

# February 2010

# Back<sup>2</sup>Basics

## Solution

Based on Cx-3 ATC/FPT software

### TAB Existing AHU-1

Measurement Point	Criteria	Occupied-Max Cooling		Occupied-Min Cooling		Occupied-Min Heating		TAB Tester Questions
		Design	Actual	Design	Actual	Design	Actual	
<b>1</b> Mixed air plenum	Flow static pressure velocity	14,000 cfm -0.25 in. sp 500 fpm	10,430 cfm -0.15 in. sp 372 fpm					A. OK per basis of design <b>B. OA damper D-1 open more than required - answer</b> C. OA damper D-1 closed
<b>2</b> After filter and before heating coil	Flow static pressure velocity	14,000 cfm -0.50 in. sp 500 fpm	10,430 cfm -0.98 in. sp 372 fpm					A. OK per basis of design B. Filter pressure drop OK <b>C. Filter PD excessive. Issue PM workorder to replace filters - answer</b>
<b>3</b> After heating coil and before fan	Flow static pressure velocity	14,000 cfm -1.25 in. sp 500 fpm	10,430 cfm -1.80 in. sp 372 fpm					A. OK per basis of design <b>B. Coil PD OK - answer</b> C. Coil PD excessive. Issue PM workorder to clean coil
<b>4</b> After fan and before cooling coil	Flow static pressure velocity	14,000 cfm +1.50 in. sp 450 fpm	10,430 cfm +0.50 in. sp 335 fpm					A. OK per basis of design B. Coil PD OK <b>C. Coil PD excessive. Issue PM workorder to clean coil - answer</b>
<b>5</b> After cooling coil	Flow static pressure velocity	14,000 cfm +0.50 in. sp 1,100 fpm	10,430 cfm +0.15 in. sp 815 fpm					A. OK per basis of design <b>B. Will be OK after completion of workorders and re-balancing - answer</b> C. Blockage in ductwork