

Report By:

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1329 E. KEMPER ROAD
SUITE 4210
CINCINNATI, OH 45246



Report: TAB REPORT
Function: Test, Adjust, & Balance
Date: 03/16/2026
Completed By: National TAB

PROJECT
IMO's Pizza (Kansas City, MO)

8526 N. Jefferson Street

Kansas City, MO 64155

Client

Watson Mechanical
15311 West 109 St
Lenexa, KS 66219

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Project: IMO's Pizza (Kansas City, MO)

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AIR BALANCE SCHEDULE

UNIT	AREA SERVED	HVAC SUPPLY		HVAC RETURN		HVAC OUTDOOR		OA %		HOOD MAKE-UP		HOOD EXHAUST		GENERAL EXH.	
		DESIGN	ACTUAL	DESIGN	ACTUAL	DESIGN	ACTUAL	DESIGN	ACTUAL	DESIGN	ACTUAL	DESIGN	ACTUAL	DESIGN	ACTUAL
RTU-1		3500	3563	2850	2895	650	668	18.6%	18.7%						
MUA-1										1400	1410				
KEF-1												1125	1116		
KEF-2												670	649		
EF-3												75	147		
TOTALS		3500	3563	2850	2895	650	668			1400	1410	1870	1912	0	0

NET BUILDING AIRFLOW CALCULATION

TOTALS	DESIGN	ACTUAL
TOTAL OA	2050	2078
TOTAL EXHAUST	1870	1912
NET AIRFLOW	180	166

DOOR TESTED	BUILDING PRESSURE MEASUREMENTS (IN. H2O)
FRONT	-0.01
SIDE	N/A
REAR	-0.03
AVERAGE	-0.02

FINAL CHECKS

- ACTUAL NET AIRFLOW COINCIDES WITH DESIGN: ✓

- MEASURED PRESSURES COINCIDES WITH ACTUAL NET AIRFLOW: ✗

- PRESSURE FALLS WITHIN IMC TOLERANCE OF +/-0.02" W.C. ✓

NOTES:

EF-3: No speed controller. Verified wired to low speed. Could not achieve design airflow. Neighboring restaurant has very negative building pressure causing the pressure of this store to be negative. There was very strong winds at the time of testing that may have affected the accuracy of the pressure measurements.

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Project: IMO's Pizza (Kansas City, MO)

System/Unit: AHU/RTU



Asset: RTU1

AREA: KITCHEN

Unit Data		
	Design	Actual
MFG	NA	LENNOX
Serial Num	-	5225C02346
Model Num	NA	LGX120S5MM1Y
Type	-	RTU
Configuration	-	VERTICAL
Num OA Filters 1	-	2
OA Filter Size 1	-	14X23"
Num Final Filter 1	-	4
Final Filter Size 1	-	20X25X2"

Motor Data		
	Design	Actual
Motor MFG	-	INTERLINK
Frame	-	56HZ
Horsepower	-	3.0
Motor Rpm	-	1750
Phase	-	3
Rated Voltage	-	200-230
Rated Amperage	-	8.0-7.8

Drive Data	
	Actual
Motor Sheave Size	5.25"
Motor Bore Size	0.875"
Motor Sheave SetPt	5 TURNS OUT
Fan Sheave Size	7.25"
Fan Sheave Bore	1"
Belt CL Distance	21.625"
Num of Belts	1
Belt Size	AX58
Belt Alignment	CORRECT

Test Data		
	Design	Actual
SF CFM	3500	3512
SF RPM	-	751
RA CFM	2850	2844
OA CFM	650	668
RL Voltage	-	212/210/209
RL Amperage	-	5.91/5.97/6.09
SF Rotation	-	CCW
SF System SetPt	-	5 TURNS OUT
RA Damper Position	-	4.25" OPEN
Min OA Damper Position	-	0.25" (28%)
Min OA Damper Type	-	ECON
OA Enthalpy Setpt	-	N/A

Performance Data		
	Design	Actual
MA Plenum SP	-	-0.24"
Fan Suction SP	-	-0.43"
Fan Discharge SP	-	0.31"
Total ESP	0.60"	0.55"
Fan Total SP	-	0.74"

General	
	Actual
Fan Rotation Correct	YES
Unit Filters Clean	YES
Condensate Drain Installed	YES

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Project: IMO's Pizza (Kansas City, MO)

AHU/RTU



Diffuser Supply (GRD)

RTU1/KITCHEN

Asset									
Asset Name	Location	Type	Size	DESIGN CFM	AK	CFM(1)	CFM(2)	FINAL CFM	% to design
SGRD1	LOBBY	SA-5	12"	350	1.0	537	474	378	108.0
SGRD2	LOBBY	SA-5	12"	350	1.0	530	471	355	101.4
SGRD3	ORDERING	SA-5	12"	400	1.0	447	402	379	94.8
SGRD4	KITCHEN	SA-3	10"	325	1.0	344	283	300	92.3
SGRD5	KITCHEN	SA-3	10"	325	1.0	375	322	310	95.4
SGRD6	OFFICE	SA-2	8"	150	1.0	228	194	147	98.0
SGRD7	KITCHEN	SA-3	10"	325	1.0	311	269	323	99.4
SGRD8	KITCHEN	SA-4	10"	325	1.0	353	316	336	103.4
SGRD9	KITCHEN	SA-3	10"	325	1.0	348	308	338	104.0
SGRD10	KITCHEN	SA-4	10"	325	1.0	303	273	305	93.8
SGRD11	KITCHEN	SA-3	10"	250	1.0	330	315	341	136.4
SGRD12	RESTROOM	SA-1	6"	50	1.0	108	95	51	102.0
Total				3500		4214	3722	3563	101.8%

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Project: IMO's Pizza (Kansas City, MO)

System/Unit: FAN - Exhaust



Asset: EF1

AREA:FRYERS

Unit Data		
	Design	Actual
MFG	NA	ACCUREX
Model Num	NA	XCUE-120-5-VG-1-22-G
Serial Num	-	28646195 26A
Type	-	UPBLAST
Configuration	-	VERTICAL

Motor Data		
	Design	Actual
Motor MFG	-	BROAD OCEAN
Frame	-	NL
Horsepower	-	0.50
Motor Rpm	-	1750
Phase	-	1
Voltage (rated)	-	115/208-230/277
Amperage (rated)	-	6.4/3.8/3.2
Service Factor	-	NL

Test Data		
	Design	Actual
CFM	1125	1116
Fan RPM	1284	NA
Fan Rotation	-	CW
Motor RPM	-	NA
System SetPt	-	~7.0 VDC
RL Voltage	115	119
RL Amperage	6.4	3.16
Total ESP	1.0	0.70"
Fan Inlet SP	-	-0.70"
Fan Discharge SP	-	ATM

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Unit Data - PHOTO LOG



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Project: IMO's Pizza (Kansas City, MO)

System/Unit: FAN - Exhaust



Asset: EF2

AREA:PIZZA OVEN

Unit Data		
	Design	Actual
MFG	NA	ACCUREX
Model Num	NA	XCUE-120-5-VG-1-22-G
Serial Num	-	28646196 26A
Type	-	UPBLAST
Configuration	-	VERTICAL

Motor Data		
	Design	Actual
Motor MFG	-	BROAD OCEAN
Frame	-	NL
Horsepower	-	0.50
Motor Rpm	-	1750
Phase	-	1
Voltage (rated)	-	115/208-230/277
Amperage (rated)	-	6.4/3.8/3.2
Service Factor	-	NL

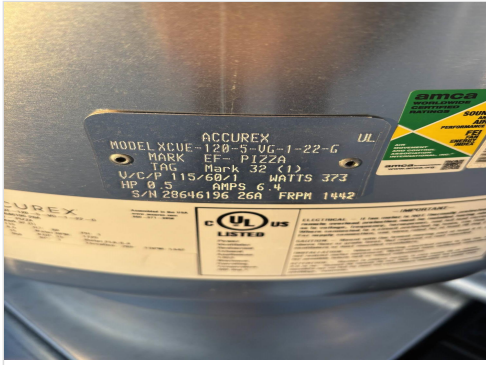
Test Data		
	Design	Actual
CFM	670	649
Fan RPM	860	NA
Fan Rotation	-	CW
Motor RPM	-	NA
System SetPt	-	~5.25 VDC
RL Voltage	120	123
RL Amperage	6.4	0.66
Total ESP	0.25	NA
Fan Inlet SP	-	NA
Fan Discharge SP	-	ATM

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Notes:
-COULD NOT ACCESS SP MEASUREMENT.

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Unit Data - PHOTO LOG



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Project: IMO's Pizza (Kansas City, MO)

System/Unit: FAN - Exhaust



Asset: EF3

AREA:RESTROOM

Unit Data	
	Actual
MFG	COOK
Model Num	GEMINI 140
Serial Num	NL

Test Data		
	Design	Actual
CFM	-	147
RL Voltage	-	122
RL Amperage	-	0.40

Motor Data		
	Design	Actual
Motor MFG	-	QUEACE
Horsepower	-	NL
Motor Rpm	-	1550
Phase	-	1
Voltage (rated)	-	115
Amperage (rated)	-	0.40/0.22

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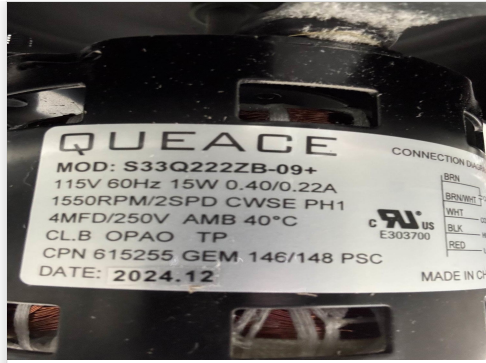
Notes:
-NO SPEED CONTROLLER. WIRED TO LOW SPEED

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Unit Data - PHOTO LOG



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Project: IMO's Pizza (Kansas City, MO)
System/Unit: FAN - Supply



Asset: MUA1

AREA:HOOD1

Unit Data		
	Design	Actual
MFG	NA	ACCUREX
Model Num	NA	XDGX-P115-H05-VG
Serial Num	-	28644211
Type	-	MUA
Configuration	-	VERTICAL

Motor Data		
	Design	Actual
Motor MFG	-	BROAD OCEAN
Frame	-	NL
Horsepower	-	1.0
Motor Rpm	-	1750
Phase	-	1
Voltage (rated)	-	115/208-230/277
Amperage (rated)	-	11.5/7.0/5.8
Service Factor	-	NL

Gas Heat		
	Design	Actual
Heater Operates (y/n)	-	YES
Flame Status (pass/fail)	-	PASS
Inlet Air Temp SetPt	-	60
Discharge Air Temp SetPt	-	70
Air Flow Switch SP Actual	-	0.52"

Test Data		
	Design	Actual
CFM	1400	1410
SF RPM	-	NA
Motor RPM	-	NA
SF System SetPt	-	71%
RL Voltage	-	209
RL Amperage	-	2.91/2.91
Total ESP	-	0.08"
Fan Discharge SP	-	0.08"

General	
	Actual
Fan Rotation Correct	YES

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Notes:
-COULD NOT SAFELY ACCESS RPM READING.

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Unit Data - PHOTO LOG



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Project: IMO's Pizza (Kansas City, MO)

FAN - Supply



Diffuser Supply (GRD)

MUA1/HOOD1

Asset									
Asset Name	Location	Type	Size	DESIGN CFM	AK	CFM(1)	CFM(2)	FINAL CFM	% to design
SGRD1	HD-1	PSP	72X14"	900	6.23	1433	935	935	103.9
SGRD2	KITCHEN	SA-4	10"	250	1.0	362	231	231	92.4
SGRD3	KITCHEN	SA-4	10"	250	1.0	379	244	244	97.6
Total				1400		2174	1410	1410	100.71%

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Project: IMO's Pizza (Kansas City, MO)

System/Unit: Kitchen Hood Type I



Asset: HD1

AREA:KITCHEN

Unit Data		
	Design	Actual
MFG	NA	ACCUREX
Model Num	NA	XBEW-60.00-S
Job / Serial Num	-	28645005
Type	-	TYPE I CANOPY
Hood length	-	60"
Hood Width	-	48"
Supply Plenum Type	-	PSP
Supply Plenum Width	-	14"
Supply Plenum Length	-	72"

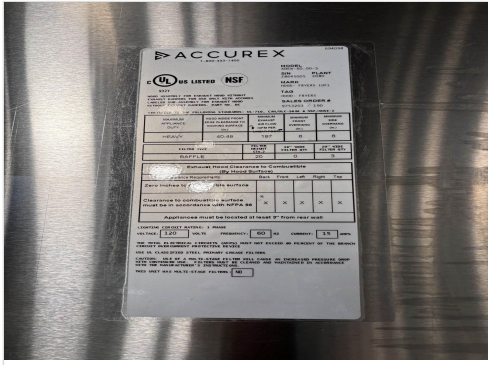
Test Data Exhaust		
	Design	Actual
Filter Type	-	BAFFLE
Filter Size 1	-	20X20"
Filter Qty 1	-	3
Filter AK factor size 1	-	2.40
Filter Total AK Area	-	7.20
Filter1 FPM	-	163
Filter2 FPM	-	150
Filter3 FPM	-	151
Filter Ave FPM(corr)	-	155
CFM	-	1116

Cooking Equipment	
	Actual
Item 1	FRYERS (3)

Test Data Supply		
	Design	Actual
Total Area	-	7.00
Kv factor (Vel)	-	0.89
Num of Readings	-	6
Reading1 FPM	-	164
Reading2 FPM	-	144
Reading3 FPM	-	145
Reading4 FPM	-	157
Reading5 FPM	-	140
Reading6 FPM	-	155
Ave FPM(corr)	-	151
CFM	-	941

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Unit Data - PHOTO LOG



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