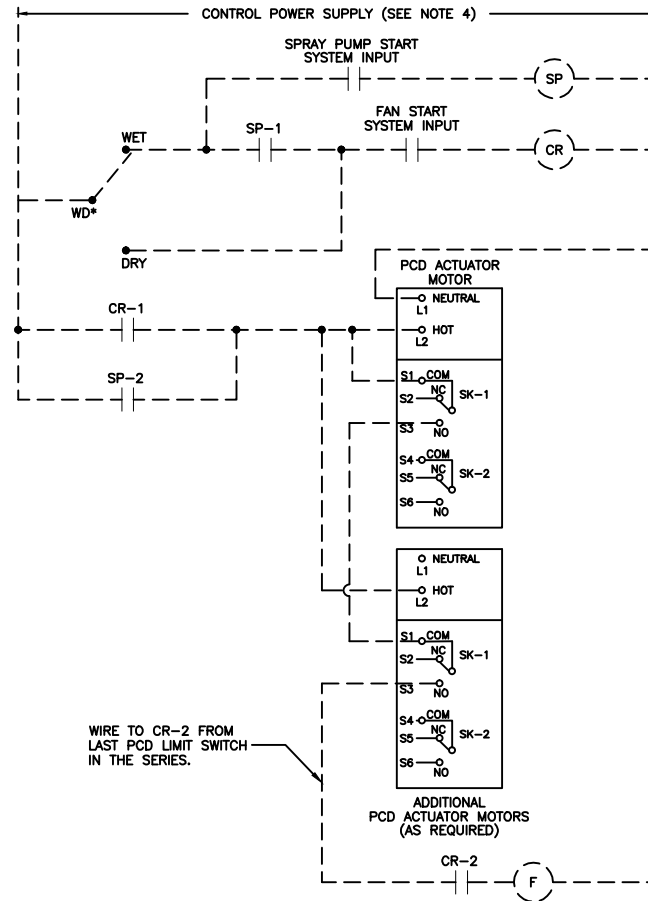


THE PURPOSE OF THE POSITIVE CLOSURE DAMPER(PCD) HOOD IS TO REDUCE HEAT LOSS FROM THE COIL DURING NO LOAD CONDITIONS.

THE PCD DAMPERS OPEN WHENEVER THE UNIT'S SPRAY PUMP IS ON AND/OR THE FAN START SYSTEM INPUT IS CLOSED. ALL DAMPER SECTIONS MUST BE FULLY OPENED AND THE NORMALLY OPEN END SWITCH(S) MUST CLOSE TO ENERGIZE THE FAN MOTOR STARTER COIL.

A THERMOSTAT INSTALLED IN THE UNIT'S COIL OUTLET PIPING MAY BE USED TO PROVIDE THE SPRAY PUMP START SYSTEM INPUT. THE THERMOSTAT IS TYPICALLY SET 5°F BELOW THE FAN OR FAN DAMPER SET POINT.

\*SPECIAL NOTE — DUE TO THE INCREASED FAN MOTOR LOADING WHEN A UNIT OPERATES WITHOUT THE SPRAY PUMP THE DRY MODE OF THE OPERATION SHOULD ONLY BE USED WHERE DRIVE SYSTEMS HAVE BEEN SPECIFICALLY DESIGNED FOR SUCH APPLICATIONS.



**COMPONENT LEGEND**  
 CR: CONTROL RELAY  
 F: FAN MOTOR STARTER COIL  
 SK: AUXILIARY END SWITCH  
 SP: SPRAY PUMP STARTER COIL  
 WD: WET/DRY OPERATION SELECTOR SWITCH

**NOTES:**

1. THE DAMPER ACTUATOR MOTOR(S) ARE SPRING RETURN TYPE, BELIMO (MODEL AFBUP-S).
2. THE DAMPER ACTUATOR MOTOR(S) AND LINKAGE(S) ARE FACTORY-MOUNTED ON THE HOOD(S).
3. ALL WIRING TO BE FURNISHED BY FIRMS OTHER THAN BALTIMORE AIRCOIL COMPANY AND MUST COMPLY WITH ALL APPLICABLE CODES AND ORDINANCES.
4. POWER SUPPLY FOR DAMPER ACTUATOR MOTOR(S) TO BE 24VAC...240VAC / 24VDC...125VDC - 50/60 Hz. PROVIDE DISCONNECT MEANS AND OVERLOAD PROTECTION AS REQUIRED.
5. RUNNING POWER CONSUMPTION IS 7 W. HOLDING POWER CONSUMPTION IS 3.5 W.
6. TRANSFORMER SIZING IS 7VA @ 24VAC (CLASS 2 POWER SUPPLY); 8.5VA @ 120VAC; 18VA @ 240 VAC.
7. BROKEN LINES INDICATE WIRING AND COMPONENTS SUPPLIED BY OTHERS.
8. GROUND CONNECTION IS NOT REQUIRED.
9. ACTUATORS MAY BE CONNECTED IN PARALLEL. POWER CONSUMPTION AND INPUT IMPEDANCE MUST BE OBSERVED.
10. TWO BUILT-IN AUXILIARY SWITCHES INCORPORATED FOR END POSITION INDICATION: 2xSPDT, 3A (0.5A) @250VAC. ONE SWITCH IS FIXED AT +10°, ONE SWITCH IS ADJUSTABLE 10° TO 90°.

MODEL AFBUP-S

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**BALTIMORE AIRCOIL COMPANY**

**Wiring Diagram  
Positive Closure Damper**

DRAWING NUMBER:  
**PW-U150762301**