

NEBB CERTIFIED TESTING & BALANCING

AIR APPARATUS TEST REPORT

PROJECT NAME:	1330 - King Soopers 147						
EQUIPMENT / SYSTEM:	RTU-1						
UNIT INFORMATION							
		DESIGN				ACTUAL	
MANUFACTURER		Lennox				Lennox	
MODEL #		LGM150U4E				LGM150U4EH1G	
SERIAL #						5622K06412	
LOCATION / SERVICE						Sales	
FAN INFORMATION							
		DESIGN				ACTUAL	
Total Airflow (CFM)		5,000				5,129	
Total of Terminals (CFM)		5,000				5,129	
Return Airflow (CFM)		5,000				5,129	
Outside Airflow (CFM)							
Total Static Pressure (in. w.g.)						0.82	
External Static Pressure (in. w.g.)		0.15				0.46	
Fan Speed (RPM / Setpoint)						D.D.	
VFD Speed (Hz)						n/a	
OA Damper Postion (% Open)						n/a	
MOTOR INFORMATION							
		DESIGN / NAMEPLATE				ACTUAL	
Manufacturer / Frame - Nameplate						ebmpapst / n/g	
Horse Power (HP)		3.75				n/g	
Brake Horse Power (BHP)						1.20	
Volts	Phase	480		3	491	492	493
Full Load Amps		4.30			1.58	1.46	1.34
Corrected Nameplate Amps		-			4.20		
Motor Speed (RPM / Setting)					D.D.		
Service Factor		-			n/g		
Current Overload Size/Setting		-			77% Speed		
FILTER INFORMATION							
DESIGN (MERV Rating)		BANK #1 Style/Size(Qty)				BANK #2 Style/Size(Qty)	
Merv 8		(4) 20x25x2					

Technician(s): _____ Curtis Tunink _____ Date: _____ 1/16/2024 _____

RECTANGLE DUCT TRAVERSE TEST REPORT

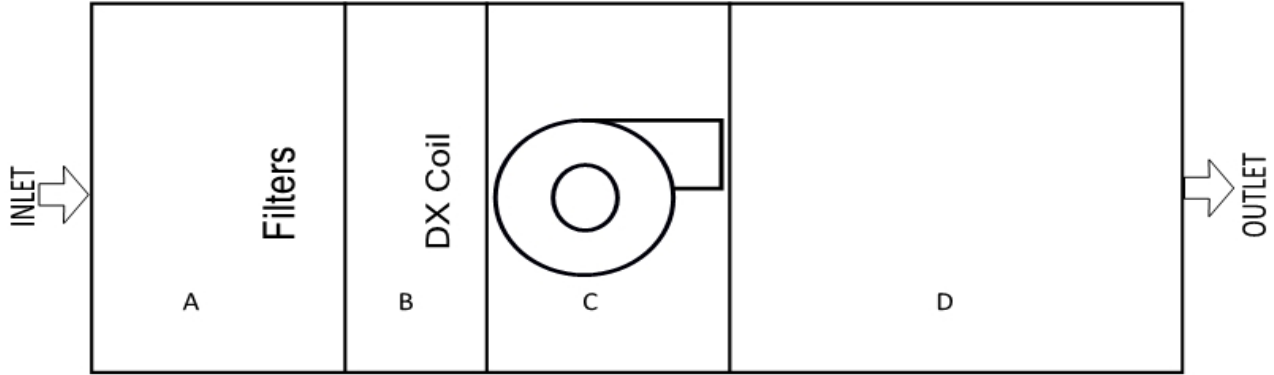
PROJECT NAME:		1330 - King Soopers 147										
EQUIPMENT / SYSTEM:		RTU-1 - Total Air										
DUCT TRAVERSE INFORMATION												
Duct Zone:	RTU-1					Required CFM:	5000		Required FPM:	1152		
Duct Size:	25	X	25	WxH"	Area:	4.34		Static Pressure:	-0.12 in.w.g.			
Instrument:	Velgrid		Corr Factor	1	Altitude:	5280 FT		Temperature:	n/a			
DUCT TRAVERSE MEASUREMENTS												
Velocity Total (FPM):		4,727			Velocity Average (FPM):		1,182		Actual Airflow (CFM):		5,129	
POS	1	2	3	4	5	6	7	8	9	10	11	Distance Height
1	1345	1289										6.3
2	1132	961										18.8
3												31.3
4												43.8
5												56.3
6												68.8
7												81.3
8												93.8
9												106.3
10												118.8
11												131.3
Distance Width	6.3	18.8	31.3	43.8	56.3	68.8	81.3	93.8	106.3	118.8	131.3	Inches
Totals	2477	2250	0	0	0	0	0	0	0	0	0	

Comments: _____

Technician(s): _____ Curtis Tunink _____ Date: _____ 1/19/2024 _____

STATIC PRESSURE PROFILE

PROJECT NAME:	1330 - King Soopers 147
EQUIPMENT / SYSTEM:	RTU-1
SYSTEM INFORMATION	
Static Pressure Profile Setup:	FILTER, COIL, FAN
Design Airflow (CFM)	5000
Measured Airflow (CFM)	5129



ESP:	0.46	TSP:	0.92
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<i>STATIC PRESSURE READINGS (in. w.g.)</i>											
Location	A	B	C	D	E	F	G	H	I	J	K
Supply	-0.12	-0.36	-0.58	0.34							

Comments: _____

Technician(s): Curtis Tunink Date: 1/19/24

AIR APPARATUS TEST REPORT

PROJECT NAME:	1330 - King Soopers 147						
EQUIPMENT / SYSTEM:	RTU-2						
UNIT INFORMATION							
		DESIGN				ACTUAL	
MANUFACTURER		Lennox				Lennox	
MODEL #		LGM150U4E				LGM150U4EH1G	
SERIAL #						5622L00680	
LOCATION / SERVICE						Sales	
FAN INFORMATION							
		DESIGN				ACTUAL	
Total Airflow (CFM)		5,000				5,144	
Total of Terminals (CFM)		5,000				5,144	
Return Airflow (CFM)		5,000				5,144	
Outside Airflow (CFM)							
Total Static Pressure (in. w.g.)						0.94	
External Static Pressure (in. w.g.)		0.15				0.54	
Fan Speed (RPM / Setpoint)						D.D.	
VFD Speed (Hz)						n/a	
OA Damper Postion (% Open)						n/a	
MOTOR INFORMATION							
		DESIGN / NAMEPLATE				ACTUAL	
Manufacturer / Frame - Nameplate						ebmpapst / n/g	
Horse Power (HP)		3.75				n/g	
Brake Horse Power (BHP)						1.26	
Volts	Phase	480		3	491	492	493
Full Load Amps		4.30			1.43	1.53	1.62
Corrected Nameplate Amps		-			4.20		
Motor Speed (RPM / Setting)					D.D.		
Service Factor		-			n/g		
Current Overload Size/Setting		-			77% Speed		
FILTER INFORMATION							
DESIGN (MERV Rating)		BANK #1 Style/Size(Qty)			BANK #2 Style/Size(Qty)		
Merv 8		(4) 20x25x2					

Technician(s): _____ Curtis Tunink _____ Date: _____ 1/11/2024 _____

RECTANGLE DUCT TRAVERSE TEST REPORT

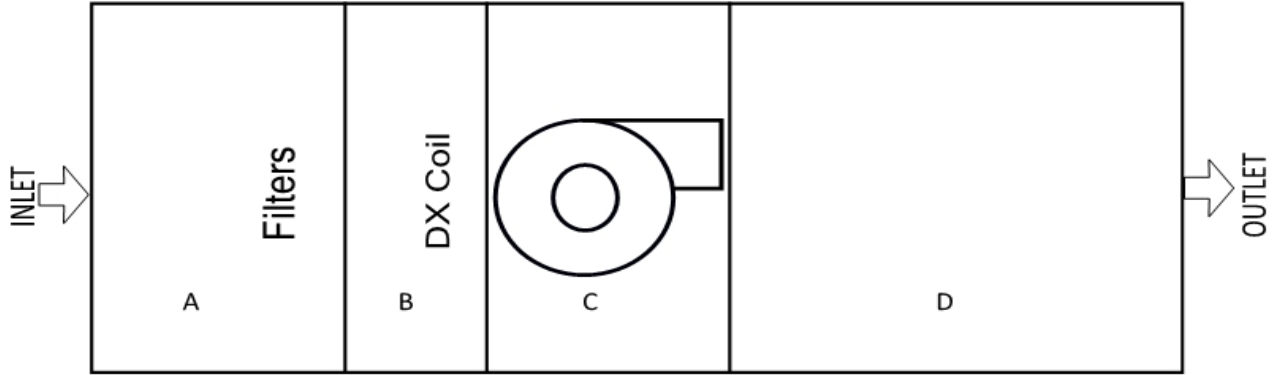
PROJECT NAME:		1330 - King Soopers 147										
EQUIPMENT / SYSTEM:		RTU-2 - Total Air										
DUCT TRAVERSE INFORMATION												
Duct Zone:	RTU-2					Required CFM:	5000		Required FPM:	1152		
Duct Size:	25	X	25	WxH"	Area:	4.34		Static Pressure:	-0.14 in.w.g.			
Instrument:	Velgrid		Corr Factor	1	Altitude:	5280 FT		Temperature:	n/a			
DUCT TRAVERSE MEASUREMENTS												
Velocity Total (FPM):		4,741			Velocity Average (FPM):		1,185		Actual Airflow (CFM):		5,144	
POS	1	2	3	4	5	6	7	8	9	10	11	Distance Height
1	1372	1221										6.3
2	1056	1092										18.8
3												31.3
4												43.8
5												56.3
6												68.8
7												81.3
8												93.8
9												106.3
10												118.8
11												131.3
Distance Width	6.3	18.8	31.3	43.8	56.3	68.8	81.3	93.8	106.3	118.8	131.3	Inches
Totals	2428	2313	0	0	0	0	0	0	0	0	0	

Comments: _____

Technician(s): Curtis Tunink Date: 1/19/2024

STATIC PRESSURE PROFILE

PROJECT NAME:	1330 - King Soopers 147
EQUIPMENT / SYSTEM:	RTU-2
SYSTEM INFORMATION	
Static Pressure Profile Setup:	FILTER, COIL, FAN
Design Airflow (CFM)	5000
Measured Airflow (CFM)	5144



ESP: 0.54

TSP: 0.94

STATIC PRESSURE READINGS (in. w.g.)											
Location	A	B	C	D	E	F	G	H	I	J	K
Supply	-0.14	-0.35	-0.54	0.40							

Comments: _____

Technician(s): Curtis Tunink Date: 1/19/24

AIR APPARATUS TEST REPORT

PROJECT NAME:	1330 - King Soopers 147						
EQUIPMENT / SYSTEM:	RTU-3						
UNIT INFORMATION							
		DESIGN			ACTUAL		
MANUFACTURER		Lennox			Lennox		
MODEL #		LGM150U4E			LGM150U4EH1G		
SERIAL #					5622L00676		
LOCATION / SERVICE					Sales		
FAN INFORMATION							
		DESIGN			ACTUAL		
Total Airflow (CFM)		5,000			5,036		
Total of Terminals (CFM)		5,000			5,036		
Return Airflow (CFM)		5,000			5,036		
Outside Airflow (CFM)							
Total Static Pressure (in. w.g.)					0.87		
External Static Pressure (in. w.g.)		0.15			0.49		
Fan Speed (RPM / Setpoint)					D.D.		
VFD Speed (Hz)					n/a		
OA Damper Postion (% Open)					n/a		
MOTOR INFORMATION							
		DESIGN / NAMEPLATE			ACTUAL		
Manufacturer / Frame - Nameplate					ebmpapst / n/g		
Horse Power (HP)		3.75			n/g		
Brake Horse Power (BHP)					1.19		
Volts	Phase	480	3	491	492	493	
Full Load Amps		4.30			1.61	1.30	1.44
Corrected Nameplate Amps		-			4.20		
Motor Speed (RPM / Setting)					D.D.		
Service Factor		-			n/g		
Current Overload Size/Setting		-			77% Speed		
FILTER INFORMATION							
DESIGN (MERV Rating)		BANK #1 Style/Size(Qty)			BANK #2 Style/Size(Qty)		
Merv 8		(4) 20x25x2					

Technician(s): _____ Curtis Tunink _____ Date: _____ 1/11/2024 _____

RECTANGLE DUCT TRAVERSE TEST REPORT

PROJECT NAME:		1330 - King Soopers 147											
EQUIPMENT / SYSTEM:		RTU-3 - Total Air											
DUCT TRAVERSE INFORMATION													
Duct Zone:		RTU-3				Required CFM:		5000		Required FPM:		1152	
Duct Size:		25	X	25	WxH"	Area:		4.34		Static Pressure:		0.09 in.w.g.	
Instrument:		Velgrid		Corr Factor	1	Altitude:		5280 FT		Temperature:		n/a	
DUCT TRAVERSE MEASUREMENTS													
Velocity Total (FPM):		4,641			Velocity Average (FPM):			1,160			Actual Airflow (CFM):		5,036
POS	1	2	3	4	5	6	7	8	9	10	11	Distance Height	
1	1346	1296										6.3	
2	1142	857										18.8	
3												31.3	
4												43.8	
5												56.3	
6												68.8	
7												81.3	
8												93.8	
9												106.3	
10												118.8	
11												131.3	
Distance Width	6.3	18.8	31.3	43.8	56.3	68.8	81.3	93.8	106.3	118.8	131.3	Inches	
Totals	2488	2153	0	0	0	0	0	0	0	0	0		

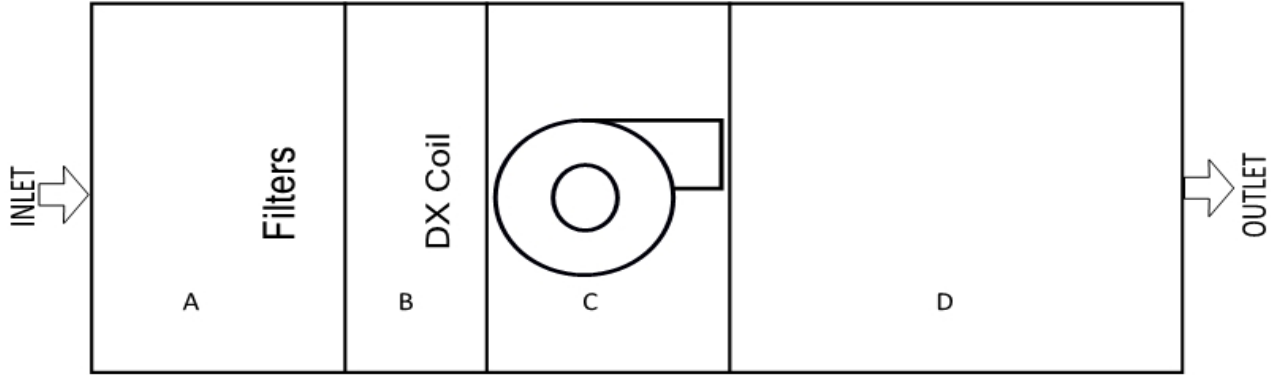
Comments: _____

Technician(s): Curtis Tunink Date: 1/19/2024

NEBB CERTIFIED TESTING & BALANCING

STATIC PRESSURE PROFILE

PROJECT NAME:	1330 - King Soopers 147
EQUIPMENT / SYSTEM:	RTU-3
SYSTEM INFORMATION	
Static Pressure Profile Setup:	FILTER, COIL, FAN
Design Airflow (CFM)	5000
Measured Airflow (CFM)	5036



ESP:	0.49	TSP:	0.87
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STATIC PRESSURE READINGS (in. w.g.)											
Location	A	B	C	D	E	F	G	H	I	J	K
Supply	-0.09	-0.27	-0.47	0.40							

Comments: _____

Technician(s): Curtis Tunink Date: 1/19/24

NEBB CERTIFIED TESTING & BALANCING

AIR APPARATUS TEST REPORT

PROJECT NAME:	1330 - King Soopers 147						
EQUIPMENT / SYSTEM:	RTU-4						
UNIT INFORMATION							
		DESIGN				ACTUAL	
MANUFACTURER		Lennox				Lennox	
MODEL #		LGM150U4E				LGM150U4EH1G	
SERIAL #						5622L00677	
LOCATION / SERVICE						Sales	
FAN INFORMATION							
		DESIGN				ACTUAL	
Total Airflow (CFM)		5,000				5,066	
Total of Terminals (CFM)		5,000				5,066	
Return Airflow (CFM)		5,000				5,066	
Outside Airflow (CFM)							
Total Static Pressure (in. w.g.)						0.97	
External Static Pressure (in. w.g.)		0.15				0.62	
Fan Speed (RPM / Setpoint)						D.D.	
VFD Speed (Hz)						n/a	
OA Damper Postion (% Open)						n/a	
MOTOR INFORMATION							
		DESIGN / NAMEPLATE				ACTUAL	
Manufacturer / Frame - Nameplate						ebmpapst / n/g	
Horse Power (HP)		3.75				n/g	
Brake Horse Power (BHP)						1.21	
Volts	Phase	480		3	491	492	493
Full Load Amps		4.30			1.67	1.31	1.42
Corrected Nameplate Amps		-			4.20		
Motor Speed (RPM / Setting)					D.D.		
Service Factor		-			n/g		
Current Overload Size/Setting		-			77% Speed		
FILTER INFORMATION							
DESIGN (MERV Rating)		BANK #1 Style/Size(Qty)				BANK #2 Style/Size(Qty)	
Merv 8		(4) 20x25x2					

Technician(s): _____ Curtis Tunink _____ Date: _____ 1/11/2024 _____

RECTANGLE DUCT TRAVERSE TEST REPORT

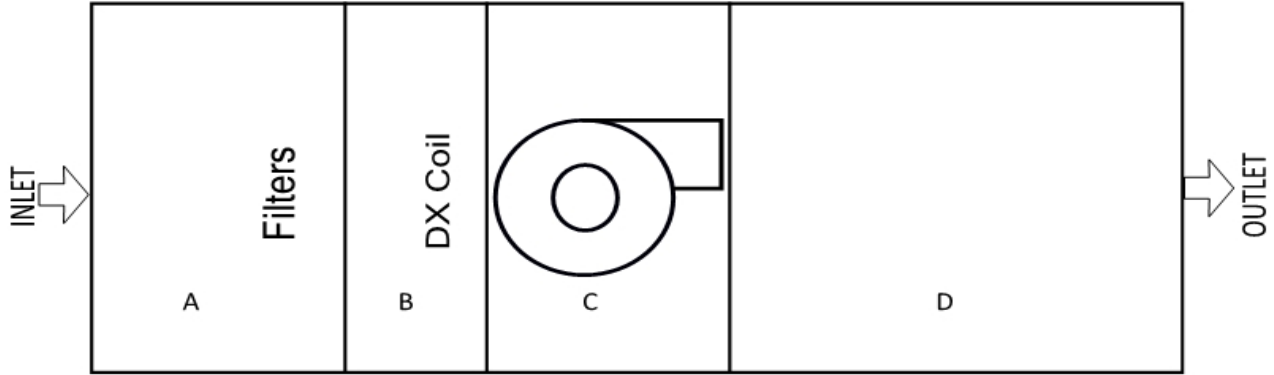
PROJECT NAME:		1330 - King Soopers 147										
EQUIPMENT / SYSTEM:		RTU-4 - Total Air										
DUCT TRAVERSE INFORMATION												
Duct Zone:	RTU-4					Required CFM:	5000		Required FPM:	1152		
Duct Size:	25	X	25	WxH"	Area:	4.34		Static Pressure:	-0.16 in.w.g.			
Instrument:	Velgrid		Corr Factor	1	Altitude:	5280 FT		Temperature:	n/a			
DUCT TRAVERSE MEASUREMENTS												
Velocity Total (FPM):		4,669			Velocity Average (FPM):		1,167		Actual Airflow (CFM):		5,066	
POS	1	2	3	4	5	6	7	8	9	10	11	Distance Height
1	1301	1348										6.3
2	1015	1005										18.8
3												31.3
4												43.8
5												56.3
6												68.8
7												81.3
8												93.8
9												106.3
10												118.8
11												131.3
Distance Width	6.3	18.8	31.3	43.8	56.3	68.8	81.3	93.8	106.3	118.8	131.3	Inches
Totals	2316	2353	0	0	0	0	0	0	0	0	0	

Comments: _____

Technician(s): Curtis Tunink Date: 1/18/2024

STATIC PRESSURE PROFILE

PROJECT NAME:	1330 - King Soopers 147
EQUIPMENT / SYSTEM:	RTU-4
SYSTEM INFORMATION	
Static Pressure Profile Setup:	FILTER, COIL, FAN
Design Airflow (CFM)	5000
Measured Airflow (CFM)	5066



ESP:	0.62
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TSP:	0.96
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STATIC PRESSURE READINGS (in. w.g.)											
Location	A	B	C	D	E	F	G	H	I	J	K
Supply	-0.16	-0.35	-0.51	0.46							

Comments: _____

Technician(s): Curtis Tunink Date: 1/19/24

AIR APPARATUS TEST REPORT

PROJECT NAME:	1330 - King Soopers 147						
EQUIPMENT / SYSTEM:	RTU-5						
UNIT INFORMATION							
		DESIGN			ACTUAL		
MANUFACTURER		Lennox			Lennox		
MODEL #		LGM150U4E			LGM150U4EH1G		
SERIAL #					5622K06413		
LOCATION / SERVICE					Sales		
FAN INFORMATION							
		DESIGN			ACTUAL		
Total Airflow (CFM)		5,000			5,063		
Total of Terminals (CFM)		5,000			5,063		
Return Airflow (CFM)		5,000			5,063		
Outside Airflow (CFM)							
Total Static Pressure (in. w.g.)					0.83		
External Static Pressure (in. w.g.)		0.15			0.47		
Fan Speed (RPM / Setpoint)					D.D.		
VFD Speed (Hz)					n/a		
OA Damper Postion (% Open)					n/a		
MOTOR INFORMATION							
		DESIGN / NAMEPLATE			ACTUAL		
Manufacturer / Frame - Nameplate					ebmpapst / n/g		
Horse Power (HP)		3.75			n/g		
Brake Horse Power (BHP)					1.24		
Volts	Phase	480	3	491	492	493	
Full Load Amps		4.30			1.67	1.48	1.37
Corrected Nameplate Amps		-			4.20		
Motor Speed (RPM / Setting)					D.D.		
Service Factor		-			n/g		
Current Overload Size/Setting		-			77% Speed		
FILTER INFORMATION							
DESIGN (MERV Rating)		BANK #1 Style/Size(Qty)			BANK #2 Style/Size(Qty)		
Merv 8		(4) 20x25x2					

Technician(s): _____ Curtis Tunink _____ Date: _____ 1/11/2024 _____

RECTANGLE DUCT TRAVERSE TEST REPORT

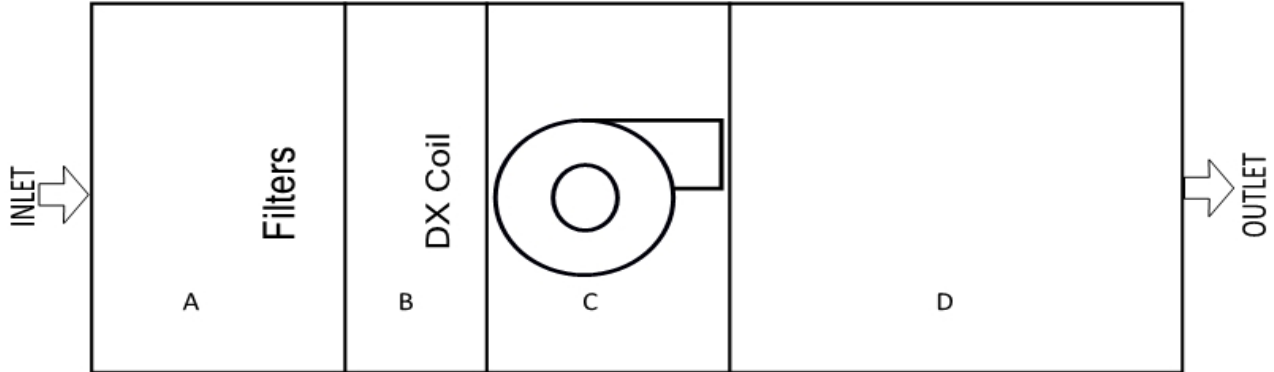
PROJECT NAME:		1330 - King Soopers 147										
EQUIPMENT / SYSTEM:		RTU-5 - Total Air										
DUCT TRAVERSE INFORMATION												
Duct Zone:	RTU-5					Required CFM:	5000		Required FPM:	1152		
Duct Size:	25	X	25	WxH"	Area:	4.34		Static Pressure:	-0.16 in.w.g.			
Instrument:	Velgrid		Corr Factor	1	Altitude:	5280 FT		Temperature:	n/a			
DUCT TRAVERSE MEASUREMENTS												
Velocity Total (FPM):		4,666			Velocity Average (FPM):		1,167		Actual Airflow (CFM):		5,063	
POS	1	2	3	4	5	6	7	8	9	10	11	Distance Height
1	1329	1287										6.3
2	1094	956										18.8
3												31.3
4												43.8
5												56.3
6												68.8
7												81.3
8												93.8
9												106.3
10												118.8
11												131.3
Distance Width	6.3	18.8	31.3	43.8	56.3	68.8	81.3	93.8	106.3	118.8	131.3	Inches
Totals	2423	2243	0	0	0	0	0	0	0	0	0	

Comments: _____

Technician(s): Curtis Tunink Date: 1/18/2024

STATIC PRESSURE PROFILE

PROJECT NAME:	1330 - King Soopers 147
EQUIPMENT / SYSTEM:	RTU-5
SYSTEM INFORMATION	
Static Pressure Profile Setup:	FILTER, COIL, FAN
Design Airflow (CFM)	5000
Measured Airflow (CFM)	5063



ESP: 0.47

TSP: 0.83

<i>STATIC PRESSURE READINGS (in. w.g.)</i>											
Location	A	B	C	D	E	F	G	H	I	J	K
Supply	-0.16	-0.43	-0.54	0.29							

Comments: _____

Technician(s): Curtis Tunink Date: 1/19/24

AIR APPARATUS TEST REPORT

PROJECT NAME:	1330 - King Soopers 147						
EQUIPMENT / SYSTEM:	RTU-6						
UNIT INFORMATION							
		DESIGN			ACTUAL		
MANUFACTURER		Lennox			Lennox		
MODEL #		LGM150U4E			LGM150U4EH1G		
SERIAL #					5622L00679		
LOCATION / SERVICE					Sales		
FAN INFORMATION							
		DESIGN			ACTUAL		
Total Airflow (CFM)		5,000			5,128		
Total of Terminals (CFM)		5,000			5,128		
Return Airflow (CFM)		5,000			5,128		
Outside Airflow (CFM)							
Total Static Pressure (in. w.g.)					0.85		
External Static Pressure (in. w.g.)		0.15			0.48		
Fan Speed (RPM / Setpoint)					D.D.		
VFD Speed (Hz)					n/a		
OA Damper Postion (% Open)					n/a		
MOTOR INFORMATION							
		DESIGN / NAMEPLATE			ACTUAL		
Manufacturer / Frame - Nameplate					ebmpapst / n/g		
Horse Power (HP)		3.75			n/g		
Brake Horse Power (BHP)					1.24		
Volts	Phase	480	3	491	492	493	
Full Load Amps		4.30			1.38	1.51	1.62
Corrected Nameplate Amps		-			4.20		
Motor Speed (RPM / Setting)					D.D.		
Service Factor		-			n/a		
Current Overload Size/Setting		-			77% Speed		
FILTER INFORMATION							
DESIGN (MERV Rating)		BANK #1 Style/Size(Qty)			BANK #2 Style/Size(Qty)		
Merv 8		(4) 20x25x2					

Technician(s): _____ Curtis Tunink _____ Date: _____ 1/11/2024 _____

RECTANGLE DUCT TRAVERSE TEST REPORT

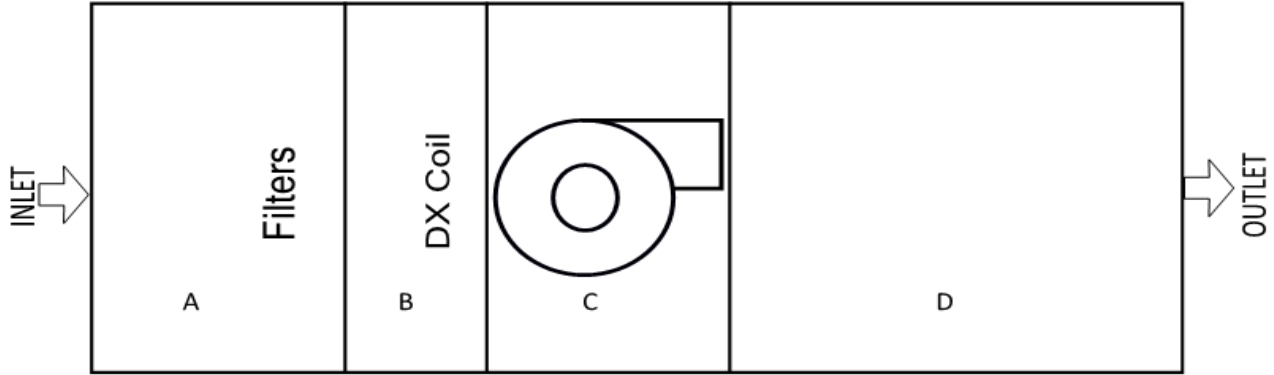
PROJECT NAME:		1330 - King Soopers 147											
EQUIPMENT / SYSTEM:		RTU-6 - Total Air											
DUCT TRAVERSE INFORMATION													
Duct Zone:		RTU-6				Required CFM:		5000		Required FPM:		1152	
Duct Size:		25	X	25	WxH"	Area:		4.34		Static Pressure:		-0.16 in.w.g.	
Instrument:		Velgrid		Corr Factor	1	Altitude:		5280 FT		Temperature:		n/a	
DUCT TRAVERSE MEASUREMENTS													
Velocity Total (FPM):		4,726			Velocity Average (FPM):			1,182			Actual Airflow (CFM):		5,128
POS	1	2	3	4	5	6	7	8	9	10	11	Distance Height	
1	1384	1342										6.3	
2	1159	841										18.8	
3												31.3	
4												43.8	
5												56.3	
6												68.8	
7												81.3	
8												93.8	
9												106.3	
10												118.8	
11												131.3	
Distance Width	6.3	18.8	31.3	43.8	56.3	68.8	81.3	93.8	106.3	118.8	131.3	Inches	
Totals	2543	2183	0	0	0	0	0	0	0	0	0		

Comments: _____

Technician(s): Curtis Tunink Date: 1/19/2024

STATIC PRESSURE PROFILE

PROJECT NAME:	1330 - King Soopers 147
EQUIPMENT / SYSTEM:	RTU-6
SYSTEM INFORMATION	
Static Pressure Profile Setup:	FILTER, COIL, FAN
Design Airflow (CFM)	5000
Measured Airflow (CFM)	5128



ESP:	0.48	TSP:	0.85
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<i>STATIC PRESSURE READINGS (in. w.g.)</i>											
Location	A	B	C	D	E	F	G	H	I	J	K
Supply	-0.13	0.33	0.52	0.35							

Comments: _____

Technician(s): Curtis Tunink Date: 1/19/24

AIR APPARATUS TEST REPORT

PROJECT NAME:	1330 - King Soopers 147						
EQUIPMENT / SYSTEM:	RTU-7						
UNIT INFORMATION							
		DESIGN				ACTUAL	
MANUFACTURER		Lennox				Lennox	
MODEL #		LGM150U4E				LGM150U4EH2G	
SERIAL #						2623D00603	
LOCATION / SERVICE						Sales	
FAN INFORMATION							
		DESIGN				ACTUAL	
Total Airflow (CFM)		5,000				5,102	
Total of Terminals (CFM)		5,000				5,102	
Return Airflow (CFM)		5,000				5,102	
Outside Airflow (CFM)							
Total Static Pressure (in. w.g.)						0.98	
External Static Pressure (in. w.g.)		0.15				0.61	
Fan Speed (RPM / Setpoint)						D.D.	
VFD Speed (Hz)						n/a	
OA Damper Postion (% Open)						n/a	
MOTOR INFORMATION							
		DESIGN / NAMEPLATE				ACTUAL	
Manufacturer / Frame - Nameplate						ebmpapst / n/g	
Horse Power (HP)		3.75				n/g	
Brake Horse Power (BHP)						1.59	
Volts	Phase	480		3	491	492	493
Full Load Amps		4.30			1.81	1.94	2.05
Corrected Nameplate Amps		-			4.20		
Motor Speed (RPM / Setting)					D.D.		
Service Factor		-			n/g		
Current Overload Size/Setting		-			77% Speed		
FILTER INFORMATION							
DESIGN (MERV Rating)		BANK #1 Style/Size(Qty)			BANK #2 Style/Size(Qty)		
Merv 8		(4) 20x25x2					

Technician(s): _____ Curtis Tunink _____ Date: _____ 1/11/2024 _____

RECTANGLE DUCT TRAVERSE TEST REPORT

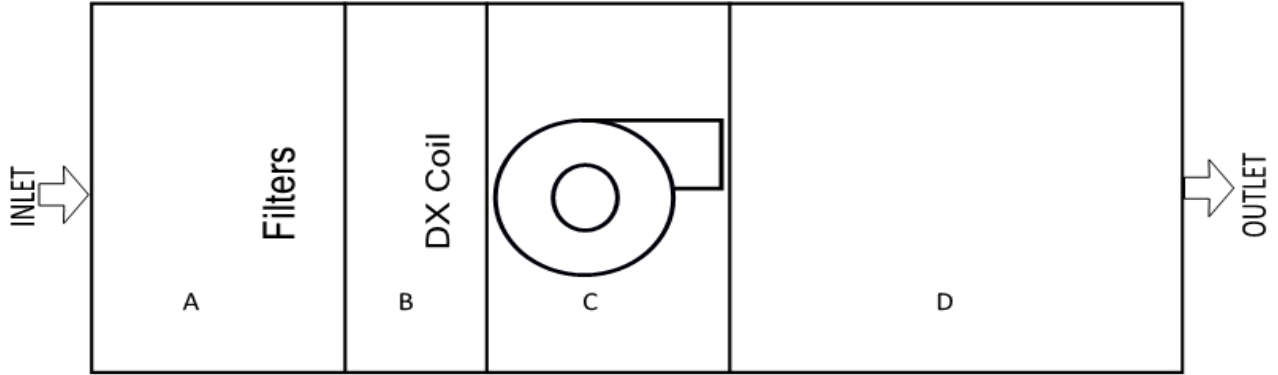
PROJECT NAME:		1330 - King Soopers 147										
EQUIPMENT / SYSTEM:		RTU-7 - Total Air										
DUCT TRAVERSE INFORMATION												
Duct Zone:	RTU-7					Required CFM:	5000		Required FPM:	1152		
Duct Size:	25	X	25	WxH"	Area:	4.34		Static Pressure:	-0.14 in.w.g.			
Instrument:	Velgrid		Corr Factor	1	Altitude:	5280 FT		Temperature:	n/a			
DUCT TRAVERSE MEASUREMENTS												
Velocity Total (FPM):		4,702			Velocity Average (FPM):			1,176		Actual Airflow (CFM):		5,102
POS	1	2	3	4	5	6	7	8	9	10	11	Distance Height
1	1391	1398										6.3
2	1032	881										18.8
3												31.3
4												43.8
5												56.3
6												68.8
7												81.3
8												93.8
9												106.3
10												118.8
11												131.3
Distance Width	6.3	18.8	31.3	43.8	56.3	68.8	81.3	93.8	106.3	118.8	131.3	Inches
Totals	2423	2279	0	0	0	0	0	0	0	0	0	

Comments: _____

Technician(s): Curtis Tunink Date: 1/17/2024

STATIC PRESSURE PROFILE

PROJECT NAME:	1330 - King Soopers 147
EQUIPMENT / SYSTEM:	RTU-7
SYSTEM INFORMATION	
Static Pressure Profile Setup:	FILTER, COIL, FAN
Design Airflow (CFM)	5000
Measured Airflow (CFM)	5102



ESP: 0.61

TSP: 0.98

<i>STATIC PRESSURE READINGS (in. w.g.)</i>											
Location	A	B	C	D	E	F	G	H	I	J	K
Supply	-0.14	-0.34	-0.51	0.47							

Comments: _____

Technician(s): Curtis Tunink Date: 1/19/24

AIR APPARATUS TEST REPORT

PROJECT NAME:	1330 - King Soopers 147						
EQUIPMENT / SYSTEM:	RTU-8						
UNIT INFORMATION							
		DESIGN				ACTUAL	
MANUFACTURER		Lennox				Lennox	
MODEL #		LGM150U4E				LGM150U4EH1G	
SERIAL #						5622L00681	
LOCATION / SERVICE						Sales	
FAN INFORMATION							
		DESIGN				ACTUAL	
Total Airflow (CFM)		5,000				5,086	
Total of Terminals (CFM)		5,000				5,086	
Return Airflow (CFM)		5,000				5,086	
Outside Airflow (CFM)							
Total Static Pressure (in. w.g.)						0.96	
External Static Pressure (in. w.g.)		0.15				0.55	
Fan Speed (RPM / Setpoint)						D.D.	
VFD Speed (Hz)						n/a	
OA Damper Postion (% Open)						n/a	
MOTOR INFORMATION							
		DESIGN / NAMEPLATE				ACTUAL	
Manufacturer / Frame - Nameplate						ebmpapst / n/g	
Horse Power (HP)		3.75				n/g	
Brake Horse Power (BHP)						1.20	
Volts	Phase	480		3	491	492	493
Full Load Amps		4.30			1.48	1.39	1.50
Corrected Nameplate Amps		-			4.20		
Motor Speed (RPM / Setting)					D.D.		
Service Factor		-			n/g		
Current Overload Size/Setting		-			77% Speed		
FILTER INFORMATION							
DESIGN (MERV Rating)		BANK #1 Style/Size(Qty)				BANK #2 Style/Size(Qty)	
Merv 8		(4) 20x25x2					

Technician(s): _____ Curtis Tunink _____ Date: _____ 1/11/2024 _____

RECTANGLE DUCT TRAVERSE TEST REPORT

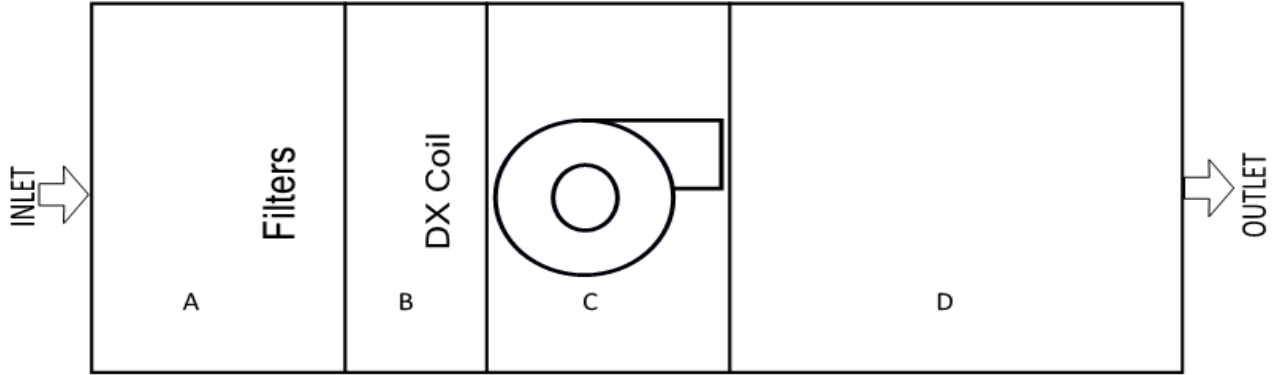
PROJECT NAME:		1330 - King Soopers 147										
EQUIPMENT / SYSTEM:		RTU-8 - Total Air										
DUCT TRAVERSE INFORMATION												
Duct Zone:	RTU-8					Required CFM:	5000		Required FPM:	1152		
Duct Size:	25	X	25	WxH"	Area:	4.34		Static Pressure:	-0.18 in.w.g.			
Instrument:	Velgrid		Corr Factor	1	Altitude:	5280 FT		Temperature:	n/a			
DUCT TRAVERSE MEASUREMENTS												
Velocity Total (FPM):		4,687			Velocity Average (FPM):		1,172		Actual Airflow (CFM):		5,086	
POS	1	2	3	4	5	6	7	8	9	10	11	Distance Height
1	1326	1276										6.3
2	1158	927										18.8
3												31.3
4												43.8
5												56.3
6												68.8
7												81.3
8												93.8
9												106.3
10												118.8
11												131.3
Distance Width	6.3	18.8	31.3	43.8	56.3	68.8	81.3	93.8	106.3	118.8	131.3	Inches
Totals	2484	2203	0	0	0	0	0	0	0	0	0	

Comments: _____

Technician(s): Curtis Tunink Date: 1/17/2024

STATIC PRESSURE PROFILE

PROJECT NAME:	1330 - King Soopers 147
EQUIPMENT / SYSTEM:	RTU-8
SYSTEM INFORMATION	
Static Pressure Profile Setup:	FILTER, COIL, FAN
Design Airflow (CFM)	5000
Measured Airflow (CFM)	5086



ESP:	0.55	TSP:	0.96
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<i>STATIC PRESSURE READINGS (in. w.g.)</i>											
Location	A	B	C	D	E	F	G	H	I	J	K
Supply	-0.18	-0.42	-0.59	0.37							

Comments: _____

Technician(s): Curtis Tunink Date: 1/17/24

AIR APPARATUS TEST REPORT

PROJECT NAME:	1330 - King Soopers 147						
EQUIPMENT / SYSTEM:	RTU-9						
UNIT INFORMATION							
		DESIGN				ACTUAL	
MANUFACTURER		Lennox				Lennox	
MODEL #		LGM150U4E				LGM150U4EH1G	
SERIAL #						5622L00678	
LOCATION / SERVICE						Sales	
FAN INFORMATION							
		DESIGN				ACTUAL	
Total Airflow (CFM)		5,000				5,052	
Total of Terminals (CFM)		5,000				5,052	
Return Airflow (CFM)		5,000				5,052	
Outside Airflow (CFM)							
Total Static Pressure (in. w.g.)						0.86	
External Static Pressure (in. w.g.)		0.15				0.45	
Fan Speed (RPM / Setpoint)						D.D.	
VFD Speed (Hz)						n/a	
OA Damper Postion (% Open)						n/a	
MOTOR INFORMATION							
		DESIGN / NAMEPLATE				ACTUAL	
Manufacturer / Frame - Nameplate						Ebmpapst / n/g	
Horse Power (HP)		3.75				n/g	
Brake Horse Power (BHP)						1.21	
Volts	Phase	480		3	491	492	493
Full Load Amps		4.30			1.30	1.45	1.68
Corrected Nameplate Amps		-			4.20		
Motor Speed (RPM / Setting)					D.D.		
Service Factor		-			n/g		
Current Overload Size/Setting		-			77% Speed		
FILTER INFORMATION							
DESIGN (MERV Rating)		BANK #1 Style/Size(Qty)			BANK #2 Style/Size(Qty)		
Merv 8		(4) 20x25x2					

Technician(s): _____ Curtis Tunink _____ Date: _____ 1/17/2024 _____

RECTANGLE DUCT TRAVERSE TEST REPORT

PROJECT NAME:		1330 - King Soopers 147											
EQUIPMENT / SYSTEM:		RTU-9 - Total Air											
DUCT TRAVERSE INFORMATION													
Duct Zone:		RTU-9				Required CFM:		5000		Required FPM:		1152	
Duct Size:		25	X	25	WxH"	Area:		4.34		Static Pressure:		-0.14 in.w.g.	
Instrument:		Velgrid		Corr Factor	1	Altitude:		5280 FT		Temperature:		n/a	
DUCT TRAVERSE MEASUREMENTS													
Velocity Total (FPM):		4,656			Velocity Average (FPM):			1,164			Actual Airflow (CFM):		5,052
POS	1	2	3	4	5	6	7	8	9	10	11	Distance Height	
1	1305	1215										6.3	
2	1084	1052										18.8	
3												31.3	
4												43.8	
5												56.3	
6												68.8	
7												81.3	
8												93.8	
9												106.3	
10												118.8	
11												131.3	
Distance Width	6.3	18.8	31.3	43.8	56.3	68.8	81.3	93.8	106.3	118.8	131.3	Inches	
Totals	2389	2267	0	0	0	0	0	0	0	0	0		

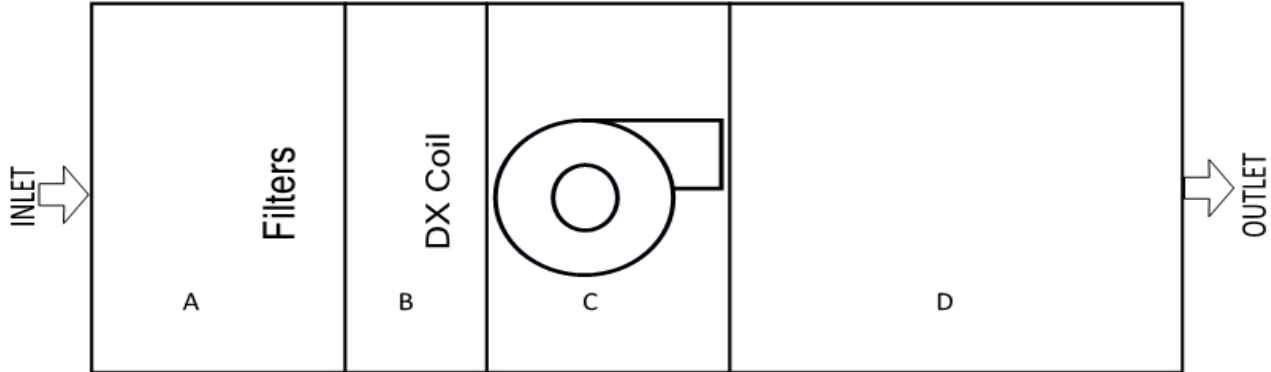
Comments: _____

Technician(s): Curtis Tunink Date: 1/17/2024

NEBB CERTIFIED TESTING & BALANCING

STATIC PRESSURE PROFILE

PROJECT NAME:	1330 - King Soopers 147
EQUIPMENT / SYSTEM:	RTU-9
SYSTEM INFORMATION	
Static Pressure Profile Setup:	FILTER, COIL, FAN
Design Airflow (CFM)	5000
Measured Airflow (CFM)	5052



ESP: 0.45

TSP: 0.86

STATIC PRESSURE READINGS (in. w.g.)											
Location	A	B	C	D	E	F	G	H	I	J	K
Supply	-0.14	-0.36	0.55	0.31							

Comments: _____

Technician(s): Curtis Tunink Date: 1/17/24

AIR APPARATUS TEST REPORT

PROJECT NAME:	1330 - King Soopers 147						
EQUIPMENT / SYSTEM:	RTU-10						
UNIT INFORMATION							
		DESIGN				ACTUAL	
MANUFACTURER		Lennox				Lennox	
MODEL #		LGM150U4E				LGM150U4EH1G	
SERIAL #						5622K06410	
LOCATION / SERVICE						Sales	
FAN INFORMATION							
		DESIGN				ACTUAL	
Total Airflow (CFM)		5,000				5,058	
Total of Terminals (CFM)		5,000				5,058	
Return Airflow (CFM)		5,000				5,058	
Outside Airflow (CFM)							
Total Static Pressure (in. w.g.)						0.95	
External Static Pressure (in. w.g.)		0.15				0.64	
Fan Speed (RPM / Setpoint)						D.D.	
VFD Speed (Hz)						n/a	
OA Damper Postion (% Open)						n/a	
MOTOR INFORMATION							
		DESIGN / NAMEPLATE				ACTUAL	
Manufacturer / Frame - Nameplate						ebmpapst / n/g	
Horse Power (HP)		3.75				n/g	
Brake Horse Power (BHP)						1.24	
Volts	Phase	480		3	491	492	493
Full Load Amps		4.30			1.37	1.51	1.66
Corrected Nameplate Amps		-			4.20		
Motor Speed (RPM / Setting)					D.D.		
Service Factor		-			n/g		
Current Overload Size/Setting		-			77% Speed		
FILTER INFORMATION							
DESIGN (MERV Rating)		BANK #1 Style/Size(Qty)			BANK #2 Style/Size(Qty)		
Merv 8		(4) 20x25x2					

Technician(s): _____ Curtis Tunink _____ Date: _____ 1/11/2024 _____

NEBB CERTIFIED TESTING & BALANCING

RECTANGLE DUCT TRAVERSE TEST REPORT

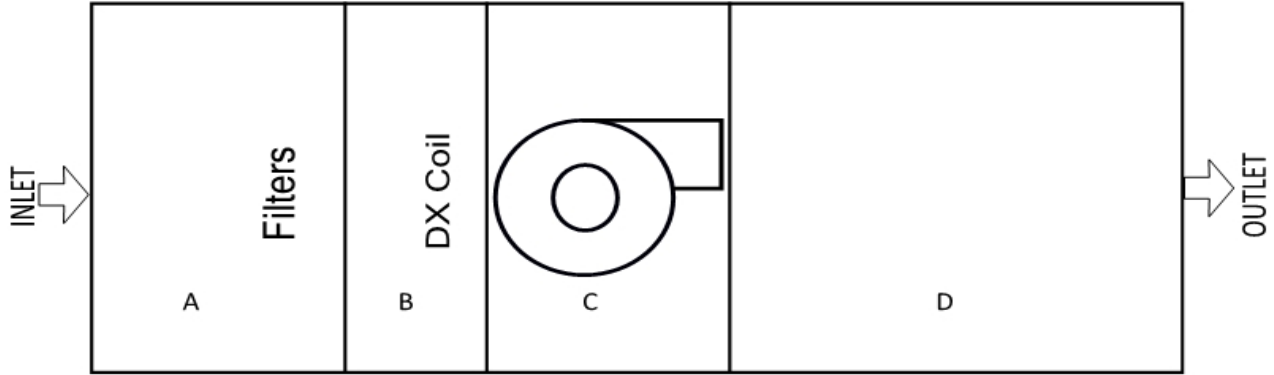
PROJECT NAME:		1330 - King Soopers 147										
EQUIPMENT / SYSTEM:		RTU-10 - Total Air										
DUCT TRAVERSE INFORMATION												
Duct Zone:	RTU-10					Required CFM:	5000		Required FPM:	1152		
Duct Size:	25	X	25	WxH"	Area:	4.34		Static Pressure:	-0.26 in.w.g.			
Instrument:	Velgrid		Corr Factor	1	Altitude:	5280 FT		Temperature:	n/a			
DUCT TRAVERSE MEASUREMENTS												
Velocity Total (FPM):		4,661			Velocity Average (FPM):		1,165		Actual Airflow (CFM):		5,058	
POS	1	2	3	4	5	6	7	8	9	10	11	Distance Height
1	1355	1296										6.3
2	914	1096										18.8
3												31.3
4												43.8
5												56.3
6												68.8
7												81.3
8												93.8
9												106.3
10												118.8
11												131.3
Distance Width	6.3	18.8	31.3	43.8	56.3	68.8	81.3	93.8	106.3	118.8	131.3	Inches
Totals	2269	2392	0	0	0	0	0	0	0	0	0	

Comments: _____

Technician(s): Curtis Tunink Date: 1/17/2024

STATIC PRESSURE PROFILE

PROJECT NAME:	1330 - King Soopers 147
EQUIPMENT / SYSTEM:	RTU-10
SYSTEM INFORMATION	
Static Pressure Profile Setup:	FILTER, COIL, FAN
Design Airflow (CFM)	5000
Measured Airflow (CFM)	5058



ESP:	0.64	TSP:	0.95
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STATIC PRESSURE READINGS (in. w.g.)											
Location	A	B	C	D	E	F	G	H	I	J	K
Supply	-0.26	-0.40	-0.57	0.38							

Comments: _____

Technician(s): Curtis Tunink Date: 1/17/24

AIR APPARATUS TEST REPORT

PROJECT NAME:	1330 - King Soopers 147						
EQUIPMENT / SYSTEM:	RTU-11						
UNIT INFORMATION							
		DESIGN				ACTUAL	
MANUFACTURER		Lennox				Lennox	
MODEL #		LGM150U4E				LGM092U4ES1G	
SERIAL #						5622K06515	
LOCATION / SERVICE						Cart Corral	
FAN INFORMATION							
		DESIGN				ACTUAL	
Total Airflow (CFM)		3,000				2,951	
Total of Terminals (CFM)		3,000				2,951	
Return Airflow (CFM)		2,760					
Outside Airflow (CFM)		240					
Total Static Pressure (in. w.g.)						0.57	
External Static Pressure (in. w.g.)		0.15				0.38	
Fan Speed (RPM / Setpoint)						D.D.	
VFD Speed (Hz)						n/a	
OA Damper Postion (% Open)						5%	
MOTOR INFORMATION							
		DESIGN / NAMEPLATE				ACTUAL	
Manufacturer / Frame - Nameplate						ebmpapst / n/g	
Horse Power (HP)		3.75				n/g	
Brake Horse Power (BHP)						0.64	
Volts	Phase	480	3		491	492	493
Full Load Amps		4.30			0.83	0.68	0.81
Corrected Nameplate Amps		-			4.20		
Motor Speed (RPM / Setting)					D.D.		
Service Factor		-			n/g		
Current Overload Size/Setting		-			56% Speed		
FILTER INFORMATION							
DESIGN (MERV Rating)		BANK #1 Style/Size(Qty)				BANK #2 Style/Size(Qty)	
Merv 8		(4) 20x25x2					

Technician(s): _____ Curtis Tunink _____ Date: _____ 1/22/2024 _____

RECTANGLE DUCT TRAVERSE TEST REPORT

PROJECT NAME:		1330 - King Soopers 147										
EQUIPMENT / SYSTEM:		RTU-11 - Total Air										
DUCT TRAVERSE INFORMATION												
Duct Zone:	RTU-11					Required CFM:	3000		Required FPM:	691		
Duct Size:	25	X	25	WxH"	Area:	4.34		Static Pressure:	-0.26 in.w.g.			
Instrument:	Velgrid		Corr Factor	1	Altitude:	5280 FT		Temperature:	n/a			
DUCT TRAVERSE MEASUREMENTS												
Velocity Total (FPM):		2,720			Velocity Average (FPM):		680		Actual Airflow (CFM):		2,951	
POS	1	2	3	4	5	6	7	8	9	10	11	Distance Height
1	693	729										6.3
2	657	641										18.8
3												31.3
4												43.8
5												56.3
6												68.8
7												81.3
8												93.8
9												106.3
10												118.8
11												131.3
Distance Width	6.3	18.8	31.3	43.8	56.3	68.8	81.3	93.8	106.3	118.8	131.3	Inches
Totals	1350	1370	0	0	0	0	0	0	0	0	0	

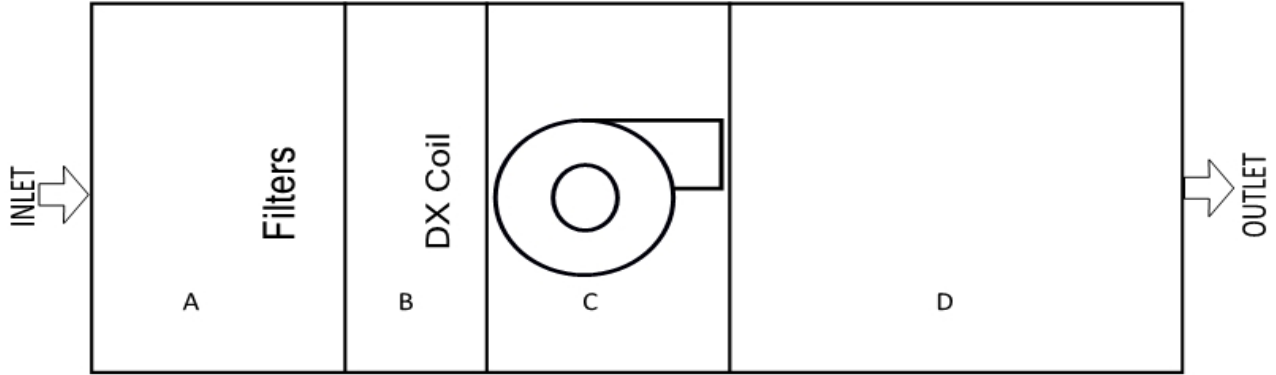
Comments: _____

Technician(s): _____ Curtis Tunink _____ Date: _____ 1/22/2024 _____

NEBB CERTIFIED TESTING & BALANCING

STATIC PRESSURE PROFILE

PROJECT NAME:	1330 - King Soopers 147
EQUIPMENT / SYSTEM:	RTU-11
SYSTEM INFORMATION	
Static Pressure Profile Setup:	FILTER, COIL, FAN
Design Airflow (CFM)	3000
Measured Airflow (CFM)	2951



ESP:	0.38
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TSP:	0.57
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STATIC PRESSURE READINGS (in. w.g.)											
Location	A	B	C	D	E	F	G	H	I	J	K
Supply	-0.18	-0.21	-0.37	0.20							

Comments: _____

Technician(s): Curtis Tunink Date: 1/22/24

AIR APPARATUS TEST REPORT

PROJECT NAME:	1330 - King Soopers 147						
EQUIPMENT / SYSTEM:	RTU-13						
UNIT INFORMATION							
		DESIGN				ACTUAL	
MANUFACTURER		Lennox				LENNOX	
MODEL #		LGM092U4E				LGM074U4EQ1G	
SERIAL #						5623A02588	
LOCATION / SERVICE						Pharmacy	
FAN INFORMATION							
		DESIGN				ACTUAL	
Total Airflow (CFM)		2,400				2,484	
Total of Terminals (CFM)		2,400				2,484	
Return Airflow (CFM)		2,085				2,144	
Outside Airflow (CFM)		315				340	
Total Static Pressure (in. w.g.)						0.80	
External Static Pressure (in. w.g.)		0.15				0.65	
Fan Speed (RPM / Setpoint)						D.D.	
VFD Speed (Hz)						N/A	
OA Damper Postion (% Open)						13%	
MOTOR INFORMATION							
		DESIGN / NAMEPLATE				ACTUAL	
Manufacturer / Frame - Nameplate						EBMPAPST / N/G	
Horse Power (HP)		3.75				1700 WATTS	
Brake Horse Power (BHP)						1.71	
Volts	Phase	480		3	491	492	493
Full Load Amps		2.30			1.99	2.11	2.15
Corrected Nameplate Amps		-			2.24		
Motor Speed (RPM / Setting)					D.D.		
Service Factor		-			N/G		
Current Overload Size/Setting		-			90% SPEED		
FILTER INFORMATION							
DESIGN (MERV Rating)		BANK #1 Style/Size(Qty)				BANK #2 Style/Size(Qty)	
Merv 8		(4) 20x20x2					

Technician(s): Curtis Tunink Date: 1/11/2024

NEBB CERTIFIED TESTING & BALANCING

AIR OUTLET TEST REPORT

PROJECT NAME:		1330 - King Soopers 147											
EQUIPMENT / SYSTEM:		RTU-13 - Supply											
OUTLET SUMMARY													
Area Served	FH / RVA / TRV	ATI #	Outlet Type	Size LxW /	AK	Design FPM	Design CFM	Initial	Initial	Final	Final	Final %	Notes
								FPM	CFM	FPM	CFM		
		1	cd		1.0	200	200		184		205	103%	
		2	cd		1.0	300	300		349		309	103%	
		3	cd		1.0	300	300		286		312	104%	
		4	cd		1.0	200	200		252		217	109%	
		5	cd		1.0	200	200		227		211	106%	
		6	cd		1.0	200	200		235		202	101%	
		7	cd		1.0	200	200		191		218	109%	
		8	cd		1.0	200	200		197		214	107%	
		9	cd		1.0	200	200		161		197	99%	
		10	cd		1.0	200	200		191		201	101%	
		11	cd		1.0	100	100		118		100	100%	
		12	cd		1.0	100	100		175		98	98%	
							2400		2566		2484	104%	
												-	
Return		1	rg		1.0	180	180		163		189	105%	
		2	rg		1.0	545	545		423		545	100%	
		3	rg		1.0	725	725		692		729	101%	
		4	rg		1.0	545	545		727		582	107%	
		5	rg		1.0	90	90		208		99	110%	
							2085		2213		2144	103%	
												-	
												-	
												-	
												-	
												-	
												-	
												-	
												-	
												-	
												-	
												-	
												-	

RVA = Rotating Vane Anemometer : FH = Flow Hood : TRV = Traverse

Comments: _____

Technician(s): Curtis Tunink Date: 1/16/2024

RECTANGLE DUCT TRAVERSE TEST REPORT

PROJECT NAME:		1330 - King Soopers 147											
EQUIPMENT / SYSTEM:		RTU-13 - Outside Air											
DUCT TRAVERSE INFORMATION													
Duct Zone:		RTU-13				Required CFM:		315		Required FPM:		116	
Duct Size:		28	X	14	WxH"	Area:		2.72		Static Pressure:		-0.43 in.w.g.	
Instrument:		Velgrid		Corr Factor	1	Altitude:		5280 FT		Temperature:		n/a	
DUCT TRAVERSE MEASUREMENTS													
Velocity Total (FPM):		250			Velocity Average (FPM):			125			Actual Airflow (CFM):		340
POS	1	2	3	4	5	6	7	8	9	10	11	Distance Height	
1	130	120										7.0	
2												21.0	
3												35.0	
4												49.0	
5												63.0	
6												77.0	
7												91.0	
8												105.0	
9												119.0	
10												133.0	
11												147.0	
Distance Width	7.0	21.0	35.0	49.0	63.0	77.0	91.0	105.0	119.0	133.0	147.0	Inches	
Totals	130	120	0	0	0	0	0	0	0	0	0		

Comments: _____

Technician(s): _____ Curtis Tunink _____ Date: _____ 1/19/2024 _____

AIR APPARATUS TEST REPORT

PROJECT NAME:	1330 - King Soopers 147						
EQUIPMENT / SYSTEM:	RTU-14						
UNIT INFORMATION							
		DESIGN				ACTUAL	
MANUFACTURER		Lennox				Lennox	
MODEL #		LGM120U4E				LGM120U4EM1G	
SERIAL #						5622L00821	
LOCATION / SERVICE						Deli	
FAN INFORMATION							
		DESIGN				ACTUAL	
Total Airflow (CFM)		4,000				3,847	
Total of Terminals (CFM)		4,000				3,847	
Return Airflow (CFM)		3,200				3,035	
Outside Airflow (CFM)		800				812	
Total Static Pressure (in. w.g.)						1.27	
External Static Pressure (in. w.g.)		0.15				1.04	
Fan Speed (RPM / Setpoint)						D.D.	
VFD Speed (Hz)						n/a	
OA Damper Postion (% Open)						20%	
MOTOR INFORMATION							
		DESIGN / NAMEPLATE				ACTUAL	
Manufacturer / Frame - Nameplate						ebmpapst / n/g	
Horse Power (HP)		3.75				n/g	
Brake Horse Power (BHP)						1.26	
Volts	Phase	480		3	491	492	493
Full Load Amps		4.30			1.64	1.41	1.54
Corrected Nameplate Amps		-			4.20		
Motor Speed (RPM / Setting)					D.D.		
Service Factor		-			n/g		
Current Overload Size/Setting		-			76% Speed		
FILTER INFORMATION							
DESIGN (MERV Rating)		BANK #1 Style/Size(Qty)			BANK #2 Style/Size(Qty)		
Merv 8		(4) 20x25x2					

Technician(s): _____ Curtis Tunink _____ Date: _____ 1/11/2024 _____

NEBB CERTIFIED TESTING & BALANCING

RECTANGLE DUCT TRAVERSE TEST REPORT

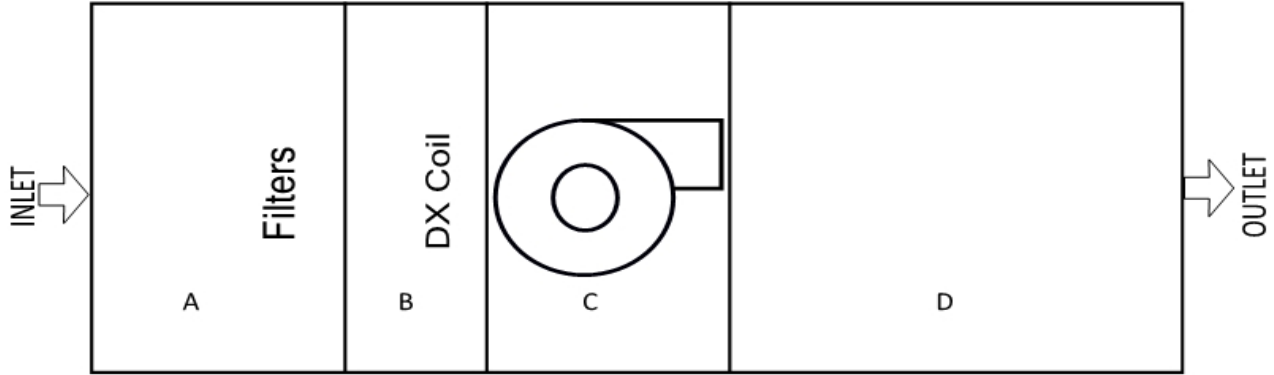
PROJECT NAME:		1330 - King Soopers 147											
EQUIPMENT / SYSTEM:		RTU-14 - Outside Air											
DUCT TRAVERSE INFORMATION													
Duct Zone:		RTU-14				Required CFM:		800		Required FPM:		179	
Duct Size:		28	X	23	WxH"	Area:		4.47		Static Pressure:		-0.65 in.w.g.	
Instrument:		Velgrid		Corr Factor	1	Altitude:		5280 FT		Temperature:		n/a	
DUCT TRAVERSE MEASUREMENTS													
Velocity Total (FPM):		726			Velocity Average (FPM):			182			Actual Airflow (CFM):		812
POS	1	2	3	4	5	6	7	8	9	10	11	Distance Height	
1	184	191										5.8	
2	174	177										17.3	
3												28.8	
4												40.3	
5												51.8	
6												63.3	
7												74.8	
8												86.3	
9												97.8	
10												109.3	
11												120.8	
Distance Width	7.0	21.0	35.0	49.0	63.0	77.0	91.0	105.0	119.0	133.0	147.0	Inches	
Totals	358	368	0	0	0	0	0	0	0	0	0		

Comments: _____

Technician(s): _____ Curtis Tunink _____ Date: _____ 1/22/2024 _____

STATIC PRESSURE PROFILE

PROJECT NAME:	1330 - King Soopers 147
EQUIPMENT / SYSTEM:	RTU-14
SYSTEM INFORMATION	
Static Pressure Profile Setup:	FILTER, COIL, FAN
Design Airflow (CFM)	4000
Measured Airflow (CFM)	3847



ESP: 1.04

TSP: 1.27

<i>STATIC PRESSURE READINGS (in. w.g.)</i>											
Location	A	B	C	D	E	F	G	H	I	J	K
Supply	-0.65	-0.76	-0.88	0.39							

Comments: _____

Technician(s): Curtis Tunink Date: 1/22/24

AIR APPARATUS TEST REPORT

PROJECT NAME:	1330 - King Soopers 147						
EQUIPMENT / SYSTEM:	RTU-15						
UNIT INFORMATION							
		DESIGN			ACTUAL		
MANUFACTURER		Lennox			Lennox		
MODEL #		LGM074U4E			LGM074U4EQ1G		
SERIAL #					5623A02606		
LOCATION / SERVICE					Bakery		
FAN INFORMATION							
		DESIGN			ACTUAL		
Total Airflow (CFM)		2,400			2,382		
Total of Terminals (CFM)		2,400			2,382		
Return Airflow (CFM)		1,800			1,769		
Outside Airflow (CFM)		600			613		
Total Static Pressure (in. w.g.)					0.83		
External Static Pressure (in. w.g.)		0.15			0.69		
Fan Speed (RPM / Setpoint)					D.D.		
VFD Speed (Hz)					n/a		
OA Damper Postion (% Open)					25%		
MOTOR INFORMATION							
		DESIGN / NAMEPLATE			ACTUAL		
Manufacturer / Frame - Nameplate					ebmpapst / n/g		
Horse Power (HP)		1.00			n/g		
Brake Horse Power (BHP)					1.23		
Volts	Phase	480	3	491	492	493	
Full Load Amps		4.30			1.58	1.44	1.46
Corrected Nameplate Amps		-			4.20		
Motor Speed (RPM / Setting)					D.D.		
Service Factor		-			n/g		
Current Overload Size/Setting		-			82% Speed		
FILTER INFORMATION							
DESIGN (MERV Rating)		BANK #1 Style/Size(Qty)			BANK #2 Style/Size(Qty)		
Merv 8		(4) 20x20x2					

Technician(s): _____ Curtis Tunink _____ Date: _____ 1/11/2024 _____

RECTANGLE DUCT TRAVERSE TEST REPORT

PROJECT NAME:		1330 - King Soopers 147											
EQUIPMENT / SYSTEM:		RTU-15 - Outside Air											
DUCT TRAVERSE INFORMATION													
Duct Zone:		RTU-15				Required CFM:		600		Required FPM:		262	
Duct Size:		30	X	11	WxH"	Area:		2.29		Static Pressure:		-0.51 in.w.g.	
Instrument:		Velgrid		Corr Factor	1	Altitude:		5280 FT		Temperature:		n/a	
DUCT TRAVERSE MEASUREMENTS													
Velocity Total (FPM):		535			Velocity Average (FPM):			268			Actual Airflow (CFM):		613
POS	1	2	3	4	5	6	7	8	9	10	11	Distance Height	
1	277	258										5.5	
2												16.5	
3												27.5	
4												38.5	
5												49.5	
6												60.5	
7												71.5	
8												82.5	
9												93.5	
10												104.5	
11												115.5	
Distance Width	7.5	22.5	37.5	52.5	67.5	82.5	97.5	112.5	127.5	142.5	157.5	Inches	
Totals	277	258	0	0	0	0	0	0	0	0	0		

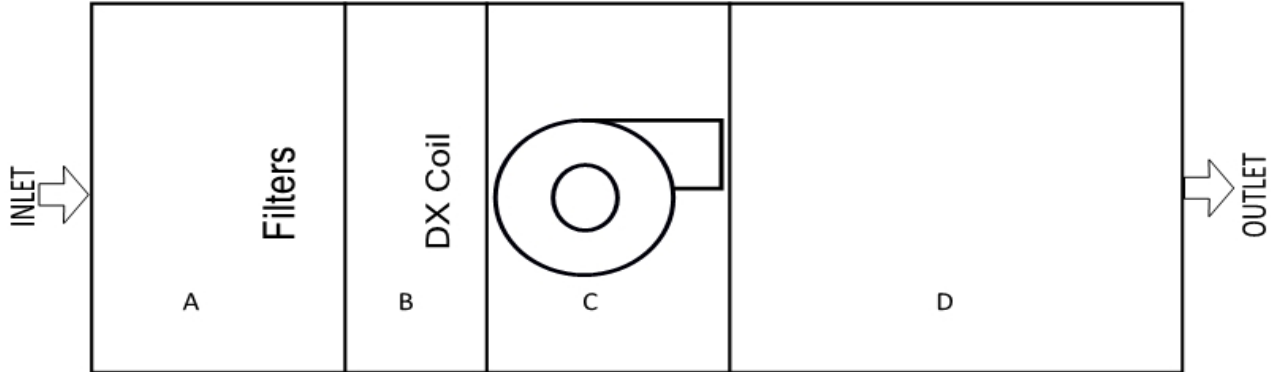
Comments: _____

Technician(s): _____ Curtis Tunink _____ Date: _____ 1/20/2024 _____

NEBB CERTIFIED TESTING & BALANCING

STATIC PRESSURE PROFILE

PROJECT NAME:	1330 - King Soopers 147
EQUIPMENT / SYSTEM:	RTU-15
SYSTEM INFORMATION	
Static Pressure Profile Setup:	FILTER, COIL, FAN
Design Airflow (CFM)	2400
Measured Airflow (CFM)	2482



ESP: 0.69

TSP: 0.83

STATIC PRESSURE READINGS (in. w.g.)											
Location	A	B	C	D	E	F	G	H	I	J	K
Supply	-0.51	-0.54	-0.65	0.18							

Comments: _____

Technician(s): Curtis Tunink Date: 1/20/24

NEBB CERTIFIED TESTING & BALANCING

AIR APPARATUS TEST REPORT

PROJECT NAME:	1330 - King Soopers 147						
EQUIPMENT / SYSTEM:	RTU-16						
UNIT INFORMATION							
		DESIGN				ACTUAL	
MANUFACTURER		Lennox				Lennox	
MODEL #		LGM120U4E				LGM120U4EM1G	
SERIAL #						5622L00823	
LOCATION / SERVICE						Back Room	
FAN INFORMATION							
		DESIGN				ACTUAL	
Total Airflow (CFM)		4,000				4,134	
Total of Terminals (CFM)		4,000				4,134	
Return Airflow (CFM)		3,720				3,854	
Outside Airflow (CFM)		280				280	
Total Static Pressure (in. w.g.)						1.09	
External Static Pressure (in. w.g.)		0.15				0.83	
Fan Speed (RPM / Setpoint)						D.D.	
VFD Speed (Hz)						n/a	
OA Damper Postion (% Open)						7%	
MOTOR INFORMATION							
		DESIGN / NAMEPLATE				ACTUAL	
Manufacturer / Frame - Nameplate						ebmpapst / n/g	
Horse Power (HP)		3.75				n/g	
Brake Horse Power (BHP)						1.21	
Volts	Phase	480		3	491	492	493
Full Load Amps		4.30			1.67	1.45	1.30
Corrected Nameplate Amps		-			4.20		
Motor Speed (RPM / Setting)					D.D.		
Service Factor		-			n/g		
Current Overload Size/Setting		-			76% Speed		
FILTER INFORMATION							
DESIGN (MERV Rating)		BANK #1 Style/Size(Qty)				BANK #2 Style/Size(Qty)	
Merv 8		(4) 20x25x2					

Technician(s): _____ Curtis Tunink _____ Date: _____ 1/11/2024 _____

RECTANGLE DUCT TRAVERSE TEST REPORT

PROJECT NAME:		1330 - King Soopers 147											
EQUIPMENT / SYSTEM:		RTU-16 - Total Air											
DUCT TRAVERSE INFORMATION													
Duct Zone:		RTU-16				Required CFM:		4000		Required FPM:		922	
Duct Size:		25	X	25	WxH"	Area:		4.34		Static Pressure:		-0.36 in.w.g.	
Instrument:		Velgrid		Corr Factor	1	Altitude:		5280 FT		Temperature:		n/a	
DUCT TRAVERSE MEASUREMENTS													
Velocity Total (FPM):		3,810			Velocity Average (FPM):			953			Actual Airflow (CFM):		4,134
POS	1	2	3	4	5	6	7	8	9	10	11	Distance Height	
1	1184	1069										6.3	
2	812	745										18.8	
3												31.3	
4												43.8	
5												56.3	
6												68.8	
7												81.3	
8												93.8	
9												106.3	
10												118.8	
11												131.3	
Distance Width	6.3	18.8	31.3	43.8	56.3	68.8	81.3	93.8	106.3	118.8	131.3	Inches	
Totals	1996	1814	0	0	0	0	0	0	0	0	0		

Comments: _____

Technician(s): Curtis Tunink Date: 1/20/2024

RECTANGLE DUCT TRAVERSE TEST REPORT

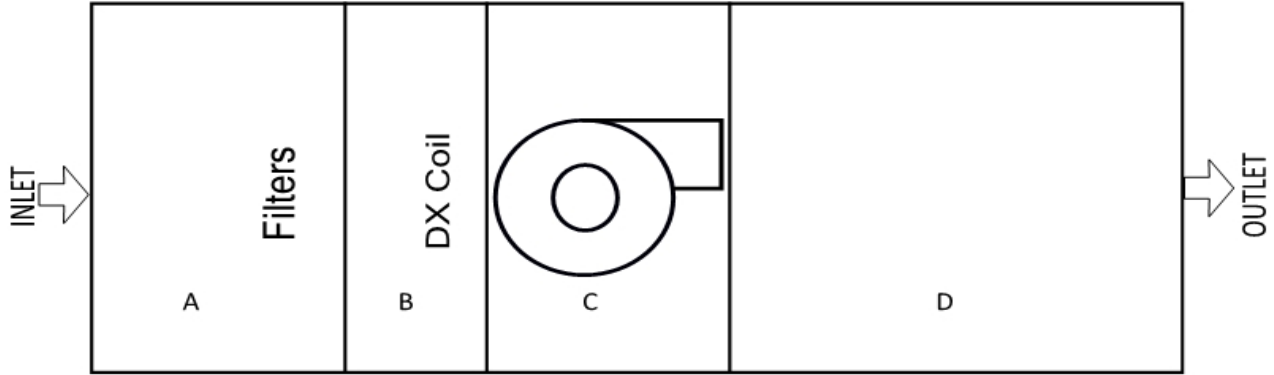
PROJECT NAME:		1330 - King Soopers 147											
EQUIPMENT / SYSTEM:		RTU-16 - Outside Air											
DUCT TRAVERSE INFORMATION													
Duct Zone:		RTU-16				Required CFM:		280		Required FPM:		63	
Duct Size:		28	X	23	WxH"	Area:		4.47		Static Pressure:		-0.36 in.w.g.	
Instrument:		Velgrid		Corr Factor	1	Altitude:		5280 FT		Temperature:		n/a	
DUCT TRAVERSE MEASUREMENTS													
Velocity Total (FPM):		250			Velocity Average (FPM):			63			Actual Airflow (CFM):		280
POS	1	2	3	4	5	6	7	8	9	10	11	Distance Height	
1	84	64										5.8	
2	52	50										17.3	
3												28.8	
4												40.3	
5												51.8	
6												63.3	
7												74.8	
8												86.3	
9												97.8	
10												109.3	
11												120.8	
Distance Width	7.0	21.0	35.0	49.0	63.0	77.0	91.0	105.0	119.0	133.0	147.0	Inches	
Totals	136	114	0	0	0	0	0	0	0	0	0		

Comments: _____

Technician(s): _____ Curtis Tunink _____ Date: _____ 1/20/2024 _____

STATIC PRESSURE PROFILE

PROJECT NAME:	1330 - King Soopers 147
EQUIPMENT / SYSTEM:	RTU-16
SYSTEM INFORMATION	
Static Pressure Profile Setup:	FILTER, COIL, FAN
Design Airflow (CFM)	4000
Measured Airflow (CFM)	4134



ESP:	0.83	TSP:	1.09
-------------	-------------	-------------	-------------

<i>STATIC PRESSURE READINGS (in. w.g.)</i>											
Location	A	B	C	D	E	F	G	H	I	J	K
Supply	-0.36	-0.50	-0.62	0.47							

Comments: _____

Technician(s): Curtis Tunink Date: 1/20/24

AIR APPARATUS TEST REPORT

PROJECT NAME:	1330 - King Soopers 147						
EQUIPMENT / SYSTEM:	RTU-17						
UNIT INFORMATION							
		DESIGN			ACTUAL		
MANUFACTURER		Lennox			Lennox		
MODEL #		LGM120U4E			LGM120U4EM1G		
SERIAL #					5622L00824		
LOCATION / SERVICE					Back Room		
FAN INFORMATION							
		DESIGN			ACTUAL		
Total Airflow (CFM)		4,000			4,120		
Total of Terminals (CFM)		4,000			4,120		
Return Airflow (CFM)		3,720			3,825		
Outside Airflow (CFM)		280			295		
Total Static Pressure (in. w.g.)					1.02		
External Static Pressure (in. w.g.)		0.15			0.73		
Fan Speed (RPM / Setpoint)					D.D.		
VFD Speed (Hz)					n/g		
OA Damper Postion (% Open)					7%		
MOTOR INFORMATION							
		DESIGN / NAMEPLATE			ACTUAL		
Manufacturer / Frame - Nameplate					ebmpapst / n/g		
Horse Power (HP)		3.75			n/g		
Brake Horse Power (BHP)					1.23		
Volts	Phase	480	3	491	492	493	
Full Load Amps		4.30			1.66	1.47	1.35
Corrected Nameplate Amps		-			4.20		
Motor Speed (RPM / Setting)					D.D.		
Service Factor		-			n/g		
Current Overload Size/Setting		-			76% Speed		
FILTER INFORMATION							
DESIGN (MERV Rating)		BANK #1 Style/Size(Qty)			BANK #2 Style/Size(Qty)		
Merv 8		(4) 20x25x2					

Technician(s): _____ Curtis Tunink _____ Date: _____ 1/20/2024 _____

RECTANGLE DUCT TRAVERSE TEST REPORT

PROJECT NAME:		1330 - King Soopers 147										
EQUIPMENT / SYSTEM:		RTU-17 - Total Air										
DUCT TRAVERSE INFORMATION												
Duct Zone:	RTU-17					Required CFM:	4000		Required FPM:	922		
Duct Size:	25	X	25	WxH"	Area:	4.34		Static Pressure:	-0.33 in.w.g.			
Instrument:	Velgrid		Corr Factor	1	Altitude:	5280 FT		Temperature:	n/a			
DUCT TRAVERSE MEASUREMENTS												
Velocity Total (FPM):		3,797			Velocity Average (FPM):		949		Actual Airflow (CFM):		4,120	
POS	1	2	3	4	5	6	7	8	9	10	11	Distance Height
1	1025	1097										6.3
2	934	741										18.8
3												31.3
4												43.8
5												56.3
6												68.8
7												81.3
8												93.8
9												106.3
10												118.8
11												131.3
Distance Width	6.3	18.8	31.3	43.8	56.3	68.8	81.3	93.8	106.3	118.8	131.3	Inches
Totals	1959	1838	0	0	0	0	0	0	0	0	0	

Comments: _____

Technician(s): Curtis Tunink Date: 1/20/2024

RECTANGLE DUCT TRAVERSE TEST REPORT

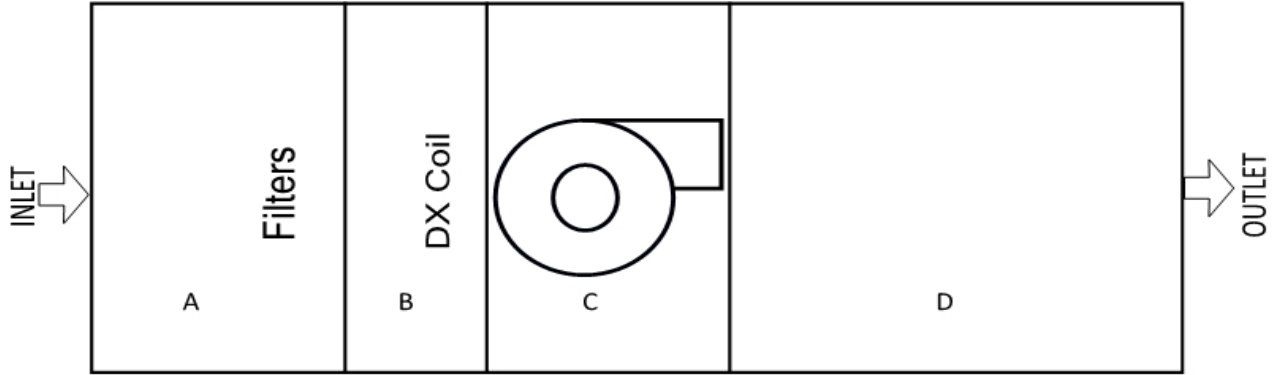
PROJECT NAME:		1330 - King Soopers 147										
EQUIPMENT / SYSTEM:		RTU-17 - Outside Air										
DUCT TRAVERSE INFORMATION												
Duct Zone:	RTU-17					Required CFM:	280		Required FPM:	63		
Duct Size:	28	X	23	WxH"	Area:	4.47		Static Pressure:	-0.33 in.w.g.			
Instrument:	Velgrid		Corr Factor	1	Altitude:	5280 FT		Temperature:	n/a			
DUCT TRAVERSE MEASUREMENTS												
Velocity Total (FPM):		264			Velocity Average (FPM):		66		Actual Airflow (CFM):		295	
POS	1	2	3	4	5	6	7	8	9	10	11	Distance Height
1	62	75										5.8
2	60	67										17.3
3												28.8
4												40.3
5												51.8
6												63.3
7												74.8
8												86.3
9												97.8
10												109.3
11												120.8
Distance Width	7.0	21.0	35.0	49.0	63.0	77.0	91.0	105.0	119.0	133.0	147.0	Inches
Totals	122	142	0	0	0	0	0	0	0	0	0	

Comments: _____

Technician(s): _____ Curtis Tunink _____ Date: _____ 1/20/2024 _____

STATIC PRESSURE PROFILE

PROJECT NAME:	1330 - King Soopers 147
EQUIPMENT / SYSTEM:	RTU-17
SYSTEM INFORMATION	
Static Pressure Profile Setup:	FILTER, COIL, FAN
Design Airflow (CFM)	4000
Measured Airflow (CFM)	4120



ESP: 0.73

TSP: 1.02

STATIC PRESSURE READINGS (in. w.g.)											
Location	A	B	C	D	E	F	G	H	I	J	K
Supply	-0.33	-0.49	-0.62	0.40							

Comments: _____

Technician(s): Curtis Tunink Date: 1/20/24

AIR APPARATUS TEST REPORT

PROJECT NAME:	1330 - King Soopers 147						
EQUIPMENT / SYSTEM:	RTU-18						
UNIT INFORMATION							
		DESIGN				ACTUAL	
MANUFACTURER		Lennox				Lennox	
MODEL #		LGM092U4E				LGM092U4ES1G	
SERIAL #						5622K06518	
LOCATION / SERVICE						Office Area	
FAN INFORMATION							
		DESIGN				ACTUAL	
Total Airflow (CFM)		3,000				3,079	
Total of Terminals (CFM)		3,000				3,079	
Return Airflow (CFM)		2,495				2,543	
Outside Airflow (CFM)		505				536	
Total Static Pressure (in. w.g.)						0.81	
External Static Pressure (in. w.g.)		0.15				0.63	
Fan Speed (RPM / Setpoint)						D.D.	
VFD Speed (Hz)						N/A	
OA Damper Postion (% Open)						10%	
MOTOR INFORMATION							
		DESIGN / NAMEPLATE				ACTUAL	
Manufacturer / Frame - Nameplate						EBMPAPST / N/G	
Horse Power (HP)		3.75				N/G	
Brake Horse Power (BHP)						0.42	
Volts	Phase	480		3	491	492	493
Full Load Amps		4.30			0.52	0.51	0.50
Corrected Nameplate Amps		-			4.20		
Motor Speed (RPM / Setting)					D.D.		
Service Factor		-			N/G		
Current Overload Size/Setting		-			59% SPEED		
FILTER INFORMATION							
DESIGN (MERV Rating)		BANK #1 Style/Size(Qty)				BANK #2 Style/Size(Qty)	
MERV 8		(4) 20X25X2				-	

Technician(s): _____ Curtis Tunink _____ Date: _____ 1/11/2024 _____

NEBB CERTIFIED TESTING & BALANCING

AIR OUTLET TEST REPORT

PROJECT NAME:		1330 - King Soopers 147											
EQUIPMENT / SYSTEM:		RTU-18 - Supply											
OUTLET SUMMARY													
Area Served	FH / RVA / TRV	ATI #	Outlet Type	Size LxW /	AK	Design FPM	Design CFM	Initial	Initial	Final	Final	Final %	Notes
								FPM	CFM	FPM	CFM		
		1	cd		1.0	250	250		345		247	99%	
		2	cd		1.0	250	250		320		238	95%	
		3	cd		1.0	100	100		113		107	107%	
		4	cd		1.0	100	100		125		105	105%	
		5	cd		1.0	250	250		245		254	102%	
		6	cd		1.0	100	100		402		105	105%	
		7	cd		1.0	200	200		125		194	97%	
		8	cd		1.0	300	300		226		324	108%	
		9	cd		1.0	200	200		190		188	94%	
		10	cd		1.0	100	100		184		108	108%	
		11	cd		1.0	100	100		188		99	99%	
		12	cd		1.0	250	250		338		265	106%	
		13	cd		1.0	200	200		194		206	103%	
		14	cd		1.0	200	200		198		206	103%	
		15	cd		1.0	200	200		152		215	108%	
		16	cd		1.0	200	200		163		218	109%	
							3000		3508		3079	103%	
												-	
												-	
												-	
Return		1	rg		1.0	800	800		556		823	103%	
		2	rg		1.0	100	100		244		105	105%	
		3	rg		1.0	600	600		591		625	104%	
		4	rg		1.0	100	100		306		105	105%	
		5	rg		1.0	100	100		245		109	109%	
		6	rg		1.0	750	750		967		776	103%	
							2450		2909		2543	104%	
												-	
												-	
												-	
												-	
												-	
												-	
												-	

RVA = Rotating Vane Anemometer : FH = Flow Hood : TRV = Traverse

Comments: _____

Technician(s): Curtis Tunink Date: 1/16/2024

AIR APPARATUS TEST REPORT

PROJECT NAME:	1330 - King Soopers 147						
EQUIPMENT / SYSTEM:	RTU-19						
UNIT INFORMATION							
		DESIGN			ACTUAL		
MANUFACTURER		Lennox			Lennox		
MODEL #		LGM092U4E			LGM074U4EQ1G		
SERIAL #					5623A02612		
LOCATION / SERVICE					Curb Side Pick Up		
FAN INFORMATION							
		DESIGN			ACTUAL		
Total Airflow (CFM)		2,400			2,040		
Total of Terminals (CFM)		2,400			2,040		
Return Airflow (CFM)		2,085			1,771		
Outside Airflow (CFM)		315			269		
Total Static Pressure (in. w.g.)					0.69		
External Static Pressure (in. w.g.)		0.15			0.60		
Fan Speed (RPM / Setpoint)					D.D.		
VFD Speed (Hz)					N/A		
OA Damper Postion (% Open)					15%		
MOTOR INFORMATION							
		DESIGN / NAMEPLATE			ACTUAL		
Manufacturer / Frame - Nameplate					EBMPAPST / N/G		
Horse Power (HP)		3.75			1700 WATTS		
Brake Horse Power (BHP)					1.45		
Volts	Phase	480	3	491	492	493	
Full Load Amps		2.40			1.69	1.74	1.86
Corrected Nameplate Amps		-			2.34		
Motor Speed (RPM / Setting)					N/G		
Service Factor		-			N/G		
Current Overload Size/Setting		-			80% SPEED		
FILTER INFORMATION							
DESIGN (MERV Rating)		BANK #1 Style/Size(Qty)			BANK #2 Style/Size(Qty)		
MERV 8		(4) 20X20X2			-		

Technician(s): _____ Curtis Tunink _____ Date: _____ 1/11/2024 _____

RECTANGLE DUCT TRAVERSE TEST REPORT

PROJECT NAME:		1330 - King Soopers 147											
EQUIPMENT / SYSTEM:		RTU-19											
DUCT TRAVERSE INFORMATION													
Duct Zone:		RTU-19				Required CFM:		315		Required FPM:		116	
Duct Size:		28	X	14	WxH"	Area:		2.72		Static Pressure:		-0.25 in.w.g.	
Instrument:		Velgrid		Corr Factor	1	Altitude:		5280 FT		Temperature:		n/a	
DUCT TRAVERSE MEASUREMENTS													
Velocity Total (FPM):		395			Velocity Average (FPM):			99			Actual Airflow (CFM):		269
POS	1	2	3	4	5	6	7	8	9	10	11	Distance Height	
1	114	100										3.5	
2	85	96										10.5	
3												17.5	
4												24.5	
5												31.5	
6												38.5	
7												45.5	
8												52.5	
9												59.5	
10												66.5	
11												73.5	
Distance Width	7.0	21.0	35.0	49.0	63.0	77.0	91.0	105.0	119.0	133.0	147.0	Inches	
Totals	199	196	0	0	0	0	0	0	0	0	0		

Comments: _____

Technician(s): _____ Curtis Tunink _____ Date: _____ 1/20/2024 _____

AIR APPARATUS TEST REPORT

PROJECT NAME:	1330 - King Soopers 147						
EQUIPMENT / SYSTEM:	RTU-20						
UNIT INFORMATION							
		DESIGN				ACTUAL	
MANUFACTURER		Lennox				Lennox	
MODEL #		LGM150U4E				LGM150U4EH1G	
SERIAL #						5622L00781	
LOCATION / SERVICE						Dock	
FAN INFORMATION							
		DESIGN				ACTUAL	
Total Airflow (CFM)		5,000				5,018	
Total of Terminals (CFM)		5,000				5,018	
Return Airflow (CFM)		4,300				4,304	
Outside Airflow (CFM)		700				714	
Total Static Pressure (in. w.g.)						1.11	
External Static Pressure (in. w.g.)		0.15				0.84	
Fan Speed (RPM / Setpoint)						D.D.	
VFD Speed (Hz)						n/g	
OA Damper Postion (% Open)						14%	
MOTOR INFORMATION							
		DESIGN / NAMEPLATE				ACTUAL	
Manufacturer / Frame - Nameplate						ebmpapst / n/g	
Horse Power (HP)		3.75				n/g	
Brake Horse Power (BHP)						1.24	
Volts	Phase	480		3	491	492	493
Full Load Amps		4.30			1.52	1.45	1.55
Corrected Nameplate Amps		-			4.20		
Motor Speed (RPM / Setting)					D.D.		
Service Factor		-			n/g		
Current Overload Size/Setting		-			77% Speed		
FILTER INFORMATION							
DESIGN (MERV Rating)		BANK #1 Style/Size(Qty)				BANK #2 Style/Size(Qty)	
Merv 8		(4) 20x25x2					

Technician(s): _____ Curtis Tunink _____ Date: _____ 1/11/2024 _____

NEBB CERTIFIED TESTING & BALANCING

RECTANGLE DUCT TRAVERSE TEST REPORT

PROJECT NAME:		1330 - King Soopers 147										
EQUIPMENT / SYSTEM:		RTU-20 - Total Air										
DUCT TRAVERSE INFORMATION												
Duct Zone:	RTU-20					Required CFM:	5000		Required FPM:	1152		
Duct Size:	25	X	25	WxH"	Area:	4.34		Static Pressure:	-0.14 in.w.g.			
Instrument:	Velgrid		Corr Factor	1	Altitude:	5280 FT		Temperature:	n/a			
DUCT TRAVERSE MEASUREMENTS												
Velocity Total (FPM):		4,625			Velocity Average (FPM):		1,156		Actual Airflow (CFM):		5,018	
POS	1	2	3	4	5	6	7	8	9	10	11	Distance Height
1	1348	1359										6.3
2	1061	857										18.8
3												31.3
4												43.8
5												56.3
6												68.8
7												81.3
8												93.8
9												106.3
10												118.8
11												131.3
Distance Width	6.3	18.8	31.3	43.8	56.3	68.8	81.3	93.8	106.3	118.8	131.3	Inches
Totals	2409	2216	0	0	0	0	0	0	0	0	0	

Comments: _____

Technician(s): Curtis Tunink Date: 1/20/2024

RECTANGLE DUCT TRAVERSE TEST REPORT

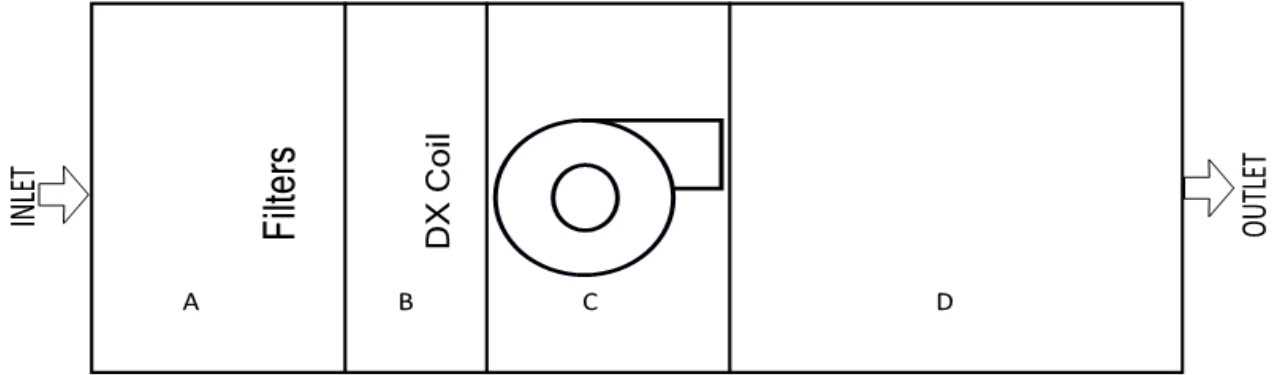
PROJECT NAME:		1330 - King Soopers 147										
EQUIPMENT / SYSTEM:		RTU-20 - Outside Air										
DUCT TRAVERSE INFORMATION												
Duct Zone:	RTU-20					Required CFM:	700		Required FPM:	157		
Duct Size:	28	X	23	WxH"	Area:	4.47		Static Pressure:	-0.41 in.w.g.			
Instrument:	Velgrid		Corr Factor	1	Altitude:	5280 FT		Temperature:	n/a			
DUCT TRAVERSE MEASUREMENTS												
Velocity Total (FPM):		639			Velocity Average (FPM):		160		Actual Airflow (CFM):		714	
POS	1	2	3	4	5	6	7	8	9	10	11	Distance Height
1	174	159										5.8
2	145	161										17.3
3												28.8
4												40.3
5												51.8
6												63.3
7												74.8
8												86.3
9												97.8
10												109.3
11												120.8
Distance Width	7.0	21.0	35.0	49.0	63.0	77.0	91.0	105.0	119.0	133.0	147.0	Inches
Totals	319	320	0	0	0	0	0	0	0	0	0	

Comments: _____

Technician(s): Curtis Tunink Date: 1/20/2024

STATIC PRESSURE PROFILE

PROJECT NAME:	1330 - King Soopers 147
EQUIPMENT / SYSTEM:	RTU-20
SYSTEM INFORMATION	
Static Pressure Profile Setup:	FILTER, COIL, FAN
Design Airflow (CFM)	5000
Measured Airflow (CFM)	5018



ESP: 0.84

TSP: 1.11

<i>STATIC PRESSURE READINGS (in. w.g.)</i>											
Location	A	B	C	D	E	F	G	H	I	J	K
Supply	-0.41	-0.53	-0.68	0.43							

Comments: _____

Technician(s): Curtis Tunink Date: 1/20/24

AIR APPARATUS TEST REPORT

PROJECT NAME:	1330 - King Soopers 147						
EQUIPMENT / SYSTEM:	RTU-21						
UNIT INFORMATION							
		DESIGN			ACTUAL		
MANUFACTURER		Lennox			Lennox		
MODEL #		LGM120U4E			LGM120U4EM1G		
SERIAL #					5622L00819		
LOCATION / SERVICE					Seating		
FAN INFORMATION							
		DESIGN			ACTUAL		
Total Airflow (CFM)		4,000			4,141		
Total of Terminals (CFM)		4,000			4,141		
Return Airflow (CFM)		3,320			3,449		
Outside Airflow (CFM)		680			692		
Total Static Pressure (in. w.g.)					0.96		
External Static Pressure (in. w.g.)		0.15			0.70		
Fan Speed (RPM / Setpoint)					D.D.		
VFD Speed (Hz)					n/a		
OA Damper Postion (% Open)					17%		
MOTOR INFORMATION							
		DESIGN / NAMEPLATE			ACTUAL		
Manufacturer / Frame - Nameplate					ebmpapst / n/g		
Horse Power (HP)		3.75			n/g		
Brake Horse Power (BHP)					1.22		
Volts	Phase	480	3	491	492	493	
Full Load Amps		4.30			1.57	1.40	1.48
Corrected Nameplate Amps		-			4.20		
Motor Speed (RPM / Setting)					D.D.		
Service Factor		-			n/g		
Current Overload Size/Setting		-			76% Speed		
FILTER INFORMATION							
DESIGN (MERV Rating)		BANK #1 Style/Size(Qty)			BANK #2 Style/Size(Qty)		
Merv 8		(4) 20x25x2					

Technician(s): _____ Curtis Tunink _____ Date: _____ 1/20/2024 _____

RECTANGLE DUCT TRAVERSE TEST REPORT

PROJECT NAME:		1330 - King Soopers 147										
EQUIPMENT / SYSTEM:		RTU-21 - Total Air										
DUCT TRAVERSE INFORMATION												
Duct Zone:	RTU-21					Required CFM:	4000		Required FPM:	922		
Duct Size:	25	X	25	WxH"	Area:	4.34		Static Pressure:	0.39 in.w.g.			
Instrument:	Velgrid		Corr Factor	1	Altitude:	5280 FT		Temperature:	n/a			
DUCT TRAVERSE MEASUREMENTS												
Velocity Total (FPM):		3,816			Velocity Average (FPM):		954		Actual Airflow (CFM):		4,141	
POS	1	2	3	4	5	6	7	8	9	10	11	Distance Height
1	1243	1041										6.3
2	915	617										18.8
3												31.3
4												43.8
5												56.3
6												68.8
7												81.3
8												93.8
9												106.3
10												118.8
11												131.3
Distance Width	6.3	18.8	31.3	43.8	56.3	68.8	81.3	93.8	106.3	118.8	131.3	Inches
Totals	2158	1658	0	0	0	0	0	0	0	0	0	

Comments: _____

Technician(s): Curtis Tunink Date: 1/20/2024

RECTANGLE DUCT TRAVERSE TEST REPORT

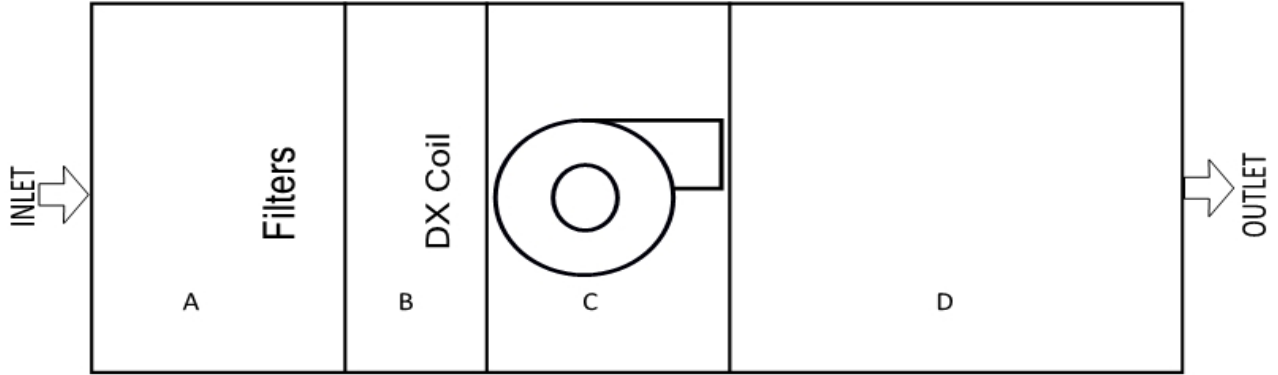
PROJECT NAME:		1330 - King Soopers 147										
EQUIPMENT / SYSTEM:		RTU-21 - Outside Air										
DUCT TRAVERSE INFORMATION												
Duct Zone:	RTU-21					Required CFM:	680		Required FPM:	152		
Duct Size:	28	X	23	WxH"	Area:	4.47		Static Pressure:	0.39 in.w.g.			
Instrument:	Velgrid		Corr Factor	1	Altitude:	5280 FT		Temperature:	n/a			
DUCT TRAVERSE MEASUREMENTS												
Velocity Total (FPM):		619			Velocity Average (FPM):		155		Actual Airflow (CFM):		692	
POS	1	2	3	4	5	6	7	8	9	10	11	Distance Height
1	166	160										5.8
2	142	151										17.3
3												28.8
4												40.3
5												51.8
6												63.3
7												74.8
8												86.3
9												97.8
10												109.3
11												120.8
Distance Width	7.0	21.0	35.0	49.0	63.0	77.0	91.0	105.0	119.0	133.0	147.0	Inches
Totals	308	311	0	0	0	0	0	0	0	0	0	

Comments: _____

Technician(s): _____ Curtis Tunink _____ Date: _____ 1/20/2024 _____

STATIC PRESSURE PROFILE

PROJECT NAME:	1330 - King Soopers 147
EQUIPMENT / SYSTEM:	RTU-21
SYSTEM INFORMATION	
Static Pressure Profile Setup:	FILTER, COIL, FAN
Design Airflow (CFM)	4000
Measured Airflow (CFM)	4141



ESP:	0.70
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TSP:	0.96
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STATIC PRESSURE READINGS (in. w.g.)											
Location	A	B	C	D	E	F	G	H	I	J	K
Supply	-0.39	-0.50	-0.64	0.31							

Comments: _____

Technician(s): Curtis Tunink Date: 1/20/24

NEBB CERTIFIED TESTING & BALANCING

FAN TEST REPORT

PROJECT NAME:	1330 - King Soopers 147				
EQUIPMENT / SYSTEM:	EF-CC				
UNIT INFORMATION					
		DESIGN			ACTUAL
MANUFACTURER		Captive Aire			Captive Aire
MODEL #		DR12HFA			DR12HFA
SERIAL #					4050672
LOCATION / SERVICE					Wash Bay
FAN INFORMATION					
		DESIGN			ACTUAL
Total Airflow (CFM)		600			579
Total of Terminal Airflows (CFM)		600			579
External Static Pressure		0.125 in.w.g.			0.08 in.w.g.
SP Reading - Intake					-0.08 in.w.g.
SP Reading - Discharge					ATM
Fan Speed (RPM / Setpoint)					D.D. / Variable
MOTOR INFORMATION					
		DESIGN / NAMEPLATE			ACTUAL
Manufacturer / Frame - Nameplate					HSSA / 42Y
Horse Power (HP)					0.16
Brake Horse Power (BHP)					0.11
Volts	Phase	115	1		121
Full Load Amps		1.90			0.92
Corrected Nameplate Amps		-			1.81
Motor Speed (RPM / Setting)					1,625
Service Factor		-			1.00
Current Overload Size/Setting		-			Variable

Comments: _____

Technician(s): Curtis Tunink Date: 1/18/2024

NEBB CERTIFIED TESTING & BALANCING

FAN TEST REPORT

PROJECT NAME:	1330 - King Soopers 147				
EQUIPMENT / SYSTEM:	EF-ER				
UNIT INFORMATION					
		DESIGN			ACTUAL
MANUFACTURER		Captive Aire			Captive Aire
MODEL #		DR30HFA			DR30HFA
SERIAL #					4050672
LOCATION / SERVICE					Electrical Room
FAN INFORMATION					
		DESIGN			ACTUAL
Total Airflow (CFM)		750			760
Total of Terminal Airflows (CFM)		750			760
External Static Pressure		0.15 in.w.g.			0.10 in.w.g.
SP Reading - Intake					-0.1 in.w.g.
SP Reading - Discharge					ATM
Fan Speed (RPM / Setpoint)					D.D. / Variable
MOTOR INFORMATION					
		DESIGN / NAMEPLATE			ACTUAL
Manufacturer / Frame - Nameplate					HSSA / 48Y
Horse Power (HP)		0.25			0.25
Brake Horse Power (BHP)					0.19
Volts	Phase	115	1		121
Full Load Amps		3.00			1.65
Corrected Nameplate Amps		-			2.85
Motor Speed (RPM / Setting)		1,261			1,625
Service Factor		-			1.00
Current Overload Size/Setting		-			Variable

Comments: _____

Technician(s): Curtis Tunink Date: 1/11/2024

NEBB CERTIFIED TESTING & BALANCING

FAN TEST REPORT

PROJECT NAME:	1330 - King Soopers 147		
EQUIPMENT / SYSTEM:	EF-ER2		
UNIT INFORMATION			
		DESIGN	ACTUAL
MANUFACTURER		Captive Aire	Captive Aire
MODEL #		DR12HFA	DR12HFA
SERIAL #			4050672
LOCATION / SERVICE			Electrical Closet
FAN INFORMATION			
		DESIGN	ACTUAL
Total Airflow (CFM)		600	641
Total of Terminal Airflows (CFM)		600	641
External Static Pressure		0.125 in.w.g.	nac
SP Reading - Intake			nac
SP Reading - Discharge			atm
Fan Speed (RPM / Setpoint)			D.D. / Variable
MOTOR INFORMATION			
		DESIGN / NAMEPLATE	ACTUAL
Manufacturer / Frame - Nameplate			HSSA / 42Y
Horse Power (HP)		0.18	0.16
Brake Horse Power (BHP)			0.15
Volts	Phase	115	122
			1
Full Load Amps		1.90	1.28
Corrected Nameplate Amps		-	1.79
Motor Speed (RPM / Setting)		1,467	1,625
Service Factor		-	1.00
Current Overload Size/Setting		-	Variable

Comments: _____

Technician(s): Curtis Tunink Date: 1/11/2024

NEBB CERTIFIED TESTING & BALANCING

FAN TEST REPORT

PROJECT NAME:	1330 - King Soopers 147				
EQUIPMENT / SYSTEM:	EF-ER1				
UNIT INFORMATION					
		DESIGN			ACTUAL
MANUFACTURER		Captive Aire			Captive Aire
MODEL #		DR10HFA			DR10HFA
SERIAL #					4050672
LOCATION / SERVICE					Family RR
FAN INFORMATION					
		DESIGN			ACTUAL
Total Airflow (CFM)		150			152
Total of Terminal Airflows (CFM)		150			152
External Static Pressure		0.13 in.w.g.			nac
SP Reading - Intake					nac
SP Reading - Discharge					atm
Fan Speed (RPM / Setpoint)					D.D. / Variable
MOTOR INFORMATION					
		DESIGN / NAMEPLATE			ACTUAL
Manufacturer / Frame - Nameplate					HSSA / n/g
Horse Power (HP)					0.06
Brake Horse Power (BHP)					0.06
Volts	Phase	115	1		122
Full Load Amps		0.94			0.47
Corrected Nameplate Amps		-			0.89
Motor Speed (RPM / Setting)					1,550
Service Factor		-			n/g
Current Overload Size/Setting		-			Variable

Comments: _____

Technician(s): Curtis Tunink Date: 1/19/2024

NEBB CERTIFIED TESTING & BALANCING

FAN TEST REPORT

PROJECT NAME:	1330 - King Soopers 147				
EQUIPMENT / SYSTEM:	EF-R2				
UNIT INFORMATION					
		DESIGN			ACTUAL
MANUFACTURER		Captive Aire			Captive Aire
MODEL #		DR30HFA			DR30HFA
SERIAL #					4050672
LOCATION / SERVICE					Customer RR
FAN INFORMATION					
		DESIGN			ACTUAL
Total Airflow (CFM)		850			817
Total of Terminal Airflows (CFM)		850			817
External Static Pressure		0.15 in.w.g.			nac
SP Reading - Intake					nac
SP Reading - Discharge					atm
Fan Speed (RPM / Setpoint)					D.D. / Variable
MOTOR INFORMATION					
		DESIGN / NAMEPLATE			ACTUAL
Manufacturer / Frame - Nameplate					HSSA / 48Y
Horse Power (HP)		0.25			0.25
Brake Horse Power (BHP)					0.24
Volts	Phase	115	1		122
Full Load Amps		3.00			2.06
Corrected Nameplate Amps		-			2.83
Motor Speed (RPM / Setting)		1,393			1,625
Service Factor		-			1.00
Current Overload Size/Setting		-			Variable

Comments: _____

Technician(s): Curtis Tunink Date: 1/11/2024

NEBB CERTIFIED TESTING & BALANCING

FAN TEST REPORT

PROJECT NAME:	1330 - King Soopers 147				
EQUIPMENT / SYSTEM:	EF-R3				
UNIT INFORMATION					
		DESIGN			ACTUAL
MANUFACTURER		Captive Aire			Captive Aire
MODEL #		DR12HFA			DR10HFA
SERIAL #					4050672
LOCATION / SERVICE					Associate RR
FAN INFORMATION					
		DESIGN			ACTUAL
Total Airflow (CFM)		300			305
Total of Terminal Airflows (CFM)		300			305
External Static Pressure		0.125 in.w.g.			nac
SP Reading - Intake					nac
SP Reading - Discharge					atm
Fan Speed (RPM / Setpoint)					D.D. / Variable
MOTOR INFORMATION					
		DESIGN / NAMEPLATE			ACTUAL
Manufacturer / Frame - Nameplate					HSSA / n/g
Horse Power (HP)		0.18			0.06
Brake Horse Power (BHP)					0.06
Volts	Phase	115	1		122
Full Load Amps		0.94			0.55
Corrected Nameplate Amps		-			0.89
Motor Speed (RPM / Setting)		1,467			1,550
Service Factor		-			n/g
Current Overload Size/Setting		-			Variable

Comments: _____

Technician(s): Curtis Tunink Date: 1/11/2024

NEBB CERTIFIED TESTING & BALANCING

FAN TEST REPORT

PROJECT NAME:	1330 - King Soopers 147				
EQUIPMENT / SYSTEM:	EF-S				
UNIT INFORMATION					
		DESIGN			ACTUAL
MANUFACTURER		Captive Aire			Captive Aire
MODEL #		DR30HFA			DR30HFA
SERIAL #					4050672
LOCATION / SERVICE					Seafood
FAN INFORMATION					
		DESIGN			ACTUAL
Total Airflow (CFM)		900			947
Total of Terminal Airflows (CFM)		900			947
External Static Pressure		0.125 in.w.g.			0.11 in.w.g.
SP Reading - Intake					-0.11 in.w.g.
SP Reading - Discharge					ATM
Fan Speed (RPM / Setpoint)					D.D. / Variable
MOTOR INFORMATION					
		DESIGN / NAMEPLATE			ACTUAL
Manufacturer / Frame - Nameplate					HSSA / 48Y
Horse Power (HP)		0.25			0.25
Brake Horse Power (BHP)					0.27
Volts	Phase	115	1		121
Full Load Amps		4.00			2.32
Corrected Nameplate Amps		-			3.80
Motor Speed (RPM / Setting)		1,442			1,625
Service Factor		-			1.00
Current Overload Size/Setting		-			Variable

Comments: _____

Technician(s): Curtis Tunink Date: 1/11/2024

NEBB CERTIFIED TESTING & BALANCING

FAN TEST REPORT

PROJECT NAME:	1330 - King Soopers 147					
EQUIPMENT / SYSTEM:	EF-G1					
UNIT INFORMATION						
		DESIGN			ACTUAL	
MANUFACTURER		Captive Aire			Captive Aire	
MODEL #		DU50HFA			DU50HFA	
SERIAL #					4050672	
LOCATION / SERVICE					Bakery Hood	
FAN INFORMATION						
		DESIGN			ACTUAL	
Total Airflow (CFM)		900			887	
Total of Terminal Airflows (CFM)		900			887	
External Static Pressure		0.125 in.w.g.			0.4 in.w.g.	
SP Reading - Intake					0.4 in.w.g.	
SP Reading - Discharge					ATM	
Fan Speed (RPM / Setpoint)					D.D.	
MOTOR INFORMATION						
		DESIGN / NAMEPLATE				ACTUAL
Manufacturer / Frame - Nameplate						Nema / n/g
Horse Power (HP)						0.50
Brake Horse Power (BHP)						0.43
Volts	Phase	115		1		121
Full Load Amps		6.30				3.70
Corrected Nameplate Amps		-				5.99
Motor Speed (RPM / Setting)						1,800
Service Factor		-				n/g
Current Overload Size/Setting		-				65% SPEED

Comments: _____

Technician(s): Curtis Tunink Date: 1/19/2024

RECTANGLE DUCT TRAVERSE TEST REPORT

PROJECT NAME:		King Soopers 147										
EQUIPMENT / SYSTEM:		EF-G1										
DUCT TRAVERSE INFORMATION												
Duct Zone:	TOTAL EXHAUST				Required CFM:	900		Required FPM:	307			
Duct Size:	65	X	6.5	WxH"	Area:	2.93		Static Pressure:	-0.4 in.w.g.			
Instrument:	VELGRID	Corr.	1	Altitude:	5280 FT		Temperature:	N/A				
DUCT TRAVERSE MEASUREMENTS												
Velocity Total (FPM):	1,511			Velocity Average (FPM):	302			Actual Airflow (CFM):	887			
POS	1	2	3	4	5	6	7	8	9	10	11	Distance Height
1	309	285	294	302	321							0
2												#VALUE!
3												#VALUE!
4												#VALUE!
5												#VALUE!
6												#VALUE!
7												#VALUE!
8												#VALUE!
9												#VALUE!
10												#VALUE!
11												#VALUE!
Distance Width	0	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	Inches
Totals	309	285	294	302	321	0	0	0	0	0	0	

Comments: _____

Technician(s): Tony Short Date: 1/19/2024

NEBB CERTIFIED TESTING & BALANCING

FAN TEST REPORT

PROJECT NAME:	1330 - King Soopers 147				
EQUIPMENT / SYSTEM:	EF-G2				
UNIT INFORMATION					
		DESIGN			ACTUAL
MANUFACTURER		Captive Aire			Captive Aire
MODEL #		DU50HFA			DU50HFA
SERIAL #					4050672
LOCATION / SERVICE					Bakery Hood
FAN INFORMATION					
		DESIGN			ACTUAL
Total Airflow (CFM)		900			914
Total of Terminal Airflows (CFM)		900			914
External Static Pressure		0.125 in.w.g.			0.42 in.w.g.
SP Reading - Intake					-0.42 in.w.g.
SP Reading - Discharge					ATM
Fan Speed (RPM / Setpoint)					D.D.
MOTOR INFORMATION					
		DESIGN / NAMEPLATE			ACTUAL
Manufacturer / Frame - Nameplate					Nema / n/g
Horse Power (HP)					0.50
Brake Horse Power (BHP)					0.40
Volts	Phase	115	1		121
Full Load Amps		6.30			3.42
Corrected Nameplate Amps		-			5.99
Motor Speed (RPM / Setting)					1,800
Service Factor		-			n/g
Current Overload Size/Setting		-			65% SPEED

Comments: _____

Technician(s): Curtis Tunink Date: 1/19/2024

RECTANGLE DUCT TRAVERSE TEST REPORT

PROJECT NAME:		King Soopers 147										
EQUIPMENT / SYSTEM:		EF-G1										
DUCT TRAVERSE INFORMATION												
Duct Zone:	TOTAL EXHAUST				Required CFM:	900		Required FPM:	307			
Duct Size:	65	X	6.5	WxH"	Area:	2.93		Static Pressure:	-0.42 in.w.g.			
Instrument:	VELGRID	Corr.	1	Altitude:	5280 FT		Temperature:	N/A				
DUCT TRAVERSE MEASUREMENTS												
Velocity Total (FPM):		1,557		Velocity Average (FPM):		311		Actual Airflow (CFM):		914		
POS	1	2	3	4	5	6	7	8	9	10	11	Distance Height
1	313	296	307	316	325							0
2												#VALUE!
3												#VALUE!
4												#VALUE!
5												#VALUE!
6												#VALUE!
7												#VALUE!
8												#VALUE!
9												#VALUE!
10												#VALUE!
11												#VALUE!
Distance Width	0	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	Inches
Totals	313	296	307	316	325	0	0	0	0	0	0	

Comments: _____

Technician(s): Tony Short Date: 1/19/2024