

Report By:

National TAB
1329 E. KEMPER ROAD
SUITE 4210
CINCINNATI, OH 45246



Report: TAB REPORT
Function: Test, Adjust, & Balance
Date: 08/13/2025
Completed By: National TAB

PROJECT

Dorothy Lane Market (Mason, OH)

7200 Mason-Montgomery road

Mason, OH 45040

Client

Mechanical Optimizers
2145 Patterson Street
Cincinnati, OH 45214

National TAB

Project: Dorothy Lane Market (Mason, OH)

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National TAB

Project: Dorothy Lane Market (Mason, OH)

System/Unit: AHU/RTU



Asset: RTU-1

AREA:ROOF

Unit Data		
	Design	Actual
MFG	NA	AAON
Serial Num	-	202404-BNGU116245
Model Num	NA	RNA-031-D-A-3-DABOA-CA2D0
Configuration	-	VERTICAL
Num OA Filters 1	-	1
OA Filter Size 1	-	28"X93"
Num PreFilter 1	-	16
PreFilter Size 1	-	12"X24"X2"

Test Data		
	Design	Actual
SF CFM	12000	12115
RA CFM	9360	9358
OA CFM	2640	2757
RL Voltage	-	481/479/484
RL Amperage	-	13.5 VFD
OA Damper Position	-	25%
Brake Horse Power	-	9.4

Motor Data		
	Design	Actual
Motor MFG	-	BALDOR
Frame	-	256T
Horsepower	10	10
Motor Rpm	-	1180
Phase	3	3
Rated Voltage	460	460
Rated Amperage	-	14.3
Service Factor	-	1.15

Performance Data		
	Design	Actual
MA Plenum SP	-	-2.3
Fan Suction SP	-	-2.62"
Fan Discharge SP	-	0.33
Total ESP	2.55	2.63"
Fan Total SP	-	2.95"

Completed By: Jordan Best on 06/13/2025

Notes:
Fan speed set pt. 58 HZ

Written By: Jordan Best on 06/05/2025

National TAB

Project: Dorothy Lane Market (Mason, OH)

AHU/RTU



Diffuser Supply (GRD)

RTU-1/ROOF

Asset							
Asset Name	Location	Type	Size	DESIGN CFM	CFM(1)	FINAL CFM	% to design
RTU-1-SGRD1	MEZZ	SR	28	225	6708*	208	92.4
RTU-1-SGRD2	MEZZ	SR	28	225		211	93.8
RTU-1-SGRD3	MEZZ	SR	28	225		232	103.1
RTU-1-SGRD4	MEZZ	SR	28	200		187	93.5
RTU-1-SGRD5	MEZZ	SR	26	225		214	95.1
RTU-1-SGRD6	MEZZ	SR	26	200		198	99.0
RTU-1-SGRD7	MEZZ	SR	26	225		233	103.6
RTU-1-SGRD8	MEZZ	SR	26	200		183	91.5
RTU-1-SGRD9	MEZZ	SR	26	225		221	98.2
RTU-1-SGRD10	MEZZ	SR	26	200		189	94.5
RTU-1-SGRD11	MEZZ	SR	14	150		163	108.7
RTU-1-SGRD12	MEZZ	SR	14	150		142	94.7
RTU-1-SGRD13	MEZZ	SR	14	100		98	98.0
RTU-1-SGRD14	MEZZ	SR	14	400		389	97.3
RTU-1-SGRD15	MEZZ	SR	16	200		187	93.5
RTU-1-SGRD16	MEZZ	SR	16	200		209	104.5
RTU-1-SGRD17	MEZZ	SR	16	200		189	94.5
RTU-1-SGRD18	MEZZ	SR	16	200		213	106.5
RTU-1-SGRD19	MEZZ	SR	16	200		189	94.5
RTU-1-SGRD20	MEZZ	SR	16	200		193	96.5
RTU-1-SGRD21	MEZZ	SR	16	225		235	104.4
RTU-1-SGRD22	MEZZ	SR	16	200		211	105.5
RTU-1-SGRD23	MEZZ	SR	16	200		189	94.5
RTU-1-SGRD24	MEZZ	SR	16	200		204	102.0
RTU-1-SGRD25	MEZZ	SR	16	200		211	105.5
RTU-1-SGRD26	MEZZ	SR	16	200		209	104.5
RTU-1-SGRD27	MEZZ	SR	16	200		197	98.5
RTU-1-SGRD28	MEZZ	SR	16	200		184	92.0
RTU-1-SGRD29	MEZZ	SR	16	225		231	102.7
RTU-1-SGRD30	MEZZ	SR	10	290		301	103.8
RTU-1-SGRD31	MEZZ	SR	16	290	1034*	311	107.2
RTU-1-SGRD32	MEZZ	SR	16	290		309	106.6
RTU-1-SGRD33	MEZZ	SR	16	290		278	95.9
RTU-1-SGRD34	MEZZ	SR	16	290		284	97.9
RTU-1-SGRD35	MEZZ	SR	26	290	975*	291	100.3
RTU-1-SGRD36	MEZZ	SR	24	290		301	103.8
RTU-1-SGRD37	MEZZ	SR	24	290		311	107.2
RTU-1-SGRD38	MEZZ	SR	18	290	1802*	287	99.0
RTU-1-SGRD39	MEZZ	SR	18	290		278	95.9
RTU-1-SGRD40	MEZZ	SR	16	290		282	97.2
RTU-1-SGRD41	MEZZ	SR	16	290		302	104.1
RTU-1-SGRD42	MEZZ	SR	16	290		289	99.7
RTU-1-SGRD43	MEZZ	SR	16	290		301	103.8
RTU-1-SGRD44	MEZZ	SR	18	290	2031*	287	99.0
RTU-1-SGRD45	MEZZ	SR	18	290		273	94.1
RTU-1-SGRD46	MEZZ	SR	18	290		289	99.7
RTU-1-SGRD47	MEZZ	SR	18	290		302	104.1
RTU-1-SGRD48	MEZZ	SR	14	290		311	107.2
RTU-1-SGRD49	MEZZ	SR	14	290		298	102.8
RTU-1-SGRD50	MEZZ	SR	8	200		311	155.5
Total				12000	0	12115	100.96%

Asset	Notes	Date	Written By
RTU-1-SGRD1	*asterisk in CFM column indicates initial traverse for trunk total	06/13/2025	Jordan Best
RTU-1-SGRD31	*asterisk in CFM column indicates initial traverse for trunk total	06/13/2025	Jordan Best
RTU-1-SGRD35	*asterisk in CFM column indicates initial traverse for trunk total	06/13/2025	Jordan Best
RTU-1-SGRD38	*asterisk in CFM column indicates initial traverse for trunk total	06/13/2025	Jordan Best
RTU-1-SGRD44	*asterisk in CFM column indicates initial traverse for trunk total	06/13/2025	Jordan Best
RTU-1-SGRD50	*asterisk in CFM column indicates initial traverse for trunk total	06/13/2025	Jordan Best

National TAB

Project: Dorothy Lane Market (Mason, OH)
System/Unit: AHU/RTU



Asset: RTU-2

AREA:ROOF

Unit Data		
	Design	Actual
MFG	NA	AAON
Serial Num	-	202404-BNGV116246
Model Num	NA	RNA-040-D-A-3-EAB0B-CA2D0
Configuration	-	RTU
Num PreFilter 1	-	12
PreFilter Size 1	-	14X24X2"

Test Data		
	Design	Actual
SF CFM	16000	15637
RA CFM	-	12742
OA CFM	2880	2895
RL Voltage	-	476/474/478
RL Amperage	-	27.2 VFD
OA Damper Position	-	30%
Brake Horse Power	-	11.3

Motor Data		
	Design	Actual
Motor MFG	-	BALDOR
Frame	-	256T
Horsepower	15	20
Motor Rpm	-	1765
Phase	3	3
Rated Voltage	460	460
Rated Amperage	-	48
Service Factor	-	1.15

Performance Data		
	Design	Actual
MA Plenum SP	-	-0.63"
Fan Suction SP	-	-2.4"
Fan Discharge SP	-	1"
Total ESP	3.45	1.63"
Fan Total SP	-	3.4"

Completed By: Jordan Best on 06/13/2025

Notes:
Fan Speed Set Pt. 55 HZ

Written By: Jordan Best on 06/05/2025

National TAB
Project: Dorothy Lane Market (Mason, OH)
AHU/RTU



Diffuser Supply (GRD)

RTU-2/ROOF

Asset							
Asset Name	Location	Type	Size	DESIGN CFM	CFM(1)	FINAL CFM	% to design
RTU-2-SGRD1	SALES FLOOR 4	SR	14	200	1087*	187	93.5
RTU-2-SGRD2	SALES FLOOR 4	SR	14	400		372	93.0
RTU-2-SGRD3	SALES FLOOR 4	SR	14	400		405	101.3
RTU-2-SGRD4	MEZZ	SR	24	400		382	95.5
RTU-2-SGRD5	MEZZ	SR	24	200		188	94.0
RTU-2-SGRD6	MEZZ	SR	22	400	2593*	398	99.5
RTU-2-SGRD7	MEZZ	SR	22	200		187	93.5
RTU-2-SGRD8	MEZZ	SR	20	400		415	103.8
RTU-2-SGRD9	MEZZ	SR	20	150		138	92.0
RTU-2-SGRD10	MEZZ	SR	14	400		378	94.5
RTU-2-SGRD11	MEZZ	SR	10	400	1084*	412	103.0
RTU-2-SGRD12	MEZZ	SR	18	400		389	97.3
RTU-2-SGRD13	MEZZ	SR	18	200		187	93.5
RTU-2-SGRD14	MEZZ	SR	18	200		211	105.5
RTU-2-SGRD15	MEZZ	SR	18	400		389	97.3
RTU-2-SGRD16	MEZZ	SR	36	200		189	94.5
RTU-2-SGRD17	MEZZ	SR	36	400		365	91.3
RTU-2-SGRD18	MEZZ	SR	24	360		331	91.9
RTU-2-SGRD19	MEZZ	SR	24	360		354	98.3
RTU-2-SGRD20	MEZZ	SR	22	360		372	103.3
RTU-2-SGRD21	MEZZ	SR	22	360		351	97.5
RTU-2-SGRD22	MEZZ	SR	20	360		344	95.6
RTU-2-SGRD23	MEZZ	SR	20	360		338	93.9
RTU-2-SGRD24	MEZZ	SR	16	360		354	98.3
RTU-2-SGRD25	MEZZ	SR	16	360		371	103.1
RTU-2-SGRD26	MEZZ	SR	12	360		363	100.8
RTU-2-SGRD27	MEZZ	SR	12	360	3881*	381	105.8
RTU-2-SGRD28	MEZZ	SR	30	150		138	92.0
RTU-2-SGRD29	MEZZ	SR	30	400		419	104.8
RTU-2-SGRD30	FRONT END OFFICE	CD	8	250		248	99.2
RTU-2-SGRD31	FRONT END OFFICE	SR	20	100		91	91.0
RTU-2-SGRD32	FRONT END OFFICE	CD	6	100		98	98.0
RTU-2-SGRD33	INDOOR CAFE SEATING	SR	18	500		489	97.8
RTU-2-SGRD34	INDOOR CAFE SEATING	SR	18	500	3796*	511	102.2
RTU-2-SGRD35	INDOOR CAFE SEATING	SR	16	500		478	95.6
RTU-2-SGRD36	INDOOR CAFE SEATING	SR	14	500		501	100.2
RTU-2-SGRD37	INDOOR CAFE SEATING	SR	12	500		467	93.4
RTU-2-SGRD38	VESTIBULE	SR	14	250		243	97.2
RTU-2-SGRD39	VESTIBULE	SR	12	250		237	94.8
RTU-2-SGRD40	VESTIBULE	SR	12	250		261	104.4
RTU-2-SGRD41	VESTIBULE	SR	12	250	3013*	241	96.4
RTU-2-SGRD42	CONSULTING	CD	6	150		137	91.3
RTU-2-SGRD43	CONSULTING	SR	28	350		326	93.1
RTU-2-SGRD44	COOKING SCHOOL	SR	14	350		334	95.4
RTU-2-SGRD45	COOKING SCHOOL	SR	14	350		361	103.1
RTU-2-SGRD46	SECURITY OFFICE	CD	6	150	1302*	143	95.3
RTU-2-SGRD47	CATWALK	SR	36	200		187	93.5
RTU-2-SGRD48	CATWALK	SR	30	400		376	94.0
RTU-2-SGRD49	CATWALK	SR	30	200		189	94.5
RTU-2-SGRD50	CATWALK	SR	30	400		411	102.8
Total				16000	0	15637	97.73%

Completed By: Jordan Best on 06/13/2025

Asset	Notes	Date	Written By
RTU-2-SGRD1	*asterisk in CFM column indicates initial traverse for trunk total	06/13/2025	Jordan Best
RTU-2-SGRD6	*asterisk in CFM column indicates initial traverse for trunk total	06/13/2025	Jordan Best
RTU-2-SGRD11	*asterisk in CFM column indicates initial traverse for trunk total	06/13/2025	Jordan Best
RTU-2-SGRD27	*asterisk in CFM column indicates initial traverse for trunk total	06/13/2025	Jordan Best
RTU-2-SGRD34	*asterisk in CFM column indicates initial traverse for trunk total	06/13/2025	Jordan Best
RTU-2-SGRD41	*asterisk in CFM column indicates initial traverse for trunk total	06/13/2025	Jordan Best
RTU-2-SGRD46	*asterisk in CFM column indicates initial traverse for trunk total	06/13/2025	Jordan Best

National TAB

Project: Dorothy Lane Market (Mason, OH)
System/Unit: AHU/RTU



Asset: RTU-3

AREA:ROOF

Unit Data		
	Design	Actual
MFG	NA	CARRIER
Serial Num	-	2024P23761
Model Num	NA	48LCTA14E3A6A4R4C0
Configuration	-	VERTICAL
Num OA Filters 1	-	4
OA Filter Size 1	-	15.75"X25"
Num PreFilter 1	-	6
PreFilter Size 1	-	20"X25"X2"

Test Data		
	Design	Actual
SF CFM	4000	3786
RA CFM	-	2842
OA CFM	975	944
RL Voltage	-	479/477/475
RL Amperage	-	1.3/1.6/1.56
OA Damper Position	-	42%
Brake Horse Power	-	0.77

Motor Data		
	Design	Actual
Motor MFG	-	MARATHON
Frame	-	213T
Horsepower	3.0	5
Motor Rpm	-	1472
Phase	3	3
Rated Voltage	460	460
Rated Amperage	-	9.7
Service Factor	-	1.15

Performance Data		
	Design	Actual
MA Plenum SP	-	-.13"
Fan Suction SP	-	-.28"
Fan Discharge SP	-	0.32"
Total ESP	1.68	.45"
Fan Total SP	-	0.6"

Completed By: Corey Dick on 05/28/2025

Notes:
 Motor Sheave/Bore: 1VP71
 Fan Sheave/Bore: BK120X1-3/16
 Fan Speed 60%

Written By: Jordan Best on 06/13/2025

National TAB

Project: Dorothy Lane Market (Mason, OH)

AHU/RTU



Diffuser Supply (GRD)

RTU-3/ROOF

Asset							
Asset Name	Location	Type	Size	DESIGN CFM	CFM(1)	FINAL CFM	% to design
RTU-3-SGRD1	MEZZ	SR	18	875	3874*	791	90.4
RTU-3-SGRD2	MEZZ	SR	18	250		228	91.2
RTU-3-SGRD3	MEZZ	SR	14	875		827	94.5
RTU-3-SGRD4	MEZZ	SR	18	875		802	91.7
RTU-3-SGRD5	MEZZ	SR	18	250		254	101.6
RTU-3-SGRD6	MEZZ	SR	14	875		884	101.0
Total				4000	0	3786	94.65%

Completed By: Jordan Best on 06/13/2025

Asset	Notes	Date	Written By
RTU-3-SGRD1	*asterisk in CFM column indicates initial traverse for trunk total	06/13/2025	Jordan Best

National TAB

Project: Dorothy Lane Market (Mason, OH)
System/Unit: AHU/RTU



Asset: RTU-4

AREA:ROOF

Unit Data		
	Design	Actual
MFG	NA	CARRIER
Serial Num	-	2524P12426
Model Num	NA	48LCSA12E3A6A4R4C0
Configuration	-	RTU
Num OA Filters 1	-	2
OA Filter Size 1	-	22.5X26"
Num PreFilter 1	-	6
PreFilter Size 1	-	18X24X2"

Test Data		
	Design	Actual
SF CFM	4000	4310
RA CFM	-	3645
OA CFM	720	665
RL Voltage	-	477/478/47
RL Amperage	-	1.23/1.38/1.22
OA Damper Position	-	24%

Motor Data		
	Design	Actual
Motor MFG	-	MARATHON
Frame	-	145TZ
Horsepower	3.0	NL
Motor Rpm	-	1745
Phase	3	3
Rated Voltage	460	460
Rated Amperage	-	14
Service Factor	-	1.15

Performance Data		
	Design	Actual
MA Plenum SP	-	-.31
Fan Suction SP	-	-.48
Fan Discharge SP	-	.22
Total ESP	2.52	.53
Fan Total SP	-	0.7

Completed By: Corey Dick on 05/28/2025

Notes:
 Motor sheave:6"
 Motor bore:2.75"
 CL:18"
 A61 Belt
 Damper 6 above design, no damper installed
 Fan Speed 60%

Written By: Jordan Best on 05/28/2025

National TAB

Project: Dorothy Lane Market (Mason, OH)

AHU/RTU



Diffuser Supply (GRD)

RTU-4/ROOF

Asset							
Asset Name	Location	Type	Size	DESIGN CFM	CFM(1)	FINAL CFM	% to design
RTU-4-SGRD1	COOKING SCHOOL	SR	24	625	736	672	107.5
RTU-4-SGRD2	COOKING SCHOOL	SR	24	625	897	681	109.0
RTU-4-SGRD3	COOKING SCHOOL	SR	20	625	590	675	108.0
RTU-4-SGRD4	COOKING SCHOOL	SR	20	625	634	653	104.5
RTU-4-SGRD5	COOKING SCHOOL SCHOOLCOOKING SCHOOL	SR	16	500	577	547	109.4
RTU-4-SGRD6	COOKING SCHOOL	SR	14	500	516	543	108.6
RTU-4-SGRD7	COOKING SCHOOL	SR	12	500	673	539	107.8
Total				4000	4623	4310	107.75%

Completed By: Jordan Best on 05/20/2025

National TAB

Project: Dorothy Lane Market (Mason, OH)
System/Unit: AHU/RTU



Asset: RTU-5

AREA:ROOF

Unit Data		
	Design	Actual
MFG	NA	CARRIER
Serial Num	-	2524P12427
Model Num	NA	48LCSA12E3A64R4C0
Configuration	-	VERTICAL
Num OA Filters 1	-	2
OA Filter Size 1	-	23.5"X27"
Num PreFilter 1	-	6
PreFilter Size 1	-	18"X24"X2"

Test Data		
	Design	Actual
SF CFM	4000	3987
RA CFM	-	3112
OA CFM	840	875
RL Voltage	-	472/477/474
RL Amperage	-	2.13/1.92/1.84
OA Damper Position	-	30%

Performance Data		
	Design	Actual
MA Plenum SP	-	-0.38"
Fan Suction SP	-	-0.56"
Fan Discharge SP	-	0.61"
Total ESP	2.65	0.99"
Fan Total SP	-	1.17"

Motor Data		
	Design	Actual
Motor MFG	-	MARATHON
Frame	-	145TZ
Motor Rpm	-	1745
Phase	3	3
Rated Voltage	460	460
Rated Amperage	-	7
Service Factor	-	1.15

Completed By: Jordan Best on 05/16/2025

Notes:
Motor Sheave/Bore: 1VP60X7/8
Fan Sheave/Bore: AK94X1

Written By: Jordan Best on 05/13/2025

National TAB

Project: Dorothy Lane Market (Mason, OH)

AHU/RTU



Diffuser Supply (GRD)

RTU-5/ROOF

Asset							
Asset Name	Location	Type	Size	DESIGN CFM	CFM(1)	FINAL CFM	% to design
RTU-5-SGRD1	AUTO WRAP	CD	8	250	278	269	107.6
RTU-5-SGRD2	CORRIDOR	SR	16	250	260	260	104.0
RTU-5-SGRD3	EMP RR	CD	6	50	82	54	108.0
RTU-5-SGRD4	ELECTRICAL SERVICES	SR	10	350	300	351	100.3
RTU-5-SGRD5	CORRIDOR	SR	8	250	228	228	91.2
RTU-5-SGRD6	CORRIDOR	CD	6	100	105	105	105.0
RTU-5-SGRD7	CORRIDOR	SR	16	250	233	233	93.2
RTU-5-SGRD8	SEAFOOD PREP	CD	8	200	248	218	109.0
RTU-5-SGRD9	SEAFOOD PREP	CD	8	200	253	209	104.5
RTU-5-SGRD10	GROCERY OFFICE	CD	6	100	110	110	110.0
RTU-5-SGRD12	CORRIDOR	SR	8	250	204	204	81.6
RTU-5-SGRD13	DELIVERY/STORAGE	SR	12	225	425	236	104.9
RTU-5-SGRD14	DELIVERY/STORAGE	SR	12	225	418	212	94.2
RTU-5-SGRD15	DELIVERY/STORAGE	SR	16	225	336	215	95.6
RTU-5-SGRD16	DELIVERY/STORAGE	SR	16	225	374	217	96.4
RTU-5-SGRD17	DELIVERY/STORAGE	SR	14	225	392	222	98.7
RTU-5-SGRD18	DELIVERY/STORAGE	SR	14	225	378	237	105.3
RTU-5-SGRD19	DELIVERY/STORAGE	SR	10	200	279	197	98.5
RTU-5-SGRD20	DELIVERY/STORAGE	SR	10	200	346	210	105.0
Total				4000	5249	3987	99.68%

Completed By: Jordan Best on 05/15/2025

National TAB

Project: Dorothy Lane Market (Mason, OH)
System/Unit: AHU/RTU



Asset: RTU-6

AREA:ROOFTOP

Unit Data		
	Design	Actual
MFG	NA	CARRIER
Serial Num	-	2524P12446
Model Num	NA	48LCSA08E4A6A4R4C0
Configuration	-	VERTICAL
Num OA Filters 1	-	2
OA Filter Size 1	-	23.5"X27"
Num PreFilter 1	-	4
PreFilter Size 1	-	18"X24"X2"

Motor Data		
	Design	Actual
Motor MFG	-	MARATHON
Frame	-	145TZ
Motor Rpm	-	1745
Phase	3	3
Rated Voltage	460	460
Rated Amperage	-	7
Service Factor	-	1.15

Test Data		
	Design	Actual
SF CFM	3000	3147
RA CFM	-	2656
OA CFM	480	491
RL Voltage	-	479/474/480
RL Amperage	-	1.63/1.73/2.04
OA Damper Position	-	23%

Performance Data		
	Design	Actual
MA Plenum SP	-	-0.26"
Fan Suction SP	-	-0.36"
Fan Discharge SP	-	0.85"
Total ESP	2.15	0.62"
Fan Total SP	-	1.21"

Completed By: Jordan Best on 05/16/2025

Notes:

FANSPEED SETPOINT 80%

. Changes to design per engineer, removed diffuser 15

Written By: Jordan Best on 05/15/2025

National TAB

Project: Dorothy Lane Market (Mason, OH)

AHU/RTU



Diffuser Supply (GRD)

RTU-6/ROOFTOP

Asset							
Asset Name	Location	Type	Size	DESIGN CFM	CFM(1)	FINAL CFM	% to design
RTU-6-SGRD1	CORRIDOR	SR	28X14	450	661	469	104.2
RTU-6-SGRD2	QUIET RM	CD	8	125	283	135	108.0
RTU-6-SGRD3	DEPT HEADS RM	CD	8	150	277	157	104.7
RTU-6-SGRD4	DEPT HEADS RM	CD	8	150	300	162	108.0
RTU-6-SGRD5	LARGE CONFERENCE	CD	8	200	98	213	106.5
RTU-6-SGRD6	LARGE CONFERENCE	CD	8	225	107	238	105.8
RTU-6-SGRD7	LARGE CONFERENCE	CD	8	200	104	209	104.5
RTU-6-SGRD8	LARGE CONFERENCE	CD	8	225	109	242	107.6
RTU-6-SGRD9	LARGE CONFERENCE	CD	8	225	83	239	106.2
RTU-6-SGRD10	LARGE CONFERENCE	CD	8	225	102	243	108.0
RTU-6-SGRD11	OWNER OFFICE	CD	10	325	392	315	96.9
RTU-6-SGRD12	SMALL CONF	CD	8	225	200	234	104.0
RTU-6-SGRD13	WOMEN RR	CD	6	60	98	62	103.3
RTU-6-SGRD14	MEN RR	CD	6	65	101	68	104.6
RTU-6-SGRD16	STORAGE	CD	6	100	167	108	108.0
RTU-6-SGRD17	CORRIDOR	CD	6	50	131	53	106.0
Total				3000	3213	3147	104.9%

Completed By: Jordan Best on 05/15/2025

National TAB

Project: Dorothy Lane Market (Mason, OH)
System/Unit: AHU/RTU



Asset: RTU-7

AREA:ROOF

Unit Data		
	Design	Actual
MFG	NA	CARRIER
Serial Num	-	2524P12445
Model Num	NA	48LCSA08E4A6A4R4C0
Configuration	-	VERTICAL
Num OA Filters 1	-	2
OA Filter Size 1	-	24"X27"
Num PreFilter 1	-	6
PreFilter Size 1	-	18"X24"X2"

Test Data		
	Design	Actual
SF CFM	3000	2995
RA CFM	-	2550
OA CFM	420	445
RL Voltage	-	489/493/491
RL Amperage	-	2.14/2.05/2.32
OA Damper Position	-	20%

Motor Data		
	Design	Actual
Motor MFG	-	MARATHON
Frame	-	135TZ
Motor Rpm	-	1745
Phase	3	3
Rated Voltage	460	460
Rated Amperage	-	7
Service Factor	-	1.15

Performance Data		
	Design	Actual
MA Plenum SP	-	-0.41"
Fan Suction SP	-	-0.58"
Fan Discharge SP	-	0.73"
Total ESP	2.05	1.14"
Fan Total SP	-	1.31"

Completed By: Jordan Best on 05/16/2025

Notes:
 Motor Sheave/Bore: 1VP60X7/8
 Fan Sheave/Bore: AK94X1
 FANSPEED SETPOINT 85%

Written By: Jordan Best on 05/15/2025

National TAB

Project: Dorothy Lane Market (Mason, OH)

AHU/RTU



Diffuser Supply (GRD)

RTU-7/ROOF

Asset							
Asset Name	Location	Type	Size	DESIGN CFM	CFM(1)	FINAL CFM	% to design
RTU-7-SGRD1	MENS RR	CD	8	150	340	162	108.0
RTU-7-SGRD2	WOMENS RR	CD	6	100	154	109	109.0
RTU-7-SGRD3	MENS LOCKER	CD	6	50	51	51	102.0
RTU-7-SGRD4	MENS LOCKER	CD	6	50	131	53	106.0
RTU-7-SGRD5	NURSING	CD	6	150	201	158	105.3
RTU-7-SGRD6	EMP BREAK RM	CD	10	350	294	382	109.1
RTU-7-SGRD7	EMP BREAK RM	CD	10	350	253	367	104.9
RTU-7-SGRD8	EMP BREAK RM	CD	10	350	351	356	101.7
RTU-7-SGRD9	EMP BREAK RM	CD	10	350	88	203	58.0
RTU-7-SGRD10	EMP BREAK RM	CD	10	350	578	365	104.3
RTU-7-SGRD11	EXPANSION	SR	12	175	169	189	108.0
RTU-7-SGRD12	EXPANSION	SR	10	200	195	203	101.5
RTU-7-SGRD13	EXPANSION	SR	10	200	185	211	105.5
RTU-7-SGRD14	EXPANSION	SR	12	175	179	186	106.3
Total				3000	3169	2995	99.83%

Completed By: Jordan Best on 05/15/2025

National TAB

Project: Dorothy Lane Market (Mason, OH)
System/Unit: AHU-DUAL FAN



Asset: DOAS-1

AREA: ROOF

UNIT DATA - SUPPLY		
	Design	Actual
Manufacturer	NA	AAON
Model Number	NA	RNA-070-D-A-3-CAB0A-CB3L0
Serial Number	-	202404-BNGY116286
No. Pre-Filters / Size (1)	-	1
No. Pre-Filters / Size (2)	-	33"X84"
No. Pre-Filters / Size (3)	-	12 / 12"X24"X2"
No. Final Filters / Size (1)	-	24 / 12"X24"X2"
No. Final Filters / Size (2)	-	24 / 12"X24"X2"

MOTOR DATA - SUPPLY	
	Actual
Motor MFG / Frame	US MOTORS
Horsepower / RPM	2.0 / NA
Rated Volts / Phase	480/3
Rated Amperage / SF	4.4 / 1.15

TEST DATA - SUPPLY		
	Design	Actual
Total CFM	7700	7971
VFD Speed	-	46 HZ
RL Voltage	-	476/477/480
RL Amperage	-	4.35/4.18 VFD
Motor B.H.P.	-	1.93

PERFORMANCE DATA - SUPPLY		
	Design	Actual
Suction S.P.	-	-0.51"
Discharge S.P.	-	0.85"
Total S.P.	-	1.36"
Chilled Water Coil P.D.	-	-0.15"
Final Filters P.D.	-	-0.3"
Pre-Filters P.D.	-	0.34"

Completed By: Jordan Best on 06/12/2025

Notes:
2 Supply Fans

Written By: Jordan Best on 06/12/2025

National TAB
 Project: Dorothy Lane Market (Mason, OH)
AHU-DUAL FAN



Diffuser Supply (GRD)

DOAS-1/ROOF

Asset							
Asset Name	Location	Type	Size	DESIGN CFM	CFM(1)	FINAL CFM	% to design
DOAS-1-SGRD1	DELI KITCHEN	CD	12	580	550	632	109.0
DOAS-1-SGRD2	DELI KITCHEN	CD	12	580	729?	602	103.8
DOAS-1-SGRD3	DELI KITCHEN	CD	12	580	516	616	106.2
DOAS-1-SGRD4	DELI KITCHEN	CD	12	580	531	598	103.1
DOAS-1-SGRD5	DELI KITCHEN	CD	12	580	574	574	99.0
DOAS-1-SGRD6	DELI KITCHEN	CD	12	580	682	608	104.8
DOAS-1-SGRD7	DELI KITCHEN	CD	12	580	590	590	101.7
DOAS-1-SGRD8	DELI KITCHEN	CD	12	580	614	614	105.9
DOAS-1-SGRD9	DELI KITCHEN	CD	12	580	669	631	108.8
DOAS-1-SGRD10	DELI KITCHEN	CD	12	580	654	629	108.4
DOAS-1-SGRD11	DELI KITCHEN	CD	12	580	685	619	106.7
DOAS-1-SGRD12	DELI KITCHEN	CD	12	580	634	634	109.3
DOAS-1-SGRD13	DELI KITCHEN	CD	12	580	699	624	107.6
Total				7540	7398	7971	105.72%

Completed By: Aaron Cosby on 05/14/2025

National TAB

Project: Dorothy Lane Market (Mason, OH)
System/Unit: AHU-DUAL FAN



Asset: DOAS-2

AREA:

UNIT DATA - SUPPLY		
	Design	Actual
Manufacturer	NA	AAON
Model Number	NA	RNA-070-D-A-3-CAB0A-CB3L0
Serial Number	-	202404-BNGY116287
No. Pre-Filters / Size (1)	-	1
No. Pre-Filters / Size (2)	-	33"X84"
No. Pre-Filters / Size (3)	-	12 / 12"X24"X2"
No. Final Filters / Size (1)	-	24 / 12"X24"X4"
No. Final Filters / Size (2)	-	24 / 12"X24"X2"

MOTOR DATA - SUPPLY	
	Actual
Motor MFG / Frame	US MOTORS / 213T
Horsepower / RPM	3 / 1175
Rated Volts / Phase	460 / 3
Rated Amperage / SF	4.4 / 1.15

TEST DATA - SUPPLY		
	Design	Actual
Total CFM	7700	7689
VFD Speed	-	47 HZ
RL Voltage	-	474/479/483
RL Amperage	-	8.8 VFD
Motor B.H.P.	-	1

PERFORMANCE DATA - SUPPLY		
	Design	Actual
Suction S.P.	-	-0.61"
Discharge S.P.	-	0.78"
Total S.P.	-	1.37"
Chilled Water Coil P.D.	-	-0.23"
Final Filters P.D.	-	-0.31

Completed By: Jordan Best on 06/12/2025

Notes:
2 Supply Fans

Written By: Jordan Best on 06/12/2025

National TAB

Project: Dorothy Lane Market (Mason, OH)

AHU-DUAL FAN



Diffuser Supply (GRD)

DOAS-2/

Asset							
Asset Name	Location	Type	Size	DESIGN CFM	CFM(1)	FINAL CFM	% to design
DOAS-2-SGRD1	CHILL ALCOVE	CD	12	580	733	534	92.1
DOAS-2-SGRD2	CHILL ALCOVE	CD	12	580	1014	554	95.5
DOAS-2-SGRD3	CHILL ALCOVE	CD	12	580	830	536	92.4
DOAS-2-SGRD4	CHILL ALCOVE	CD	12	580	842	529	91.2
DOAS-2-SGRD5	CHILL ALCOVE	CD	12	580	493	525	90.5
DOAS-2-SGRD6	CHILL ALCOVE	CD	12	550	775	506	92.0
DOAS-2-SGRD7	CHILL ALCOVE	CD	12	500	578	510	102.0
DOAS-2-SGRD8	CHILL ALCOVE	CD	12	550	419	505	91.8
DOAS-2-SGRD9	CHILL ALCOVE	CD	12	580	752	612	105.5
DOAS-2-SGRD10	CATERING PREP	CD	12	550	586	604	109.8
DOAS-2-SGRD11	CATERING PREP	CD	12	525	715	571	108.8
DOAS-2-SGRD12	CATERING PREP	CD	12	550	687	573	104.2
DOAS-2-SGRD13	CATERING PREP	CD	12	525	737	548	104.4
DOAS-2-SGRD14	EMP, RR	CD	6	50	153	54	108.0
DOAS-2-SGRD15	CHILL ALCOVE	CD	12	580	153	528	91.0
Total				7860	9467	7689	97.82%

Completed By: Jordan Best on 05/15/2025

National TAB

Project: Dorothy Lane Market (Mason, OH)
System/Unit: FAN - Supply



Asset: OAF-1

AREA:FOOD SERVICE CORRIDOR

Unit Data		
	Design	Actual
MFG	NA	GREENHECK
Model Num	NA	SQ-100-VG-X
Serial Num	-	25096766

Test Data		
	Design	Actual
CFM	780	779
RL Voltage	-	209.4
RL Amperage	-	1.08
Discharge ESP	-	0.38"

Completed By: Jordan Best on 05/14/2025

Notes:

. Unable to access motor panel for info.

Written By: Jordan Best on 05/13/2025

National TAB

Project: Dorothy Lane Market (Mason, OH)
System/Unit: FAN - Supply



Asset: MAU-1

AREA:ROOF

Unit Data		
	Design	Actual
MFG	NA	ACCUREX
Model Num	NA	XDG-109-H10-5
Serial Num	-	24395257
Type	GAS FIRED	GAS FIRED
Configuration	-	VERTICAL
Num Filters Size 1	-	2
Filter Size 1	-	20"X25"X2"

Test Data		
	Design	Actual
CFM	1840	1853
RL Voltage	-	207.4/205.9/208.4
RL Amperage	-	3.65 VFD
Brake Horse Power	-	1.17

Motor Data		
	Design	Actual
Motor MFG	-	WEG
Frame	-	56H
Horsepower	1.5	1.5
Motor Rpm	1725	1760
Phase	3	3
Voltage (rated)	208	208
Amperage (rated)	-	4.64
Service Factor	-	1.15

Drive Data	
	Actual
Motor Sheave Size	1VP4058
Motor Bore Size	1VP4058
Motor Sheave SetPt	1 TURN OUT
Fan Sheave Size	AK46X3/4
Fan Sheave Bore	AK46X3/4
Belt CL Distance	17.25"
Num of Belts	1
Belt Size	A45

Completed By: Jordan Best on 06/12/2025

National TAB

Project: Dorothy Lane Market (Mason, OH)
System/Unit: FAN - Supply



Asset: MAU-2

AREA:ROOF

Unit Data		
	Design	Actual
MFG	NA	ACCUREX
Model Num	NA	XDG-112-H20-8
Serial Num	-	24395263
Type	GAS FIRED	GAS FIRED
Configuration	-	VERTICAL
Num Filters Size 1	-	4
Filter Size 1	-	16"X20"X2"

Test Data		
	Design	Actual
CFM	3020	2989
RL Voltage	-	213.4/212.9/211.8
RL Amperage	-	7.1
Brake Horse Power	-	2.36

Motor Data		
	Design	Actual
Motor MFG	-	BALDOR
Frame	-	182T
Horsepower	2.0	3
Motor Rpm	1725	1760
Phase	3	3
Voltage (rated)	208	208
Amperage (rated)	-	9
Service Factor	-	1.15

Drive Data	
	Actual
Motor Sheave Size	1VP50118
Motor Bore Size	1VP50118
Motor Sheave SetPt	1 TURN OUT
Fan Sheave Size	AK69X1
Fan Sheave Bore	AK69X1
Belt CL Distance	23.25"
Num of Belts	1
Belt Size	AX62

Completed By: Corey Dick on 05/28/2025

Notes:
Fan Speed 7 VDC

Written By: Jordan Best on 05/20/2025

National TAB

Project: Dorothy Lane Market (Mason, OH)
System/Unit: FAN - Supply



Asset: MAU-3

AREA:ROOF

Unit Data		
	Design	Actual
MFG	NA	ACCUREX
Model Num	NA	XDG-110-H10-5
Serial Num	-	24395270
Type	GAS FIRED	GAS FIRED
Configuration	-	VERTICAL
Num Filters Size 1	-	2
Filter Size 1	-	20X25X2"

Test Data		
	Design	Actual
CFM	2320	2190
RL Voltage	-	211.3/212.8/210.4
RL Amperage	-	4.7 VFD
Brake Horse Power	-	1.62

Motor Data		
	Design	Actual
Motor MFG	-	BALDOR
Frame	-	56H
Horsepower	2.0	2.0
Motor Rpm	1725	1770
Phase	3	3
Voltage (rated)	208	208
Amperage (rated)	-	5.8
Service Factor	-	1.15

Drive Data	
	Actual
Motor Sheave Size	4"
Motor Bore Size	0.75"
Motor Sheave SetPt	5 TURNS OUT
Fan Sheave Size	5.25"
Fan Sheave Bore	0.75"
Belt CL Distance	17"
Num of Belts	1
Belt Size	A46

Completed By: Corey Dick on 05/28/2025

Notes:
Fan Speed 10 VDC

Written By: Jordan Best on 05/20/2025

National TAB

Project: Dorothy Lane Market (Mason, OH)
System/Unit: FAN - Exhaust



Asset: EF-1

AREA:EMP RR

Unit Data		
	Design	Actual
MFG	NA	GREENHECK
Model Num	NA	SP-B110-QD
Serial Num	-	180709480-0056

Test Data		
	Design	Actual
CFM	75	81

Motor Data		
	Design	Actual
Motor MFG	-	GREENHECK
Motor Rpm	700	950
Phase	1	1
Voltage (rated)	120	115
Amperage (rated)	-	1.15

Completed By: Jordan Best on 05/20/2025

National TAB

Project: Dorothy Lane Market (Mason, OH)
System/Unit: FAN - Exhaust



Asset: EF-2

AREA:EMP RR

Unit Data		
	Design	Actual
MFG	NA	GREENHECK
Model Num	NA	SP-B110-QD
Serial Num	-	18079480-0025

Test Data		
	Design	Actual
CFM	75	82

Motor Data		
	Design	Actual
Motor MFG	-	GREENHECK
Motor Rpm	700	950
Phase	1	1
Voltage (rated)	120	115
Amperage (rated)	-	1.15

Completed By: Jordan Best on 05/20/2025

National TAB

Project: Dorothy Lane Market (Mason, OH)
System/Unit: FAN - Exhaust



Asset: EF-3

AREA:MENS RR

Unit Data		
	Design	Actual
MFG	NA	GREENHECK
Model Num	NA	CSP-A39-VG
Serial Num	-	26647164

Test Data		
	Design	Actual
CFM	150	157

Motor Data		
	Design	Actual
Motor MFG	-	GREENHECK
Phase	1	1
Voltage (rated)	277	277

Completed By: Jordan Best on 05/20/2025

National TAB

Project: Dorothy Lane Market (Mason, OH)

FAN - Exhaust



Diffuser Ret/Exh (GRD)

EF-3/MENS RR

Asset									
Asset Name	Location	Type	Size	DESIGN CFM	AK	CFM(1)	CFM(2)	FINAL CFM	% to design
EF-3-EGRD1	MENS RR	EG-1	6"	75	1	76	76	76	101.3
EF-3-EGRD2	MENS RR	EG-1	6"	75	1	81	81	81	108.0
Total				150		157	157	157	104.67%

Completed By: Jordan Best on 05/20/2025

National TAB

Project: Dorothy Lane Market (Mason, OH)
System/Unit: FAN - Exhaust



Asset: EF-4

AREA:WOMENS RR

Unit Data		
	Design	Actual
MFG	NA	GREENHECK
Model Num	NA	SP-390-VG-QD
Serial Num	-	25238172

Test Data		
	Design	Actual
CFM	225	217

Motor Data		
	Design	Actual
Voltage (rated)	277	115

Completed By: Aaron Cosby on 05/16/2025

National TAB

Project: Dorothy Lane Market (Mason, OH)
System/Unit: FAN - Exhaust



Asset: EF-5

AREA:MENS RR

Unit Data		
	Design	Actual
MFG	NA	GREENHECK
Model Num	NA	SP-A390-VG-QD
Serial Num	-	25238173

Test Data		
	Design	Actual
CFM	300	323

Motor Data		
	Design	Actual
Motor MFG	-	GREENHECK
Phase	1	1
Voltage (rated)	277	115

Completed By: Jordan Best on 05/15/2025

National TAB

Project: Dorothy Lane Market (Mason, OH)
System/Unit: FAN - Exhaust



Asset: EF-6

AREA:WOMENS RR

Unit Data		
	Design	Actual
MFG	NA	GREENHECK
Model Num	NA	SP-A390-VG-QD
Serial Num	-	25238167

Test Data		
	Design	Actual
CFM	225	238

Motor Data		
	Design	Actual
Motor MFG	-	GREENHECK
Phase	1	1
Voltage (rated)	277	115

Completed By: Jordan Best on 05/20/2025

National TAB

Project: Dorothy Lane Market (Mason, OH)
System/Unit: FAN - Exhaust



Asset: EF-7

AREA: MENS LOCKER RM

Unit Data		
	Design	Actual
MFG	NA	GREENHECK
Model Num	NA	SP-B110-QD
Serial Num	-	180709480-0067

Test Data		
	Design	Actual
CFM	75	81

Motor Data		
	Design	Actual
Motor MFG	-	GREENHECK
Motor Rpm	700	950
Phase	1	1
Voltage (rated)	120	115
Amperage (rated)	-	1.15

Completed By: Jordan Best on 05/15/2025

National TAB

Project: Dorothy Lane Market (Mason, OH)
System/Unit: FAN - Exhaust



Asset: EF-8

AREA: WOMENS LOCKER

Unit Data		
	Design	Actual
MFG	NA	GREENHECK
Model Num	NA	SP-B110-QD
Serial Num	-	180709480-0055

Test Data		
	Design	Actual
CFM	75	81

Motor Data		
	Design	Actual
Motor MFG	-	GREENHECK
Motor Rpm	700	950
Voltage (rated)	120	115
Amperage (rated)	-	1.1

Completed By: Jordan Best on 05/20/2025

National TAB

Project: Dorothy Lane Market (Mason, OH)
System/Unit: FAN - Exhaust



Asset: EF-9

AREA:WOMEN

Unit Data		
	Design	Actual
MFG	NA	GREENHECK
Model Num	NA	SP-B-110-QD
Serial Num	-	180709480-0031

Test Data		
	Design	Actual
CFM	75	83

Motor Data		
	Design	Actual
Motor MFG	-	GREENHECK
Motor Rpm	700	950
Phase	1	1
Voltage (rated)	120	115
Amperage (rated)	-	1.15

Completed By: Jordan Best on 05/15/2025

National TAB

Project: Dorothy Lane Market (Mason, OH)
System/Unit: FAN - Exhaust



Asset: EF-10

AREA: MEN

Unit Data		
	Design	Actual
MFG	NA	GREENHECK
Model Num	NA	SP-B110-QD
Serial Num	-	180709480-0064

Test Data		
	Design	Actual
CFM	75	102

Motor Data		
	Design	Actual
Motor MFG	-	GREENHECK
Motor Rpm	700	950
Voltage (rated)	120	115
Amperage (rated)	-	1.15

Completed By: Jordan Best on 05/15/2025

Notes:

. Fan above design, not equipped with speed controller.

Written By: Jordan Best on 05/15/2025

National TAB

Project: Dorothy Lane Market (Mason, OH)
System/Unit: FAN - Exhaust



Asset: EF-11

AREA:HOOD 1

Unit Data		
	Design	Actual
MFG	NA	ACCUREX
Model Num	NA	XUEF-24-3-B7-00-02-02
Serial Num	-	24411008
Type	KEF	KEF

Test Data		
	Design	Actual
CFM	7950	7660
RL Voltage	-	483.2/489.4/478.2
RL Amperage	-	7.78 VFD
Suction ESP	-	-3.29"
Discharge ESP	-	ATM
Total ESP	2.25	3.29"
Brake Horse Power	-	5.9

Motor Data		
	Design	Actual
Motor MFG	-	BALDOR
Frame	-	213T
Horsepower	7.5	7.5
Motor Rpm	1169	1770
Phase	3	3
Voltage (rated)	460	460
Amperage (rated)	-	9.8
Service Factor	-	1.15

Drive Data	
	Actual
Motor Sheave Size	2AK56
Motor Bore Size	1.25"
Motor Sheave SetPt	FIXED PULLEY
Fan Sheave Size	8.25"
Fan Sheave Bore	1"
Belt CL Distance	23.25"
Num of Belts	2
Belt Size	A66

Completed By: Corey Dick on 05/28/2025

Notes:
Fan Bore Bushings: 2.5"
Fan Speed 70 HZ

Written By: Jordan Best on 05/19/2025

National TAB

Project: Dorothy Lane Market (Mason, OH)
System/Unit: FAN - Exhaust



Asset: EF-12

AREA:HOOD 2

Unit Data		
	Design	Actual
MFG	NA	ACCUREX
Model Num	NA	XUEF-22-5-B6-00-02-02
Serial Num	-	24411009
Type	KEF	KEF

Motor Data		
	Design	Actual
Motor MFG	-	BALDOR
Frame	-	184T
Horsepower	5.0	5
Motor Rpm	1326	1750
Phase	3	3
Voltage (rated)	460	460
Amperage (rated)	-	6.6
Service Factor	-	1.15

Test Data		
	Design	Actual
CFM	6600	6048
Fan RPM	1326	1458
RL Voltage	-	483.2/490.3/487.3
RL Amperage	-	6.58 VFD
Suction ESP	-	-3.35"
Discharge ESP	-	ATM
Total ESP	2.25	-3.35"
Brake Horse Power	-	4.9

Completed By: Corey Dick on 05/28/2025

Notes:
Fan Speed 50 HZ

Written By: Jordan Best on 05/19/2025

National TAB

Project: Dorothy Lane Market (Mason, OH)
System/Unit: FAN - Exhaust



Asset: EF-13

AREA:HOOD 3

Unit Data		
	Design	Actual
MFG	NA	INTERTEK
Model Num	NA	GSV25045-21
Serial Num	-	NA
Type	KEF	KEF

Test Data		
	Design	Actual
CFM	1300	720
RL Voltage	-	118.9
RL Amperage	-	1.95
Discharge ESP	-	ATM

Motor Data		
	Design	Actual
Motor MFG	-	EXODRAFT
Horsepower	1.0	0.33
Motor Rpm	1933	1600
Phase	3	1
Voltage (rated)	460	120
Amperage (rated)	-	2.9

Completed By: Corey Dick on 05/28/2025

Notes:
Fan below design at highest speed

Written By: Corey Dick on 05/28/2025

National TAB

Project: Dorothy Lane Market (Mason, OH)
System/Unit: FAN - Exhaust



Asset: EF-14

AREA:HOOD 4

Unit Data		
	Design	Actual
MFG	NA	ACCUREX
Model Num	NA	XUEF-12-3-B7-00-02-02
Serial Num	-	24410520
Type	KEF	KEF

Test Data		
	Design	Actual
CFM	900	918
RL Voltage	-	483.8/490.7/489.7
RL Amperage	-	0.75/0.76/0.72
Suction ESP	-	-1.6"
Discharge ESP	-	ATM
Total ESP	1.0	1.6"
Brake Horse Power	-	0.43

Motor Data		
	Design	Actual
Motor MFG	-	WEG
Frame	-	56
Horsepower	0.5	0.5
Motor Rpm	1724	1765
Phase	3	3
Voltage (rated)	460	460
Amperage (rated)	-	0.861
Service Factor	-	1.25

Completed By: Jordan Best on 08/04/2025

Notes:
Fan speed 10 VDC

Written By: Jordan Best on 08/04/2025

National TAB

Project: Dorothy Lane Market (Mason, OH)
System/Unit: FAN - Exhaust



Asset: EF-15

AREA:HOOD 5

Unit Data		
	Design	Actual
MFG	NA	ACCUREX
Model Num	NA	XUEF-13-3-B7-00-02-02
Serial Num	-	24411011
Type	KEF	KEF

Test Data		
	Design	Actual
CFM	1350	1270
RL Voltage	-	482.2/490.9/486.3
RL Amperage	-	0.94 VFD
Suction ESP	-	-1.2"
Discharge ESP	-	ATM
Total ESP	1.15	1.2"
Brake Horse Power	-	1.14

Motor Data		
	Design	Actual
Motor MFG	-	WEG
Frame	-	56
Horsepower	0.39	0.75
Motor Rpm	1535	1760
Phase	3	3
Voltage (rated)	460	460
Amperage (rated)	-	1.44
Service Factor	-	1.25

Completed By: Corey Dick on 05/28/2025

Notes:
Fan Speed 53 HZ

Written By: Corey Dick on 05/28/2025

National TAB

Project: Dorothy Lane Market (Mason, OH)
System/Unit: FAN - Exhaust



Asset: EF-16

AREA:HOOD 6

Unit Data		
	Design	Actual
MFG	NA	ACCUREX
Model Num	NA	XCUE-099-4-VG-1-22-G
Serial Num	-	24371012
Type	KEF	KEF

Test Data		
	Design	Actual
CFM	525	564
RL Voltage	-	120.1
RL Amperage	-	0.6
Discharge ESP	-	ATM
Total ESP	0.25	0.19"

Motor Data		
	Design	Actual
Motor MFG	-	VARI-GREEN
Horsepower	0.25	0.25
Motor Rpm	1616	1750
Phase	1	1
Voltage (rated)	120	120
Amperage (rated)	-	2.85
Service Factor	-	1.25

Completed By: Corey Dick on 05/28/2025

Notes:
Fan Speed 6 VDC

Written By: Jordan Best on 05/19/2025

National TAB

Project: Dorothy Lane Market (Mason, OH)
System/Unit: FAN - Exhaust



Asset: EF-17

AREA:HOOD 7

Unit Data		
	Design	Actual
MFG	NA	ACCUREX
Model Num	NA	XCUE-160-20- VG-1-26-G
Serial Num	-	24425565
Type	KEF	KEF

Test Data		
	Design	Actual
CFM	3250	2934
RL Voltage	-	118.6
RL Amperage	-	4.4
Discharge ESP	-	ATM
Total ESP	1.25	0.9"

Motor Data		
	Design	Actual
Motor MFG	-	BALDOR
Frame	-	145T
Horsepower	2.0	2
Motor Rpm	1510	1800
Phase	1	1
Voltage (rated)	208	230
Amperage (rated)	-	4.4
Service Factor	-	1

Completed By: Corey Dick on 05/28/2025

Notes:
Fan Speed 7.5 VDC

Written By: Jordan Best on 05/19/2025

National TAB

Project: Dorothy Lane Market (Mason, OH)
System/Unit: FAN - Exhaust



Asset: EF-18

AREA:HOOD 8

Unit Data		
	Design	Actual
MFG	NA	ACCUREX
Model Num	NA	XCUE-100-4-VG-1-22-G
Serial Num	-	24371013
Type	KEF	KEF

Test Data		
	Design	Actual
CFM	900	976
RL Voltage	-	119.1
RL Amperage	-	0.83 VFD
Discharge ESP	-	ATM
Total ESP	1.0	0.59"

Motor Data		
	Design	Actual
Motor MFG	-	GREENHECK
Horsepower	0.25	0.25
Motor Rpm	1694	1750
Phase	1	1
Voltage (rated)	120	115
Amperage (rated)	-	3.5

Completed By: Aaron Cosby on 08/11/2025

Notes:
40 HZ VFD

Written By: Aaron Cosby on 08/11/2025

National TAB

Project: Dorothy Lane Market (Mason, OH)
System/Unit: FAN - Exhaust



Asset: EF-19

AREA:HOOD 9

Unit Data		
	Design	Actual
MFG	NA	ACCUREX
Model Num	NA	XUEF-13-3-B7-00-02-02
Serial Num	-	24411010
Type	KEF	KEF

Test Data		
	Design	Actual
CFM	1350	1296
RL Voltage	-	488.3/487.1/490.4
RL Amperage	-	0.86 VFD
Suction ESP	-	-1.9"
Discharge ESP	-	ATM
Total ESP	1.15	1.9"
Brake Horse Power	-	0.5

Motor Data		
	Design	Actual
Motor MFG	-	WEG
Frame	-	56
Horsepower	0.5	0.5
Motor Rpm	1535	1765
Phase	3	3
Voltage (rated)	460	460
Amperage (rated)	-	0.861
Service Factor	-	1.25

Completed By: Corey Dick on 05/28/2025

Notes:
Fan Speed 60 HZ

Written By: Jordan Best on 05/19/2025

National TAB

Project: Dorothy Lane Market (Mason, OH)
System/Unit: FAN - Exhaust



Asset: EF-20

AREA:HOOD 10

Unit Data		
	Design	Actual
MFG	NA	ACCUREX
Model Num	NA	XCUE-100-4-VG-1-22-G
Serial Num	-	24371014
Type	KEF	KEF

Test Data		
	Design	Actual
CFM	900	881
RL Voltage	-	121.4
RL Amperage	-	2.72
Discharge ESP	-	ATM
Total ESP	0.25	0.65"

Motor Data		
	Design	Actual
Motor MFG	-	GREENHECK
Horsepower	0.25	0.25
Motor Rpm	1694	1750
Phase	1	1
Voltage (rated)	120	115
Amperage (rated)	-	3.5

Completed By: Corey Dick on 05/28/2025

Notes:
Fan Speed 7 VDC

Written By: Jordan Best on 05/20/2025

National TAB

Project: Dorothy Lane Market (Mason, OH)
System/Unit: FAN - Exhaust



Asset: EF-21

AREA:HOOD 11

Unit Data		
	Design	Actual
MFG	NA	ACCUREX
Model Num	NA	XCUE-140-10-VG-1-26-G
Serial Num	-	24371015
Type	KEF	KEF

Test Data		
	Design	Actual
CFM	2000	2034
RL Voltage	-	122.6
RL Amperage	-	4.14
Discharge ESP	-	ATM
Total ESP	1.0	0.55"

Motor Data		
	Design	Actual
Motor MFG	-	VARIGREEN
Horsepower	1.0	1.0
Motor Rpm	1514	1750
Phase	1	1
Voltage (rated)	120	115
Amperage (rated)	-	11.5

Completed By: Corey Dick on 05/28/2025

Notes:
Fan Speed 7 VDC

Written By: Jordan Best on 05/20/2025

National TAB

Project: Dorothy Lane Market (Mason, OH)
System/Unit: FAN - Exhaust



Asset: EF-23

AREA: LOVE CAKES

Unit Data		
	Design	Actual
MFG	NA	GREENHECK
Model Num	NA	SP-A390-VG-QD
Serial Num	-	25238166

Test Data		
	Design	Actual
CFM	225	246

Motor Data		
	Design	Actual
Motor MFG	-	VARIGREEN
Horsepower	47W	0.1
Motor Rpm	935	1750
Phase	1	1
Voltage (rated)	277	1.0

Completed By: Jordan Best on 05/20/2025

National TAB

Project: Dorothy Lane Market (Mason, OH)

System/Unit: Kitchen Hood Type I



Asset: KH-3

AREA:PIZZA PREP

Unit Data		
	Design	Actual
MFG	ACCUREX	WOODSTONE
Model Num	XXEW-96-S	SG-BDL-O-WS-47-OF-PPA
Job / Serial Num	-	GT-0125-25003301
Type	TYPE 1 CANOPY	TYPE I CANOPY
Hood length	96	20.5"
Hood Width	42	47"

Test Data Exhaust		
	Design	Actual
Filter Type	X-TRACTOR	NA
Filter Size 1	16X20"	12"X20"
Filter Qty 1	6	2
Filter AK factor size 1	2.00	1.2
Filter Total AK Area	12	2.4
Filter1 FPM	-	299
Filter2 FPM	-	301
Filter Ave FPM(corr)	-	300
CFM	1400	720

Cooking Equipment	
	Actual
Item 1	PIZZA OVEN

Completed By: Jordan Best on 05/20/2025

Notes:

- . Unable to measure full length of hood as the rest is behind drywall
- . Fan below design at highest speed

Written By: Jordan Best on 05/20/2025

National TAB

Project: Dorothy Lane Market (Mason, OH)

System/Unit: Kitchen Hood Type I



Asset: KH-4

AREA:PIZZA PREP

Unit Data		
	Design	Actual
MFG	ACCUREX	ACCUREX
Model Num	XXEW-48-S	XXEW-48.00-5
Job / Serial Num	-	24403833
Type	-	TYPE I CANOPY
Hood length	-	48"
Hood Width	-	48"
Supply Plenum Type	-	ASP
Supply Plenum Width	-	18"
Supply Plenum Length	-	60"

Test Data Exhaust		
	Design	Actual
Filter Type	X-TRACTOR	X-TRACTOR
Filter Size 1	16X20	16"X20"
Filter Qty 1	-	3
Filter AK factor size 1	-	2
Filter Total AK Area	-	6
Filter1 FPM	-	158
Filter2 FPM	-	151
Filter3 FPM	-	152
Filter Ave FPM(corr)	-	153
CFM	900	918

Cooking Equipment	
	Actual
Item 1	OVEN / STOVE

Test Data Supply		
	Design	Actual
Total Area	-	
Kv factor (Vel)	-	
Num of Readings	-	
Reading1 FPM	-	
Reading2 FPM	-	
Reading3 FPM	-	
Reading4 FPM	-	
Reading5 FPM	-	
Reading6 FPM	-	
Reading7 FPM	-	
Reading8 FPM	-	
Reading9 FPM	-	
Reading10 FPM	-	
Reading11 FPM	-	
Reading12 FPM	-	
Reading13 FPM	-	
Reading14 FPM	-	
Ave FPM(corr)	-	
CFM	-	

Completed By: Jordan Best on 08/04/2025

Notes:
MUA measured via traverse

Written By: Jordan Best on 08/04/2025

National TAB

Project: Dorothy Lane Market (Mason, OH)

System/Unit: Kitchen Hood Type I



Asset: KH-5

AREA:DELI

Unit Data		
	Design	Actual
MFG	ACCUREX	ACCUREX
Model Num	XXEW-72-S	XXEW-72.00-S
Job / Serial Num	-	24403846
Type	TYPE 1 CANOPY	TYPE I CANOPY
Hood length	72"	72"
Hood Width	60"	60"

Test Data Exhaust		
	Design	Actual
Filter Type	X-TRACTOR	X-TRACTOR
Filter Size 1	20X16	20"X16"
Filter Size 2	20X20	20"X20"
Filter Qty 1	2	2
Filter Qty 2	2	2
Filter AK factor size 1	2.00	2
Filters AK factor size 2	3.00	3
Filter Total AK Area	10.52	4 / 6
Filter1 FPM	-	132
Filter2 FPM	-	140
Filter3 FPM	-	126
Filter4 FPM	-	116
Filter Ave FPM(corr)	-	121
CFM	1350	1270

Cooking Equipment	
	Actual
Item 1	ROTISSERIE

Completed By: Jordan Best on 05/19/2025

Notes:
Fan Speed 53 HZ

Written By: Jordan Best on 05/19/2025

National TAB

Project: Dorothy Lane Market (Mason, OH)

System/Unit: Kitchen Hood Type I



Asset: KH-6

AREA:CORRIDOR

Unit Data		
	Design	Actual
MFG	NA	ACCUREX
Model Num	NA	XXEW-42.00-S
Job / Serial Num	-	24403851
Type	TYPE 1 CANOPY	TYPE I CANOPY
Hood length	42"	42"
Hood Width	48"	48"

Test Data Exhaust		
	Design	Actual
Filter Type	X-TRACTOR	X-TRACTOR
Filter Size 1	20X20	20"X20"
Filter Qty 1	2	2
Filter AK factor size 1	3.00	2
Filter Total AK Area	6	6
Filter1 FPM	-	92
Filter2 FPM	-	96
Filter Ave FPM(corr)	-	94
CFM	525	564

Completed By: Jordan Best on 05/19/2025

National TAB

Project: Dorothy Lane Market (Mason, OH)

System/Unit: Kitchen Hood Type I



Asset: KH-7

AREA:

Unit Data		
	Design	Actual
MFG	ACCUREX	ACCUREX
Model Num	XXEW-120-S	XXEW-120.00-S
Job / Serial Num	-	24403852
Type	TYPE 1 CANOPY	TYPE I CANOPY
Hood length	120"	120"
Hood Width	54"	54"
Supply Plenum Type	-	ASP
Supply Plenum Width	18"	18"
Supply Plenum Length	120"	120"

Test Data Supply		
	Design	Actual
Ave FPM(corr)	-	1494
CFM	3020	2989

Test Data Exhaust		
	Design	Actual
Filter Type	X-TRACTOR	X-TRACTOR
Filter Size 1	20X20"	20X20"
Filter Qty 1	6	6
Filter AK factor size 1	3.00	3
Filter Total AK Area	18	18
Filter1 FPM	-	156
Filter2 FPM	-	155
Filter3 FPM	-	174
Filter4 FPM	-	179
Filter5 FPM	-	155
Filter6 FPM	-	164
Filter Ave FPM(corr)	-	163
CFM	3250	2934

Cooking Equipment	
	Actual
Item 1	GRILL

Completed By: Jordan Best on 05/20/2025

Notes:

. MUA balanced via traverse for more accurate measurement.

Written By: Jordan Best on 05/20/2025

National TAB

Project: Dorothy Lane Market (Mason, OH)

System/Unit: Kitchen Hood Type I



Asset: KH-8

AREA:AUTO WRAP

Unit Data		
	Design	Actual
MFG	NA	ACCUREX
Model Num	NA	XXEW-48.00-S
Job / Serial Num	-	24403859
Type	TYPE 1 CANOPY	TYPE I CANOPY
Hood length	48"	48"
Hood Width	48"	48"

Test Data Exhaust		
	Design	Actual
Filter Type	X-TRACTOR	X-TRACTOR
Filter Size 1	20X16"	20X16"
Filter Qty 1	3	3
Filter AK factor size 1	2.26	2.26
Filter Total AK Area	6.78	6.78
Filter1 FPM	-	151
Filter2 FPM	-	143
Filter3 FPM	-	138
Filter Ave FPM(corr)	-	144
CFM	900	976

Cooking Equipment	
	Actual
Item 1	CHICKEN ROLLER

Completed By: Aaron Cosby on 08/11/2025

National TAB

Project: Dorothy Lane Market (Mason, OH)

System/Unit: Kitchen Hood Type I



Asset: KH-9

AREA:CHILL ALCOVE

Unit Data		
	Design	Actual
MFG	ACCUREX	ACCUREX
Model Num	XXEW-60-S	XXEW-60.00-5
Job / Serial Num	-	24403644
Type	TYPE 1 CANOPY	TYPE I CANOPY
Hood length	60"	60"
Hood Width	60"	60"

Test Data Exhaust		
	Design	Actual
Filter Type	X-TRACTOR	X-TRACTOR
Filter Size 1	20X20"	20X20"
Filter Qty 1	3	3
Filter AK factor size 1	3.00	9
Filter Total AK Area	9	9
Filter1 FPM	-	148
Filter2 FPM	-	140
Filter3 FPM	-	146
Filter Ave FPM(corr)	-	144
CFM	1350	1296

Cooking Equipment	
	Actual
Item 1	BBQ SMOKER

Completed By: Jordan Best on 05/19/2025

National TAB

Project: Dorothy Lane Market (Mason, OH)

System/Unit: Kitchen Hood Type I



Asset: KH-10

AREA:COOKING SCHOOL

Unit Data

	Design	Actual
MFG	ACCUREX	ACCUREX
Model Num	XXEV-60-S	XXEW-48.00-S
Job / Serial Num	-	24403861
Type	TYPE 1 CANOPY	TYPE I CANOPY
Hood length	48	48"
Hood Width	54	54"

Test Data Exhaust

	Design	Actual
Filter Type	X-TRACTOR	X-TRACTOR
Filter Size 1	20X16	20"X16"
Filter Qty 1	3	3
Filter AK factor size 1	2.26	2.26
Filter Total AK Area	6.78	6.78
Filter1 FPM	-	140
Filter2 FPM	-	117
Filter3 FPM	-	134
Filter Ave FPM(corr)	-	130
CFM	900	881

Completed By: Jordan Best on 05/20/2025

National TAB

Project: Dorothy Lane Market (Mason, OH)

System/Unit: Kitchen Hood Type I



Asset: KH-11

AREA:

Unit Data		
	Design	Actual
MFG	ACCUREX	ACCUREX
Model Num	XXEV-60-S	XXEV-60.00-S
Job / Serial Num	-	24403866
Type	TYPE 1 ISLAND	TYPE I CANOPY
Hood length	60"	60"
Hood Width	60"	60"
Supply Plenum Type	-	ASP
Supply Plenum Width	60"	60"
Supply Plenum Length	14"	14"

Test Data Supply		
	Design	Actual
Ave FPM(corr)	-	1095
CFM	2320	2190

Test Data Exhaust		
	Design	Actual
Filter Type	X-TRACTOR	X-TRACTOR
Filter Size 1	20X20	20X20"
Filter Qty 1	6	6
Filter AK factor size 1	3.00	3
Filter Total AK Area	18	18
Filter1 FPM	-	110
Filter2 FPM	-	111
Filter3 FPM	-	111
Filter4 FPM	-	113
Filter5 FPM	-	112
Filter6 FPM	-	126
Filter Ave FPM(corr)	-	113
CFM	2000	2034

Completed By: Jordan Best on 05/20/2025

Notes:

- . Supply plenums on each side of hood.
- . MUA balanced via traverse for more accurate measurement.

Written By: Jordan Best on 05/20/2025

National TAB

Project: Dorothy Lane Market (Mason, OH)

System/Unit: Kitchen Hood Type I



Asset: KH-1-1

AREA:DELI

Unit Data		
	Design	Actual
MFG	ACCUREX	ACCUREX
Model Num	XWAE-X-112-S	XXEW-48.00-5
Job / Serial Num	-	24403837
Type	TYPE 1 CANOPY	TYPE I CANOPY
Hood length	112"	112"
Hood Width	72"	72"

Test Data Exhaust		
	Design	Actual
Filter Type	X-TRACTOR	X-TRACTOR
Filter Size 1	16X20"	16"X20"
Filter Size 2	-	20"X20"
Filter Qty 1	5	2
Filter Qty 2	-	4
Filter AK factor size 1	2.00	2
Filters AK factor size 2	-	3
Filter Total AK Area	10	4 / 12
Filter1 FPM	-	186
Filter2 FPM	-	176
Filter3 FPM	-	161
Filter4 FPM	-	167
Filter5 FPM	-	157
Filter6 FPM	-	156
Filter Ave FPM(corr)	-	167
CFM	2650	2644

Cooking Equipment	
	Actual
Item 1	STEAM KETTLE

Completed By: Jordan Best on 05/19/2025

National TAB

Project: Dorothy Lane Market (Mason, OH)

System/Unit: Kitchen Hood Type I



Asset: KH-1-2

AREA:DELI

Unit Data		
	Design	Actual
MFG	ACCUREX	ACCUREX
Model Num	XWAE-X-112-S	XXEW-112.00-5
Job / Serial Num	-	24403837
Type	TYPE 1 CANOPY	TYPE I CANOPY
Hood length	112"	112"
Hood Width	72"	72"

Test Data Exhaust		
	Design	Actual
Filter Type	X-TRACTOR	X-TRACTOR
Filter Size 1	16X20"	16"X20"
Filter Size 2	-	20"x20"
Filter Qty 1	5	2
Filter Qty 2	-	4
Filter AK factor size 1	2.00	2
Filters AK factor size 2	-	3
Filter Total AK Area	10	4 / 12
Filter1 FPM	-	168
Filter2 FPM	-	175
Filter3 FPM	-	144
Filter4 FPM	-	158
Filter5 FPM	-	171
Filter6 FPM	-	156
Filter Ave FPM(corr)	-	162
CFM	2650	2568

Cooking Equipment	
	Actual
Item 1	FRYER

Completed By: Jordan Best on 05/19/2025

National TAB

Project: Dorothy Lane Market (Mason, OH)

System/Unit: Kitchen Hood Type I



Asset: KH-1-3

AREA:DELI

Unit Data		
	Design	Actual
MFG	ACCUREX	ACCUREX
Model Num	XWAE-X-112-S	XXEW-112.00-5
Job / Serial Num	-	24403835
Type	TYPE 1 CANOPY	TYPE I CANOPY
Hood length	112"	112"
Hood Width	72"	72"

Test Data Exhaust		
	Design	Actual
Filter Type	X-TRACTOR	X-TRACTOR
Filter Size 1	16X20	16"X20"
Filter Size 2	-	20"X20"
Filter Qty 1	5	2
Filter Qty 2	-	4
Filter AK factor size 1	2.0	2
Filters AK factor size 2	-	3
Filter Total AK Area	10	4 / 12
Filter1 FPM	-	158
Filter2 FPM	-	154
Filter3 FPM	-	141
Filter4 FPM	-	152
Filter5 FPM	-	160
Filter6 FPM	-	156
Filter Ave FPM(corr)	-	153
CFM	2650	2448

Cooking Equipment	
	Actual
Item 1	STOVE

Completed By: Jordan Best on 05/19/2025

National TAB

Project: Dorothy Lane Market (Mason, OH)

System/Unit: Kitchen Hood Type I



Asset: KH-2-1

AREA:CHILL ALCOVE

Unit Data		
	Design	Actual
MFG	ACCUREX	ACCUREX
Model Num	XWAE-X-130-S	XXEW-130.00-5
Job / Serial Num	-	24403841
Type	TYPE 1 CANOPY	TYPE I CANOPY
Hood length	130	130"
Hood Width	72	72"

Test Data Exhaust		
	Design	Actual
Filter Type	X-TRACTOR	X-TRACTOR
Filter Size 1	16X20	16"X20"
Filter Qty 1	6	8
Filter Total AK Area	12	16
Filter1 FPM	-	176
Filter2 FPM	-	181
Filter3 FPM	-	190
Filter4 FPM	-	195
Filter5 FPM	-	193
Filter6 FPM	-	193
Filter7 FPM	-	180
Filter8 FPM	-	185
Filter Ave FPM(corr)	-	186
CFM	3300	2976

Cooking Equipment	
	Actual
Item 1	OVEN

Completed By: Jordan Best on 05/19/2025

National TAB

Project: Dorothy Lane Market (Mason, OH)

System/Unit: Kitchen Hood Type I



Asset: KH-2-2

AREA:CHILL ALCOVE

Unit Data		
	Design	Actual
MFG	ACCUREX	ACCUREX
Model Num	XWAE-X-130-S	XXEW-130.00-5
Job / Serial Num	-	24403841
Type	TYPE 1 CANOPY	TYPE I CANOPY
Hood length	130"	130"
Hood Width	72"	72"

Test Data Exhaust		
	Design	Actual
Filter Type	X-TRACTOR	X-TRACTOR
Filter Size 1	16X20	16X20"
Filter Qty 1	6	6
Filter AK factor size 1	2.00	2
Filter Total AK Area	12	16
Filter1 FPM	-	177
Filter2 FPM	-	171
Filter3 FPM	-	205
Filter4 FPM	-	224
Filter5 FPM	-	212
Filter6 FPM	-	192
Filter7 FPM	-	183
Filter8 FPM	-	176
Filter Ave FPM(corr)	-	192
CFM	3300	3072

Cooking Equipment	
	Actual
Item 1	GRILL
Item 2	FRYER

Completed By: Jordan Best on 05/19/2025