sequence of Operation -- Variable Volume Heat/cool changeover OR cooling only - Pressure Independent

On power up the damper will calibrate closed for 2 minutes.
If no SAT sensor is present, controller assumes Cool supply air at all times

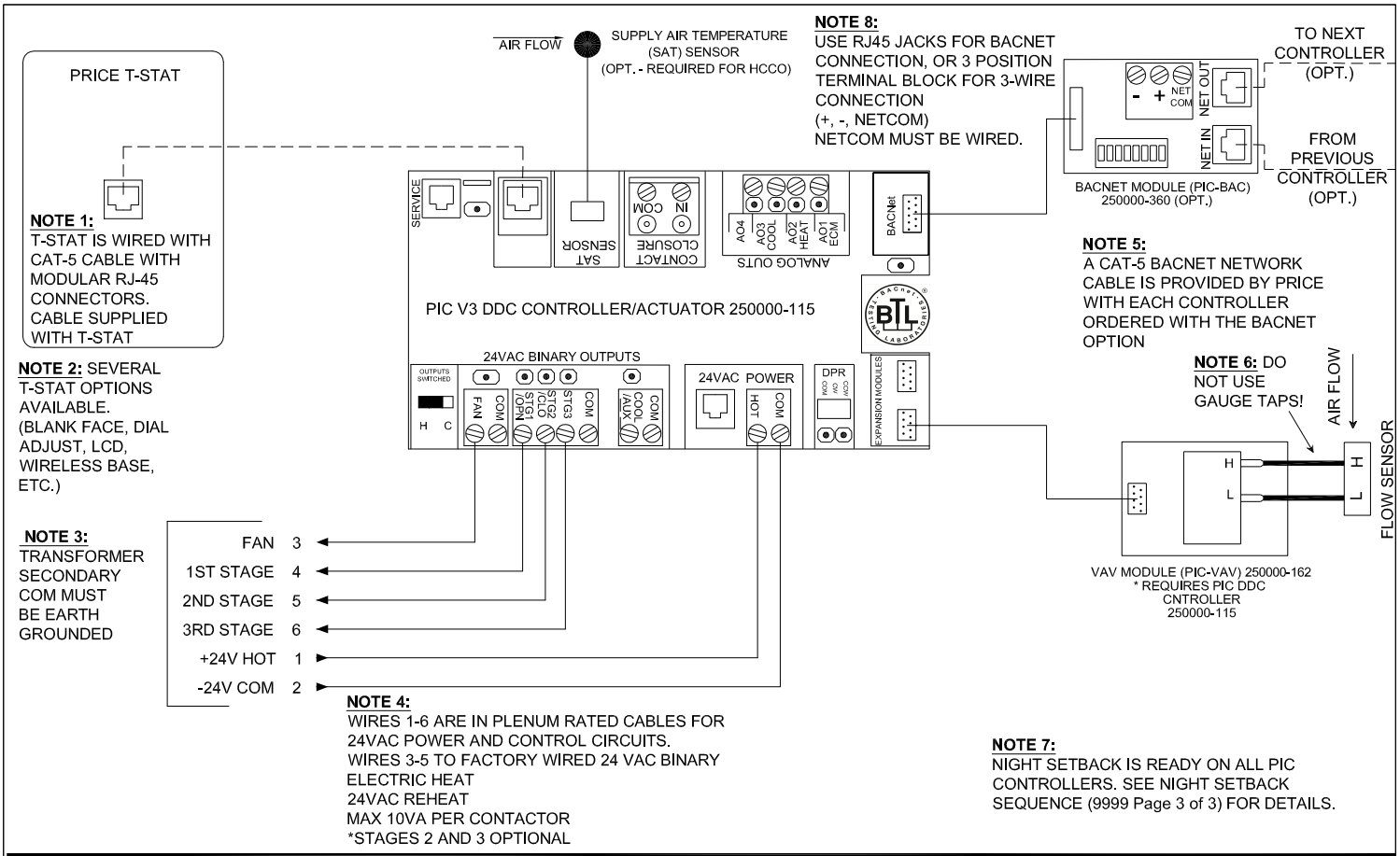
Cool supply air: On an increase in space temperature the controller regulates the actuator to open the VAV damper and increase the flow of cool air. On an increase of space temperature greater than the cooling proportional band, the airflow is maintained at its pre-selected maximum flow setting.
On a decrease in space temperature the controller regulates the actuator to close the VAV damper and reduce the flow of cool air. If the space temperature decreases to less than the cooling proportional band, the airflow is maintained at the pre-selected minimum flow setting.
Warm supply air: On a decrease in space temperature the controller regulates the actuator to open the VAV damper and increase the flow of warm air. On a decrease of space temperature greater than the heating proportional band, the airflow is maintained at its pre-selected maximum flow setting.
On an increase in space temperature the controller regulates the actuator to close the VAV damper and reduce the flow of warm air. If the space temperature increases above the heating proportional band, the airflow is maintained at the pre-selected minimum flow setting.
Fan Operation: On a decrease in space temperature into the heating proportional band, the unit fan will energize.

PROJECT:		
ENGINEER:	BC MB	**FAN POWERED VARIABLE VOLUME PARALLEL FLOW** PIC - PRESSURE INDEPENDENT HEAT/COOL CHANGEOVER OR COOLING ONLY NO LOCAL REHEAT CONTROL
CUSTOMER:	249517	
SUBMITTAL DATE: **SPEC. SYMBOL:**	2017/08/11	

REV F

FAN POWERED TERMINAL VARIABLE VOLUME PARALLEL FLOW

Control Sequence Number 8801

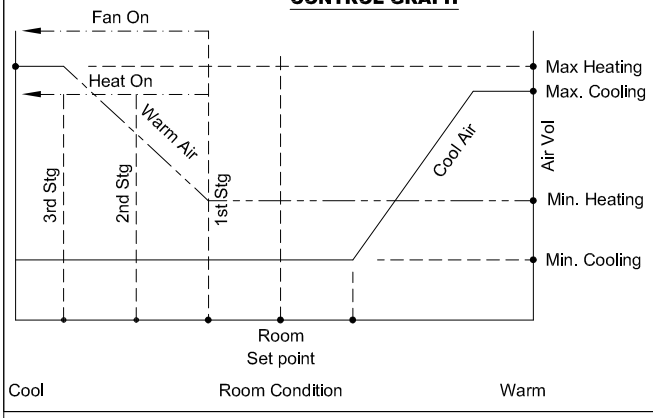


Calibration note: Suitable min and max heating flows must be selected in order to maintain flow through energized electric coils of at least 200 fpm and at least 70 cfm/kW throughout the entire operating range.

LEGEND

- FACTORY FLOW SENSOR TUBING
- FACTORY ELECTRICAL WIRING
- FIELD ELECTRICAL WIRING

CONTROL GRAPH



Sequence of Operation -- Variable Volume Heat/cool changeover OR cooling With up to 3 stage binary reheat - Pressure Independent

On power up the damper will calibrate closed for 2 minutes.

If no SAT sensor is present, controller assumes Cool supply air at all times

Cool supply air: On an increase in space temperature the controller regulates the actuator to open the VAV damper and increase the flow of cool air. On an increase of space temperature greater than the cooling proportional band, the airflow is maintained at its pre-selected maximum flow setting.

On a decrease in space temperature the controller regulates the actuator to close the VAV damper and reduce the flow of cool air. If the space temperature decreases to less than the cooling proportional band, the airflow is maintained at its pre-selected minimum flow setting.

Warm supply air: On a decrease in space temperature the controller regulates the actuator to open the VAV damper and increase the flow of warm air. On a decrease of space temperature greater than the heating proportional band, the airflow is maintained at its pre-selected maximum flow setting.

On an increase in space temperature the controller regulates the actuator to close the VAV damper and reduce the flow of warm air. If the space temperature increases above the heating proportional band, the airflow is maintained at its pre-selected minimum flow setting.

Fan Operation: On a decrease in space temperature into the heating proportional band, the unit fan will energize.

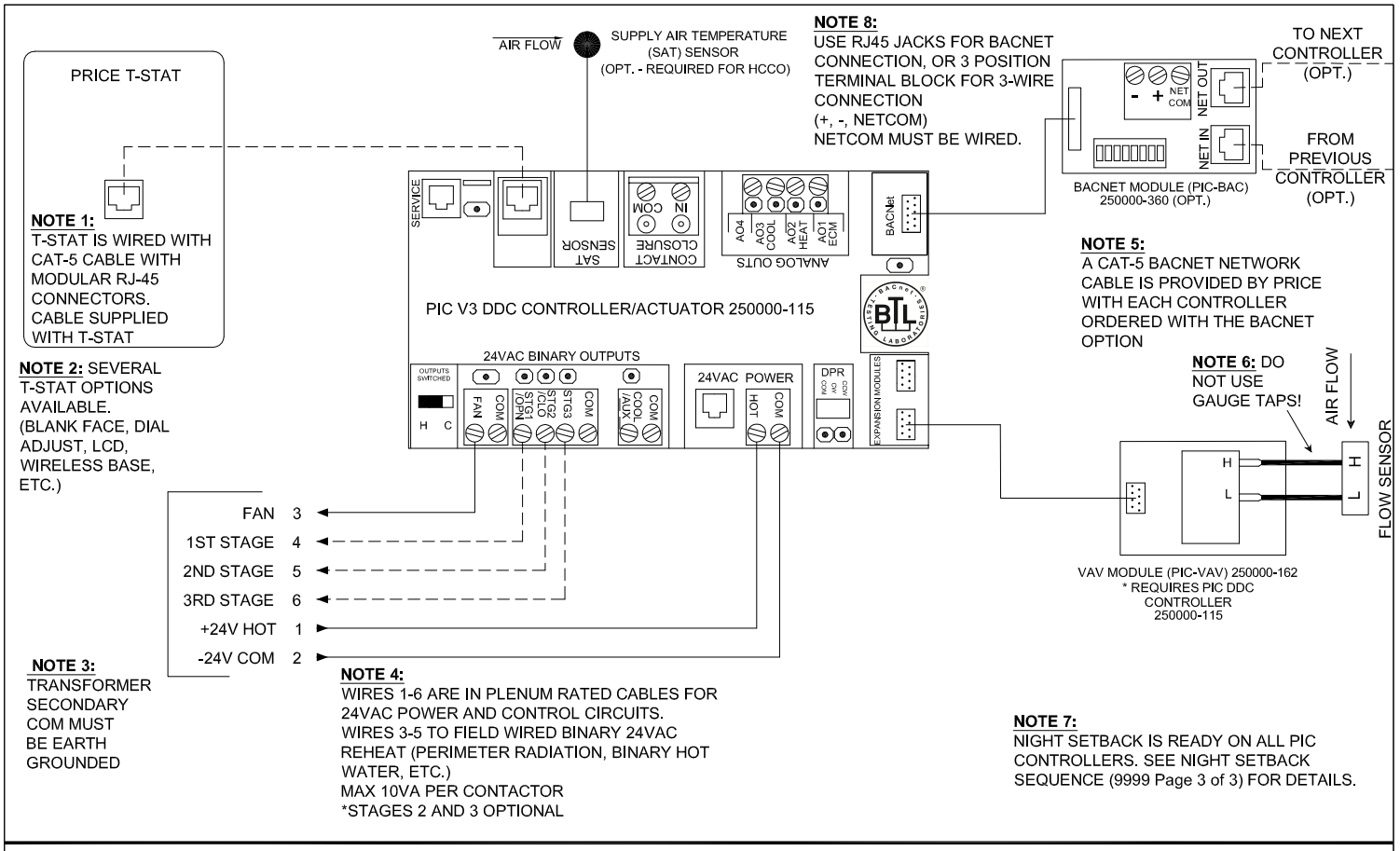
Reheat Operation: On a decrease in space temperature into the heating proportional band, the 1st stage binary 24VAC reheat output will energize. Upon futher decreases, the 2nd then 3rd stages of reheat (if used) will energize.

PROJECT:		
ENGINEER:	BC MB	**FAN POWERED VARIABLE VOLUME PARALLEL FLOW** V.V. PRESSURE INDEPENDENT HEAT/COOL C/O OR COOLING WITH UP TO 3 STG BINARY REHEAT FACTORY WIRED
CUSTOMER:	249518	
SUBMITTAL DATE:	**SPEC. SYMBOL:** 2017/08/11	

REV F

FAN POWERED TERMINAL VARIABLE VOLUME PARALLEL FLOW

Control Sequence Number 8802

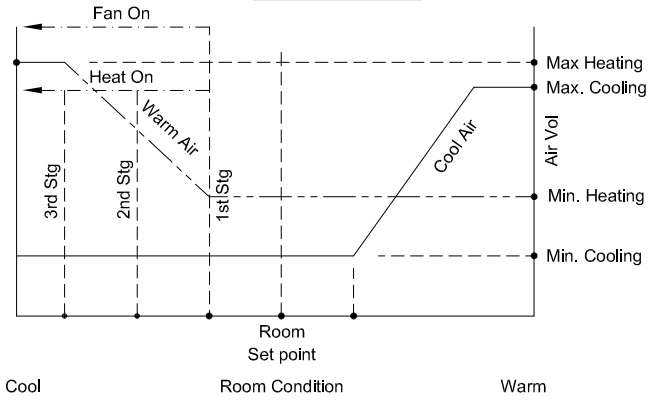


Calibration note: Suitable min and max heating flows must be selected in order to maintain flow through energized electric coils of at least 200 fpm and at least 70 cfm/kW throughout the entire operating range.

LEGEND

- FACTORY FLOW SENSOR TUBING
- FACTORY ELECTRICAL WIRING
- FIELD ELECTRICAL WIRING

CONTROL GRAPH



Sequence of Operation -- Variable Volume Heat/cool changeover OR cooling With up to 3 stage binary reheat - Pressure Independent

On power up the damper will calibrate closed for 2 minutes.

If no SAT sensor is present, controller assumes Cool supply air at all times

Cool supply air: On an increase in space temperature the controller regulates the actuator to open the VAV damper and increase the flow of cool air. On an increase of space temperature greater than the cooling proportional band, the airflow is maintained at its pre-selected maximum setting.

On a decrease in space temperature the controller regulates the actuator to close the VAV damper and reduce the flow of cool air. If the space temperature decreases to less than the cooling proportional band, the airflow is maintained at the pre-selected minimum setting.

Warm supply air: On a decrease in space temperature the controller regulates the actuator to open the VAV damper and increase the flow of warm air. On a decrease of space temperature greater than the heating proportional band, the airflow is maintained at its pre-selected maximum setting.

On an increase in space temperature the controller regulates the actuator to close the VAV damper and reduce the flow of warm air. If the space temperature increases above the heating proportional band, the airflow is maintained at the pre-selected minimum setting.

Fan Operation: On a decrease in space temperature into the heating proportional band, the unit fan will energize.

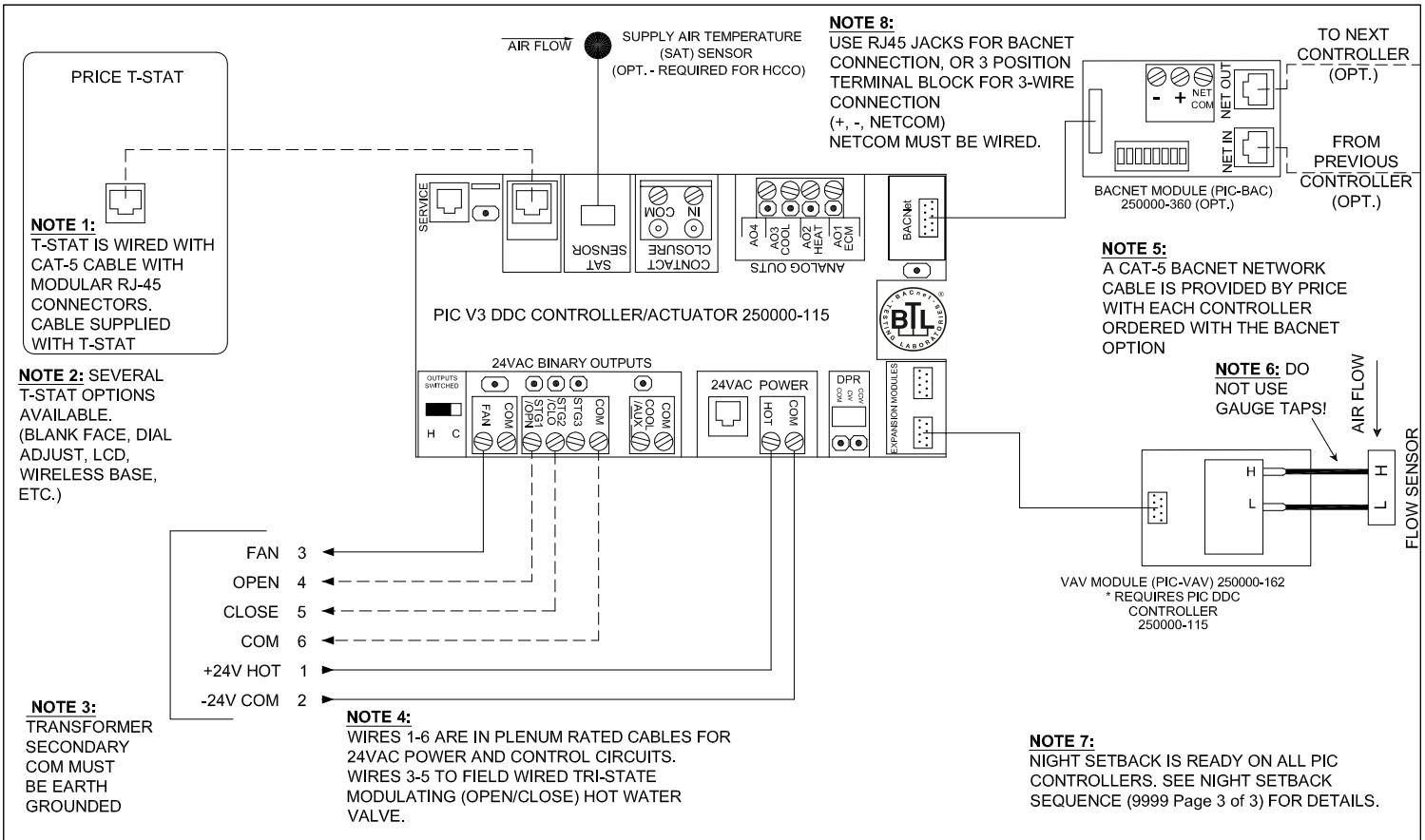
Reheat Operation: On a decrease in space temperature into the heating proportional band, the 1st stage binary 24VAC reheat output will energize. Upon futher decreases, the 2nd then 3rd stages of reheat (if used) will energize.

PROJECT:		
ENGINEER:	BC MB	**FAN POWERED VARIABLE VOLUME PARALLEL FLOW** V.V. PRESSURE INDEPENDENT HEAT/COOL C/O OR COOLING WITH UP TO 3 STG BINARY REHEAT FIELD WIRED
CUSTOMER:	249519	
SUBMITTAL DATE:	**SPEC. SYMBOL:** 2017/08/11	

REV F

FAN POWERED VARIABLE VOLUME PARALLEL FLOW

Control Sequence Number 8803



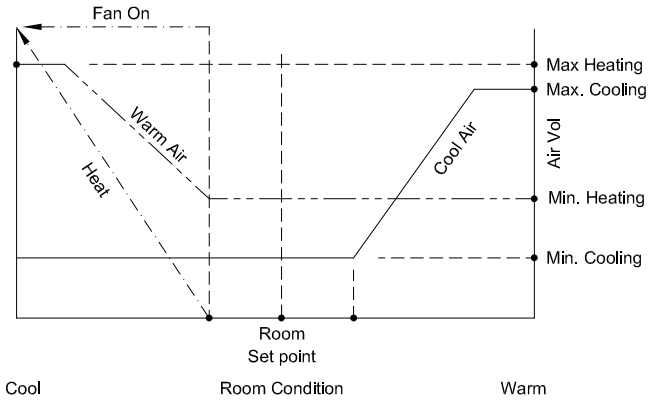
LEGEND

FACTORY FLOW SENSOR TUBING

FACTORY ELECTRICAL WIRING

FIELD ELECTRICAL WIRING

CONTROL GRAPH



Sequence of Operation – Variable Volume Heat/cool changeover OR Cooling With Tri-State modulating HW reheat - Pressure Independent

On power up the damper will calibrate closed for 2 minutes.

If no SAT sensor is present, controller assumes Cool supply air at all times

Cool supply air: On an increase in space temperature the controller regulates the actuator to open the VAV damper and increase the flow of cool air. On an increase of space temperature greater than the cooling proportional band, the airflow is maintained at its pre-selected maximum setting.

On a decrease in space temperature the controller regulates the actuator to close the VAV damper and reduce the flow of cool air. If the space temperature decreases to less than the cooling proportional band, the airflow is maintained at the pre-selected minimum setting.

Warm supply air: On a decrease in space temperature the controller regulates the actuator to open the VAV damper and increase the flow of warm air. On a decrease of space temperature greater than the heating proportional band, the airflow is maintained at its pre-selected maximum setting.

On an increase in space temperature the controller regulates the actuator to close the VAV damper and reduce the flow of warm air. If the space temperature increases above the heating proportional band, the airflow is maintained at the pre-selected minimum setting.

Fan Operation: On a decrease in space temperature into the heating proportional band, the unit fan will energize.

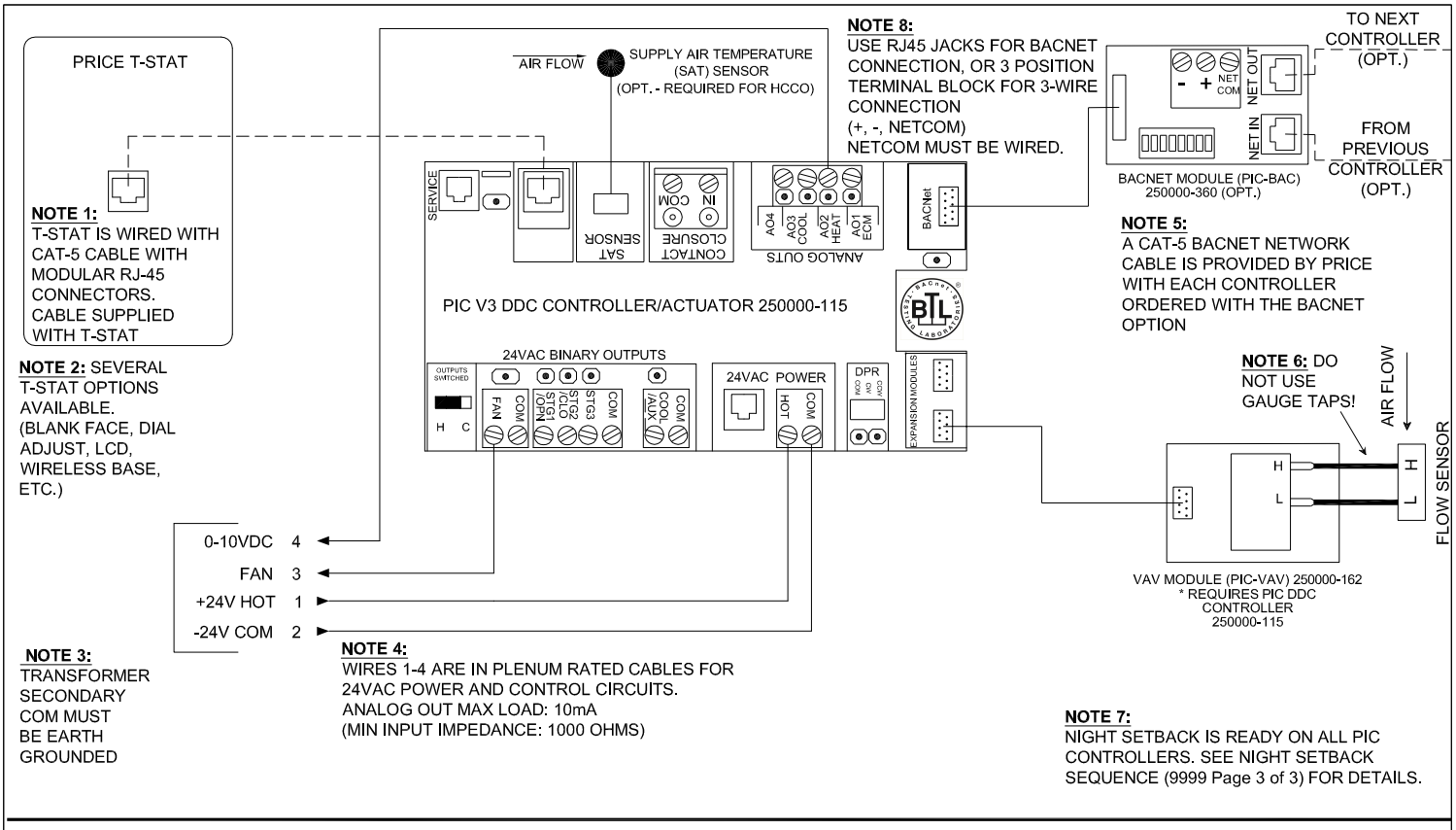
Reheat Operation: On a decrease in space temperature, the heating valve is modulated to increase heat proportionally to the room demand.

PROJECT:		
ENGINEER:	BC MB	**FAN POWERED VARIABLE VOLUME PARALLEL FLOW** V.V. PRESSURE INDEPENDENT HEAT/COOL C/O OR COOLING WITH TRI-STATE MODULATING HOT WATER REHEAT, FIELD WIRED
CUSTOMER:	249520	
SUBMITTAL DATE: / **SPEC. SYMBOL:**	2017/08/11	

REV F

FAN POWERED TERMINAL VARIABLE VOLUME PARALLEL FLOW

Control Sequence Number 8804



Calibration note: Suitable min and max heating flows must be selected in order to maintain flow through energized electric coils of at least 200 fpm and at least 70 cfm/kW throughout the entire operating range.

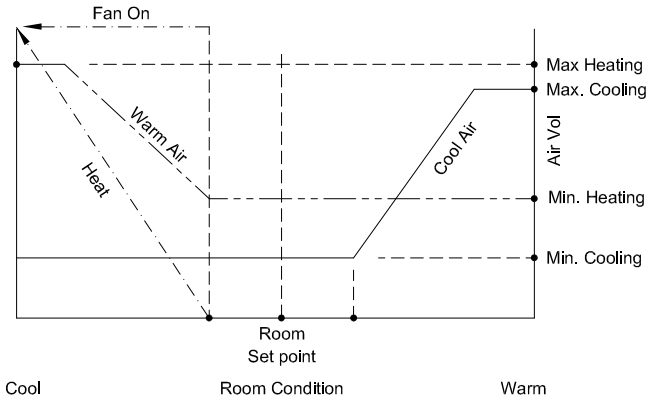
LEGEND

FACTORY FLOW SENSOR TUBING

FACTORY ELECTRICAL WIRING

FIELD ELECTRICAL WIRING

CONTROL GRAPH



Sequence of Operation -- Variable Volume Heat/cool changeover OR Cooling With Analog modulating reheat - Pressure Independent

On power up the damper will calibrate closed for 2 minutes.

If no SAT sensor is present, controller assumes Cool supply air at all times

Cool supply air: On an increase in space temperature the controller regulates the actuator to open the VAV damper and increase the flow of cool air. On an increase of space temperature greater than the cooling proportional band, the airflow is maintained at its pre-selected maximum setting.

On a decrease in space temperature the controller regulates the actuator to close the VAV damper and reduce the flow of cool air. If the space temperature decreases to less than the cooling proportional band, the airflow is maintained at the pre-selected minimum setting.

Warm supply air: On a decrease in space temperature the controller regulates the actuator to open the VAV damper and increase the flow of warm air. On a decrease of space temperature greater than the heating proportional band, the airflow is maintained at its pre-selected maximum setting.

On an increase in space temperature the controller regulates the actuator to close the VAV damper and reduce the flow of warm air. If the space temperature increases above the heating proportional band, the airflow is maintained at the pre-selected minimum setting.

Fan Operation: On a decrease in space temperature into the heating proportional band, the unit fan will energize.

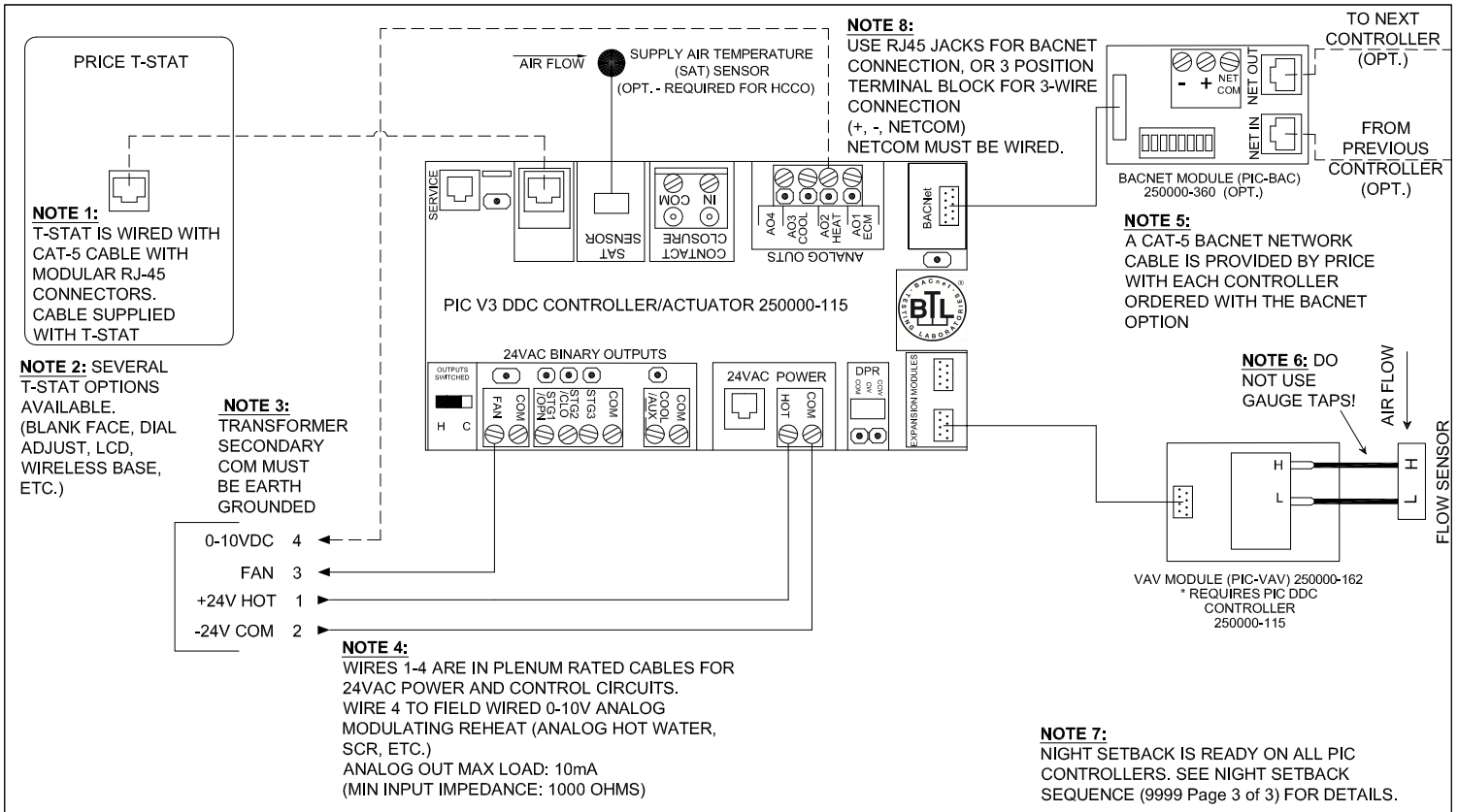
Reheat Operation: On a decrease in space temperature, the controller modulates the 0-10VDC ouput to increase heat proportionally to the room demand.

PROJECT:		
ENGINEER:		**FAN POWERED VARIABLE VOLUME PARALLEL FLOW** V.V. PRESSURE INDEPENDENT HEAT/COOL C/O OR COOLING WITH ANALOG ELECTRIC HEAT FACTORY WIRED
CUSTOMER:	249521	
SUBMITTAL DATE:	**SPEC. SYMBOL:** 2017/08/11	

REV F

FAN POWERED TERMINAL VARIABLE VOLUME PARALLEL FLOW

Control Sequence Number 8805



Calibration note: Suitable min and max heating flows must be selected in order to maintain flow through energized electric coils of at least 200 fpm and at least 70 cfm/kW throughout the entire operating range.

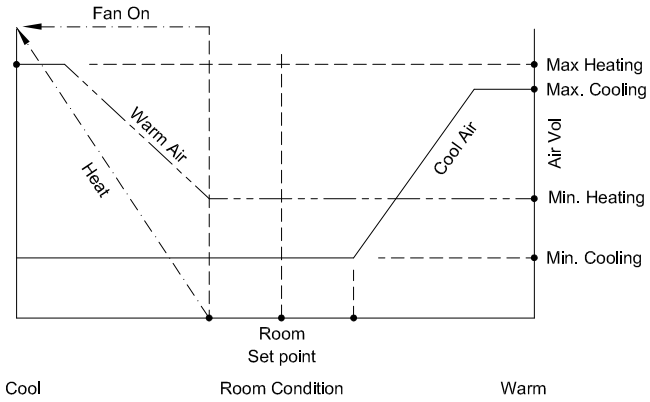
LEGEND

FACTORY FLOW SENSOR TUBING

FACTORY ELECTRICAL WIRING

FIELD ELECTRICAL WIRING

CONTROL GRAPH



Sequence of Operation -- Variable Volume Heat/cool changeover OR Cooling With Analog modulating reheat - Pressure Independent

On power up the damper will calibrate closed for 2 minutes.

If no SAT sensor is present, controller assumes Cool supply air at all times

Cool supply air: On an increase in space temperature the controller regulates the actuator to open the VAV damper and increase the flow of cool air. On an increase of space temperature greater than the cooling proportional band, the airflow is maintained at its pre-selected maximum setting.

On a decrease in space temperature the controller regulates the actuator to close the VAV damper and reduce the flow of cool air. If the space temperature decreases to less than the cooling proportional band, the airflow is maintained at the pre-selected minimum setting.

Warm supply air: On a decrease in space temperature the controller regulates the actuator to open the VAV damper and increase the flow of warm air. On a decrease of space temperature greater than the heating proportional band, the airflow is maintained at its pre-selected maximum setting.

On an increase in space temperature the controller regulates the actuator to close the VAV damper and reduce the flow of warm air. If the space temperature increases above the heating proportional band, the airflow is maintained at the pre-selected minimum setting.

Fan Operation: On a decrease in space temperature into the heating proportional band, the unit fan will energize.

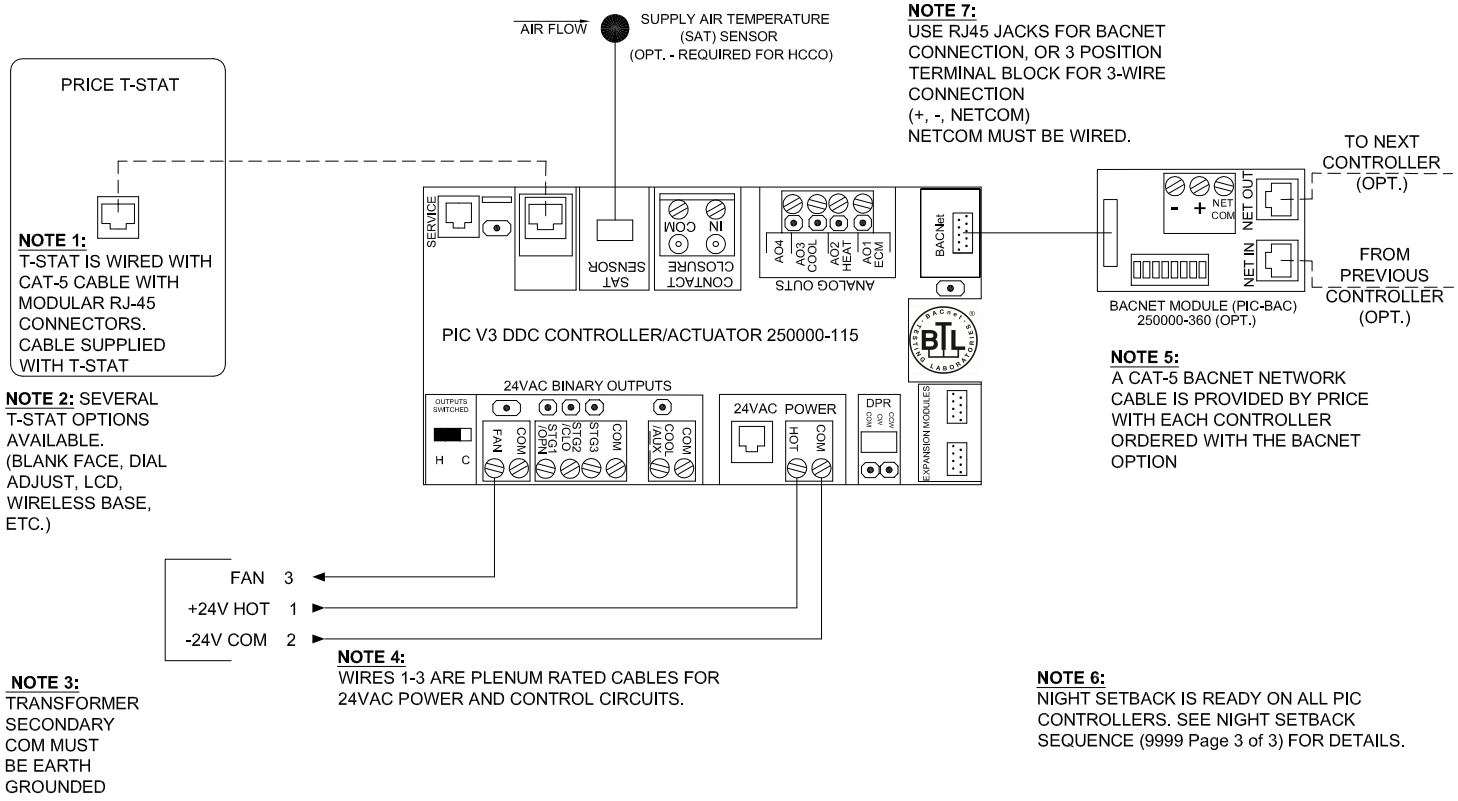
Reheat Operation: On a decrease in space temperature, the controller modulates the 0-10VDC ouput to increase heat proportionally to the room demand.

PROJECT:		PRICE
ENGINEER:	BC MB	**FAN POWERED VARIABLE VOLUME PARALLEL FLOW** V.V. PRESSURE INDEPENDENT HEAT/COOL C/O OR COOLING WITH ANALOG HEAT FIELD WIRED
CUSTOMER:	249522	
SUBMITTAL DATE:	**SPEC. SYMBOL:** 2017/08/11	

REV F

FAN POWERED TERMINAL VARIABLE VOLUME PARALLEL FLOW

Control Sequence Number 8850

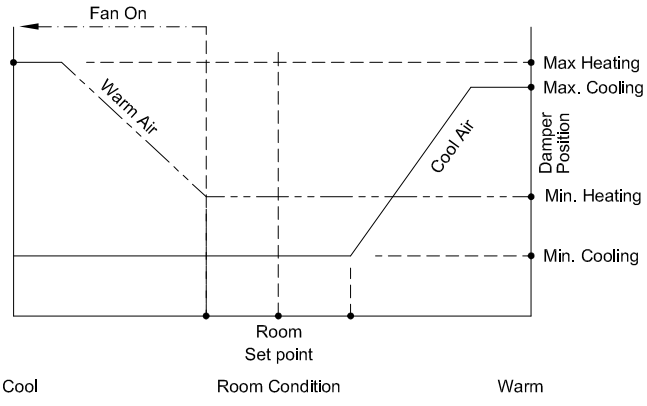


LEGEND

FACTORY ELECTRICAL WIRING

FIELD ELECTRICAL WIRING

CONTROL GRAPH



Sequence of Operation – Variable Volume Heat/cool changeover OR cooling only - Pressure Dependent

On power up the damper will calibrate closed for 2 minutes.
If no SAT sensor is present, controller assumes Cool supply air at all times

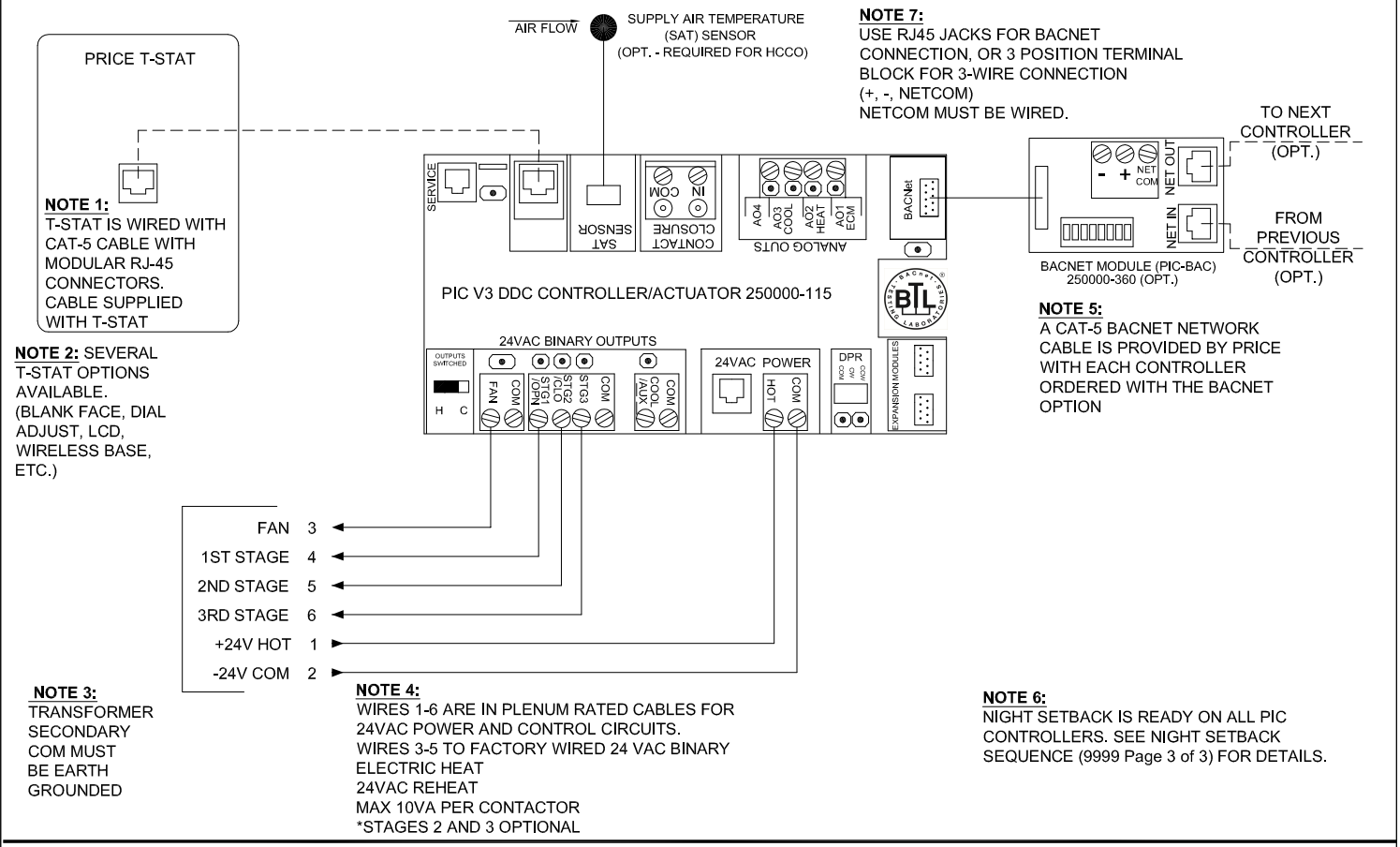
Cool supply air: On an increase in space temperature the controller regulates the actuator to open the air damper and increase the flow of cool air. On an increase of space temperature greater than the cooling proportional band, the damper position (%) is maintained at its pre-selected maximum setting.
On a decrease in space temperature the controller regulates the actuator to close the air damper and reduce the flow of cool air. If the space temperature decreases to less than the cooling proportional band, the damper position (%) is maintained at the pre-selected minimum setting.
Warm supply air: On a decrease in space temperature the controller regulates the actuator to open the air damper and increase the flow of warm air. On a decrease of space temperature greater than the heating proportional band, the damper position (%) is maintained at its pre-selected maximum setting.
On an increase in space temperature the controller regulates the actuator to close the air damper and reduce the flow of warm air. If the space temperature increases above the heating proportional band, the damper position (%) is maintained at the pre-selected minimum setting.
Fan Operation: On a decrease in space temperature into the heating proportional band, the unit fan will energize.

PROJECT:			
ENGINEER:		BC MB	**FAN POWERED VARIABLE VOLUME PARALLEL FLOW** V.V. PRESSURE DEPENDENT HEAT/COOL CHANGEOVER OR COOLING ONLY NO LOCAL REHEAT CONTROL
CUSTOMER:		249523	
SUBMITTAL DATE:	**SPEC. SYMBOL:**	2017/08/11	

REV F

FAN POWERED TERMINAL VARIABLE VOLUME PARALLEL FLOW

Control Sequence Number 8851



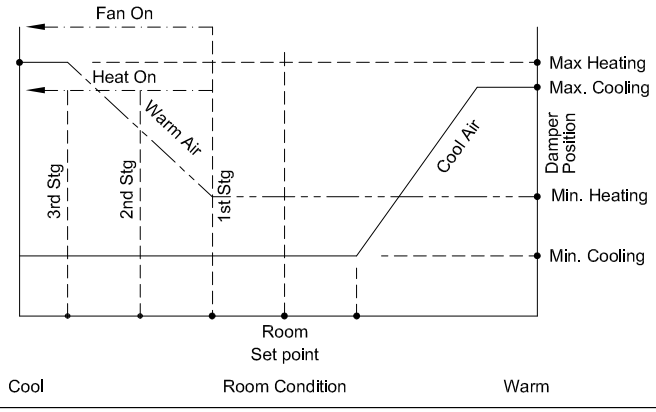
Calibration note: Suitable min and max heating flows must be selected in order to maintain flow through energized electric coils of at least 200 fpm and at least 70 cfm/kW throughout the entire operating range.

LEGEND

FACTORY ELECTRICAL WIRING

FIELD ELECTRICAL WIRING

CONTROL GRAPH



Sequence of Operation -- Variable Volume Heat/cool changeover OR cooling With up to 3 stage binary reheat - Pressure Dependent

On power up the damper will calibrate closed for 2 minutes.

If no SAT sensor is present, controller assumes Cool supply air at all times

Cool supply air: On an increase in space temperature the controller regulates the actuator to open the air damper and increase the flow of cool air. On an increase of space temperature greater than the cooling proportional band, the damper position (%) is maintained at its pre-selected maximum setting.

On a decrease in space temperature the controller regulates the actuator to close the air damper and reduce the flow of cool air. If the space temperature decreases to less than the cooling proportional band, the damper position (%) is maintained at the pre-selected minimum setting.

Warm supply air: On a decrease in space temperature the controller regulates the actuator to open the air damper and increase the flow of warm air. On a decrease of space temperature greater than the heating proportional band, the damper position (%) is maintained at its pre-selected maximum setting.

On an increase in space temperature the controller regulates the actuator to close the air damper and reduce the flow of warm air. If the space temperature increases above the heating proportional band, the damper position (%) is maintained at the pre-selected minimum setting.

Fan Operation: On a decrease in space temperature into the heating proportional band, the unit fan will energize.

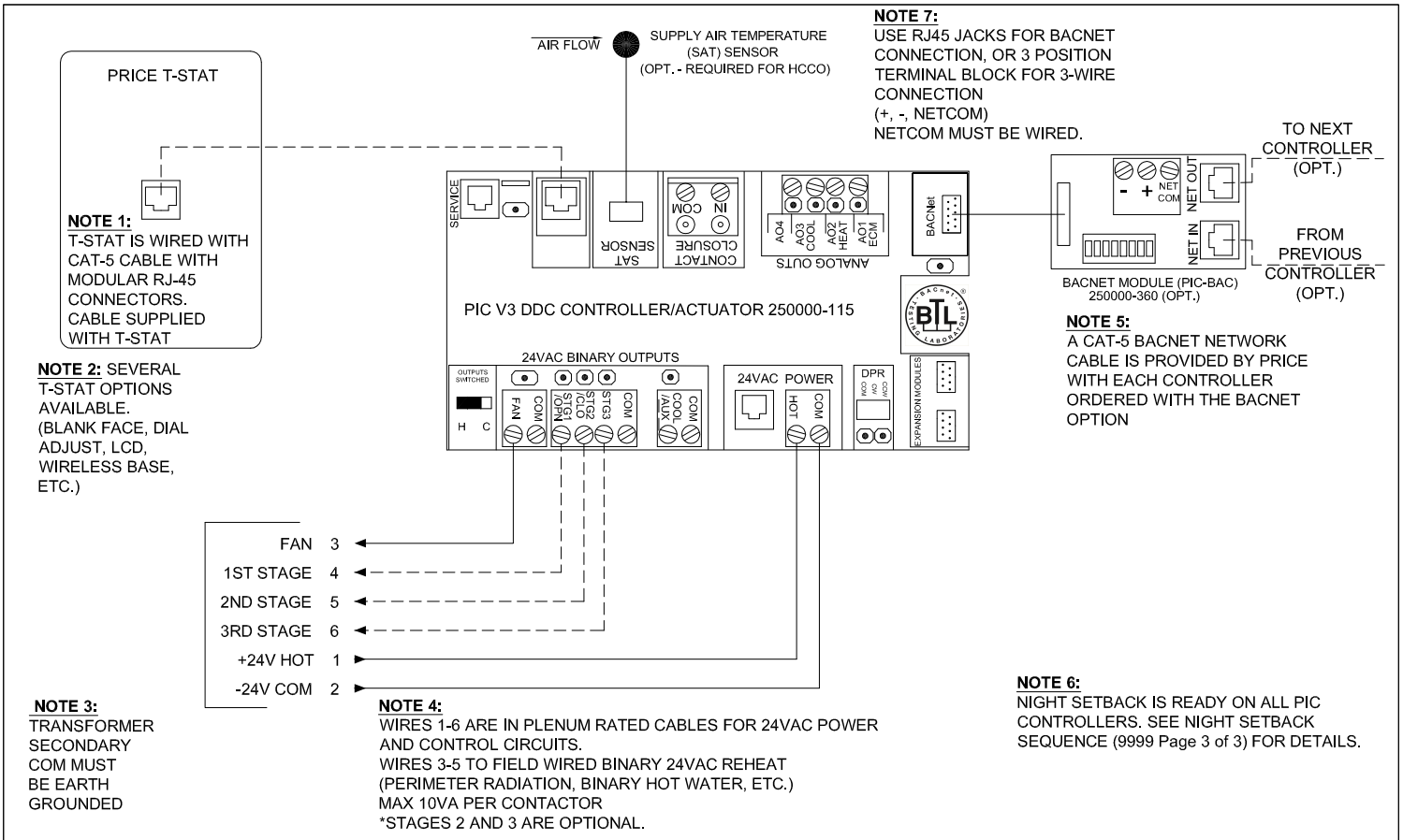
Reheat Operation: On a decrease in space temperature into the heating proportional band, the 1st stage binary 24VAC reheat output will energize. Upon futher decreases, the 2nd then 3rd stages of reheat (if used) will energize.

PROJECT:		
ENGINEER:		**FAN POWERED VARIABLE VOLUME PARALLEL FLOW** V.V. PRESSURE DEPENDENT HEAT/COOL C/O COOLING WITH UP TO 3 STG BINARY REHEAT FACTORY WIRED
CUSTOMER:	249524	
SUBMITTAL DATE:	**SPEC. SYMBOL:** 2017/08/11	

REV F

FAN POWERED TERMINAL VARIABLE VOLUME PARALLEL FLOW

Control Sequence Number 8852



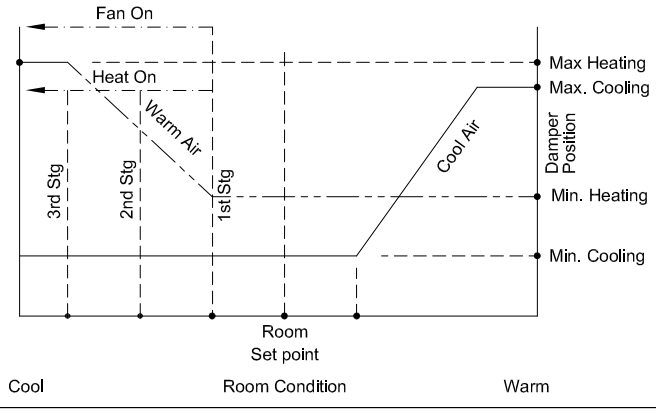
Calibration note: Suitable min and max heating flows must be selected in order to maintain flow through energized electric coils of at least 200 fpm and at least 70 cfm/kW throughout the entire operating range.

LEGEND

FACTORY ELECTRICAL WIRING

FIELD ELECTRICAL WIRING

CONTROL GRAPH



Sequence of Operation -- Variable Volume Heat/cool changeover OR cooling With up to 3 stage binary reheat - Pressure Dependent

On power up the damper will calibrate closed for 2 minutes.

If no SAT sensor is present, controller assumes Cool supply air at all times

Cool supply air: On an increase in space temperature the controller regulates the actuator to open the air damper and increase the flow of cool air. On an increase of space temperature greater than the cooling proportional band, the damper position (%) is maintained at its pre-selected maximum setting.

On a decrease in space temperature the controller regulates the actuator to close the air damper and reduce the flow of cool air. If the space temperature decreases to less than the cooling proportional band, the damper position (%) is maintained at the pre-selected minimum setting.

Warm supply air: On a decrease in space temperature the controller regulates the actuator to open the air damper and increase the flow of warm air. On a decrease of space temperature greater than the heating proportional band, the damper position (%) is maintained at its pre-selected maximum setting.

On an increase in space temperature the controller regulates the actuator to close the air damper and reduce the flow of warm air. If the space temperature increases above the heating proportional band, the damper position (%) is maintained at the pre-selected minimum setting.

Fan Operation: On a decrease in space temperature into the heating proportional band, the unit fan will energize.

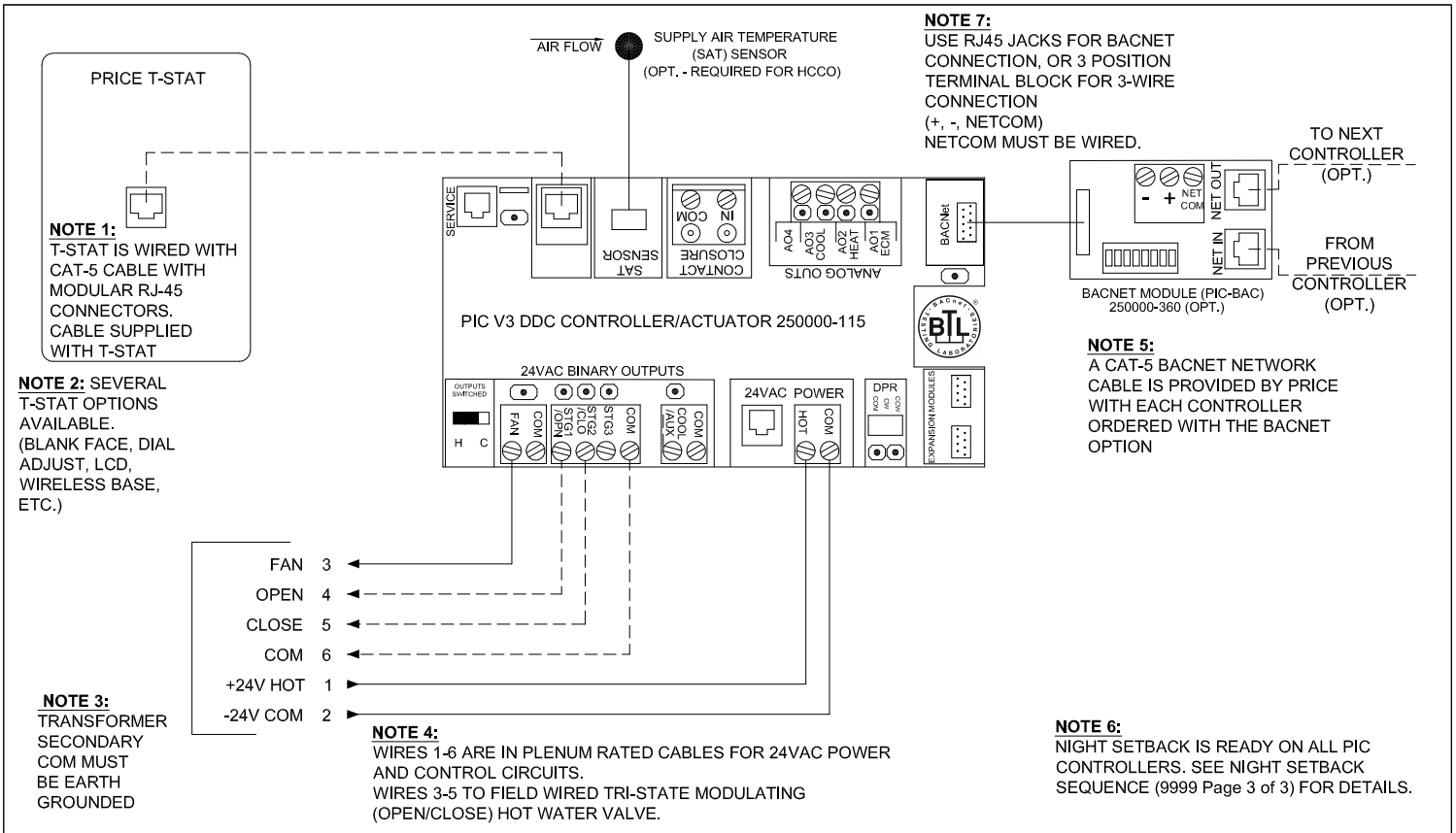
Reheat Operation: On a decrease in space temperature into the heating proportional band, the 1st stage binary 24VAC reheat output will energize. Upon futher decreases, the 2nd then 3rd stages of reheat (if used) will energize.

PROJECT:		
ENGINEER:		**FAN POWERED VARIABLE VOLUME PARALLEL FLOW** V.V. PRESSURE DEPENDENT HEAT/COOL C/O COOLING WITH UP TO 3 STG BINARY REHEAT FIELD WIRED
CUSTOMER:	249525	
SUBMITTAL DATE: **SPEC. SYMBOL:**	2017/08/11	

REV F

FAN POWERED TERMINAL VARIABLE VOLUME PARALLEL FLOW

Control Sequence Number 8853

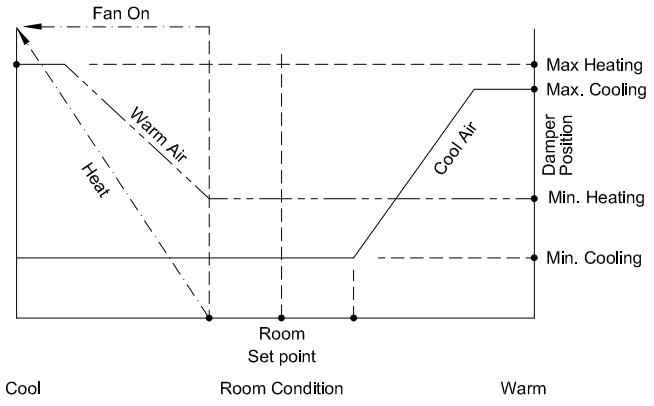


LEGEND

FACTORY ELECTRICAL WIRING

FIELD ELECTRICAL WIRING

CONTROL GRAPH



Sequence of Operation -- Variable Volume Heat/cool changeover OR Cooling With Tri-State modulating HW reheat - Pressure Dependent

On power up the damper will calibrate closed for 2 minutes.
If no SAT sensor is present, controller assumes Cool supply air at all times

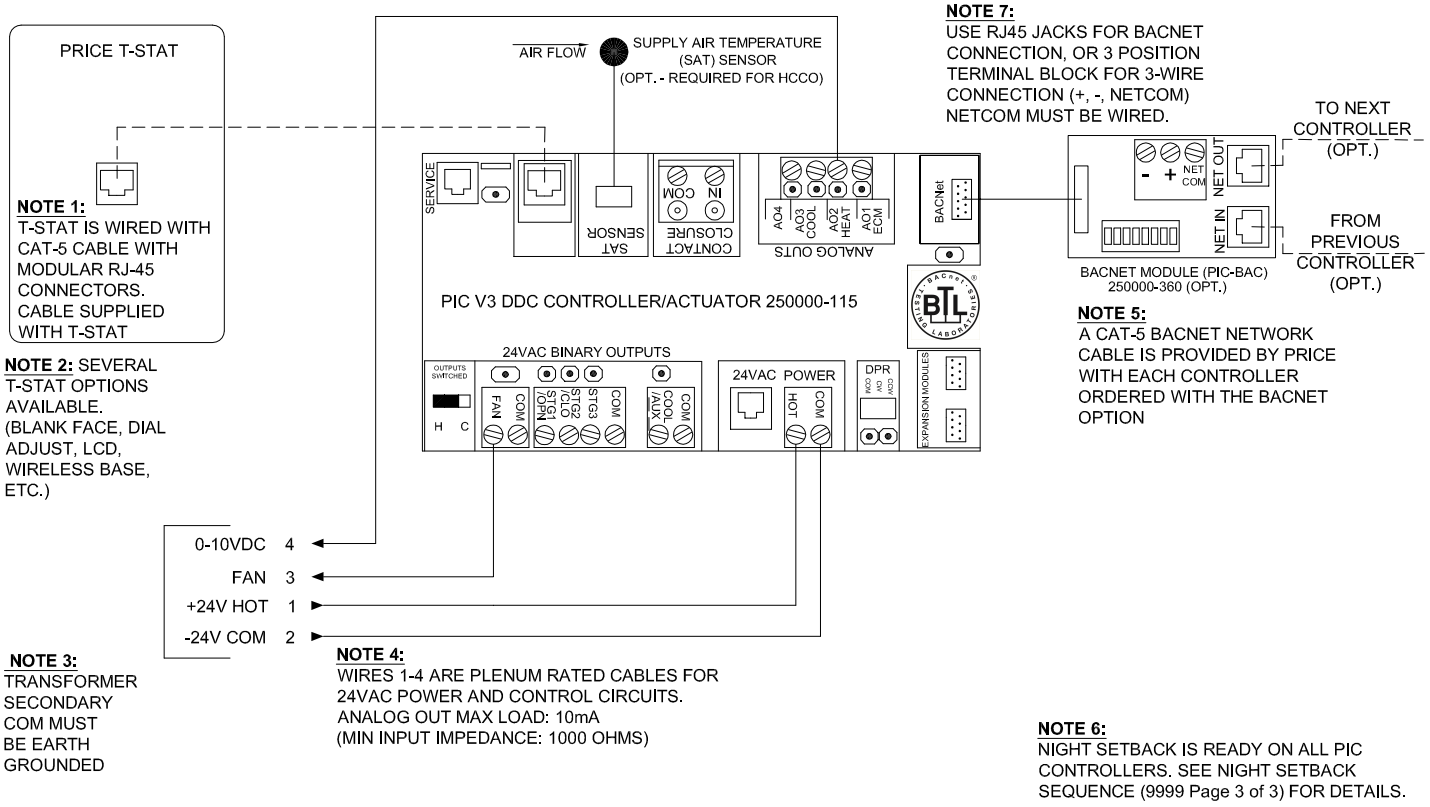
Cool supply air: On an increase in space temperature the controller regulates the actuator to open the air damper and increase the flow of cool air. On an increase of space temperature greater than the cooling proportional band, the damper position (%) is maintained at its pre-selected maximum setting.
On a decrease in space temperature the contoller regulates the actuator to close the air damper and reduce the flow of cool air. If the space temperature decreases to less than the cooling proportional band, the damper position (%) is maintained at the pre-selected minimum setting.
Warm supply air: On a decrease in space temperature the controller regulates the actuator to open the air damper and increase the flow of warm air. On a decrease of space temperature greater than the heating proportional band, the damper position (%) is maintained at its pre-selected maximum setting.
On an increase in space temperature the controller regulates the actuator to close the air damper and reduce the flow of warm air. If the space temperature increases above the heating proportional band, the damper position (%) is maintained at the pre-selected minimum setting.
Fan Operation: On a decrease in space temperature into the heating proportional band, the unit fan will energize.
Reheat Operation: On a decrease in space temperature, the heating valve is modulated to increase heat proportionally to the room demand.

PROJECT:		
ENGINEER:	BC MB	**FAN POWERED VARIABLE VOLUME PARALLEL FLOW** V.V. PRESSURE DEPENDENT HEAT/COOL C/O OR COOLING WITH TRI-STATE MODULATING HOT WATER REHEAT, FIELD WIRED
CUSTOMER:	249526	
SUBMITTAL DATE:	2017/08/11	
SPEC. SYMBOL:		

REV F

FAN POWERED TERMINAL VARIABLE VOLUME PARALLEL FLOW

Control Sequence Number 8854



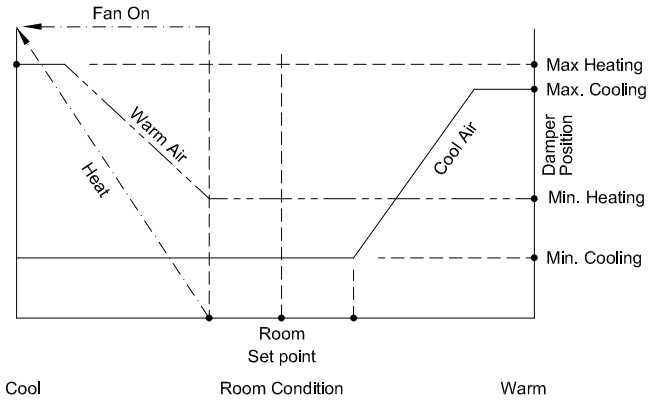
Calibration note: Suitable min and max heating flows must be selected in order to maintain flow through energized electric coils of at least 200 fpm and at least 70 cfm/kW throughout the entire operating range.

LEGEND

FACTORY ELECTRICAL WIRING

FIELD ELECTRICAL WIRING

CONTROL GRAPH



Sequence of Operation -- Variable Volume Heat/cool changeover OR Cooling With Analog modulating reheat - Pressure Dependent

On power up the damper will calibrate closed for 2 minutes.

If no SAT sensor is present, controller assumes Cool supply air at all times

Cool supply air: On an increase in space temperature the controller regulates the actuator to open the air damper and increase the flow of cool air. On an increase of space temperature greater than the cooling proportional band, the damper position (%) is maintained at its pre-selected maximum setting.

On a decrease in space temperature the controller regulates the actuator to close the air damper and reduce the flow of cool air. If the space temperature decreases to less than the cooling proportional band, the damper position (%) is maintained at the pre-selected minimum setting.

Warm supply air: On a decrease in space temperature the controller regulates the actuator to open the air damper and increase the flow of warm air. On a decrease of space temperature greater than the heating proportional band, the damper position (%) is maintained at its pre-selected maximum setting.

On an increase in space temperature the controller regulates the actuator to close the air damper and reduce the flow of warm air. If the space temperature increases above the heating proportional band, the damper position (%) is maintained at the pre-selected minimum setting.

Fan Operation: On a decrease in space temperature into the heating proportional band, the unit fan will energize.

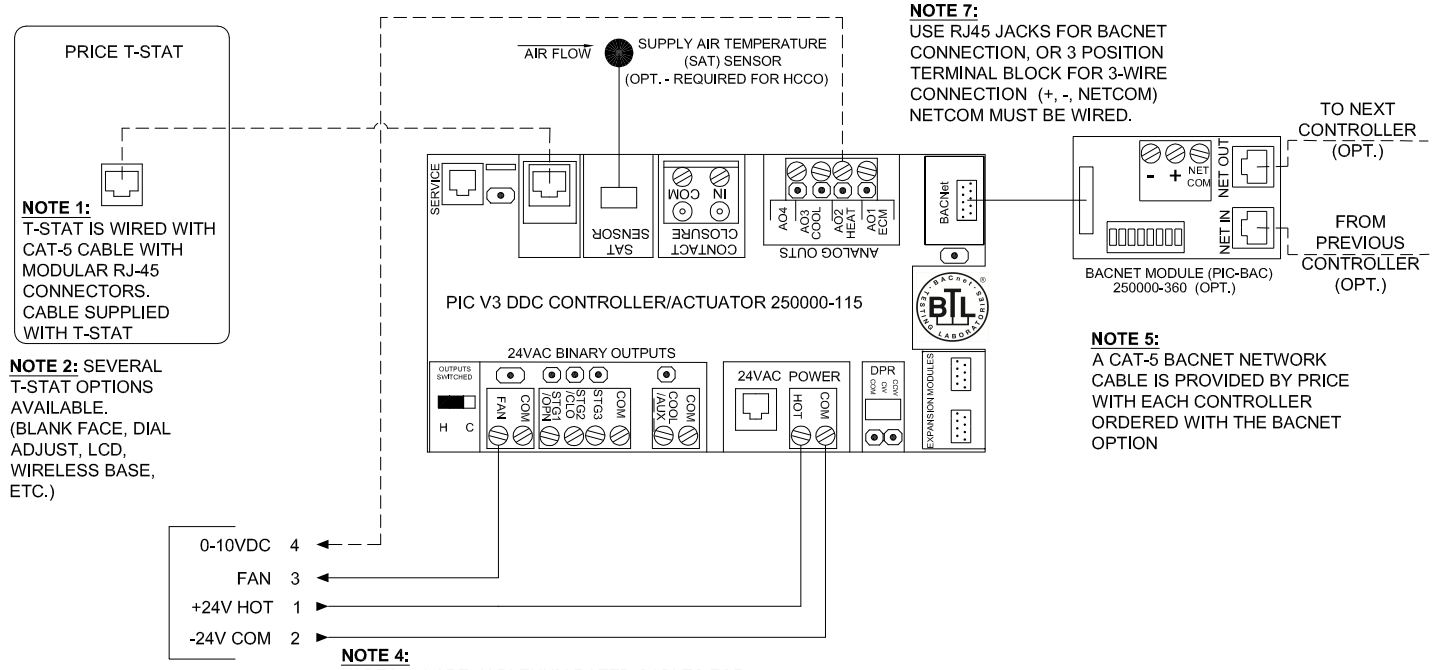
Reheat Operation: On a decrease in space temperature, the controller modulates the 0-10VDC ouput to increase heat proportionally to the room demand.

PROJECT:		
ENGINEER:	BC MB	**FAN POWERED VARIABLE VOLUME PARALLEL FLOW** V.V. PRESSURE DEPENDENT HEAT/COOL C/O COOLING WITH ANALOG ELECTRIC HEAT FACTORY WIRED
CUSTOMER:	249527	
SUBMITTAL DATE: **SPEC. SYMBOL:**	2017/08/11	

REV F

FAN POWERED TERMINAL VARIABLE VOLUME PARALLEL FLOW

Control Sequence Number 8855



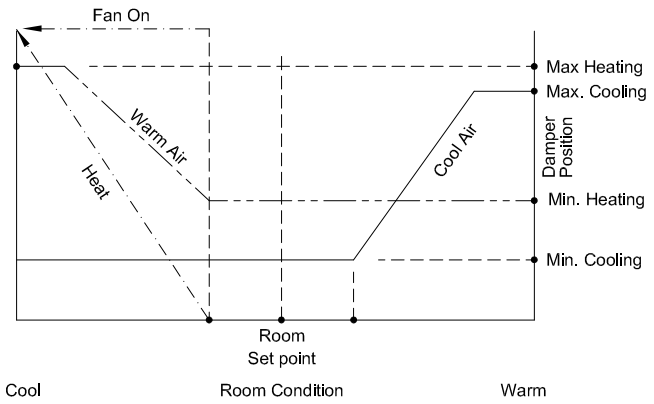
Calibration note: Suitable min and max heating flows must be selected in order to maintain flow through energized electric coils of at least 200 fpm and at least 70 cfm/kW throughout the entire operating range.

LEGEND

FACTORY ELECTRICAL WIRING

FIELD ELECTRICAL WIRING

CONTROL GRAPH



Sequence of Operation -- Variable Volume Heat/cool changeover OR Cooling With Analog modulating reheat - Pressure Dependent

On power up the damper will calibrate closed for 2 minutes.

If no SAT sensor is present, controller assumes Cool supply air at all times

Cool supply air: On an increase in space temperature the controller regulates the actuator to open the air damper and increase the flow of cool air. On an increase of space temperature greater than the cooling proportional band, the damper position (%) is maintained at its pre-selected maximum setting.

On a decrease in space temperature the controller regulates the actuator to close the air damper and reduce the flow of cool air. If the space temperature decreases to less than the cooling proportional band, the damper position (%) is maintained at the pre-selected minimum setting.

Warm supply air: On a decrease in space temperature the controller regulates the actuator to open the air damper and increase the flow of warm air. On a decrease of space temperature greater than the heating proportional band, the damper position (%) is maintained at its pre-selected maximum setting.

On an increase in space temperature the controller regulates the actuator to close the air damper and reduce the flow of warm air. If the space temperature increases above the heating proportional band, the damper position (%) is maintained at the pre-selected minimum setting.

Fan Operation: On a decrease in space temperature into the heating proportional band, the unit fan will energize.

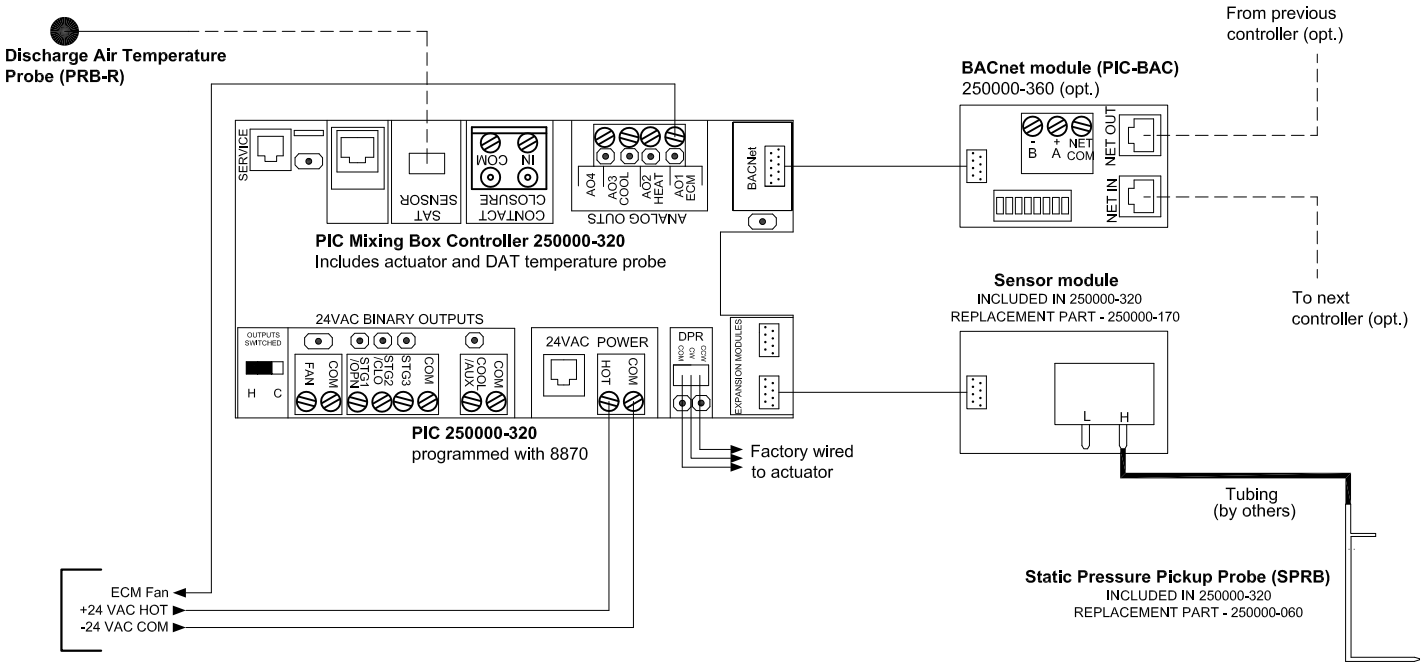
Reheat Operation: On a decrease in space temperature, the controller modulates the 0-10VDC ouput to increase heat proportionally to the room demand.

PROJECT:		
ENGINEER:	BC MB	**FAN POWERED VARIABLE VOLUME PARALLEL FLOW** V.V. PRESSURE DEPENDENT HEAT/COL C/O OR COOLING WITH ANALOG HEAT FIELD WIRED
CUSTOMER:	249528	
SUBMITTAL DATE: **SPEC. SYMBOL:**	2017/08/11	

REV F

FAN POWERED DIGITAL CONTROLS

Control Sequence Number 1560

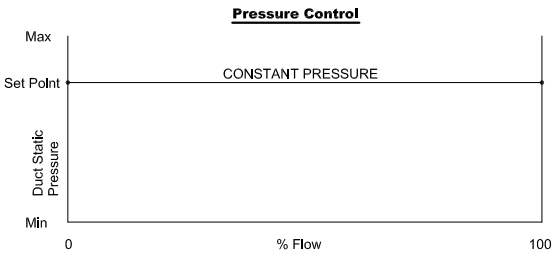


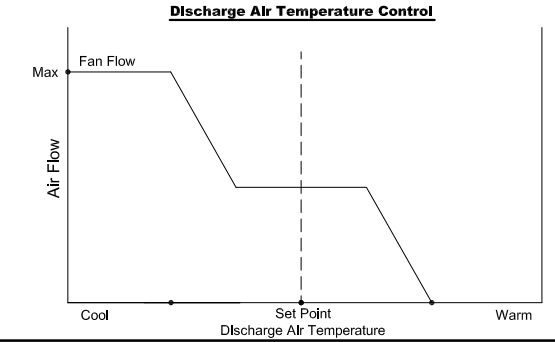
LEGEND

- FLOW SENSOR TUBING
- FACTORY ELECTRICAL WIRING
- FIELD ELECTRICAL WIRING

NOTE 1:
Static pressure set point is facotry calibrated to 0.3" W.C. It can be changed in the field using either:
1. BACnet front end
2. Price USB ***LINKER*** interface
3. ***LCD-SETUP tool*** (or similar LCD T-stat)

NOTE 2:
Measure static pressure approx 2/3 of the way down the main duct. Low port (L) on the pressure sensor must not be obstructed.





Sequence of Operation -- Pressure Control with Discharge Air Temperature Control

On startup, the controller will calibrate to the fully-closed position for 2 minutes.

Pressure Control: On an increase in duct static pressure the controller will close the inlet damper to decrease the amount of air delivered downstream of the box. On a decrease in duct static pressure the controller will open the inlet damper to increase the amount of air delivered downstream of the box. Duct static pressure is held constant.

Upon detection of air handler shutdown (Zero duct pressure with VAV damper fully open), the controller/actuator will place the damper at the pre-selected setback position (default: 50% open)

Discharge Air Temperature (DAT) Control: When the DAT falls below the set point, the fan will speed up to increase the amount of return air as a first stage of heat control. On an increase in DAT above the set point, the fan will slow down to draw less return air.

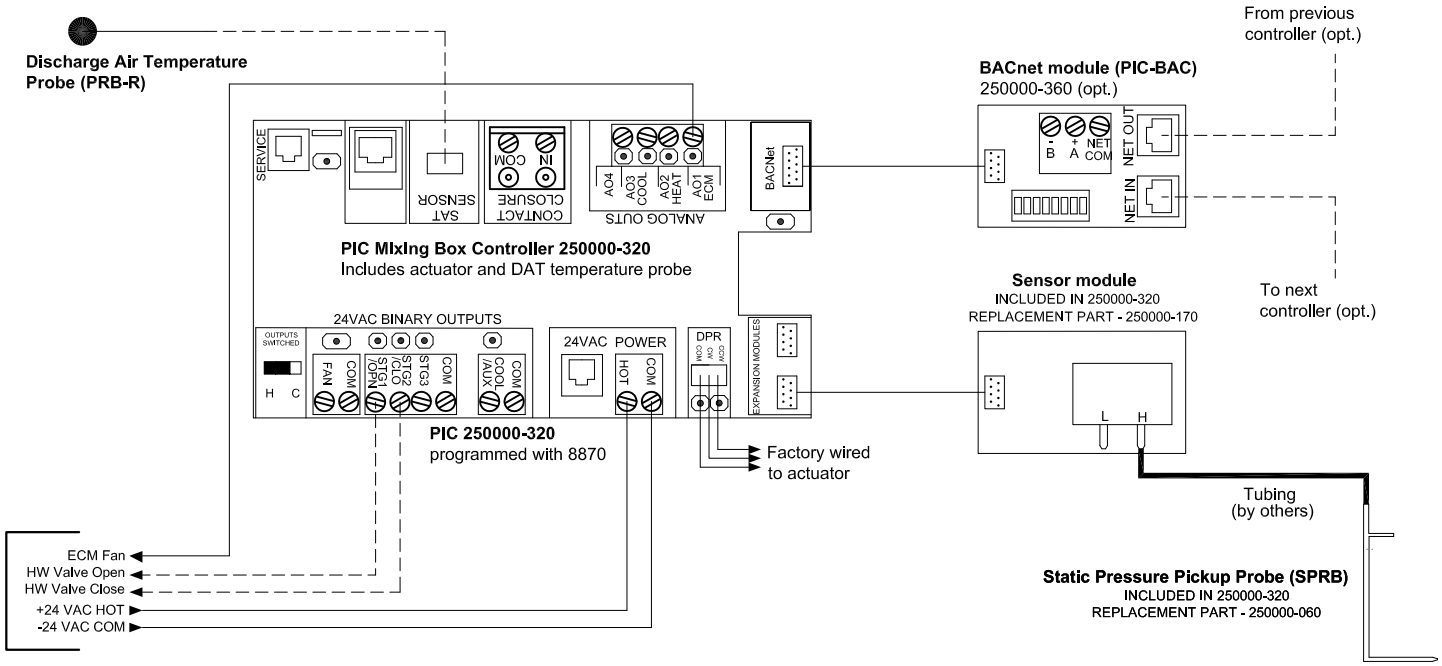
Note: Primary air must be cooler than the DAT set point because the controller can only add heat to the primary air.

PROJECT:			
ENGINEER:		BM AH	**FDV MIXING BOX PIC-MB** PRESSURE AND DAT CONTROL 1st STAGE REHEAT FAN
CUSTOMER:		260417	
SUBMITTAL DATE:	**SPEC. SYMBOL:**	2012/04/18	

REV 0

FAN POWERED DIGITAL CONTROLS

Control Sequence Number 1561

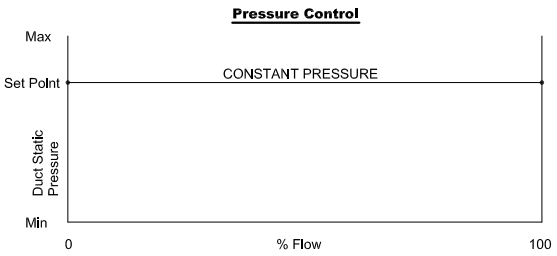


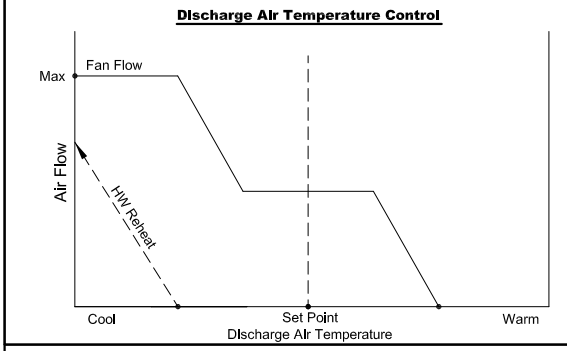
LEGEND

- FLOW SENSOR TUBING
- FACTORY ELECTRICAL WIRING
- FIELD ELECTRICAL WIRING

NOTE 1:
Static pressure set point is facotry calibrated to 0.3" W.C. It can be changed in the field using either:
1. BACnet front end
2. Price USB ***LINKER*** interface
3. ***LCD-SETUP tool*** (or similar LCD T-stat)

NOTE 2:
Measure static pressure approx 2/3 of the way down the main duct. Low port (L) on the pressure sensor must not be obstructed.





Sequence of Operation -- Pressure Control with Discharge Air Temperature Control

On startup, the controller will calibrate to the fully-closed position for 2 minutes.

Pressure Control: On an increase in duct static pressure the controller will close the inlet damper to decrease the amount of air delivered downstream of the box. On a decrease in duct static pressure the controller will open the inlet damper to increase the amount of air delivered downstream of the box. Duct static pressure is held constant.

Upon detection of air handler shutdown (Zero duct pressure with VAV damper fully open), the controller/actuator will place the damper at the pre-selected setback position (default: 50% open)

Discharge Air Temperature (DAT) Control: When the DAT falls below the set point, the fan will speed up to increase the amount of return air as a first stage of heat control. If the fan is at maximum speed and DAT is still below set point, a second stage of analog reheat will be activated and modulated. On an increase in DAT above the set point, the fan will slow down to draw less return air.

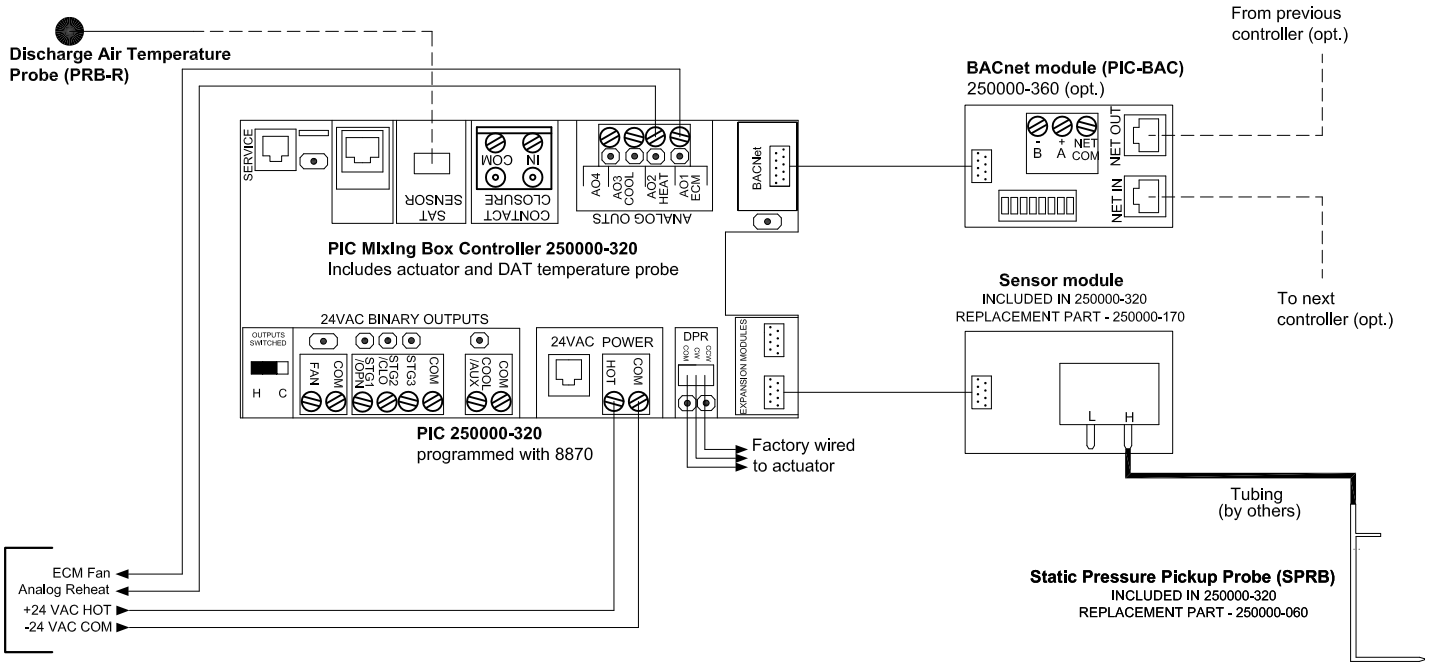
Note: Primary air must be cooler than the DAT set point because the controller can only add heat to the primary air.

PROJECT:			
ENGINEER:		BM JH	**FDV MIXING BOX PIC-MB** PRESSURE AND DAT CONTROL 1st STAGE REHEAT FAN 2nd STAGE TRISTATE HW REHEAT
CUSTOMER:		260418	
SUBMITTAL DATE:	**SPEC. SYMBOL:**	2012/04/18	

REV 0

FAN POWERED DIGITAL CONTROLS

Control Sequence Number 1562



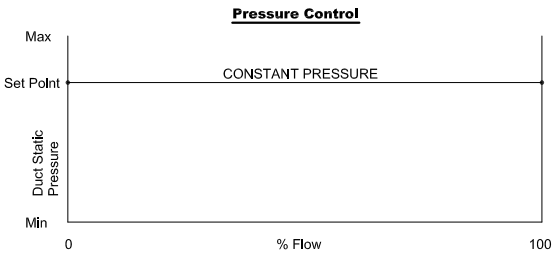
LEGEND

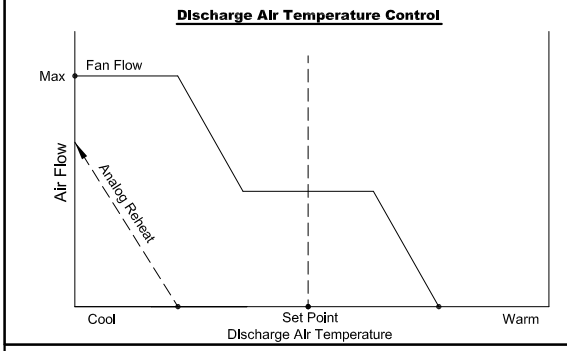
- FLOW SENSOR TUBING
- FACTORY ELECTRICAL WIRING
- FIELD ELECTRICAL WIRING

NOTE 1:
Static pressure set point is facotry calibrated to 0.3" W.C. It can be changed in the field using either:

1. BACnet front end
2. Price USB ***LINKER*** interface
3. ***LCD-SETUP tool*** (or similar LCD T-stat)

NOTE 2:
Measure static pressure approx 2/3 of the way down the main duct. Low port (L) on the pressure sensor must not be obstructed.





Sequence of Operation -- Pressure Control with Discharge Air Temperature Control

On startup, the controller will calibrate to the fully-closed position for 2 minutes.

Pressure Control: On an increase in duct static pressure the controller will close the inlet damper to decrease the amount of air delivered downstream of the box. On a decrease in duct static pressure the controller will open the inlet damper to increase the amount of air delivered downstream of the box. Duct static pressure is held constant.

Upon detection of air handler shutdown (Zero duct pressure with VAV damper fully open), the controller/actuator will place the damper at the pre-selected setback position (default: 50% open)

Discharge Air Temperature (DAT) Control: When the DAT falls below the set point, the fan will speed up to increase the amount of return air as a first stage of heat control. If the fan is at maximum speed and DAT is still below set point, a second stage of analog reheat will be activated and modulated. On an increase in DAT above the set point, the fan will slow down to draw less return air.

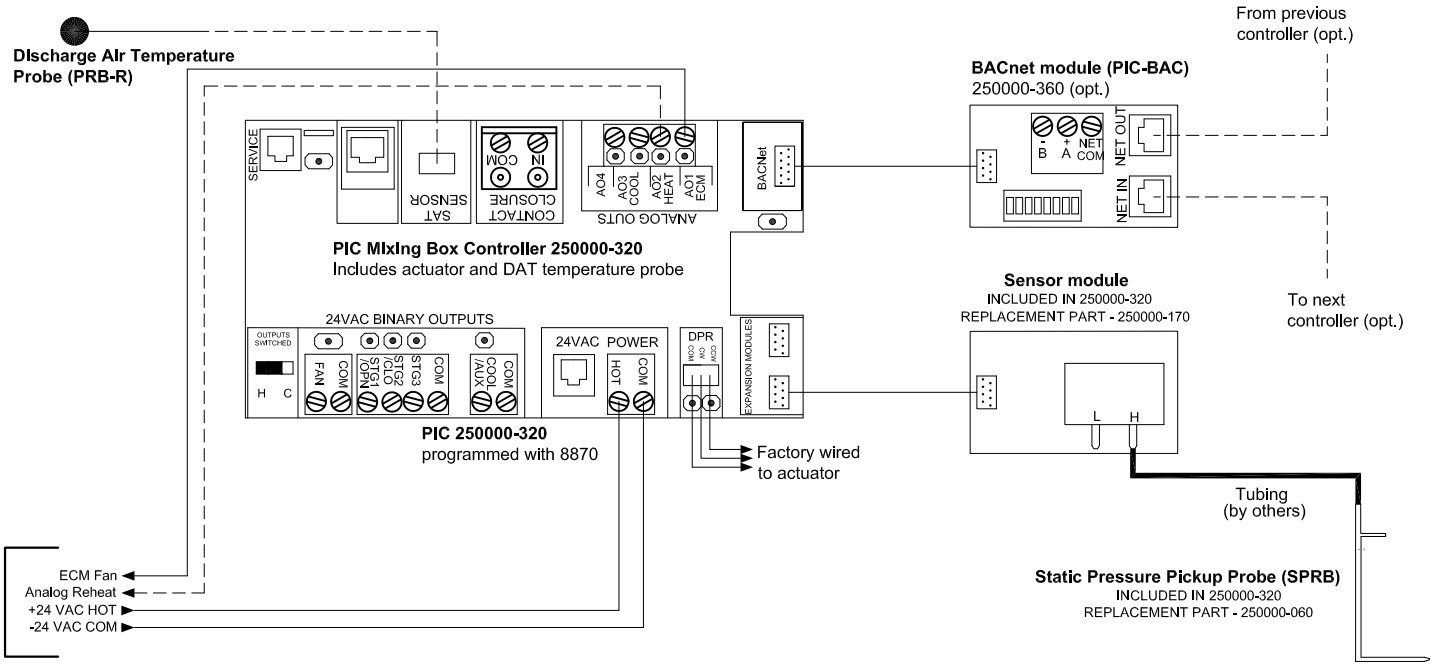
Note: Primary air must be cooler than the DAT set point because the controller can only add heat to the primary air.

PROJECT:			
ENGINEER:		BM JH	**FDV MIXING BOX PIC-MB** PRESSURE AND DAT CONTROL 1st STAGE REHEAT FAN 2nd STAGE ANALOG REHEAT/Factory
CUSTOMER:		260419	
SUBMITTAL DATE:	**SPEC. SYMBOL:**	2012/04/18	

REV 0

FAN POWERED DIGITAL CONTROLS

Control Sequence Number 1563

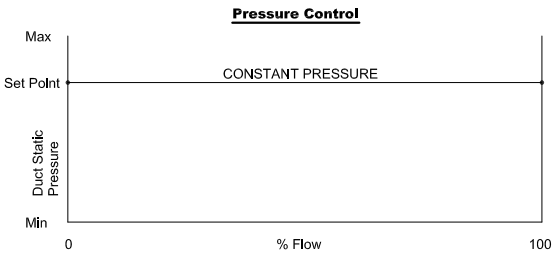


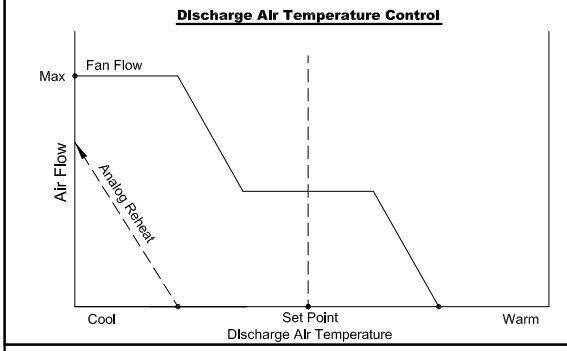
LEGEND

- FLOW SENSOR TUBING
- FACTORY ELECTRICAL WIRING
- FIELD ELECTRICAL WIRING

NOTE 1:
Static pressure set point is facotry calibrated to 0.3" W.C. It can be changed in the field using either:
1. BACnet front end
2. Price USB ***LINKER*** interface
3. ***LCD-SETUP tool*** (or similar LCD T-stat)

NOTE 2:
Measure static pressure approx 2/3 of the way down the main duct. Low port (L) on the pressure sensor must not be obstructed.





Sequence of Operation -- Pressure Control with Discharge Air Temperature Control

On startup, the controller will calibrate to the fully-closed position for 2 minutes.

Pressure Control: On an increase in duct static pressure the controller will close the inlet damper to decrease the amount of air delivered downstream of the box. On a decrease in duct static pressure the controller will open the inlet damper to increase the amount of air delivered downstream of the box. Duct static pressure is held constant.

Upon detection of air handler shutdown (Zero duct pressure with VAV damper fully open), the controller/actuator will place the damper at the pre-selected setback position (default: 50% open)

Discharge Air Temperature (DAT) Control: When the DAT falls below the set point, the fan will speed up to increase the amount of return air as a first stage of heat control. If the fan is at maximum speed and DAT is still below set point, a second stage of analog reheat will be activated and modulated. On an increase in DAT above the set point, the fan will slow down to draw less return air.

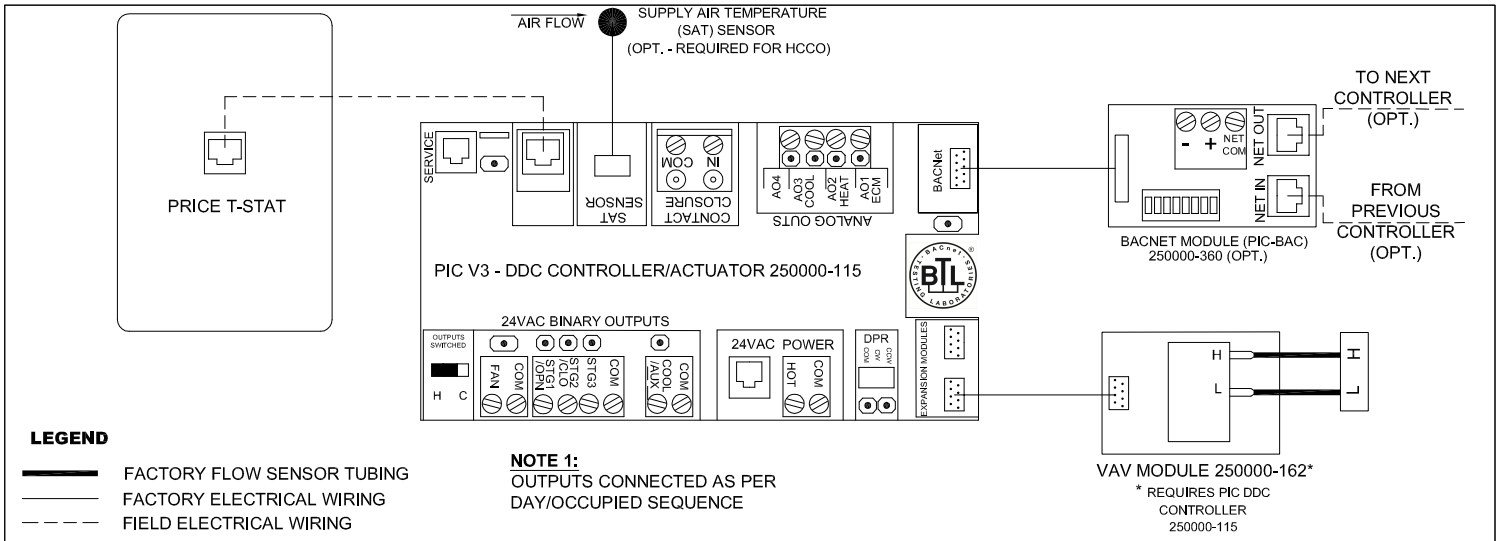
Note: Primary air must be cooler than the DAT set point because the controller can only add heat to the primary air.

PROJECT:			
ENGINEER:		BM JH	**FDV MIXING BOX PIC-MB** PRESSURE AND DAT CONTROL 1st STAGE REHEAT FAN 2nd STAGE ANALOG REHEAT/Field
CUSTOMER:		260420	
SUBMITTAL DATE:	**SPEC. SYMBOL:**	2012/04/18	

REV 0

VARIABLE VOLUME PARALLEL FLOW NIGHT SETBACK SEQUENCE

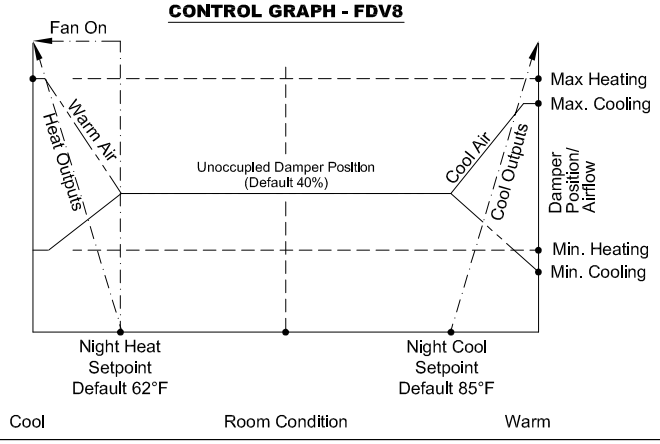
Control Sequence Number 9999



Entering and Exiting Night Setback: There are several methods for the PIC to enter and exit night setback (unoccupied mode). All of the following methods can be enabled or disabled in software or from the T-Stat menu.

1. **Airflow Failure:** (Disabled by default) If using a Pressure Independant day sequence (with the PIC-VAV module), the controller will enter night setback when minimal airflow is sensed in the duct. The controller does this based on Day Flow Trip and Night Flow Trip (adjustable).
   Day Flow Trip is enabled when the controller sees more than 1/2 of its minimum airflow - i.e. min airflow = 132 cfm, Day Flow Trip = 66 cfm.
   Night Flow Trip is enabled when the controller sees less than 1/2 of its day flow trip value - i.e. 33 cfm
2. **Motion Sensor:** (Disabled by default) If a motion sensor T-Stat is used, the controller can enter night setback if no motion has been detetected in the space for a specified period of time (default: 4 hours).
3. **Contact Closure:** (Disabled by default) Connecting the two contact closure inputs together using a dry contact will cause the controller to enter night setback. The controller will exit night setback once the contacts are released.
4. **T-Stat Button:** The T-Stat button allows the user to exit night setback. Pressing any button on the T-Stat will cause the controller to exit night setback for the override time period. (default: 4 hours). Occupancy override by T-Stat button is always enabled and cannot be disabled.

CONTROL GRAPH - FDV8



Sequence of Operation -- FAN POWERED VARIABLE VOLUME PARALLEL FLOW - PIC CONTROLLER - NIGHT SETBACK

During night setback, the controller will respond to its night heat setpoint and its night cool setpoint.
While the room temperature is between the two night setpoints, by default the controller will maintain the damper position at 40% open. All outputs (Fan, Heat, etc.) will go to their OFF or IDLE states.

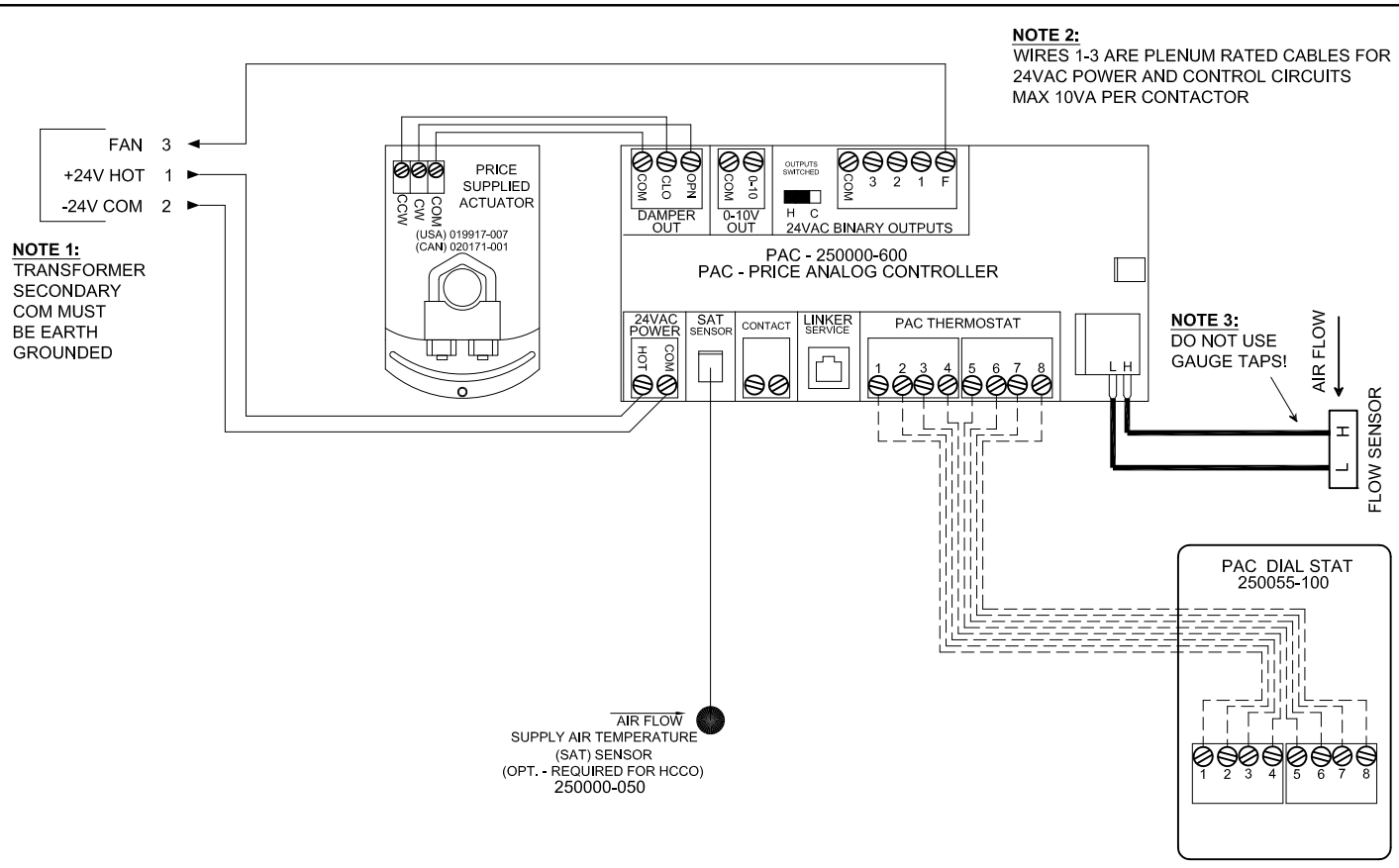
Room temperature below Night Heat Setpoint:
Fan Operation: On a decrease in space temperature into the heating proportional band, the unit fan will energize.
Reheat Operation: On a decrease in space temperature into the heating proportional band, the reheat outputs (if used) are energized proportionally.
Cool supply air: On a decrease in space temperature the controller regulates the actuator to close the VAV damper and reduce the flow of cool air. The airflow is maintained at the pre-selected minimum setting.
Warm supply air: On a decrease in space temperature the controller regulates the actuator to open the VAV damper and increase the flow of warm air. On a decrease of space temperature greater than the heating proportional band, the airflow is maintained at its pre-selected maximum setting.

Room temperature above Night Cool Setpoint:
Fan Operation: On an increase in space temperature into the cooling proportional band, the unit fan typically will not energize. It is possible to configure the controller to energize the fan if using cooling coils.
Cooling Output Operation: On an increase in space temperature into the cooling proportional band, the cooling outputs (if used) are energized proportionally.
Cool supply air: On an increase in space temperature the controller regulates the actuator to open the VAV damper and increase the flow of cool air. On an increase of space temperature greater than the cooling proportional band, the airflow is maintained at its pre-selected maximum setting.
Warm supply air: On an increase in space temperature the controller regulates the actuator to close the VAV damper and reduce the flow of warm air. The airflow is maintained at the pre-selected minimum setting.

PROJECT:		
ENGINEER:	BC MB	**FAN POWERED PARALLEL FLOW NIGHT SETBACK SEQUENCE** PIC - DDC CONTROLLER FDV8
CUSTOMER:	269252	
SUBMITTAL DATE: / **SPEC. SYMBOL:**	2017/11/22	

FAN POWERED DIGITAL CONTROLS

Control Sequence Number 7800



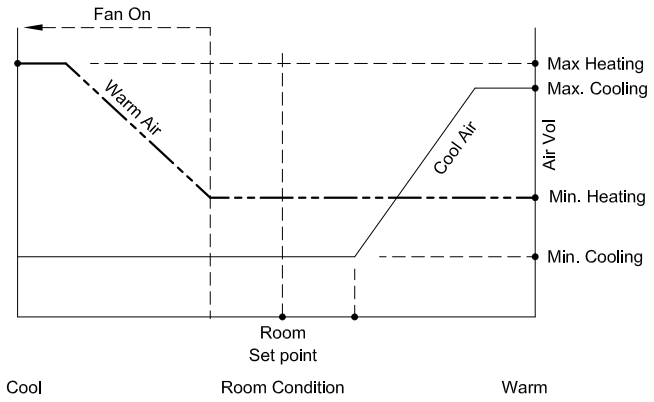
LEGEND

FACTORY FLOW SENSOR TUBING

FACTORY ELECTRICAL WIRING

FIELD ELECTRICAL WIRING

CONTROL GRAPH



Sequence of Operation -- Variable Volume Heat/cool changeover OR cooling only - Pressure Independent

On power up the damper will calibrate closed for 2 minutes.

If no SAT sensor is present, controller assumes Cool supply air at all times

Cool supply air: On an increase in space temperature the controller regulates the actuator to open the VAV damper and increase the flow of cool air. On an increase of space temperature greater than the cooling proportional band, the airflow is maintained at its pre-selected maximum flow setting.

On a decrease in space temperature the controller regulates the actuator to close the VAV damper and reduce the flow of cool air. If the space temperature decreases to less than the cooling proportional band, the airflow is maintained at the pre-selected minimum flow setting.

Warm supply air: On a decrease in space temperature the controller regulates the actuator to open the VAV damper and increase the flow of warm air. On a decrease of space temperature greater than the heating proportional band, the airflow is maintained at its pre-selected maximum flow setting.

On an increase in space temperature the controller regulates the actuator to close the VAV damper and reduce the flow of warm air. If the space temperature increases above the heating proportional band, the airflow is maintained at the pre-selected minimum flow setting.

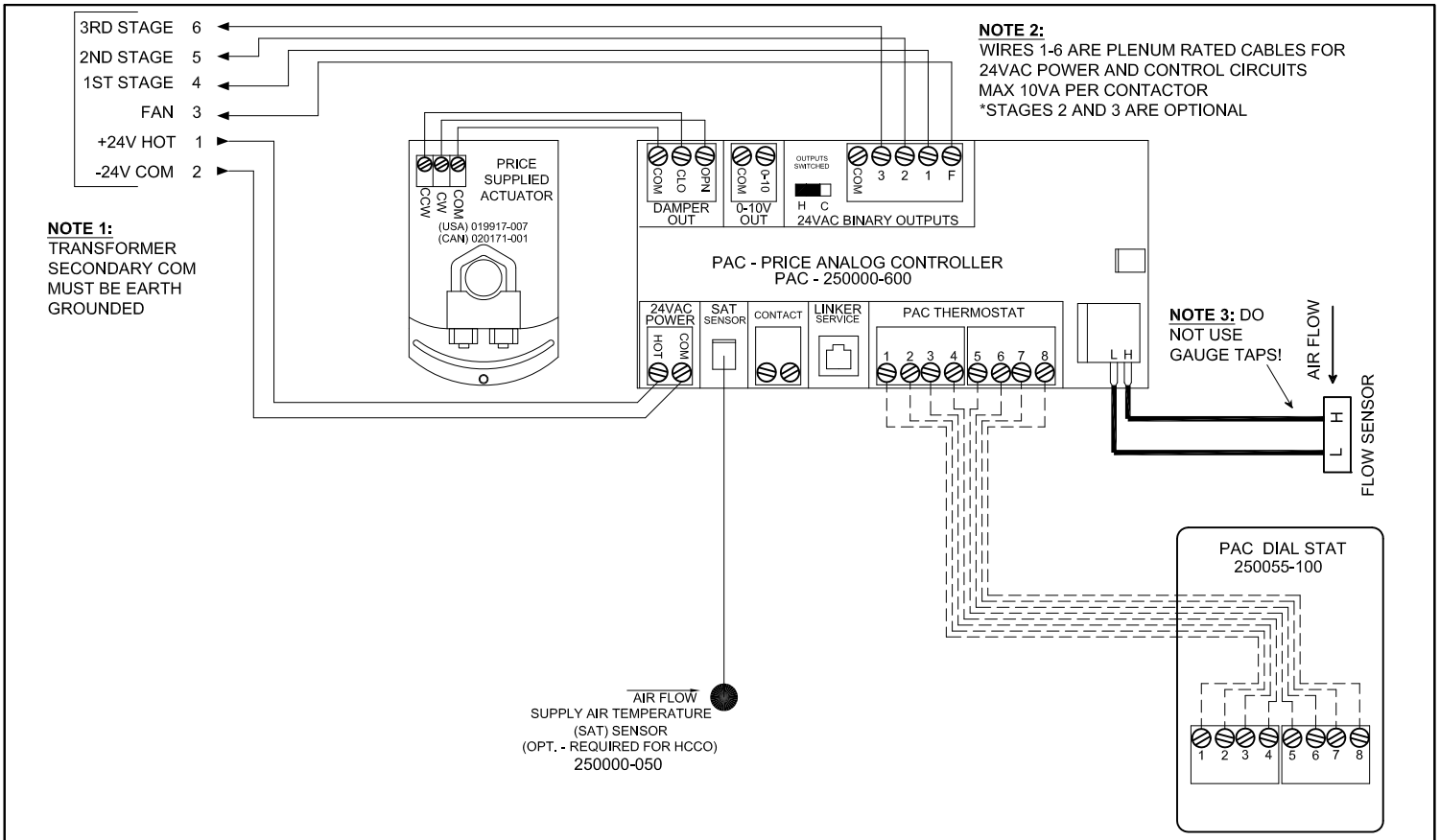
Fan Operation: On a decrease in space temperature into the heating proportional band, the unit fan will energize.

PROJECT:			
ENGINEER:			**FAN POWERED PAC** V.V. PRESSURE INDEPENDENT HEAT/COOL CHANGEOVER OR COOLING ONLY NO LOCAL REHEAT CONTROL
CUSTOMER:		254838	
SUBMITTAL DATE:	**SPEC. SYMBOL:**	2012/11/13	

REV C

FAN POWERED DIGITAL CONTROLS

Control Sequence Number 7801



Calibration note: Suitable min and max heating flows must be selected in order to maintain flow through energized electric coils of at least 200 fpm and at least 70 cfm/kW throughout the entire operating range.

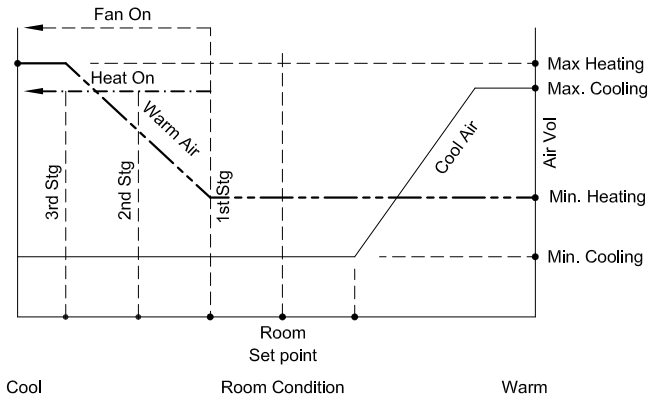
LEGEND

FACTORY FLOW SENSOR TUBING

FACTORY ELECTRICAL WIRING

FIELD ELECTRICAL WIRING

CONTROL GRAPH



Sequence of Operation – Variable Volume Heat/cool changeover OR cooling With up to 3 stage binary reheat - Pressure Independent

On power up the damper will calibrate closed for 2 minutes.

If no SAT sensor is present, controller assumes Cool supply air at all times

Cool supply air: On an increase in space temperature the controller regulates the actuator to open the VAV damper and increase the flow of cool air. On an increase of space temperature greater than the cooling proportional band, the airflow is maintained at its pre-selected maximum flow setting.

On a decrease in space temperature the controller regulates the actuator to close the VAV damper and reduce the flow of cool air. If the space temperature decreases to less than the cooling proportional band, the airflow is maintained at its pre-selected minimum flow setting.

Warm supply air: On a decrease in space temperature the controller regulates the actuator to open the VAV damper and increase the flow of warm air. On a decrease of space temperature greater than the heating proportional band, the airflow is maintained at its pre-selected maximum flow setting.

On an increase in space temperature the controller regulates the actuator to close the VAV damper and reduce the flow of warm air. If the space temperature increases above the heating proportional band, the airflow is maintained at its pre-selected minimum flow setting.

Fan Operation: On a decrease in space temperature into the heating proportional band, the unit fan will energize.

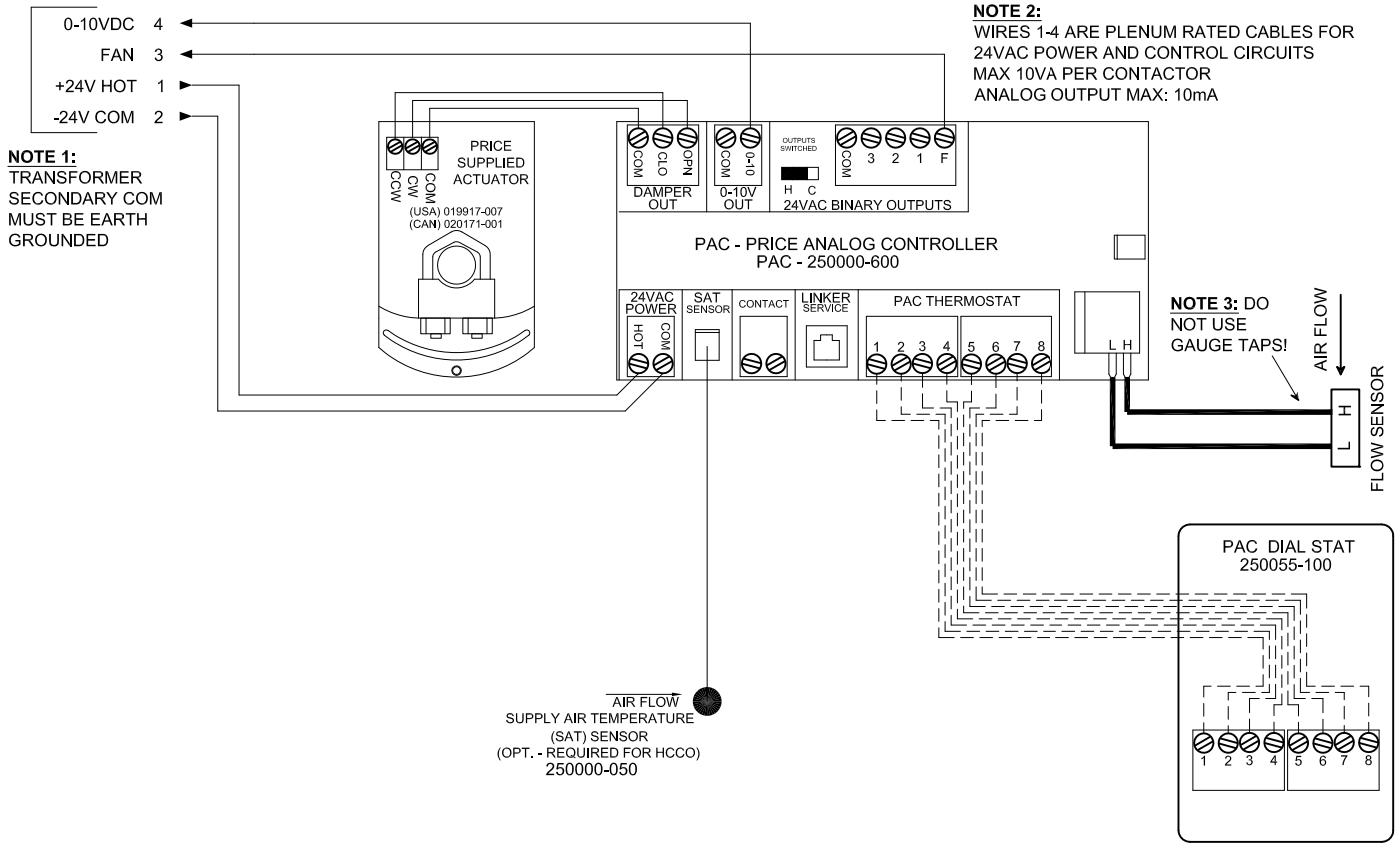
Reheat Operation: On a decrease in space temperature into the heating proportional band, the 1st stage binary 24VAC reheat output will energize. Upon futher decreases, the 2nd then 3rd stages of reheat (if used) will energize.

PROJECT:			
ENGINEER:		KR mm	**FAN POWERED PAC** V.V. PRESSURE INDEPENDENT HEAT/COOL C/O OR COOLING WITH UP TO 3 STG BINARY REHEAT
CUSTOMER:		254839	
SUBMITTAL DATE:	**SPEC. SYMBOL:**	2012/11/13	

REV C

FAN POWERED DIGITAL CONTROLS

Control Sequence Number 7802

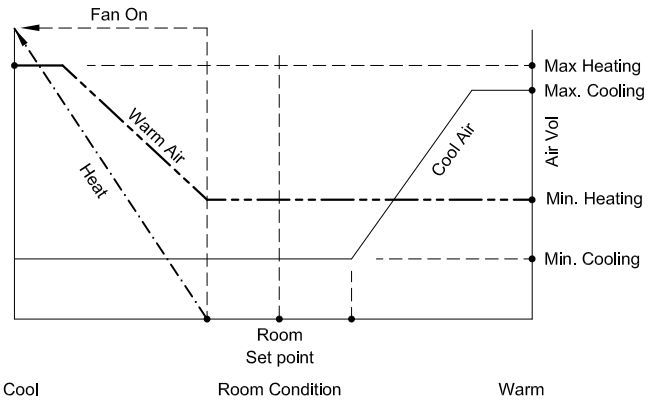


Calibration note: Suitable min and max heating flows must be selected in order to maintain flow through energized electric coils of at least 200 fpm and at least 70 cfm/kW throughout the entire operating range.

LEGEND

- FACTORY FLOW SENSOR TUBING
- FACTORY ELECTRICAL WIRING
- FIELD ELECTRICAL WIRING

CONTROL GRAPH



Sequence of Operation – Variable Volume Heat/cool changeover OR Cooling With Analog modulating reheat - Pressure Independent

On power up the damper will calibrate closed for 2 minutes.
If no SAT sensor is present, controller assumes Cool supply air at all times

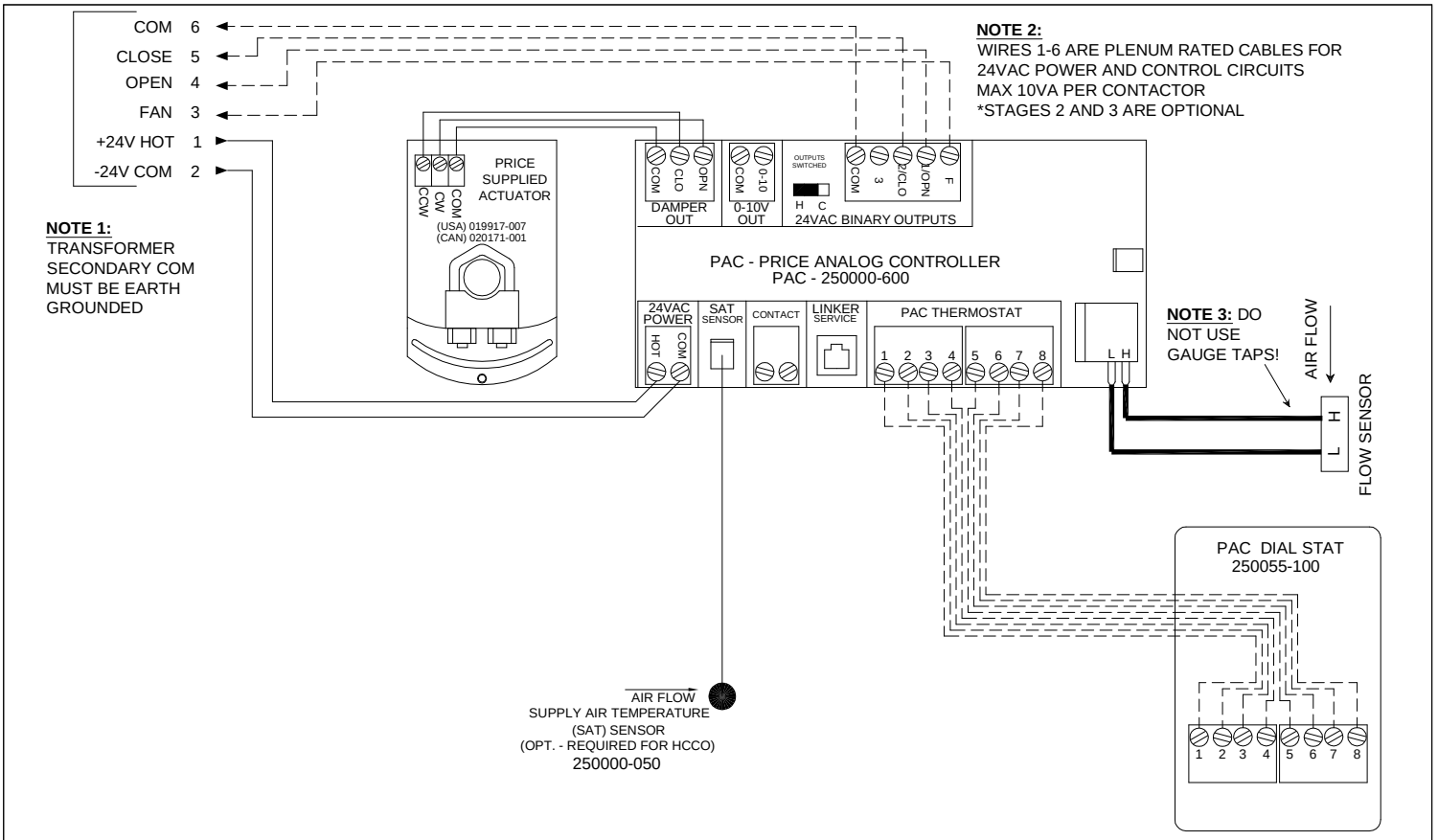
Cool supply air: On an increase in space temperature the controller regulates the actuator to open the VAV damper and increase the flow of cool air. On an increase of space temperature greater than the cooling proportional band, the airflow is maintained at its pre-selected maximum setting.
On a decrease in space temperature the controller regulates the actuator to close the VAV damper and reduce the flow of cool air. If the space temperature decreases to less than the cooling proportional band, the airflow is maintained at the pre-selected minimum setting.
Warm supply air: On a decrease in space temperature the controller regulates the actuator to open the VAV damper and increase the flow of warm air. On a decrease of space temperature greater than the heating proportional band, the airflow is maintained at its pre-selected maximum setting.
On an increase in space temperature the controller regulates the actuator to close the VAV damper and reduce the flow of warm air. If the space temperature increases above the heating proportional band, the airflow is maintained at the pre-selected minimum setting.
Fan Operation: On a decrease in space temperature into the heating proportional band, the unit fan will energize.
Reheat Operation: On a decrease in space temperature, the controller modulates the 0-10VDC ouput to increase heat proportionally to the room demand.

PROJECT:			
ENGINEER:		KR mm	**FAN POWERED PAC** V.V. PRESSURE INDEPENDENT HEAT/COOL C/O OR COOLING WITH ANALOG ELECTRIC HEAT
CUSTOMER:		254840	
SUBMITTAL DATE:	**SPEC. SYMBOL:**	2012/11/13	

REV C

FAN POWERED DIGITAL CONTROLS

Control Sequence Number 7803



Calibration note: Suitable min and max heating flows must be selected in order to maintain flow through energized electric coils of at least 200 fpm and at least 70 cfm/kW throughout the entire operating range.

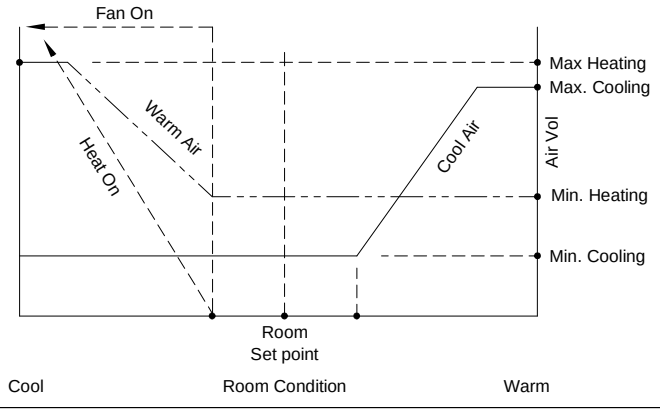
LEGEND

FACTORY FLOW SENSOR TUBING

FACTORY ELECTRICAL WIRING

FIELD ELECTRICAL WIRING

CONTROL GRAPH



Sequence of Operation -- Variable Volume Heat/cool changeover OR cooling With up to 3 stage binary reheat - Pressure Independent

On power up the damper will calibrate closed for 2 minutes.

If no SAT sensor is present, controller assumes Cool supply air at all times

Cool supply air: On an increase in space temperature the controller regulates the actuator to open the VAV damper and increase the flow of cool air. On an increase of space temperature greater than the cooling proportional band, the airflow is maintained at its pre-selected maximum flow setting.

On a decrease in space temperature the controller regulates the actuator to close the VAV damper and reduce the flow of cool air. If the space temperature decreases to less than the cooling proportional band, the airflow is maintained at its pre-selected minimum flow setting.

Warm supply air: On a decrease in space temperature the controller regulates the actuator to open the VAV damper and increase the flow of warm air. On a decrease of space temperature greater than the heating proportional band, the airflow is maintained at its pre-selected maximum flow setting.

On an increase in space temperature the controller regulates the actuator to close the VAV damper and reduce the flow of warm air. If the space temperature increases above the heating proportional band, the airflow is maintained at its pre-selected minimum flow setting.

Fan Operation: On a decrease in space temperature into the heating proportional band, the unit fan will energize.

Reheat Operation: On a decrease in space temperature into the heating proportional band, the HW valve is modulated to increase heat proportionally to room demand.

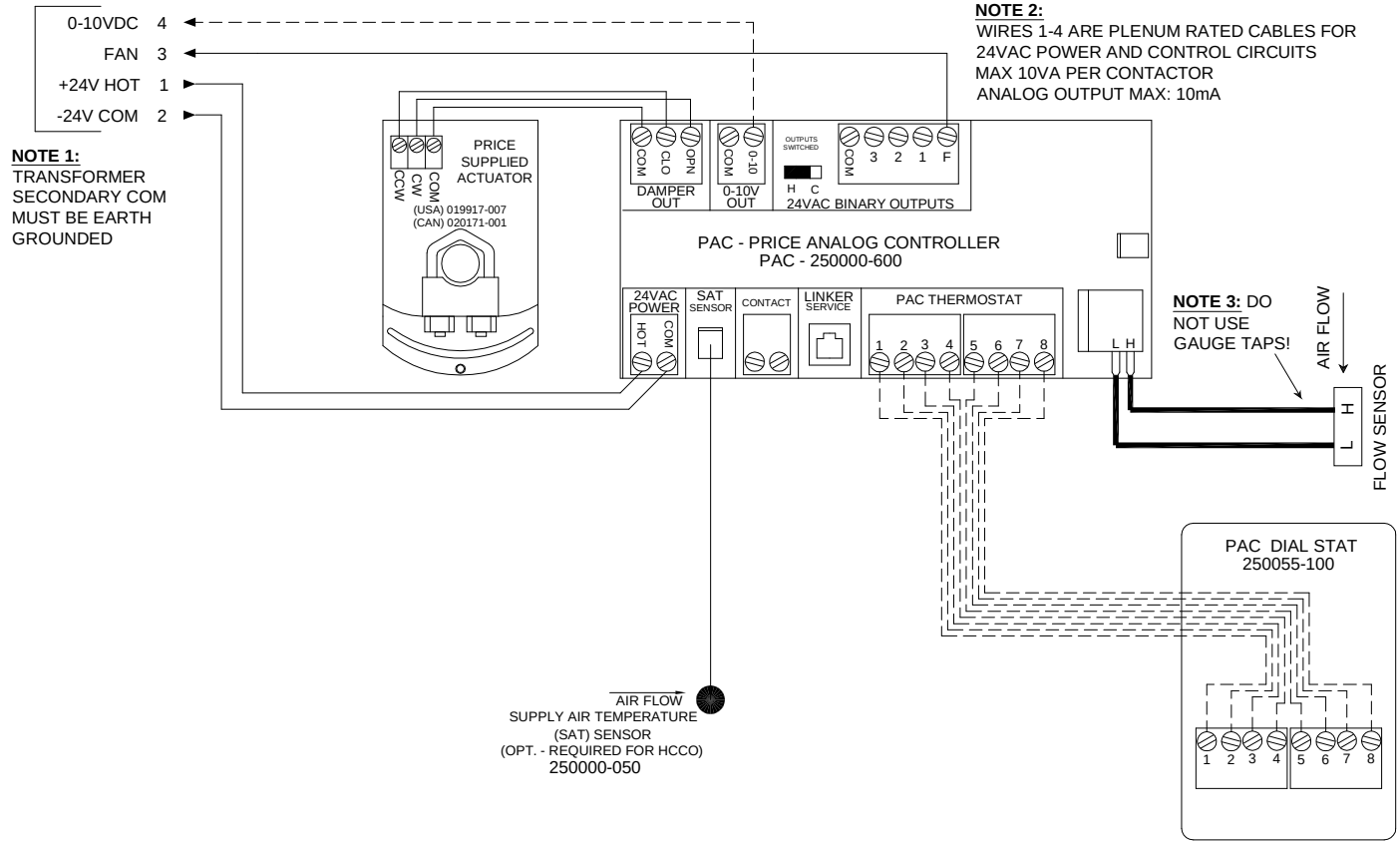
PROJECT:		
ENGINEER:		GF mm
CUSTOMER:		264455
SUBMITTAL DATE:	**SPEC. SYMBOL:**	2014/03/14

FAN POWERED PAC
V.V. PRESSURE INDEPENDENT HEAT/COOL C/O OR COOLING WITHFIELD WIRED TRI-STATE HW

REV 0

FAN POWERED DIGITAL CONTROLS

Control Sequence Number 7804



Calibration note: Suitable min and max heating flows must be selected in order to maintain flow through energized electric coils of at least 200 fpm and at least 70 cfm/kW throughout the entire operating range.

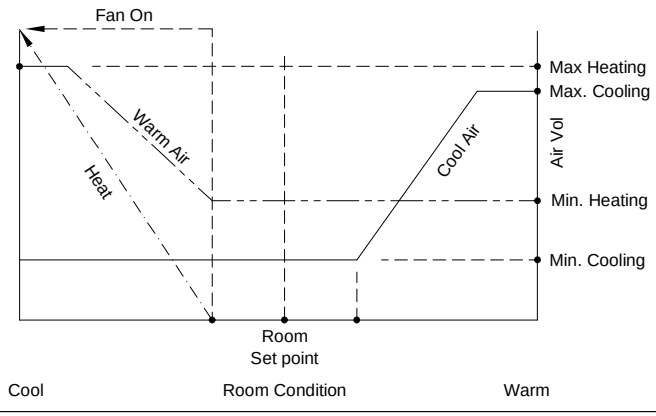
LEGEND

FACTORY FLOW SENSOR TUBING

FACTORY ELECTRICAL WIRING

FIELD ELECTRICAL WIRING

CONTROL GRAPH



Sequence of Operation -- Variable Volume Heat/cool changeover OR Cooling With Analog modulating reheat - Pressure Independent

On power up the damper will calibrate closed for 2 minutes.

If no SAT sensor is present, controller assumes Cool supply air at all times

Cool supply air: On an increase in space temperature the controller regulates the actuator to open the VAV damper and increase the flow of cool air. On an increase of space temperature greater than the cooling proportional band, the airflow is maintained at its pre-selected maximum setting.

On a decrease in space temperature the controller regulates the actuator to close the VAV damper and reduce the flow of cool air. If the space temperature decreases to less than the cooling proportional band, the airflow is maintained at the pre-selected minimum setting.

Warm supply air: On a decrease in space temperature the controller regulates the actuator to open the VAV damper and increase the flow of warm air. On a decrease of space temperature greater than the heating proportional band, the airflow is maintained at its pre-selected maximum setting.

On an increase in space temperature the controller regulates the actuator to close the VAV damper and reduce the flow of warm air. If the space temperature increases above the heating proportional band, the airflow is maintained at the pre-selected minimum setting.

Fan Operation: On a decrease in space temperature into the heating proportional band, the unit fan will energize.

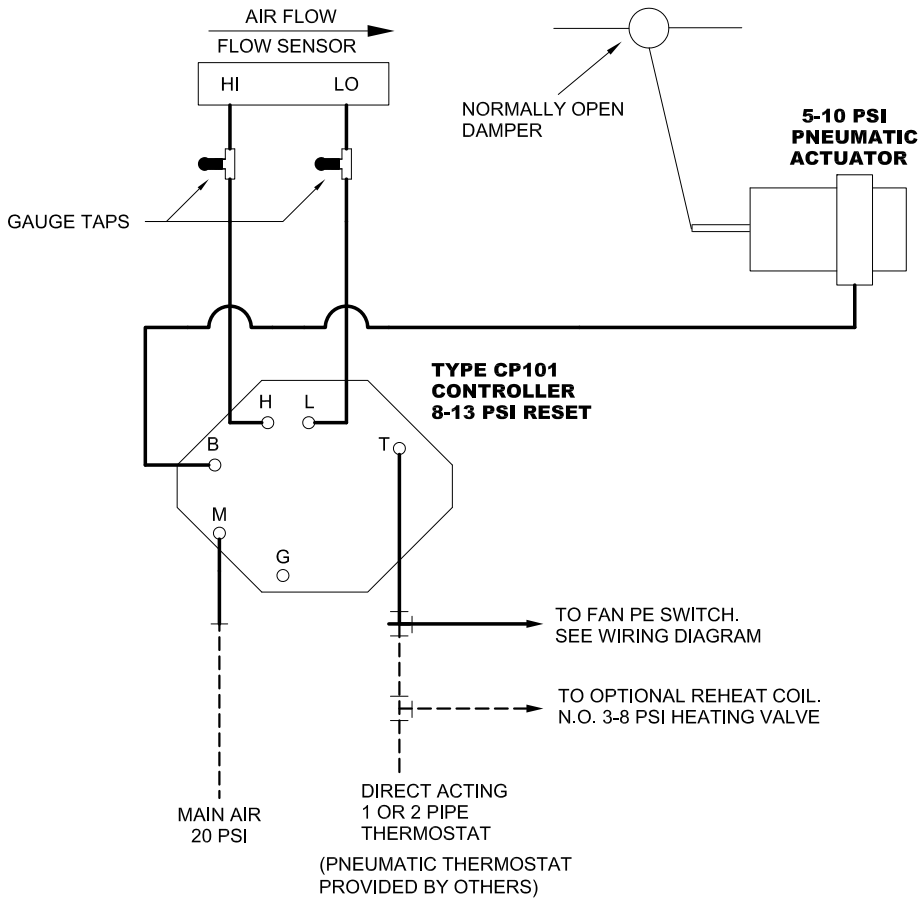
Reheat Operation: On a decrease in space temperature, the controller modulates the 0-10VDC ouput to increase heat proportionally to the room demand.

PROJECT:			
ENGINEER:		GF mm	**FAN POWERED PAC** V.V. PRESSURE INDEPENDENT HEAT/COOL C/O OR COOLING WITH FIELD WIRED ANALOG HW
CUSTOMER:		264456	
SUBMITTAL DATE:	**SPEC. SYMBOL:**	2014/03/14	

REV 0

FAN POWERED PNEUMATIC CONTROLS

Control Sequence Number 7002



NOTES:

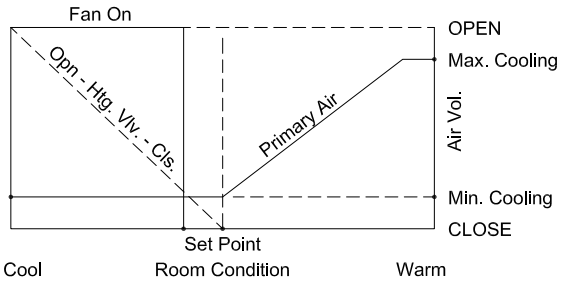
1. TOTAL AIR CONSUMPTION 0.017 SCFM.

LEGEND

——— FACTORY PNEUMATIC TUBING

– – – – – – – FIELD PNEUMATIC TUBING

CONTROL GRAPH



Sequence of Operation – Variable volume, intermittent fan, pressure independant, normally open, direct acting cooling application. HW reheat coil is optional.

An increase in space temperature increases the thermostat output pressure. When the thermostat output increases to 13 psi or more, the VAV box damper is maintained at the preselected maximum flow setting.

A decrease in space temperature decreases the thermostat output pressure. When the thermostat output decreases to 8 psi or less, the VAV box damper is maintained at the preselected minimum flow setting.

At thermostat output pressures between 8 & 13 psi the VAV damper modulates between minimum & maximum cooling flow.

At thermostat output pressures below 8 psi the minimum flow setting is maintained, and the thermostat will energize the unit fan to provide recirculated air to the space. The thermostat may also control the optional reheat coil.

Airflow is held constant at any given thermostat output pressure regardless of changes in inlet duct static pressure.

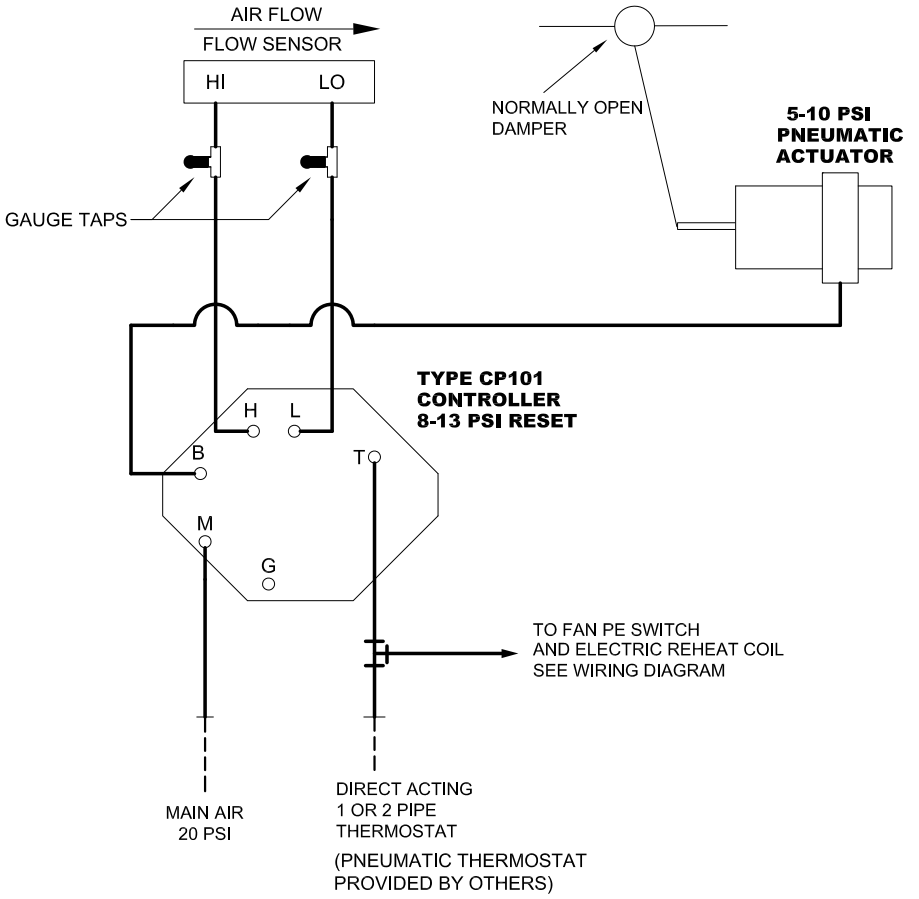
Normally Open Damper: On failure of the main air supply the damper will fail to the open position.

PROJECT:			
ENGINEER:		BJH/BC	FPV8 / FPVE8 Kreuter CP-101 Clg., HW Reheat Optional Variable Vol., Intermittent Fan Pressure Independent D.A. T'Stat, N.O. Damper
CUSTOMER:		231784	
SUBMITTAL DATE:	**SPEC. SYMBOL:**	2011/11/07	

REV A

FAN POWERED PNEUMATIC CONTROLS

Control Sequence Number 7003



NOTES:

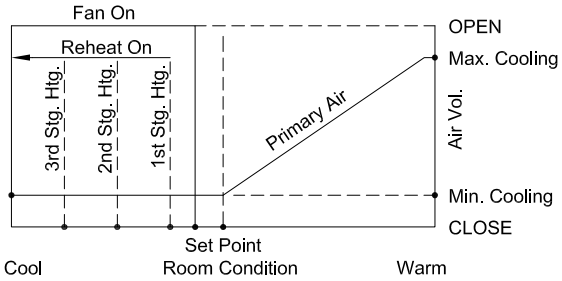
1. TOTAL AIR CONSUMPTION 0.017 SCFM.

LEGEND

——————— FACTORY PNEUMATIC TUBING

– – – – – – – FIELD PNEUMATIC TUBING

CONTROL GRAPH



Sequence of Operation -- Variable volume, intermittent fan, pressure independant, normally open, direct acting cooling application with electric reheat coil.

An increase in space temperature increases the thermostat output pressure. When the thermostat output increases to 13 psi or more, the VAV box damper is maintained at the preselected maximum flow setting.

A decrease in space temperature decreases the thermostat output pressure. When the thermostat output decreases to 8 psi or less, the VAV box damper is maintained at the preselected minimum flow setting.

At thermostat output pressures between 8 & 13 psi the VAV damper modulates between minimum & maximum cooling flow.

At thermostat output pressures below 8 psi the minimum flow setting is maintained, and the thermostat will energize the unit fan to provide recirculated air to the space. The thermostat will also control the electric reheat coil.

Airflow is held constant at any given thermostat output pressure regardless of changes in inlet duct static pressure.

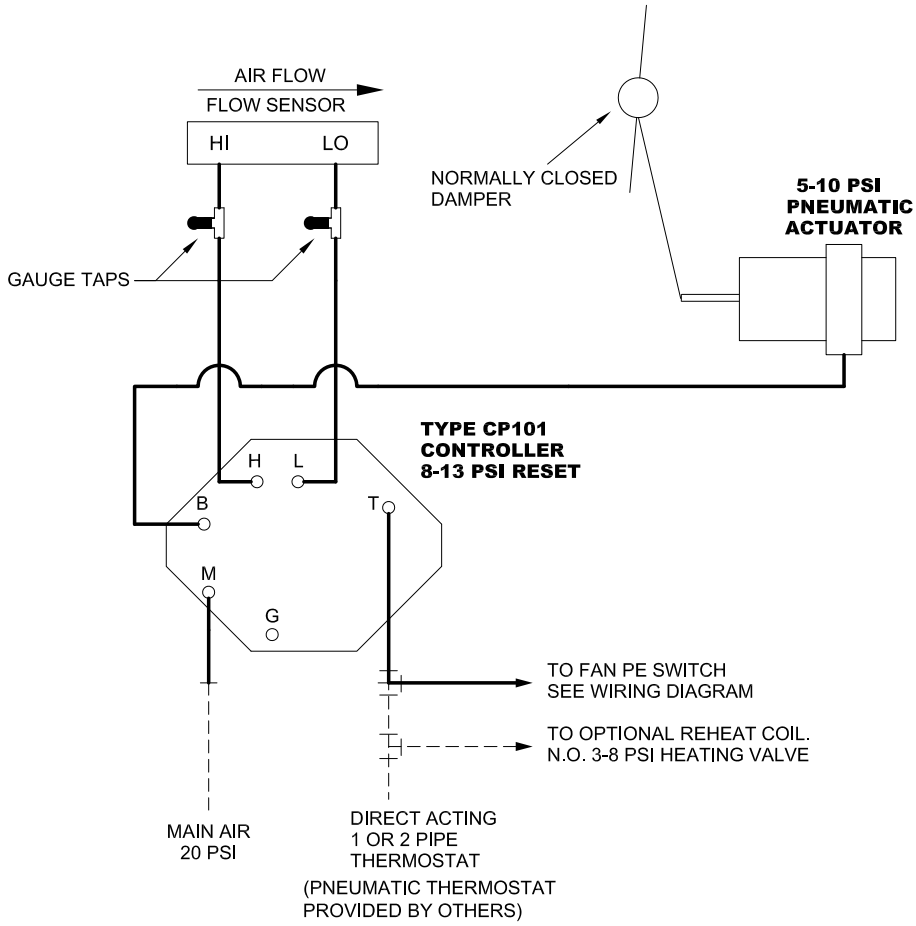
Normally Open Damper: On failure of the main air supply the damper will fail to the open position.

PROJECT:			
ENGINEER:		BJH/BC	FPV8 / FPVE8 Kreuter CP-101 Clg., Electric Reheat Coil Variable Vol., Intermittent Fan Pressure Independent D.A. T'Stat, N.O. Damper
CUSTOMER:		231785	
SUBMITTAL DATE:	**SPEC. SYMBOL:**	2011/11/07	

REV A

FAN POWERED PNEUMATIC CONTROLS

Control Sequence Number 7004



NOTES:

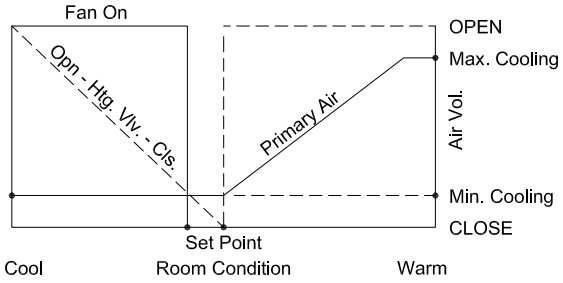
1. TOTAL AIR CONSUMPTION 0.017 SCFM.

LEGEND

FACTORY PNEUMATIC TUBING

FIELD PNEUMATIC TUBING

CONTROL GRAPH



Sequence of Operation -- Variable volume, intermittent fan, pressure independant, normally closed, direct acting cooling application. HW reheat coil is optional.

An increase in space temperature increases the thermostat output pressure. When the thermostat output increases to 13 psi or more, the VAV box damper is maintained at the pre-selected maximum flow setting.

A decrease in space temperature decreases the thermostat output pressure. When the thermostat output decreases to 8 psi or less, the VAV box damper is maintained at the pre-selected minimum flow setting.

At thermostat output pressures between 8 & 13 psi the VAV damper modulates between minimum & maximum cooling flow.

At thermostat output pressures below 8 psi the minimum flow setting is maintained, and the thermostat will energize the unit fan to provide recirculated air to the space. The thermostat may also control the optional reheat coil.

Airflow is held constant at any given thermostat output pressure regardless of changes in inlet duct static pressure.

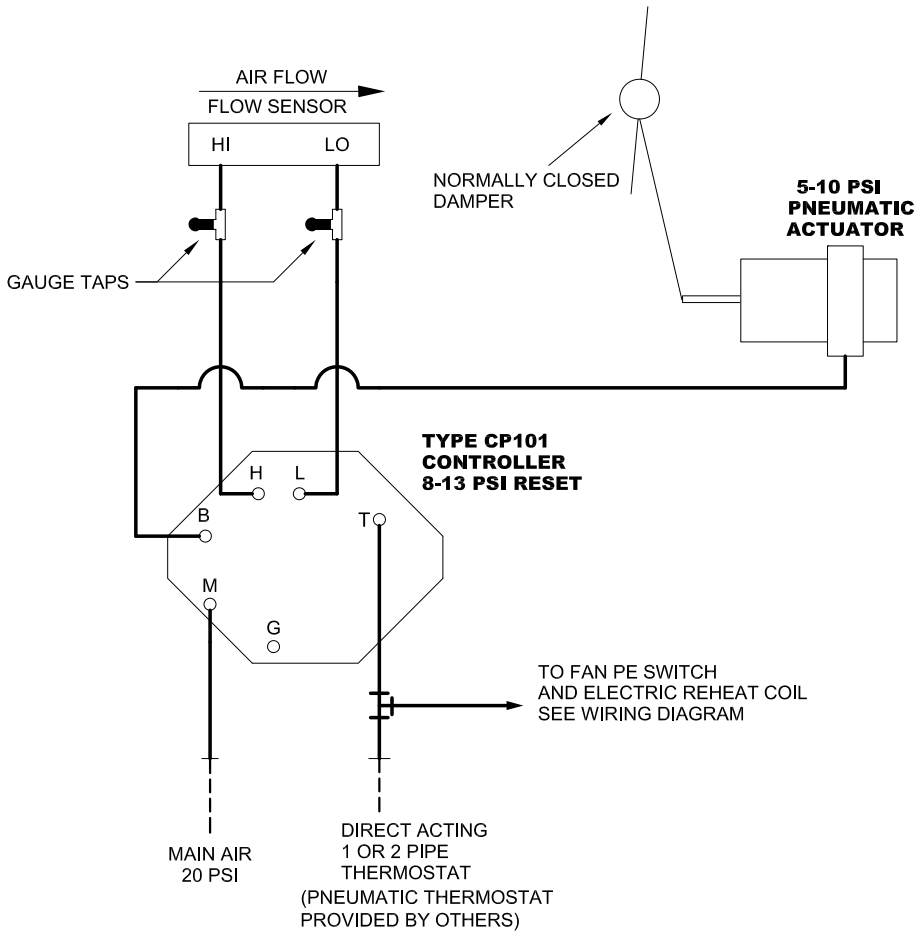
Normally Closed Damper: On failure of the main air supply the damper will fail to the closed position.

PROJECT:			
ENGINEER:		BJH/BL	FPV8 / FPVE8 Kreuter CP-101 Clg., HW Reheat Optional Variable Vol., Intermittent Fan Pressure Independent D.A. T'Stat, N.C. Damper
CUSTOMER:		231786	
SUBMITTAL DATE:	**SPEC. SYMBOL:**	2011/11/07	

REV A

FAN POWERED PNEUMATIC CONTROLS

Control Sequence Number 7005



NOTES:

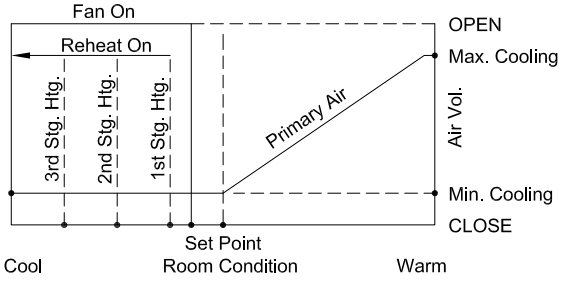
1. TOTAL AIR CONSUMPTION 0.017 SCFM.

LEGEND

——— FACTORY PNEUMATIC TUBING

– – – – – – – FIELD PNEUMATIC TUBING

CONTROL GRAPH



Sequence of Operation -- Variable volume, intermittent fan, pressure independant, normally closed, direct acting cooling application with electric reheat coil.

An increase in space temperature increases the thermostat output pressure. When the thermostat output increases to 13 psi or more, the VAV box damper is maintained at the preselected maximum flow setting.

A decrease in space temperature decreases the thermostat output pressure. When the thermostat output decreases to 8 psi or less, the VAV box damper is maintained at the preselected minimum flow setting.

At thermostat output pressures between 8 & 13 psi the VAV damper modulates between minimum & maximum cooling flow.

At thermostat output pressures below 8 psi the minimum flow setting is maintained, and the thermostat will energize the unit fan to provide recirculated air to the space. The thermostat will also control the electric reheat coil.

Airflow is held constant at any given thermostat output pressure regardless of changes in inlet duct static pressure.

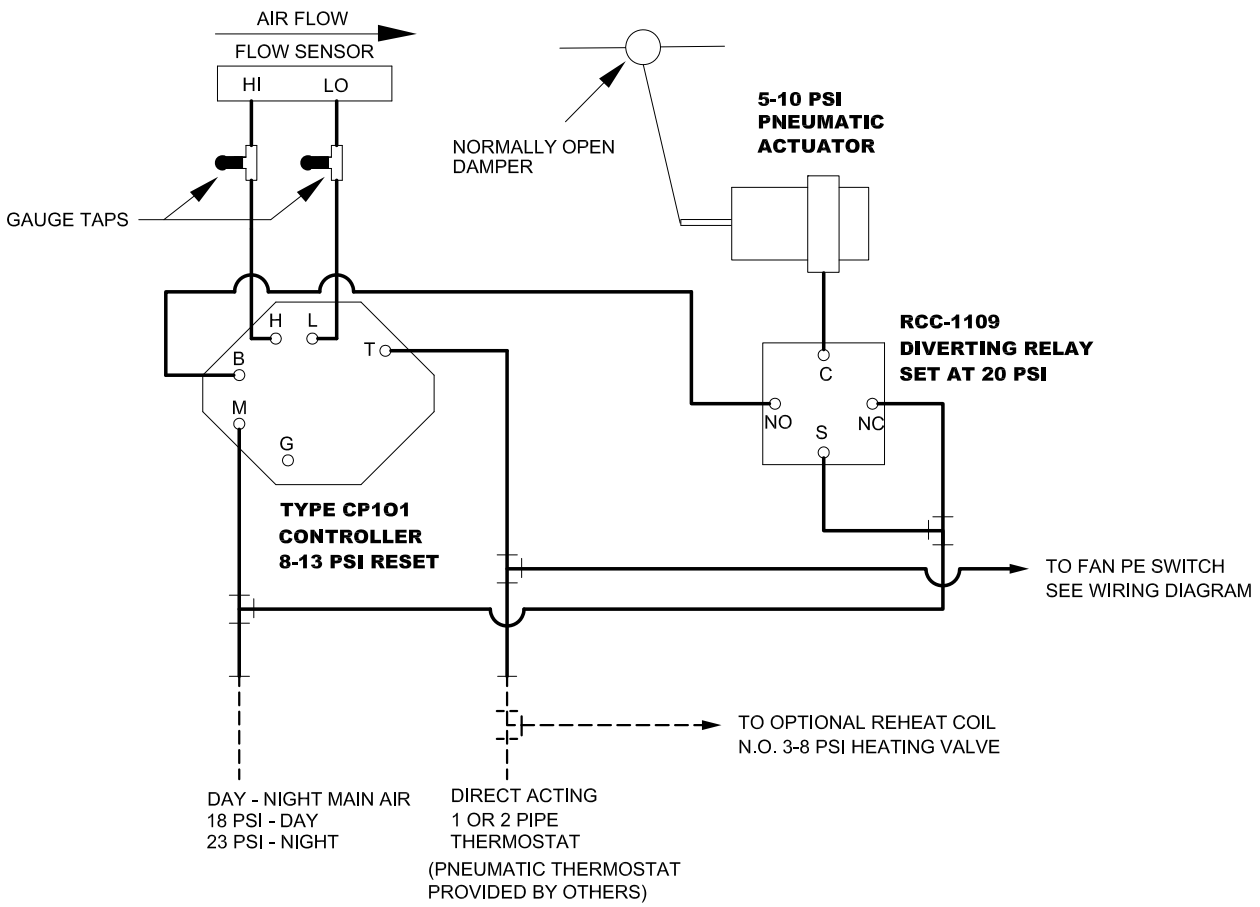
Normally Closed Damper: On failure of the main air supply the damper will fail to the closed position.

PROJECT:			
ENGINEER:		BJH/BC	FPV8 / FPVE8 Kreuter CP-101 Clg., Electric Reheat Coil Variable Vol., Intermittent Fan Pressure Independent D.A. T'Stat, N.C. Damper
CUSTOMER:		231787	
SUBMITTAL DATE:	**SPEC. SYMBOL:**	2011/11/07	

REV A

FAN POWERED PNEUMATIC CONTROLS

Control Sequence Number 7006



NOTES:

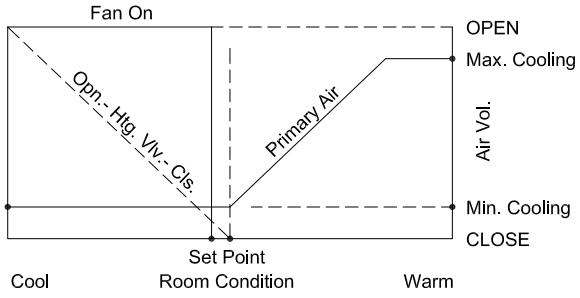
1. TOTAL AIR CONSUMPTION 0.017 SCFM.

LEGEND

FACTORY PNEUMATIC TUBING

FIELD PNEUMATIC TUBING

CONTROL GRAPH



Sequence of Operation -- Variable volume, intermittent fan, pressure independent, normally open, direct acting cooling application with day-night fan control, and primary damper close-off at night. HW reheat coil is optional.

Day Operation: Occurs when the main air supply is at 18 psi or lower. An increase in space temperature increases the thermostat output pressure. When the thermostat output increases to 13 psi or more, the VAV box damper is maintained at the pre-selected maximum flow setting.

A decrease in space temperature decreases the thermostat output pressure. When the thermostat output decreases to 8 psi, the VAV box damper is maintained at the pre- selected minimum flow setting. At thermostat output pressures below 8 psi, the minimum flow setting is maintained, and the thermostat will energize the unit fan to provide recirculated air to the space. The thermostat may also control an optional reheat coil.

Airflow is held constant at any given thermostat output pressure regardless of changes in inlet duct static pressure.

Night Operation: Occurs when the main air supply is at 23 psi or higher. The VAV damper is held in the closed position. The thermostat will control the unit fan and optional reheat coil as described above to maintain the thermostat setting.

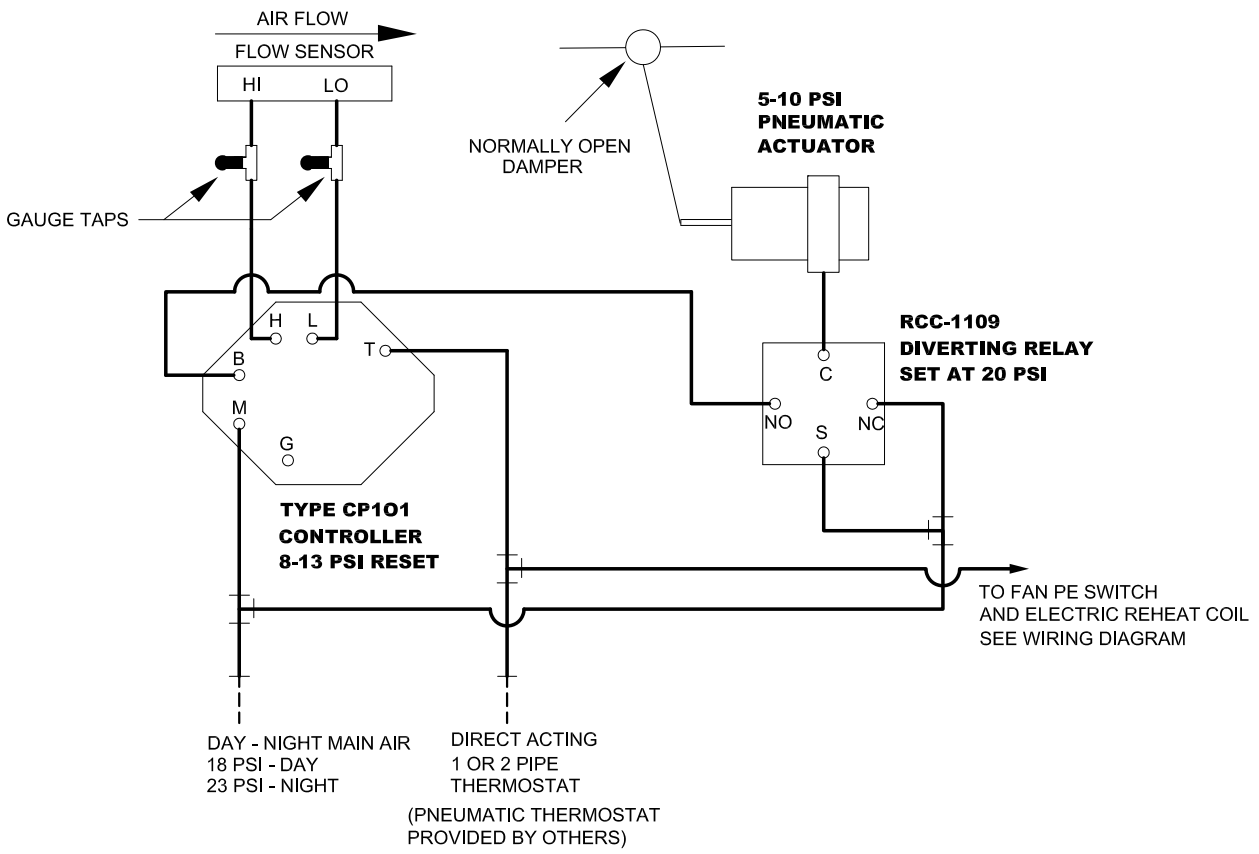
Normally Open Damper: On failure of the main air supply the damper will fail to the open position.

PROJECT:			FPV8 / FPVE8 Kreuter CP-101 Clg., HW Reheat Optional Variable Vol., Day - Night Main Pressure Independent D.A. T'Stat, N.O. Damper
ENGINEER:		BJH/BC	
CUSTOMER:		231788	
SUBMITTAL DATE:	**SPEC. SYMBOL:**	2011/11/07	

REV A

FAN POWERED PNEUMATIC CONTROLS

Control Sequence Number 7007



NOTES:

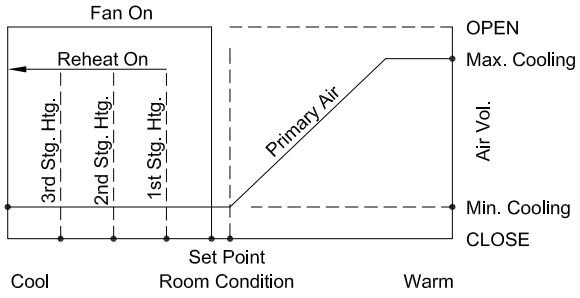
1. TOTAL AIR CONSUMPTION 0.017 SCFM.

LEGEND

FACTORY PNEUMATIC TUBING

FIELD PNEUMATIC TUBING

CONTROL GRAPH



Sequence of Operation -- Variable volume, intermittent fan, pressure independent, normally open, direct acting cooling application with electric reheat coil, day-night fan control, and primary damper close-off at night.

Day Operation: Occurs when the main air supply is at 18 psi or lower. An increase in space temperature increases the thermostat output pressure. When the thermostat output increases to 13 psi or more, the VAV box damper is maintained at the pre-selected maximum flow setting.

A decrease in space temperature decreases the thermostat output pressure. When the thermostat output decreases to 8 psi, the VAV box damper is maintained at the pre- selected minimum flow setting. At thermostat output pressures below 8 psi, the minimum flow setting is maintained, and the thermostat will energize the unit fan to provide recirculated air to the space. The thermostat will also control an electric reheat coil.

Airflow is held constant at any given thermostat output pressure regardless of changes in inlet duct static pressure.

Night Operation: Occurs when the main air supply is at 23 psi or higher. The VAV damper is held in the closed position. The thermostat will control the unit fan and optional reheat coil as described above to maintain the thermostat setting.

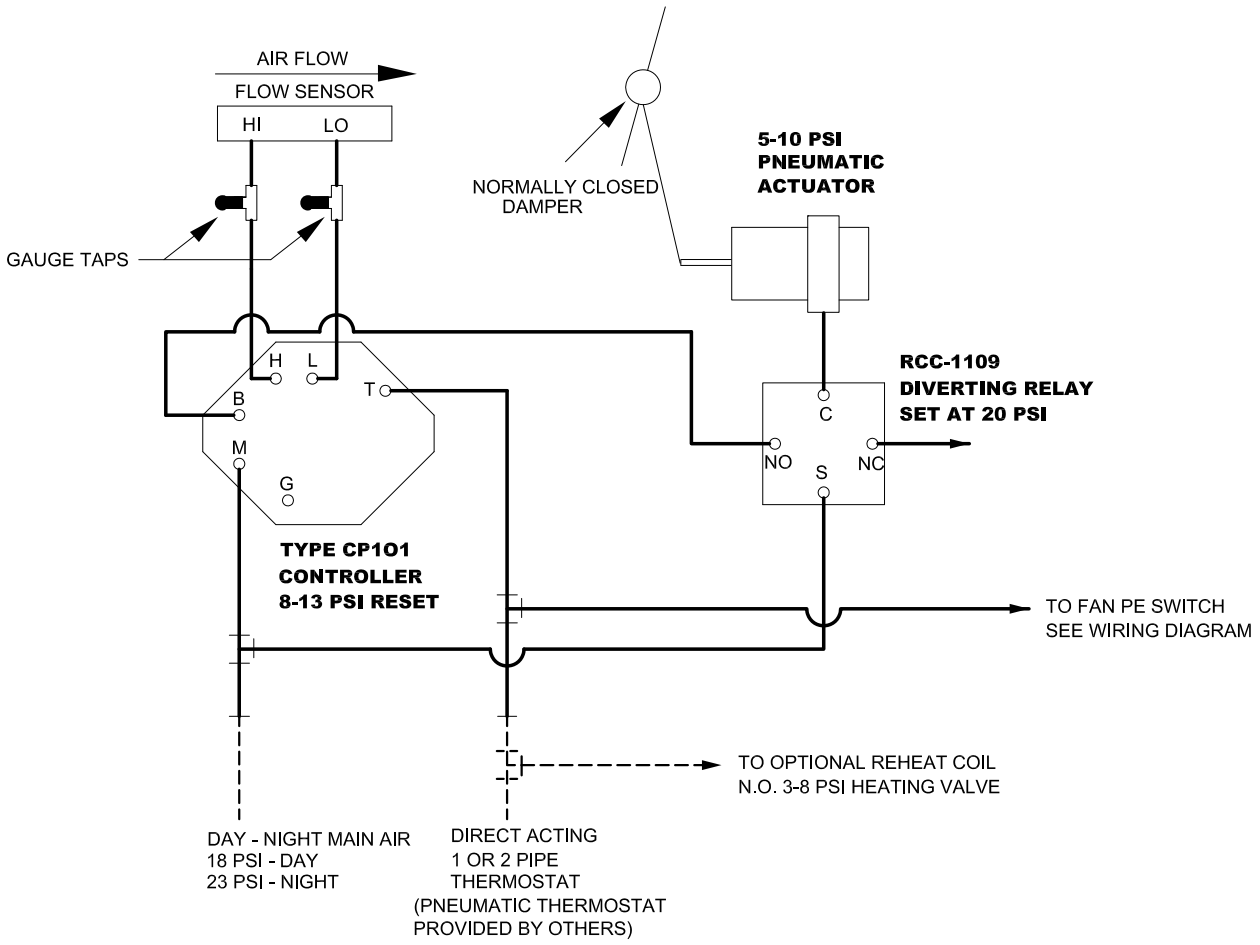
Normally Open Damper: On failure of the main air supply the damper will fail to the open position.

PROJECT:			
ENGINEER:		BJH/BC	FPV8 / FPVE8 Kreuter CP-101 Clg., Electric Reheat Coil Variable Vol., Day - Night Main Pressure Independent D.A. T'Stat, N.O. Damper
CUSTOMER:		231789	
SUBMITTAL DATE:	**SPEC. SYMBOL:**	2011/11/07	

REV A

FAN POWERED PNEUMATIC CONTROLS

Control Sequence Number 7008



NOTES:

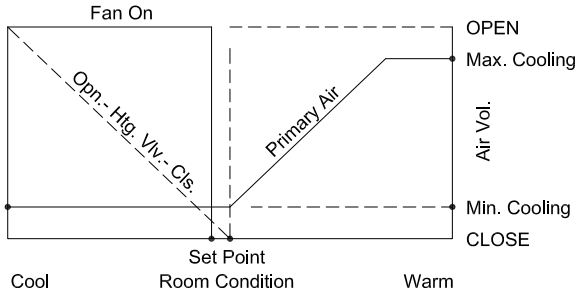
1. TOTAL AIR CONSUMPTION 0.017 SCFM.

LEGEND

——— FACTORY PNEUMATIC TUBING

– – – – – – – FIELD PNEUMATIC TUBING

CONTROL GRAPH



Sequence of Operation -- Variable volume, intermittent fan, pressure independent, normally closed, direct acting cooling application with day-night fan control, and primary damper close-off at night. HW reheat coil is optional.

Day Operation: Occurs when the main air supply is at 18 psi or lower. An increase in space temperature increases the thermostat output pressure. When the thermostat output increases to 13 psi or more, the VAV box damper is maintained at the pre-selected maximum flow setting.

A decrease in space temperature decreases the thermostat output pressure. When the thermostat output decreases to 8 psi, the VAV box damper is maintained at the pre- selected minimum flow setting. At thermostat output pressures below 8 psi, the minimum flow setting is maintained, and the thermostat will energize the unit fan to provide recirculated air to the space. The thermostat may also control an optional reheat coil.

Airflow is held constant at any given thermostat output pressure between 8-13 psi regardless of changes in inlet duct static pressure.

Night Operation: Occurs when the main air supply is at 23 psi or higher. The VAV damper is held in the closed position. The thermostat will control the unit fan and optional reheat coil as described above to maintain the thermostat setting.

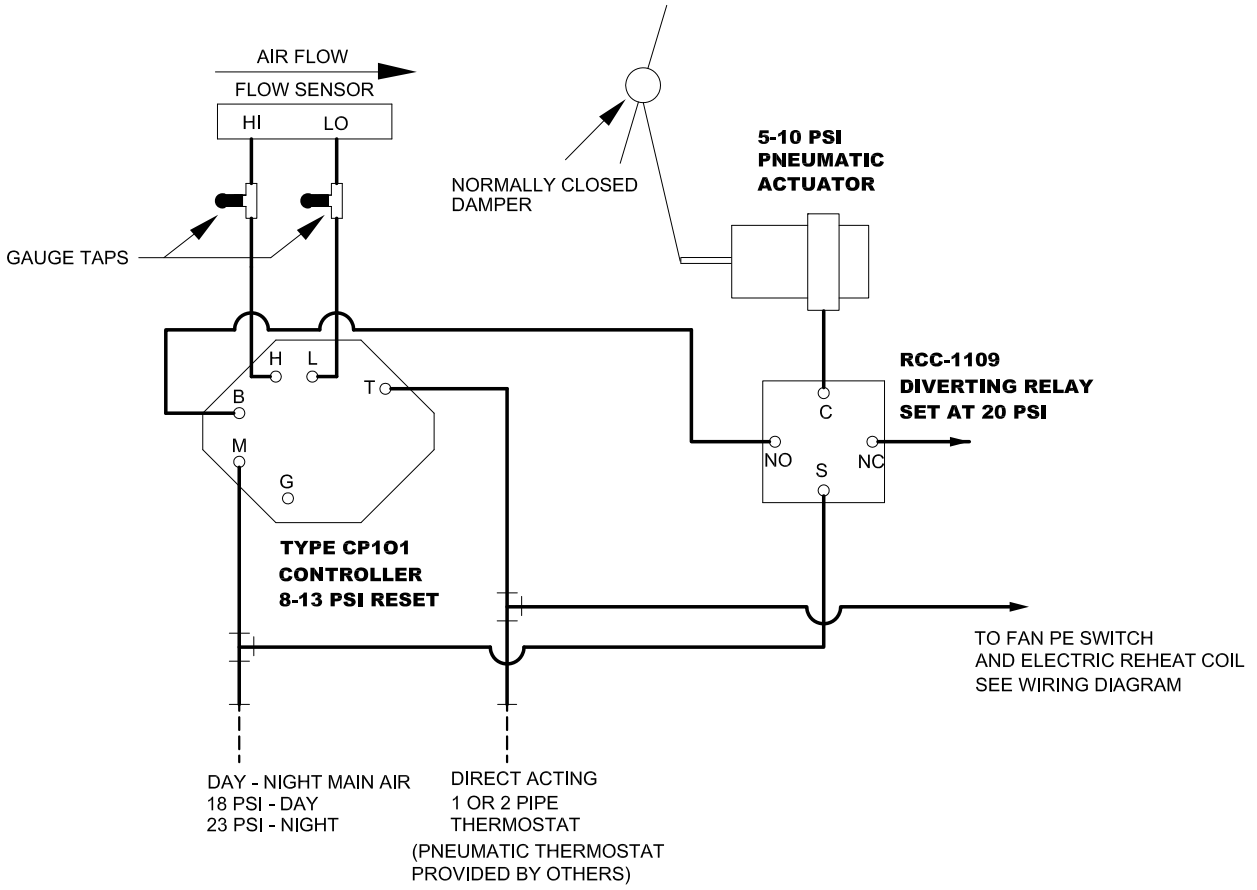
Normally Closed Damper: On failure of the main air supply the damper will fail to the closed position.

PROJECT:			
ENGINEER:		BJH/BC	FPV8 / FPVE8 Kreuter CP-101 Clg., HW Reheat Optional Variable Vol., Day - Night Main Pressure Independent D.A. T'Stat, N.C. Damper
CUSTOMER:		231790	
SUBMITTAL DATE:	**SPEC. SYMBOL:**	2011/11/07	

REV A

FAN POWERED PNEUMATIC CONTROLS

Control Sequence Number 7009



NOTES:

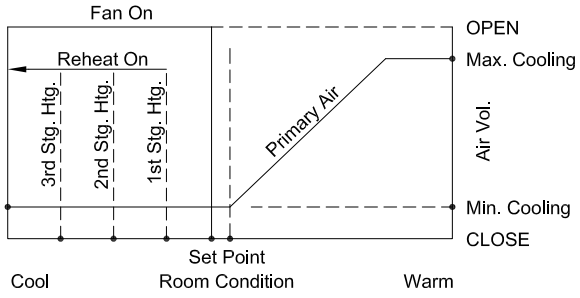
1. TOTAL AIR CONSUMPTION 0.017 SCFM.

LEGEND

FACTORY PNEUMATIC TUBING

FIELD PNEUMATIC TUBING

CONTROL GRAPH



Sequence of Operation -- Variable volume, intermittent fan, pressure independent, normally closed, direct acting cooling application with electric reheat coil, day-night fan control, and primary damper close-off at night.

Day Operation: Occurs when the main air supply is at 18 psi or lower. An increase in space temperature increases the thermostat output pressure. When the thermostat output increases to 13 psi or more, the VAV box damper is maintained at the pre-selected maximum flow setting.

A decrease in space temperature decreases the thermostat output pressure. When the thermostat output decreases to 8 psi, the VAV box damper is maintained at the pre- selected minimum flow setting. At thermostat output pressures below 8 psi, the minimum flow setting is maintained, and the thermostat will energize the unit fan to provide recirculated air to the space. The thermostat will also control an electric reheat coil.

Airflow is held constant at any given thermostat output pressure between 8-13 psi regardless of changes in inlet duct static pressure.

Night Operation: Occurs when the main air supply is at 23 psi or higher. The VAV damper is held in the closed position. The thermostat will control the unit fan and optional reheat coil as described above to maintain the thermostat setting.

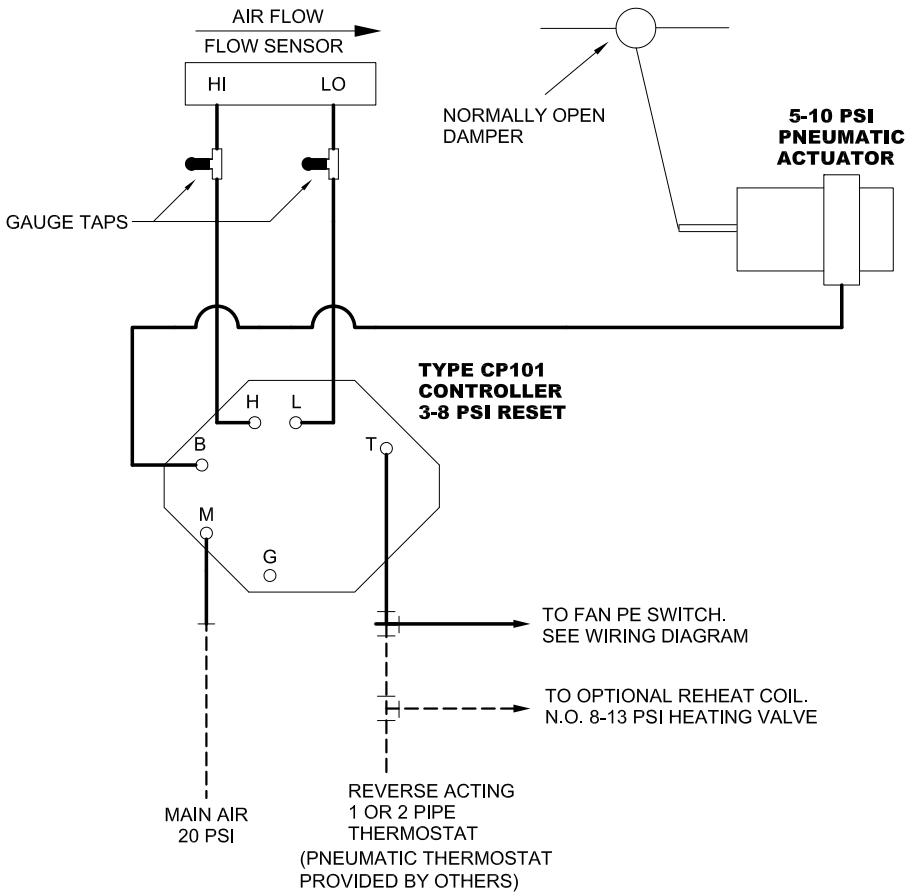
Normally Closed Damper: On failure of the main air supply the damper will fail to the closed position.

PROJECT:			FPV8 / FPVE8 Kreuter CP-101 Clg., Electric Reheat Coil Variable Vol., Day - Night Main Pressure Independent D.A. T'Stat, N.C. Damper
ENGINEER:		BTH/BL	
CUSTOMER:		231791	
SUBMITTAL DATE:	**SPEC. SYMBOL:**	2011/11/07	

REV A

FAN POWERED PNEUMATIC CONTROLS

Control Sequence Number 7012



NOTES:

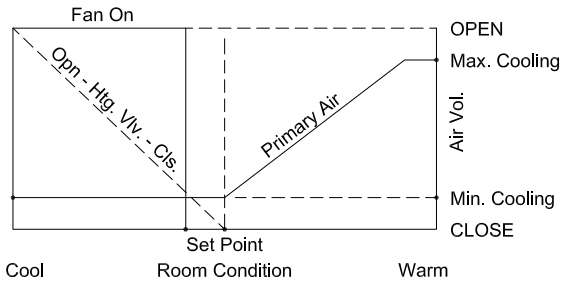
1. TOTAL AIR CONSUMPTION 0.017 SCFM.

LEGEND

FACTORY PNEUMATIC TUBING

FIELD PNEUMATIC TUBING

CONTROL GRAPH



Sequence of Operation -- Variable volume, intermittent fan, pressure independant, normally open, reverse acting cooling application. HW reheat coil is optional.

An increase in space temperature decreases the thermostat output pressure. When the thermostat output decreases to 3 psi or less, the VAV box damper is maintained at the preselected maximum flow setting.

An increase in space temperature decreases the thermostat output pressure. When the thermostat output decreases to 3 psi or less, the VAV box damper is maintained at the preselected maximum flow setting.

A decrease in space temperature increases the thermostat output pressure. When the thermostat output increases to 8 psi or more, the VAV box damper is maintained at the preselected minimum flow setting.

At thermostat output pressures between 3 & 8 psi the VAV damper modulates between minimum & maximum cooling flow.

At thermostat output pressures above 8 psi the minimum flow setting is maintained, and the thermostat will energize the unit fan to provide recirculated air to the space. The thermostat may also control the optional reheat coil.

Airflow is held constant at any given thermostat output pressure regardless of changes in inlet duct static pressure.

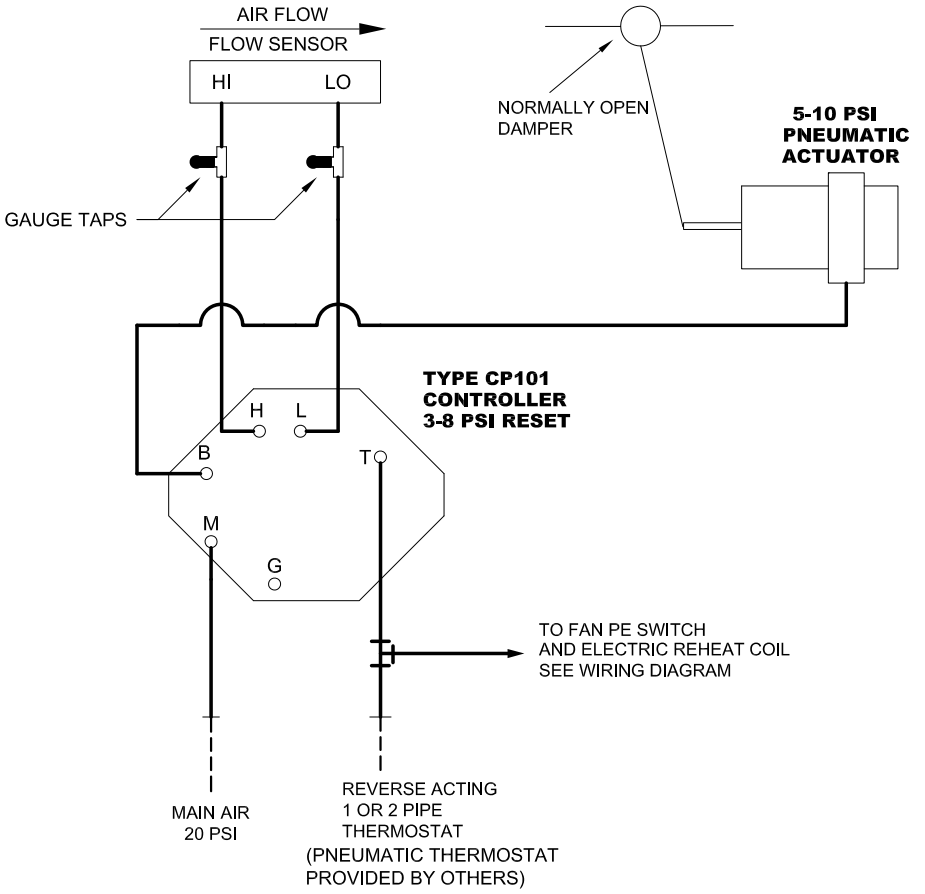
Normally Open Damper: On failure of the main air supply the damper will fail to the open position.

PROJECT:			FPV8 / FPVE8 Kreuter CP-101 Clg., HW Reheat Optional Variable Vol., Intermittent Fan Pressure Independent R.A. T'Stat, N.O. Damper
ENGINEER:		BJH/BC	
CUSTOMER:		231794	
SUBMITTAL DATE:	**SPEC. SYMBOL:**	2011/11/07	

REV A

FAN POWERED PNEUMATIC CONTROLS

Control Sequence Number 7013



NOTES:

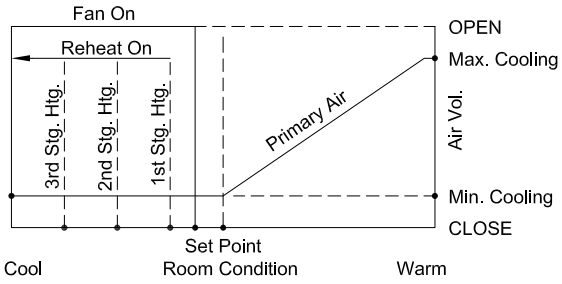
1. TOTAL AIR CONSUMPTION 0.017 SCFM.

LEGEND

FACTORY PNEUMATIC TUBING

FIELD PNEUMATIC TUBING

CONTROL GRAPH



Sequence of Operation -- Variable volume, intermittent fan, pressure independant, normally open, reverse acting cooling application with electric reheat coil.

An increase in space temperature decreases the thermostat output pressure. When the thermostat output decreases to 3 psi or less, the VAV box damper is maintained at the pre-selected maximum flow setting.

A decrease in space temperature increases the thermostat output pressure. When the thermostat output increases to 8 psi or more, the VAV box damper is maintained at the pre-selected minimum flow setting.

At thermostat output pressures between 3 & 8 psi the VAV damper modulates between minimum & maximum cooling flow.

At thermostat output pressures above 8 psi the minimum flow setting is maintained, and the thermostat will energize the unit fan to provide recirculated air to the space. The thermostat will also control the electric reheat coil.

Airflow is held constant at any given thermostat output pressure regardless of changes in inlet duct static pressure.

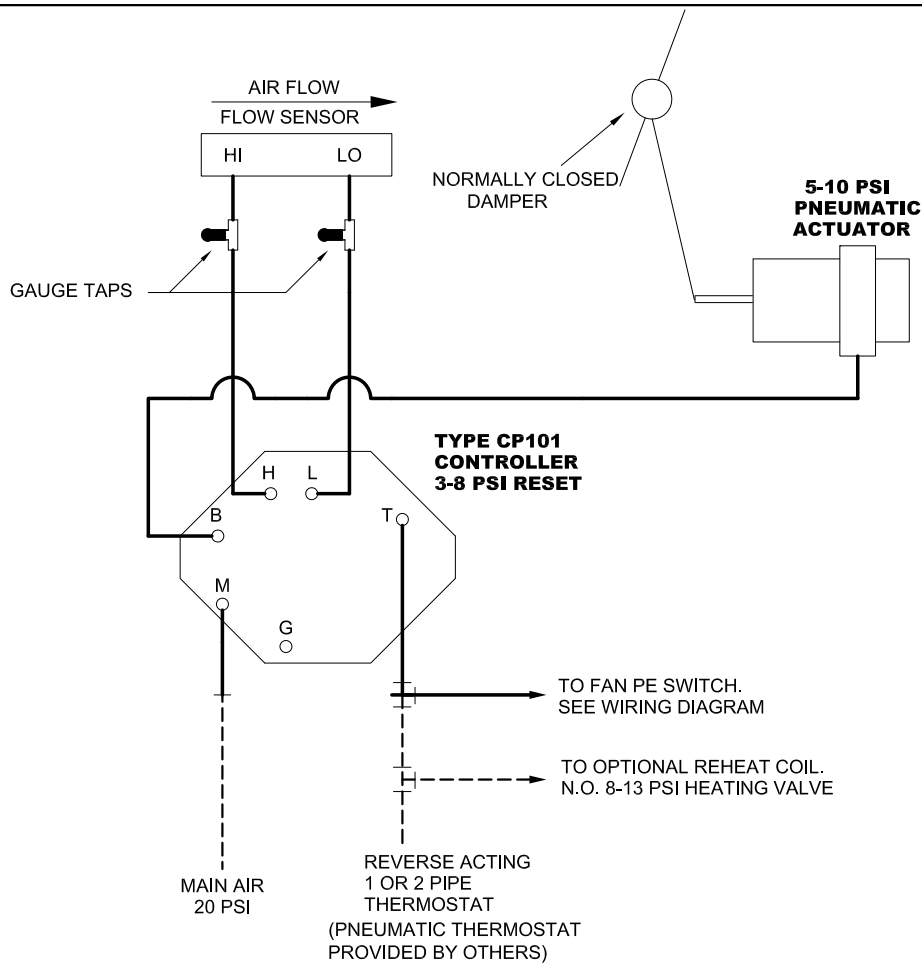
Normally Open Damper: On failure of the main air supply the damper will fail to the open position.

PROJECT:			
ENGINEER:		BJH/BC	FPV8 / FPVE8 Kreuter CP-101 Clg., Electric Reheat Coil Variable Vol., Intermittent Fan Pressure Independent R.A. T'Stat, N.O. Damper
CUSTOMER:		231795	
SUBMITTAL DATE:	**SPEC. SYMBOL:**	2011/11/07	

REV A

FAN POWERED PNEUMATIC CONTROLS

Control Sequence Number 7014



NOTES:

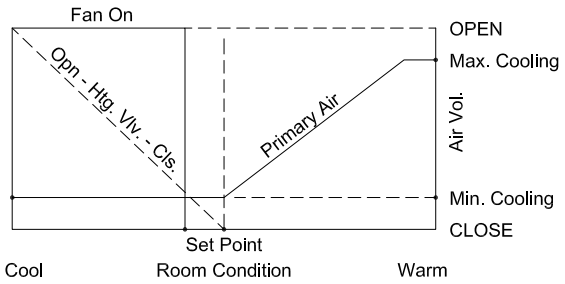
1. TOTAL AIR CONSUMPTION 0.017 SCFM.

LEGEND

FACTORY PNEUMATIC TUBING

FIELD PNEUMATIC TUBING

CONTROL GRAPH



Sequence of Operation -- Variable volume, intermittent fan, pressure independant, normally closed, reverse acting cooling application. HW reheat coil is optional.

An increase in space temperature decreases the thermostat output pressure. When the thermostat output decreases to 3 psi or less, the VAV box damper is maintained at the pre-selected maximum flow setting.

A decrease in space temperature increases the thermostat output pressure. When the thermostat output increases to 8 psi or more, the VAV box damper is maintained at the pre-selected minimum flow setting.

At thermostat output pressures between 3 & 8 psi the VAV damper modulates between minimum & maximum cooling flow.

At thermostat output pressures above 8 psi the minimum flow setting is maintained, and the thermostat will energize the unit fan to provide recirculated air to the space. The thermostat may also control the optional reheat coil.

Airflow is held constant at any given thermostat output pressure regardless of changes in inlet duct static pressure.

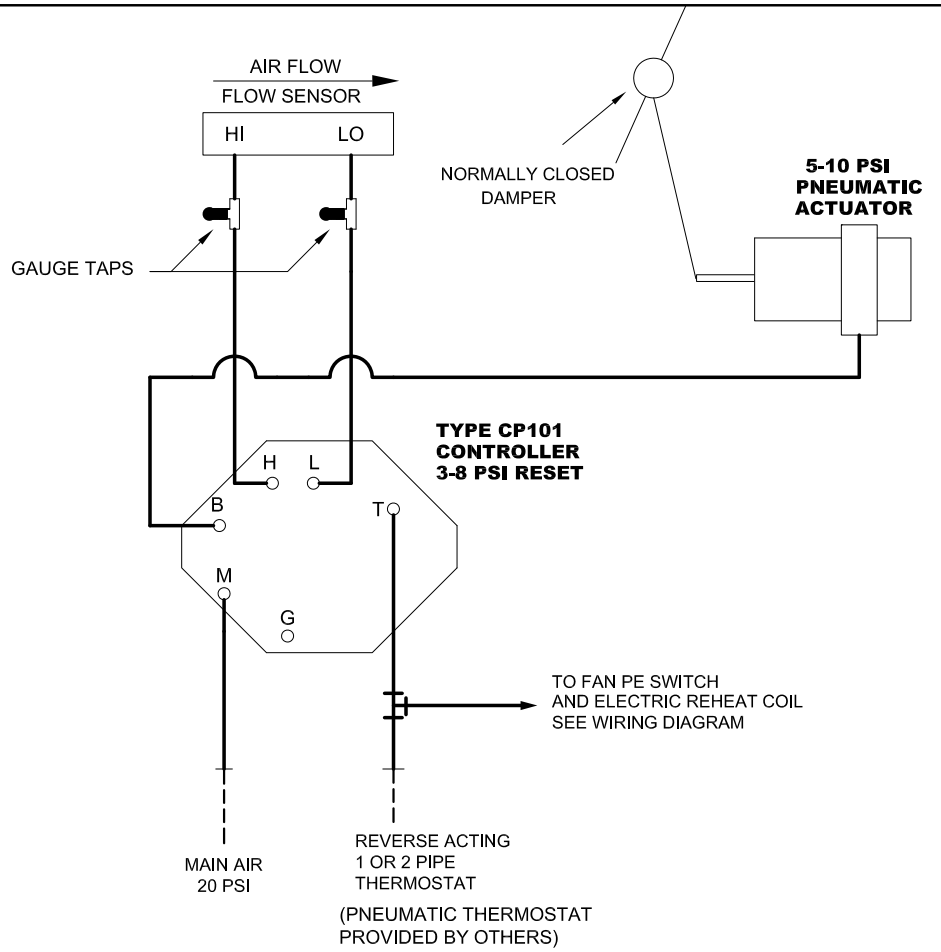
Normally Closed Damper: On failure of the main air supply the damper will fail to the closed position.

PROJECT:			FPV8 / FPVE8 Kreuter CP-101 Clg., HW Reheat Optional Variable Vol., Intermittent Fan Pressure Independent R.A. T'Stat, N.C. Damper
ENGINEER:		BJH/BC	
CUSTOMER:		231796	
SUBMITTAL DATE:	**SPEC. SYMBOL:**	2011/11/07	

REV A

FAN POWERED PNEUMATIC CONTROLS

Control Sequence Number 7015



NOTES:

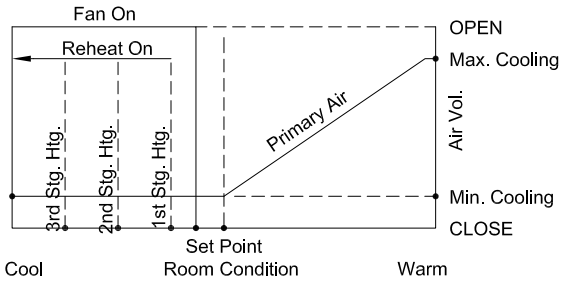
1. TOTAL AIR CONSUMPTION 0.017 SCFM.

LEGEND

FACTORY PNEUMATIC TUBING

FIELD PNEUMATIC TUBING

CONTROL GRAPH



Sequence of Operation -- Variable volume, intermittent fan, pressure independant, normally closed, reverse acting cooling application with electric reheat coil.

An increase in space temperature decreases the thermostat output pressure. When the thermostat output decreases to 3 psi or less, the VAV box damper is maintained at the preselected maximum flow setting.

A decrease in space temperature increases the thermostat output pressure. When the thermostat output increases to 8 psi or more, the VAV box damper is maintained at the preselected minimum flow setting.

At thermostat output pressures between 3 & 8 psi the VAV damper modulates between minimum & maximum cooling flow.

At thermostat output pressures above 8 psi the minimum flow setting is maintained, and the thermostat will energize the unit fan to provide recirculated air to the space. The thermostat will also control the electric reheat coil.

Airflow is held constant at any given thermostat output pressure regardless of changes in inlet duct static pressure.

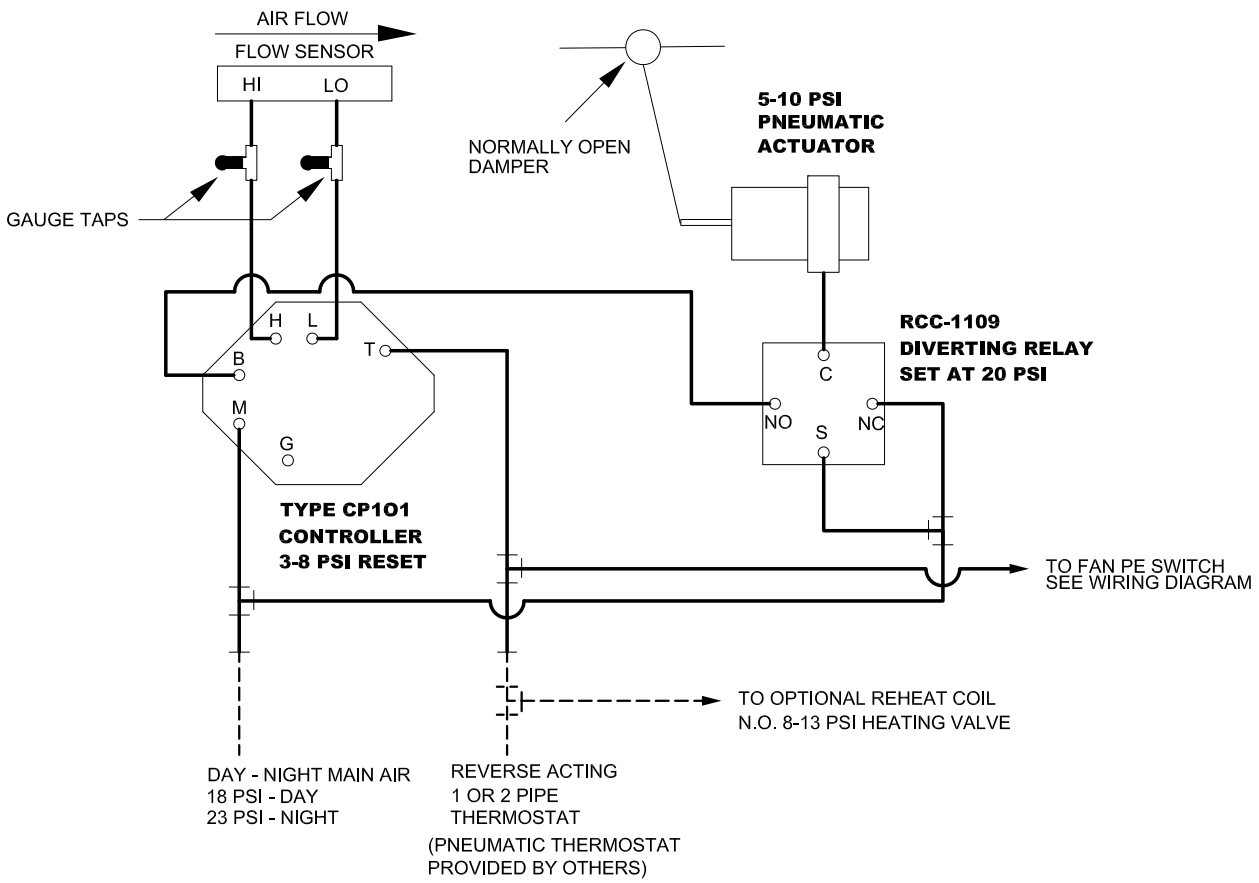
Normally Closed Damper: On failure of the main air supply the damper will fail to the closed position.

PROJECT:			
ENGINEER:		BJH/BL	FPV8 / FPVE8 Kreuter CP-101 Clg., Electric Reheat Coil Variable Vol., Intermittent Fan Pressure Independent R.A. T'Stat, N.C. Damper
CUSTOMER:		231797	
SUBMITTAL DATE:	**SPEC. SYMBOL:**	2011/11/07	

REV A

FAN POWERED PNEUMATIC CONTROLS

Control Sequence Number 7016



NOTES:

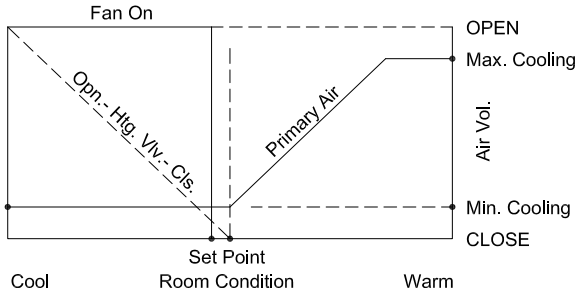
1. TOTAL AIR CONSUMPTION 0.017 SCFM.

LEGEND

FACTORY PNEUMATIC TUBING

FIELD PNEUMATIC TUBING

CONTROL GRAPH



Sequence of Operation -- Variable volume, intermittent fan, pressure independent, normally open, reverse acting cooling application with day-night fan control, and primary damper close-off at night. HW reheat coil is optional.

Day Operation: Occurs when the main air supply is at 18 psi or lower. An increase in space temperature decreases the thermostat output pressure. When the thermostat output decreases to 3 psi or less, the VAV box damper is maintained at the pre-selected maximum flow setting.

A decrease in space temperature increases the thermostat output pressure. When the thermostat output increases to 8 psi, the VAV box damper is maintained at the pre-selected minimum flow setting. At thermostat output pressures above 8 psi, the minimum flow setting is maintained, and the thermostat will energize the unit fan to provide recirculated air to the space. The thermostat may also control an optional reheat coil.

Airflow is held constant at any given thermostat output pressure between 3-8 psi regardless of changes in inlet duct static pressure.

Night Operation: Occurs when the main air supply is at 23 psi or higher. The VAV damper is held in the closed position. The thermostat will control the unit fan and optional reheat coil as described above to maintain the thermostat setting.

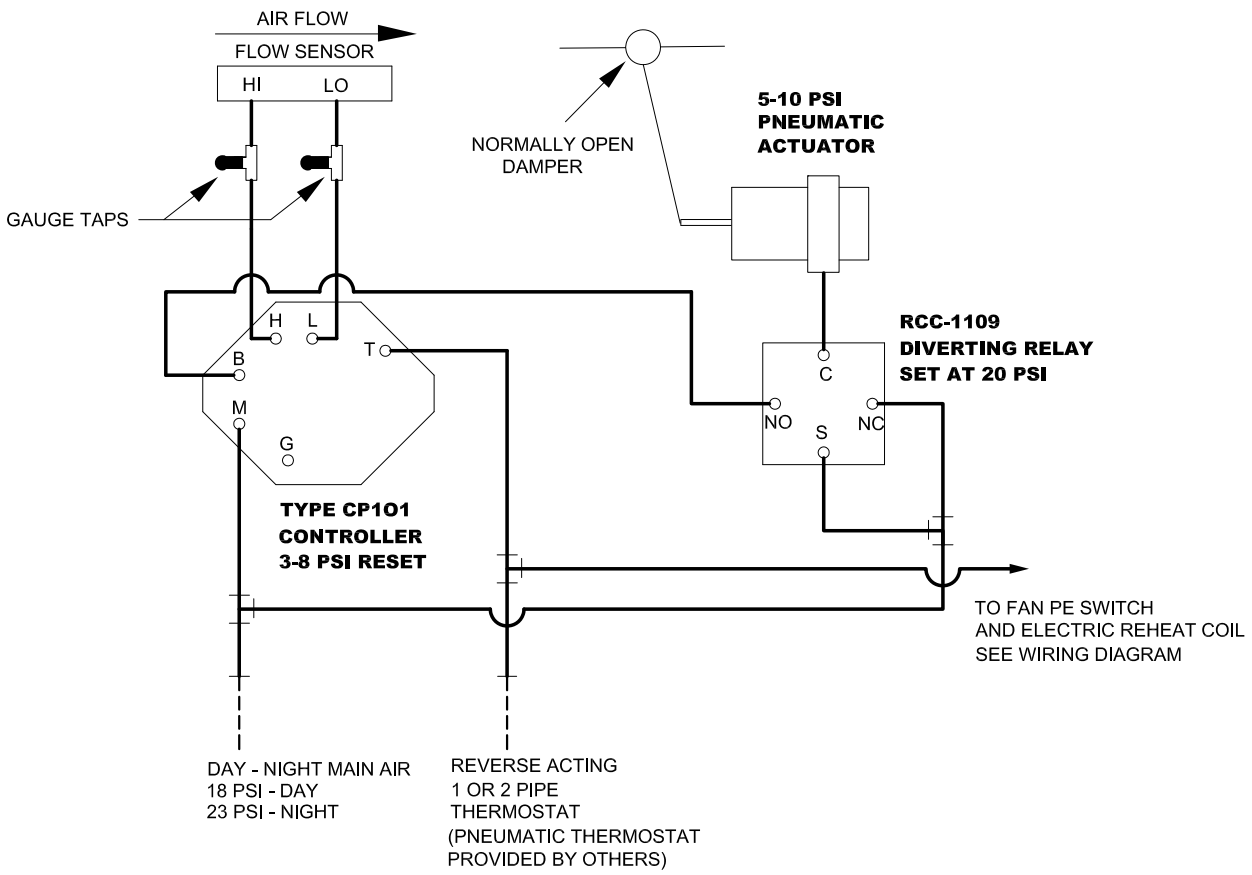
Normally Open Damper: On failure of the main air supply the damper will fail to the open position.

PROJECT:			
ENGINEER:		BJH/BC	FPV8 / FPVE8 Kreuter CP-101 Clg., HW Reheat Optional Variable Vol., Day - Night Main Pressure Independent R.A. T'Stat, N.O. Damper
CUSTOMER:		231798	
SUBMITTAL DATE:	**SPEC. SYMBOL:**	2011/11/07	

REV A

FAN POWERED PNEUMATIC CONTROLS

Control Sequence Number 7017



NOTES:

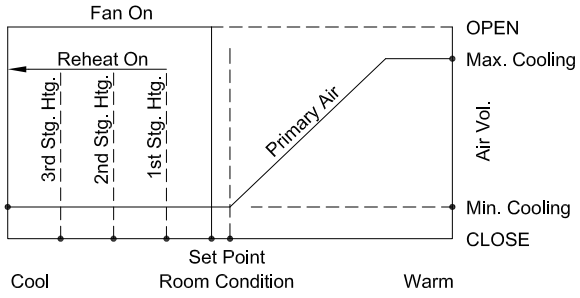
1. TOTAL AIR CONSUMPTION 0.017 SCFM.

LEGEND

——— FACTORY PNEUMATIC TUBING

– – – – – – – FIELD PNEUMATIC TUBING

CONTROL GRAPH



Sequence of Operation -- Variable volume, intermittent fan, pressure independent, normally open, reverse acting cooling application with electric reheat coil, day-night fan control, and primary damper close-off at night.

Day Operation: Occurs when the main air supply is at 18 psi or lower. An increase in space temperature decreases the thermostat output pressure. When the thermostat output decreases to 3 psi or less, the VAV box damper is maintained at the pre-selected maximum flow setting.

A decrease in space temperature increases the thermostat output pressure. When the thermostat output increases to 8 psi, the VAV box damper is maintained at the pre-selected minimum flow setting. At thermostat output pressures above 8 psi, the minimum flow setting is maintained, and the thermostat will energize the unit fan to provide recirculated air to the space. The thermostat will also control an electric reheat coil.

Airflow is held constant at any given thermostat output pressure regardless of changes in inlet duct static pressure.

Night Operation: Occurs when the main air supply is at 23 psi or higher. The VAV damper is held in the closed position. The thermostat will control the unit fan and optional reheat coil as described above to maintain the thermostat setting.

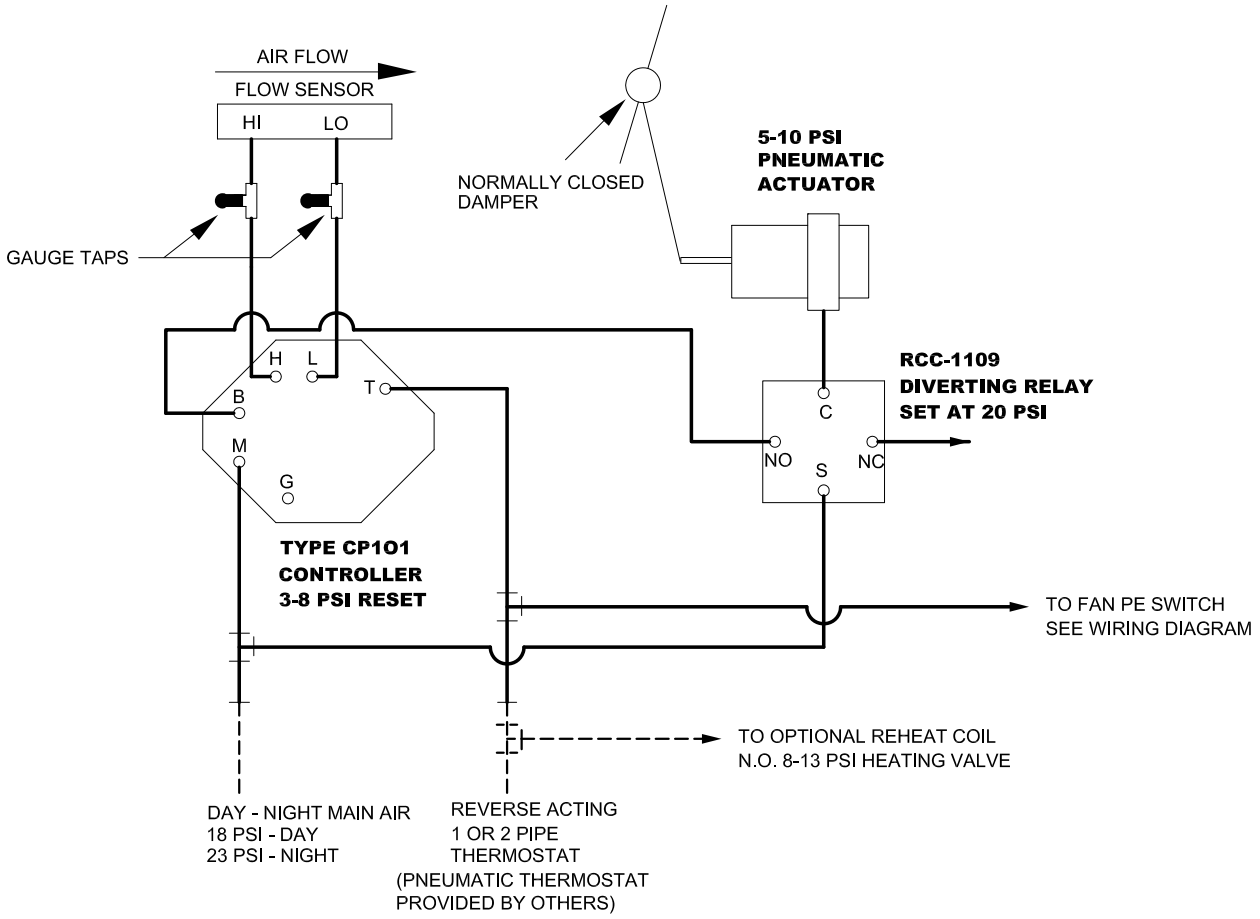
Normally Open Damper: On failure of the main air supply the damper will fail to the open position.

PROJECT:			FPV8 / FPVE8 Kreuter CP-101 Clg., Electric Reheat Coil Variable Vol., Day - Night fan Pressure Independent R.A. T'Stat, N.O. Damper
ENGINEER:		BJH/BC	
CUSTOMER:		231799	
SUBMITTAL DATE:	**SPEC. SYMBOL:**	2011/11/07	

REV A

FAN POWERED PNEUMATIC CONTROLS

Control Sequence Number 7018



NOTES:

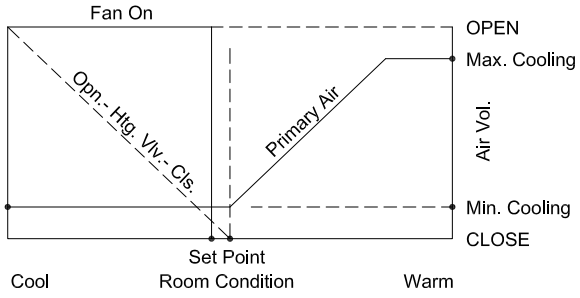
1. TOTAL AIR CONSUMPTION 0.017 SCFM.

LEGEND

——— FACTORY PNEUMATIC TUBING

– – – – – – – FIELD PNEUMATIC TUBING

CONTROL GRAPH



Sequence of Operation -- Variable volume, intermittent fan, pressure independent, normally closed, reverse acting cooling application with day-night fan control, and primary damper close-off at night. HW reheat coil is optional.

Day Operation: Occurs when the main air supply is at 18 psi or lower. An increase in space temperature decreases the thermostat output pressure. When the thermostat output decreases to 3 psi or less, the VAV box damper is maintained at the pre-selected maximum flow setting.

A decrease in space temperature increases the thermostat output pressure. When the thermostat output increases to 8 psi, the VAV box damper is maintained at the pre-selected minimum flow setting. At thermostat output pressures above 8 psi, the minimum flow setting is maintained, and the thermostat will energize the unit fan to provide recirculated air to the space. The thermostat may also control an optional reheat coil.

Airflow is held constant at any given thermostat output pressure regardless of changes in inlet duct static pressure.

Night Operation: Occurs when the main air supply is at 23 psi or higher. The VAV damper is held in the closed position. The thermostat will control the unit fan and optional reheat coil as described above to maintain the thermostat setting.

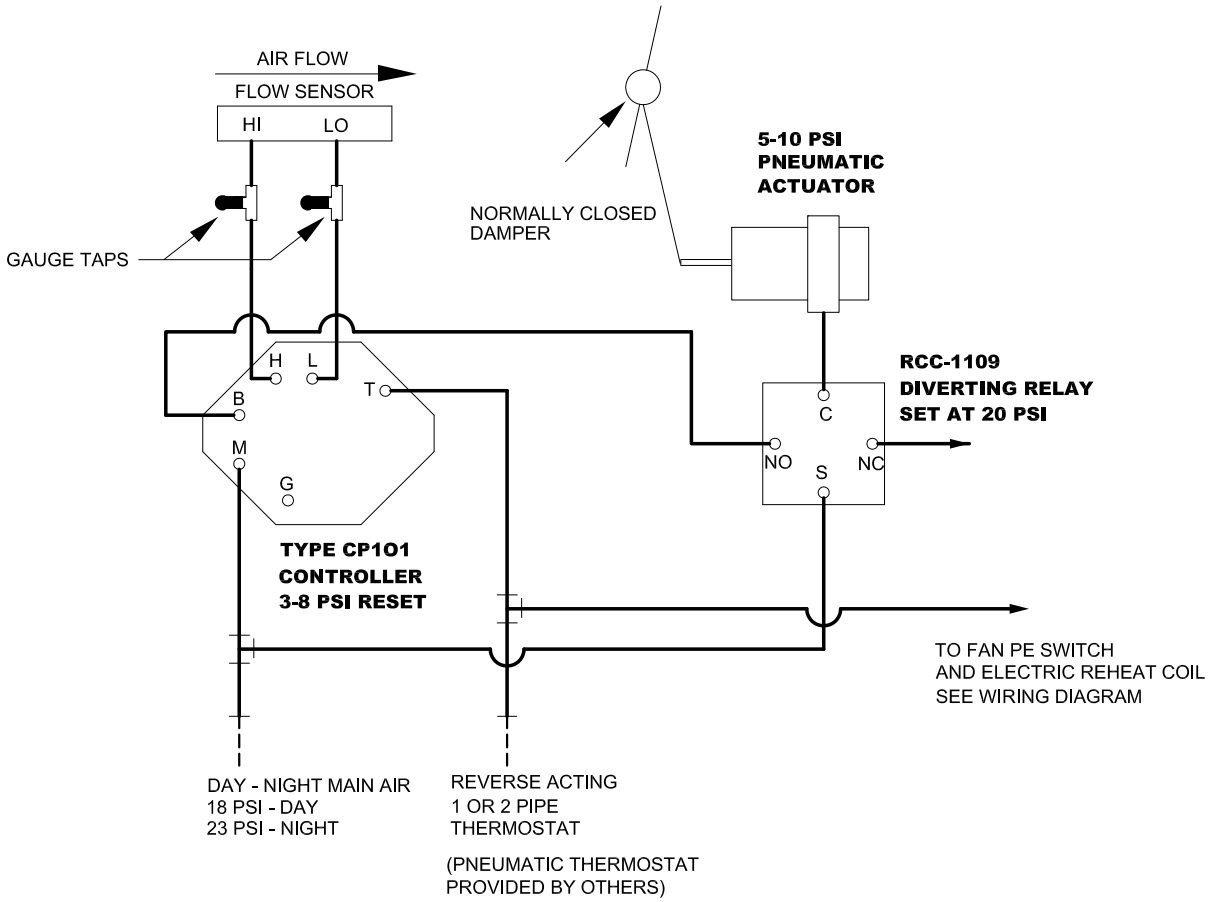
Normally Closed Damper: On failure of the main air supply the damper will fail to the closed position.

PROJECT:			FPV8 / FPVE8 Kreuter CP-101 Clg., HW Reheat Optional Variable Vol., Day - Night fan Pressure Independent R.A. T'Stat, N.C. Damper
ENGINEER:		BJH/BE	
CUSTOMER:		231800	
SUBMITTAL DATE:	**SPEC. SYMBOL:**	2011/11/07	

REV A

FAN POWERED PNEUMATIC CONTROLS

Control Sequence Number 7019



NOTES:

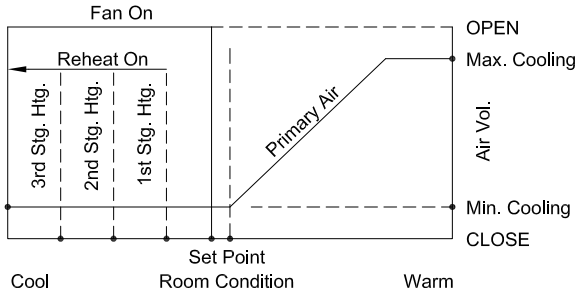
1. TOTAL AIR CONSUMPTION 0.017 SCFM.

LEGEND

FACTORY PNEUMATIC TUBING

FIELD PNEUMATIC TUBING

CONTROL GRAPH



Sequence of Operation -- Variable volume, intermittent fan, pressure independent, normally closed, reverse acting cooling application with electric reheat coil, day-night fan control, and primary damper close-off at night.

Day Operation: Occurs when the main air supply is at 18 psi or lower. An increase in space temperature decreases the thermostat output pressure. When the thermostat output decreases to 3 psi or less, the VAV box damper is maintained at the pre-selected maximum flow setting.

A decrease in space temperature increases the thermostat output pressure. When the thermostat output increases to 8 psi, the VAV box damper is maintained at the pre-selected minimum flow setting. At thermostat output pressures above 8 psi, the minimum flow setting is maintained, and the thermostat will energize the unit fan to provide recirculated air to the space. The thermostat will also control an electric reheat coil.

Airflow is held constant at any given thermostat output pressure regardless of changes in inlet duct static pressure.

Night Operation: Occurs when the main air supply is at 23 psi or higher. The VAV damper is held in the closed position. The thermostat will control the unit fan and optional reheat coil as described above to maintain the thermostat setting.

Normally Closed Damper: On failure of the main air supply the damper will fail to the closed position.

PROJECT:			
ENGINEER:		BJH/BC	FPV8 / FPVE8 Kreuter CP-101 Clg., Electric Reheat Coil Variable Vol., Day - Night fan Pressure Independent R.A. T'Stat, N.C. Damper
CUSTOMER:		231801	
SUBMITTAL DATE:	**SPEC. SYMBOL:**	2011/11/07	

REV A