

AIR APPARATUS TEST REPORT

PROJECT NAME:	1441 - King Soopers - Falcon - DOAS 2						
EQUIPMENT / SYSTEM:	DOAS-2						
UNIT INFORMATION							
		DESIGN			ACTUAL		
MANUFACTURER		Captive Aire			Captive Aire		
MODEL #		CASRTU3-I.400-22-12.5T			CASRTU3-I.500-22-12.5T		
SERIAL #					5990290		
LOCATION / SERVICE							
FAN INFORMATION							
		DESIGN			ACTUAL		
Total Airflow (CFM)		4,515			6,337		
Total of Terminals (CFM)		4,515			6,337		
Return Airflow (CFM)							
Outside Airflow (CFM)		4,515			6,337		
Total Static Pressure (in. w.g.)					0.97		
External Static Pressure (in. w.g.)		0.50			0.27		
Fan Speed (RPM / Setpoint)		1,547			D.D. / 50 HZ		
VFD Speed (Hz)					50 HZ		
OA Damper Postion (% Open)					open		
MOTOR INFORMATION							
		DESIGN / NAMEPLATE			ACTUAL		
Manufacturer / Frame - Nameplate					Ziehl-ABEGG		
Horse Power (HP)		5.00			5		
Brake Horse Power (BHP)					5.85		
Volts	Phase	460	3	485	488	487	
Full Load Amps		7.20			7.42	6.60	7.55
Corrected Nameplate Amps		-			6.81		
Motor Speed (RPM / Setting)					D.D. / 50 HZ		
Service Factor		-			n/g		
Current Overload Size/Setting		-			50 HZ		
FILTER INFORMATION							
DESIGN (MERV Rating)		BANK #1 Style/Size(Qty)			BANK #2 Style/Size(Qty)		
n/g		(8) 20x25x2					

Technician(s): _____ Curtis Tunink _____ Date: 7/5/2024

RECTANGLE DUCT TRAVERSE TEST REPORT

PROJECT NAME:		1441 - King Soopers - Falcon - DOAS 2											
EQUIPMENT / SYSTEM:		DOAS-2 - Total Air											
DUCT TRAVERSE INFORMATION													
Duct Zone:		DOAS-2				Required CFM:		4515		Required FPM:		454	
Duct Size:		45.5	X	31.5	WxH"	Area:		9.95		Static Pressure:		-0.09 in.w.g.	
Instrument:		Velgrid		Corr Factor	1	Altitude:		5280 FT		Temperature:		n/a	
DUCT TRAVERSE MEASUREMENTS													
Velocity Total (FPM):		7,640			Velocity Average (FPM):			637			Actual Airflow (CFM):		6,337
POS	1	2	3	4	5	6	7	8	9	10	11	Distance Height	
1	297	292	538	391								5.3	
2	571	627	772	804								15.8	
3	712	783	906	947								26.3	
4												36.8	
5												47.3	
6												57.8	
7												68.3	
8												78.8	
9												89.3	
10												99.8	
11												110.3	
Distance Width	5.7	17.1	28.4	39.8	51.2	62.6	73.9	85.3	96.7	108.1	119.4	Inches	
Totals	1580	1702	2216	2142	0	0	0	0	0	0	0		

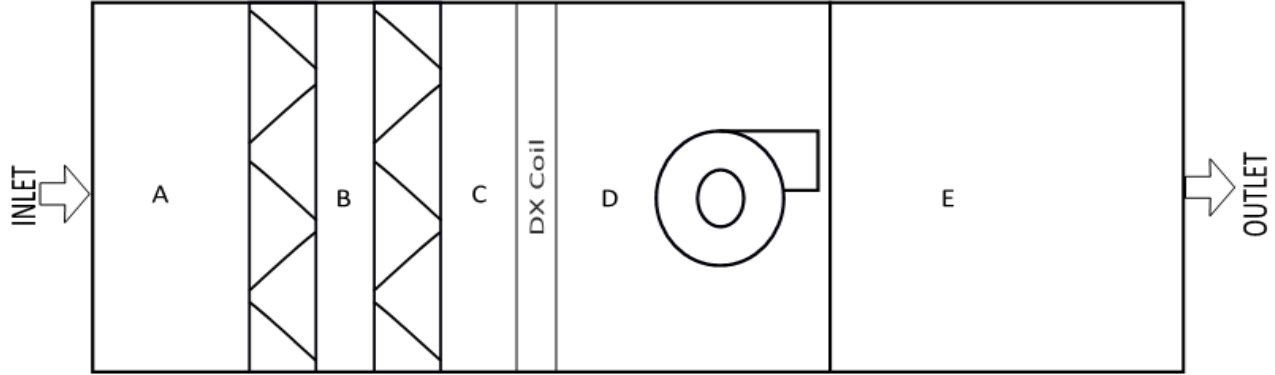
Comments: Unit controller is locked out at 50 hz. Cannot set VFD to 35 HZ to achieve design CFM.

Technician(s): Curtis Tunink Date: 7/5/2024

NEBB CERTIFIED TESTING & BALANCING

STATIC PRESSURE PROFILE

PROJECT NAME:	1441 - King Soopers - Falcon - DOAS 2
EQUIPMENT / SYSTEM:	DOAS-2 - Statics
SYSTEM INFORMATION	
Static Pressure Profile Setup:	FilFilCoilFanDis
Design Airflow (CFM)	4515
Measured Airflow (CFM)	6337



ESP:	0.27	TSP:	0.97
-------------	-------------	-------------	-------------

STATIC PRESSURE READINGS (in. w.g.)											
Location	A	B	C	D	E	F	G	H	I	J	K
Supply	-0.09	-0.24	-0.34	-0.79	0.18						

Comments: _____

Technician(s): Curtis Tunink Date: 7/5/24