

Report By:

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



Report: Hood System Testing
Function: Test, Adjust, & Balance
Date: 10/21/2025
Completed By: National TAB

PROJECT

Warabeya North America (Columbus, OH)

1575 Rail Southern Court

Columbus, OH 43217

Client

National Pro Balance LLC
PO Box 531596
Cincinnati, OH 45253

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Project: Warabeya North America (Columbus, OH)

Table Of Contents

Section	Page #
Kitchen Hood Type I	3
AHU/RTU	14



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Project: Warabeya North America (Columbus, OH)

System/Unit: Kitchen Hood Type I

Asset: H-2

AREA:KTN-FRY-03

Unit Data

	Design	Actual
MFG	HOOD	GAYLORD
Model Num	HOOD	ENL-GBD-BBC
Job / Serial Num	-	GI-0125-230911901
Type	TYPE I CANOPY	TYPE I CANOPY
Hood length	216	192"
Hood Width	93	69"
Supply Plenum Type	-	PSP
Supply Plenum Width	-	12"
Supply Plenum Length	-	216"/93"

Test Data Exhaust

	Design	Actual
Filter Type	EXTRACTOR	EXTRACTOR
Filter Size 1	-	18"X16"
Filter Qty 1	-	24
Filter AK factor size 1	-	1.25
Filter Total AK Area	-	30
Filter1 FPM	-	189,156
Filter2 FPM	-	200,163
Filter3 FPM	-	179,178
Filter4 FPM	-	203,178
Filter5 FPM	-	177,161
Filter6 FPM	-	173,177
Filter7 FPM	-	179,168
Filter8 FPM	-	178,196
Filter9 FPM	-	177,210
Filter10 FPM	-	188,193
Filter11 FPM	-	177,197
Filter12 FPM	-	184,174
Filter Ave FPM(corr)	-	181
CFM	4800	5444



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Project: Warabeya North America (Columbus, OH)

System/Unit: Kitchen Hood Type I

Asset: H-3

AREA:KTN-FRY-02

Unit Data		
	Design	Actual
MFG	HOOD	GAYLORD
Model Num	HOOD	ENL-GBD-BBC
Job / Serial Num	-	GI-0125-230911904
Type	TYPE I CANOPY	TYPE I CANOPY
Hood length	216	192"
Hood Width	93	69"
Supply Plenum Type	-	PSP
Supply Plenum Width	-	12"
Supply Plenum Length	-	216"/93"

Test Data Exhaust		
	Design	Actual
Filter Type	EXTRACTOR	EXTRACTORS
Filter Size 1	-	18"X16"
Filter Qty 1	-	24
Filter AK factor size 1	-	1.25
Filter Total AK Area	-	30
Filter1 FPM	-	153,191
Filter2 FPM	-	169,182
Filter3 FPM	-	188,211
Filter4 FPM	-	161,206
Filter5 FPM	-	174,190
Filter6 FPM	-	163,177
Filter7 FPM	-	174,173
Filter8 FPM	-	185,173
Filter9 FPM	-	198,186
Filter10 FPM	-	185,205
Filter11 FPM	-	172,195
Filter12 FPM	-	185,194
Filter Ave FPM(corr)	-	183
CFM	4800	5488



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Project: Warabeya North America (Columbus, OH)

System/Unit: Kitchen Hood Type I

Asset: H-4

AREA:KTN-FRY-01

Unit Data		
	Design	Actual
MFG	HOOD	GAYLORD
Model Num	HOOD	ENL-GBD-BBC
Job / Serial Num	-	GI-0125-23091807
Type	TYPE I CANOPY	TYPE I CANOPY
Hood length	216	192"
Hood Width	93	69"
Supply Plenum Type	-	PSP
Supply Plenum Width	-	12"
Supply Plenum Length	-	216"/93"

Test Data Exhaust		
	Design	Actual
Filter Type	EXTRACTOR	
Filter Size 1	-	18"x16"
Filter Qty 1	-	24
Filter AK factor size 1	-	1.25
Filter Total AK Area	-	30
Filter1 FPM	-	159,190
Filter2 FPM	-	181,209
Filter3 FPM	-	175,201
Filter4 FPM	-	191,205
Filter5 FPM	-	186,194
Filter6 FPM	-	171,173
Filter7 FPM	-	177,188
Filter8 FPM	-	200,195
Filter9 FPM	-	207,203
Filter10 FPM	-	198,203
Filter11 FPM	-	188,199
Filter12 FPM	-	187,194
Filter Ave FPM(corr)	-	191
CFM	4800	5718



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Project: Warabeya North America (Columbus, OH)

System/Unit: Kitchen Hood Type I

Asset: H-5

AREA:KTN-OVN-01

Unit Data		
	Design	Actual
MFG	HOOD	GAYLORD
Model Num	HOOD	GBD-BBC-CL-S-SS
Job / Serial Num	-	GI-0125-23091911
Type	TYPE I CANOPY	TYPE I CANOPY
Hood length	156	132"
Hood Width	108	84"
Supply Plenum Type	-	PSP
Supply Plenum Width	-	12"/108"
Supply Plenum Length	-	156"/

Test Data Exhaust		
	Design	Actual
Filter Type	EXTRACTOR	BAFFLE
Filter Size 1	-	20"X16"
Filter Qty 1	-	16
Filter AK factor size 1	-	2.08
Filter Total AK Area	-	33.3
Filter1 FPM	-	164,105
Filter2 FPM	-	131,139
Filter3 FPM	-	132144
Filter4 FPM	-	121,133
Filter5 FPM	-	124,133
Filter6 FPM	-	150,144
Filter7 FPM	-	118,150
Filter8 FPM	-	105,122
Filter Ave FPM(corr)	-	132
CFM	4400	4402



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Project: Warabeya North America (Columbus, OH)

System/Unit: Kitchen Hood Type I

Asset: H-6

AREA:KTN-OVN-02

Unit Data		
	Design	Actual
MFG	HOOD	GAYLORD
Model Num	HOOD	GBD-BBC-CL-S-SS
Job / Serial Num	-	GI-0125-23091911
Type	TYPE I CANOPY	TYPE I CANOPY
Hood length	156	132"
Hood Width	108	84"
Supply Plenum Type	-	PSP
Supply Plenum Width	-	12"
Supply Plenum Length	-	156"/108"

Test Data Exhaust		
	Design	Actual
Filter Type	EXTRACTOR	BAFFLE
Filter Size 1	-	20"X16"
Filter Qty 1	-	16
Filter AK factor size 1	-	2.08
Filter Total AK Area	-	33.3
Filter1 FPM	-	105,102
Filter2 FPM	-	150,158
Filter3 FPM	-	131,146
Filter4 FPM	-	110,139
Filter5 FPM	-	132,131
Filter6 FPM	-	149,146
Filter7 FPM	-	152,143
Filter8 FPM	-	90,112
Filter Ave FPM(corr)	-	131
CFM	4400	4362



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Project: Warabeya North America (Columbus, OH)

System/Unit: Kitchen Hood Type I

Asset: H-7A 1

AREA:KTN-BRS-02 & KTN-BRS-01

Unit Data		
	Design	Actual
MFG	HOOD	GAYLORD
Model Num	HOOD	GBD-BB-S-SS-AV
Job / Serial Num	-	GI-0125-23091917
Type	TYPE I CANOPY	TYPE I CANOPY
Hood length	228	192"
Hood Width	84	66"
Supply Plenum Type	-	PSP
Supply Plenum Width	-	18"
Supply Plenum Length	-	228"/84"

Test Data Exhaust		
	Design	Actual
Filter Type	EXTRACTOR	BAFFLE
Filter Size 1	-	20"X16"
Filter Qty 1	-	12
Filter AK factor size 1	-	2.08
Filter Total AK Area	-	24.96
Filter1 FPM	-	243
Filter2 FPM	-	216
Filter3 FPM	-	244
Filter4 FPM	-	266
Filter5 FPM	-	204
Filter6 FPM	-	212
Filter7 FPM	-	210
Filter8 FPM	-	227
Filter9 FPM	-	271
Filter10 FPM	-	257
Filter11 FPM	-	222
Filter12 FPM	-	191
Filter Ave FPM(corr)	-	230
CFM	6400	5747



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Project: Warabeya North America (Columbus, OH)

System/Unit: Kitchen Hood Type I

Asset: H-7B 1

AREA:KTN-BRS-03 & KTN-BRS-04

Unit Data		
	Design	Actual
MFG	HOOD	GAYLORD
Model Num	HOOD	GED-BB-S-SS-AV
Job / Serial Num	-	GI-0125-23091917
Type	TYPE I CANOPY	TYPE I CANOPY
Hood length	228	192"
Hood Width	84	66"
Supply Plenum Type	-	PSP
Supply Plenum Width	-	18"
Supply Plenum Length	-	228"/84"

Test Data Exhaust		
	Design	Actual
Filter Type	EXTRACTOR	BAFFLE
Filter Size 1	-	20"X16"
Filter Qty 1	-	12
Filter AK factor size 1	-	2.08
Filter Total AK Area	-	24.96
Filter1 FPM	-	200
Filter2 FPM	-	207
Filter3 FPM	-	247
Filter4 FPM	-	249
Filter5 FPM	-	221
Filter6 FPM	-	191
Filter7 FPM	-	177
Filter8 FPM	-	206
Filter9 FPM	-	241
Filter10 FPM	-	243
Filter11 FPM	-	251
Filter12 FPM	-	227
Filter Ave FPM(corr)	-	222
CFM	6400	5533



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Project: Warabeya North America (Columbus, OH)

System/Unit: Kitchen Hood Type I

Asset: H-8A 1

AREA:KTN-KND-02 & KTN-KND-01

Unit Data		
	Design	Actual
MFG	HOOD	GAYLORD
Model Num	HOOD	GBD-S-SS-AV-300
Job / Serial Num	-	GI-0125-23091920 A
Type	TYPE I CANOPY	TYPE I CANOPY
Hood length	300	356"
Hood Width	138	103"
Supply Plenum Type	-	PSP
Supply Plenum Width	-	256"/15"
Supply Plenum Length	-	36/169"

Test Data Exhaust		
	Design	Actual
Filter Type	EXTRACTOR	BAFFLE
Filter Size 1	-	20"X16"
Filter Qty 1	-	20
Filter AK factor size 1	-	2.08
Filter Total AK Area	-	33.28
Filter1 FPM	-	248,284
Filter2 FPM	-	273,251
Filter3 FPM	-	310,302
Filter4 FPM	-	283,292
Filter5 FPM	-	248,268
Filter6 FPM	-	254,260
Filter7 FPM	-	304,305
Filter8 FPM	-	315,324
Filter9 FPM	-	299,302
Filter10 FPM	-	237,224
Filter Ave FPM(corr)	-	279
CFM	11040	9290



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Project: Warabeya North America (Columbus, OH)

System/Unit: Kitchen Hood Type I

Asset: H-8B 1

AREA:KTN-KTL-01 & KTN-KTL-02

Unit Data		
	Design	Actual
MFG	HOOD	GAYLORD
Model Num	HOOD	GBD-S-SS-AV-300-
Job / Serial Num	-	GI-0125-23091920
Type	TYPE I CANOPY	TYPE I CANOPY
Hood length	185	159"
Hood Width	138	103"
Supply Plenum Type	-	PSP
Supply Plenum Width	-	36"
Supply Plenum Length	-	153"

Test Data Exhaust		
	Design	Actual
Filter Type	EXTRACTOR	BAFFLE
Filter Size 1	-	20"X16"
Filter Qty 1	-	12
Filter AK factor size 1	-	2.08
Filter Total AK Area	-	24.96
Filter1 FPM	-	316
Filter2 FPM	-	360
Filter3 FPM	-	279
Filter4 FPM	-	290
Filter5 FPM	-	229
Filter6 FPM	-	248
Filter7 FPM	-	322
Filter8 FPM	-	359
Filter9 FPM	-	375
Filter10 FPM	-	309
Filter11 FPM	-	237
Filter12 FPM	-	207
Filter Ave FPM(corr)	-	294
CFM	6450	7344



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Project: Warabeya North America (Columbus, OH)

System/Unit: Kitchen Hood Type I

Asset: H-8C 1

AREA:KTN-KTL-03 & KTN-KTL-04

Unit Data		
	Design	Actual
MFG	HOOD	GAYLORD
Model Num	HOOD	GBD-S-SS-AV-300
Job / Serial Num	-	GI-0125-23091920
Type	TYPE I CANOPY	TYPE I CANOPY
Hood length	259	252"
Hood Width	138	103"
Supply Plenum Type	-	PSP
Supply Plenum Width	-	36"
Supply Plenum Length	-	252"

Test Data Exhaust		
	Design	Actual
Filter Type	EXTRACTOR	BAFFLE
Filter Size 1	-	20"X16"
Filter Qty 1	-	16
Filter AK factor size 1	-	2.08
Filter Total AK Area	-	33.28
Filter1 FPM	-	294,247
Filter2 FPM	-	267,297
Filter3 FPM	-	351,393
Filter4 FPM	-	431,358
Filter5 FPM	-	422,418
Filter6 FPM	-	371,369
Filter7 FPM	-	286,317
Filter8 FPM	-	248,277
Filter Ave FPM(corr)	-	334
CFM	8450	11120



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Project: Warabeya North America (Columbus, OH)

System/Unit: Kitchen Hood Type I

Asset: H-9 1

AREA:RD-FRY-01 & RD-RNG-01

Unit Data		
	Design	Actual
MFG	HOOD	GAYLORD
Model Num	HOOD	GBD-S-SS-AV-300-60
Job / Serial Num	-	GI-012523091925
Type	TYPE I CANOPY	TYPE 1
Hood length	111	111
Hood Width	60	60

Test Data Exhaust		
	Design	Actual
Filter Type	EXTRACTOR	BAFFLE
Filter Size 1	-	16X20
Filter Qty 1	-	6
Filter AK factor size 1	-	2.08
Filter Total AK Area	-	12.48
Filter1 FPM	-	131
Filter2 FPM	-	152
Filter3 FPM	-	172
Filter4 FPM	-	174
Filter5 FPM	-	152
Filter6 FPM	-	136
Filter Ave FPM(corr)	-	153
CFM	1970	1907



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Project: Warabeya North America (Columbus, OH)

System/Unit: AHU/RTU

Asset: MAU-3

AREA:WEST PLATFORM

Unit Data		
	Design	Actual
MFG	NA	CLIMATE BY DESIGN
Serial Num	-	030134-003-001
Model Num	NA	AHU-8P-140-44-DF-CC
Configuration	-	MAU
Num PreFilter 1	-	20
PreFilter Size 1	-	24X24X2
Num PreFilter 2	-	5
PreFilter Size 2	-	12X24X2
Num Final Filter 1	-	20
Final Filter Size 1	-	24X24X12
Num Final Filter 2	-	5
Final Filter Size 2	-	12X24X12

Motor Data		
	Design	Actual
Motor MFG	-	
Frame	-	405T
Horsepower	75	75
Motor Rpm	-	1120
Phase	3	3
Rated Voltage	460	460
Rated Amperage	85.9	85.9
Service Factor	-	

Test Data		
	Design	Actual
SF CFM	37124	36837
SF RPM	1120	840
RA CFM	0	0
OA CFM	37124	36837
RL Voltage	460	486/487/485
RL Amperage	85.9	54.7 VFD
SF Motor Freq(HZ)	-	45 HZ
SF System SetPt	-	45 HZ
Brake Horse Power	53.1	47.8

Performance Data		
	Design	Actual
MA Plenum SP	-	-0.38"
Fan Suction SP	-	-1.42"
Fan Discharge SP	-	1.35"
Total ESP	1.25	1.51"
Fan Total SP	5.6	2.77"
Pre-Filter P.D.	-	0.18"
Final Filters P.D.	-	0.22"
CHW Coil P.D.	-	0.20"
Heating Coil P.D.	-	0.66"

Completed By: Nick Payne on 10/13/2025

Notes:

DISCHARGE PRESSURE READING 0.53" AT SENSOR.

MUA3 SERVICE (3) GROUPS (ZONES) OF HOODS WITH (3) MOTORIZED DAMPERS. DURING TAB, ALL (3) DAMPERS WERE KEPT 100% OPEN TO SET A MAX LOAD (ALL HOODS ON). EACH ZONE WAS MEASURED & SET BY TRAVERSING EACH MAIN DUCT GOING TO EACH ZONE. WITH CURRENT DAMPERS CANNOT ADJUST AIRFLOW BETWEEN ZONES.

Written By: Joe Hertenstein on 10/21/2025



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Project: Warabeya North America (Columbus, OH)

AHU/RTU

Diffuser Supply (GRD)

MAU-3/WEST PLATFORM

Asset								
Asset Name	Location	Type	Size	DESIGN CFM	CFM(1)	CFM(2)	FINAL CFM	% to design
SGRD1	HOOD 2/3/4	Type-1	Various	8640	10833	8863	8863	102.6
SGRD4	HOOD 5/6/7A/7B	Type-1	Various	12960	11703	9575	9575	73.9
SGRD8	HOOD 8A/8B/8C	Type-1	Various	15524	22488	18399	18399	118.5
Total				37124	45024	36837	36837	99.23%

Asset	Notes	Date	Written By
SGRD1	THE VALUES LISTED ARE TRAVERSE VALUES FOR EACH BRANCH.	10/07/2025	Gabe Merk