

**Report By:**

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



**Report: TEST**

**Function: Test, Adjust, & Balance**

**Date: 03/17/2026**

**Completed By: National TAB**

# **PROJECT**

## **US Foods Kitchen Renovation (Cincinnati, OH)**

5445 Spellmire Drive

Cincinnati, OH 45246

### **Client**

Tri-State Mechanical

4498 Petersburg Rd

Burlington, KY 41005

# National TAB

Project: US Foods Kitchen Renovation (Cincinnati, OH)

## Table Of Contents

Section	Page #
AHU/RTU	3
FAN - Exhaust	6
FAN - Supply	9
Kitchen Hood Type I	10

# National TAB

Project: US Foods Kitchen Renovation (Cincinnati, OH)

System/Unit: AHU/RTU



Asset: RTU-7

AREA:ROOF

Unit Data	
	Actual
MFG	NA
Serial Num	
Model Num	NA
Configuration	
Num OA Filters 1	
OA Filter Size 1	
Num OA Filters 2	
OA Filter Size 2	
Num PreFilter 1	
PreFilter Size 1	
Num PreFilter 2	
PreFilter Size 2	
Num Final Filter 1	
Final Filter Size 1	
Num Final Filter 2	
Final Filter Size 2	

Test Data		
	Design	Actual
SF CFM	8510	
SF RPM	1601	
RA CFM	7160	
OA CFM	1350	
RL Voltage	480	
RL Amperage	-	
VFD Max SetPt	-	
VFD Min SetPt	-	
SF Motor Freq(HZ)	60	
SF Flow Station (Kv)	-	
OA Flow Station (Kv)	-	
SF System SetPt	-	
RA Flow Station (Kv)	-	
Min OA Damper Position	-	
Econo Damper Position	-	
Brake Horse Power	-	

Motor Data	
	Actual
Motor MFG	
Frame	
Horsepower	
Motor Rpm	
Phase	
Rated Voltage	
Rated Amperage	
Service Factor	

Performance Data		
	Design	Actual
MA Plenum SP	-	
Fan Suction SP	-	
Fan Discharge SP	-	
Total ESP	1.3	
Fan Total SP	-	
Pre-Filter P.D.	-	
Cooling Coil P.D.	-	
CHW Coil P.D.	-	
PreHeat Coil P.D.	-	
Heating Coil P.D.	-	
HW Coil P.D.	-	
Heat Wheel (Sup) P.D.	-	
OA Temp (db/wb)	-	
RA Temp (db/wb)	-	
MA Temp (db/wb)	-	
SA Temp (db/wb)	-	

Drive Data	
	Actual
Motor Sheave Size	
Motor Bore Size	
Motor Sheave SetPt	
Fan Sheave Size	
Fan Sheave Bore	
Belt CL Distance	
Num of Belts	
Belt Size	

# National TAB

Project: US Foods Kitchen Renovation (Cincinnati, OH)

## AHU/RTU



### VAV - Single Duct

#### RTU-7/ROOF

Asset											
Asset Name	MFG	Model Num	Type	Inlet Size	Design Max CFM	Max CFM	Design Min CFM	Min CFM	Design Heat CFM	Heat CFM	Ak (max)
VAV-1	NA	NA			700		700		700		
VAV-2	NA	NA			810		243		810		
VAV-3	NA	NA			300		300		300		
VAV-4	NA	NA			530		159		345		
VAV-5	NA	NA			2440		1464		1464		
VAV-6	NA	NA			2440		1342		1342		
VAV-7	NA	NA			1290		387		581		

### Diffuser Supply (GRD)

#### VAV-1/

Asset							
Asset Name	Location	Type	Size	DESIGN CFM	CFM(1)	FINAL CFM	% to design
V1-1	HALLWAY 202	CD-1	8	150			-
V1-2	HALLWAY 202	CD-1	8	175			-
V1-3	INNOVATION CENTER 201	CD-1	8	175			-
V1-4	INNOVATION CENTER 201	LD-1	8	200			-
Total				700	0	0	0%

#### VAV-2/

Asset							
Asset Name	Location	Type	Size	DESIGN CFM	CFM(1)	FINAL CFM	% to design
V2-1	HALLWAY 203	LD-1	8	135			-
V2-2	HALLWAY 203	LD-1	8	135			-
V2-3	HALLWAY 203	LD-1	8	135			-
V2-4	HALLWAY 203	LD-1	8	135			-
V2-5	HALLWAY 203	LD-1	8	135			-
V2-6	HALLWAY 203	LD-1	8	135			-
Total				810	0	0	0%

#### VAV-3/

Asset							
Asset Name	Location	Type	Size	DESIGN CFM	CFM(1)	FINAL CFM	% to design
V3-1	PREP ROOM 204	CD-1	8	150			-
V3-2	PREP ROOM 204	CD-1	8	150			-
Total				300	0	0	0%

#### VAV-4/

Asset							
Asset Name	Location	Type	Size	DESIGN CFM	CFM(1)	FINAL CFM	% to design
V4-1	PRODUCT DEMONSTRATION 206	CD-2	10	265			-
V4-2	PRODUCT DEMONSTRATION 206	CD-2	10	265			-
Total				530	0	0	0%

**VAV-5/**

<b>Asset</b>							
<b>Asset Name</b>	<b>Location</b>	<b>Type</b>	<b>Size</b>	<b>DESIGN CFM</b>	<b>CFM(1)</b>	<b>FINAL CFM</b>	<b>% to design</b>
V5-1	TRAINING ROOM A 207a	LD-2	10	400			-
V5-2	TRAINING ROOM A 207a	LD-2	10	410			-
V5-3	TRAINING ROOM A 207a	LD-2	10	410			-
V5-4	TRAINING ROOM A 207a	LD-2	10	410			-
V5-5	TRAINING ROOM A 207a	LD-2	10	410			-
V5-6	TRAINING ROOM A 207a	LD-2	10	400			-
Total				2440	0	0	0%

**VAV-6/**

<b>Asset</b>							
<b>Asset Name</b>	<b>Location</b>	<b>Type</b>	<b>Size</b>	<b>DESIGN CFM</b>	<b>CFM(1)</b>	<b>FINAL CFM</b>	<b>% to design</b>
V6-1	TRAINING ROOM B 207b	LD-2	10	400			-
V6-2	TRAINING ROOM B 207b	LD-2	10	410			-
V6-3	TRAINING ROOM B 207b	LD-2	10	410			-
V6-4	TRAINING ROOM B 207b	LD-2	10	410			-
V6-5	TRAINING ROOM B 207b	LD-2	10	410			-
V6-6	TRAINING ROOM B 207b	LD-2	10	400			-
Total				2440	0	0	0%

**VAV-7/**

<b>Asset</b>							
<b>Asset Name</b>	<b>Location</b>	<b>Type</b>	<b>Size</b>	<b>DESIGN CFM</b>	<b>CFM(1)</b>	<b>FINAL CFM</b>	<b>% to design</b>
V7-1	PANTRY 205	CD-1	14	645			-
V7-2	PANTRY 205	CD-1	14	645			-
Total				1290	0	0	0%

# National TAB

Project: US Foods Kitchen Renovation (Cincinnati, OH)

## System/Unit: FAN - Exhaust



Asset: EF-1

AREA: PANTRY 205

Unit Data	
	Actual
MFG	NA
Model Num	NA
Serial Num	
Type	

Motor Data	
	Actual
Motor MFG	
Frame	
Horsepower	
Motor Rpm	
Phase	
Voltage (rated)	
Amperage (rated)	
Service Factor	

Test Data		
	Design	Actual
CFM	1300	
Motor Frequency	-	
System SetPt	-	
RL Voltage	120	
RL Amperage	-	
Suction ESP	-	
Discharge ESP	-	
Total ESP	0.75	
Brake Horse Power	-	

# National TAB

Project:US Foods Kitchen Renovation (Cincinnati, OH)

## FAN - Exhaust



### Diffuser Ret/Exh (GRD)

#### EF-1/PANTRY 205

Asset								
Asset Name	Location	Type	Size	DESIGN CFM	AK	CFM(1)	FINAL CFM	% to design
E1-1	PANTRY 205	EG-1	24X24	100				-
E1-2	PRODUCT DEMONSTRATION 206	EG-1	24X24	380				-
E1-3	PREP ROOM 204	EG-1	24X24	470				-
E1-4	M. TLT. 218	EG-1	24X24	200				-
E1-5	W. TLT. 217	EG-1	24X24	200				-
Total				1350		0	0	0%

# National TAB

Project: US Foods Kitchen Renovation (Cincinnati, OH)

## System/Unit: FAN - Exhaust



Asset: EX-EF-20

AREA:PRODUCT DEMONSTRATION 206

Unit Data	
	Actual
MFG	NA
Model Num	NA
Serial Num	
Type	

Motor Data	
	Actual
Motor MFG	
Frame	
Horsepower	
Motor Rpm	
Phase	
Voltage (rated)	
Amperage (rated)	
Service Factor	

Drive Data	
	Actual
Motor Sheave Size	
Motor Bore Size	
Motor Sheave SetPt	
Fan Sheave Size	
Fan Sheave Bore	
Belt CL Distance	
Num of Belts	
Belt Size	

Test Data		
	Design	Actual
CFM	4350	
Fan RPM	1725	
RL Voltage	208	
RL Amperage	-	
Suction ESP	-	
Discharge ESP	-	
Total ESP	1.8	
Brake Horse Power	-	

# National TAB

Project: US Foods Kitchen Renovation (Cincinnati, OH)

## System/Unit: FAN - Supply



Asset: KMU-1

AREA:PRODUCT DEMONSTRATION 206

Unit Data	
	Actual
MFG	NA
Model Num	NA
Serial Num	
Type	
Configuration	
Num Filters Size 1	
Filter Size 1	

Motor Data	
	Actual
Motor MFG	
Frame	
Horsepower	
Motor Rpm	
Phase	
Voltage (rated)	
Amperage (rated)	
Service Factor	

Drive Data	
	Actual
Motor Sheave Size	
Motor Bore Size	
Motor Sheave SetPt	
Fan Sheave Size	
Fan Sheave Bore	
Belt CL Distance	
Num of Belts	
Belt Size	

Test Data		
	Design	Actual
CFM	4350	
SF RPM	1079	
Motor Frequency	-	
SF System SetPt	-	
RL Voltage	480	
RL Amperage	-	
Suction ESP	-	
Discharge ESP	-	
Total ESP	0.5	
Brake Horse Power	-	

# National TAB

Project: US Foods Kitchen Renovation (Cincinnati, OH)

## System/Unit: Kitchen Hood Type I



Asset: KH-1

AREA:KITCHEN

Unit Data	
	Actual
MFG	NA
Model Num	NA
Job / Serial Num	
Type	
Hood length	
Hood Width	
Supply Plenum Type	
Supply Plenum Width	
Supply Plenum Length	

Test Data Exhaust		
	Design	Actual
Filter Type	95% @ 8 MICRONS GREASE GRABBER	
Filter Size 1	-	
Filter Size 2	-	
Filter Qty 1	-	
Filter Qty 2	-	
Filter AK factor size 1	-	
Filters AK factor size 2	-	
Filter Total AK Area	-	
Filter1 FPM	-	
Filter2 FPM	-	
Filter3 FPM	-	
Filter4 FPM	-	
Filter5 FPM	-	
Filter6 FPM	-	
Filter7 FPM	-	
Filter8 FPM	-	
Filter9 FPM	-	
Filter10 FPM	-	
Filter11 FPM	-	
Filter12 FPM	-	
Filter Ave FPM(corr)	-	
CFM	2175	

Cooking Equipment	
	Actual
Item 1	
Item 2	
Item 3	
Item 4	
Item 5	

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	2175	

# National TAB

Project: US Foods Kitchen Renovation (Cincinnati, OH)

## System/Unit: Kitchen Hood Type I



Asset: KH-2

AREA:

Unit Data	
	Actual
MFG	NA
Model Num	NA
Job / Serial Num	
Type	
Hood length	
Hood Width	
Supply Plenum Type	
Supply Plenum Width	
Supply Plenum Length	

Test Data Exhaust		
	Design	Actual
Filter Type	95% @ 8 MICRONS GREASE GRABBER	
Filter Size 1	-	
Filter Size 2	-	
Filter Qty 1	-	
Filter Qty 2	-	
Filter AK factor size 1	-	
Filters AK factor size 2	-	
Filter Total AK Area	-	
Filter1 FPM	-	
Filter2 FPM	-	
Filter3 FPM	-	
Filter4 FPM	-	
Filter5 FPM	-	
Filter6 FPM	-	
Filter7 FPM	-	
Filter8 FPM	-	
Filter9 FPM	-	
Filter10 FPM	-	
Filter11 FPM	-	
Filter12 FPM	-	
Filter Ave FPM(corr)	-	
CFM	2175	

Cooking Equipment	
	Actual
Item 1	
Item 2	
Item 3	
Item 4	
Item 5	

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	2175	