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Report: TEST

Function: Test, Adjust, & Balance

Date: 03/05/2026

Completed By: National TAB

PROJECT

Kona NASK 2nd FL (Beavercreek, OH)

4123 Colonel Glenn Hwy

Beavercreek, OH 45431

Client

Detmer Mechanical

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National TAB

Project: Kona NASK 2nd FL (Beavercreek, OH)

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National TAB

Project: Kona NASK 2nd FL (Beavercreek, OH)

System/Unit: AHU/RTU



Asset: RTU-5

AREA:

Unit Data	
	Actual
MFG	CARRIER
Serial Num	
Model Num	48FEEM20B2A6-8M0A0
Configuration	VERTICAL
Num OA Filters 1	
OA Filter Size 1	
Num PreFilter 1	
PreFilter Size 1	

Motor Data	
	Actual
Motor MFG	
Frame	
Horsepower	
Motor Rpm	
Phase	
Rated Voltage	
Rated Amperage	
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
SF CFM	7000	
SF RPM	1768	
RA CFM	5600	
OA CFM	1400	
Relief CFM	-	
RL Voltage	460	
RL Amperage	3	
OA Damper Position	-	
Brake Horse Power	3.95	

Performance Data		
	Design	Actual
MA Plenum SP	-	
Fan Suction SP	-	
Fan Discharge SP	-	
Total ESP	1.00	
Fan Total SP	-	
Cooling Coil P.D.	-	
OA Temp (db/wb)	-	
RA Temp (db/wb)	-	
MA Temp (db/wb)	-	
SA Temp (db/wb)	-	

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Project: Kona NASK 2nd FL (Beavercreek, OH)

AHU/RTU



VAV - Single Duct

RTU-5/

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)
ZD-1	NA	NA			700						
ZD-2	NA	NA			1750						
ZD-3	NA	NA			1200						
ZD-4	NA	NA			725						
ZD-5	NA	NA			900						
ZD-6	NA	NA			525						
ZD-7	NA	NA			1200						

Diffuser Ret/Exh (GRD)

RTU-5/

Asset								
Asset Name	Location	Type	Size	DESIGN CFM	AK	CFM(1)	FINAL CFM	% to design
R5-1	PROPOSAL ROOM 2067		12	500				-
R5-2	CORRIDOR		15	900				-
Total				1400		0	0	0%

Diffuser Supply (GRD)

ZD-1/

Asset							
Asset Name	Location	Type	Size	DESIGN CFM	CFM(1)	FINAL CFM	% to design
5-1-1	OFFICE 2083		8	175			-
5-1-2	OFFICE 2081		8	175			-
5-1-3	2079		8	175			-
5-1-4	OFFICE 2078		8	175			-
Total				700	0	0	0%

ZD-2/

Asset							
Asset Name	Location	Type	Size	DESIGN CFM	CFM(1)	FINAL CFM	% to design
5-2-1	OFFICE 2069		8	175			-
5-2-2	OFFICE 2084		8	175			-
5-2-3	CORRIDOR		8	200			-
5-2-4	OFFICE 2071		8	175			-
5-2-5	OFFICE 2082		8	175			-
5-2-6	OFFICE 2073		8	175			-
5-2-7	OFFICE 2080		8	175			-
5-2-8	CORRIDOR		8	150			-
5-2-9	OFFICE 2075		8	175			-
5-2-10	OFFICE 2076		8	175			-
Total				1750	0	0	0%

ZD-3/

Asset							
Asset Name	Location	Type	Size	DESIGN CFM	CFM(1)	FINAL CFM	% to design
5-3-1	OFFICE 2086		8	175			-

ZD-3/

Asset							
Asset Name	Location	Type	Size	DESIGN CFM	CFM(1)	FINAL CFM	% to design
5-3-2	PROPOSAL ROOM 2067		10	250			-
5-3-3	PROPOSAL ROOM 2067		10	250			-
5-3-4	H.OFFICE 2088		8	175			-
5-3-5	H.OFFICE 2092		8	175			-
5-3-6	H.OFFICE 2094		8	175			-
Total				1200	0	0	0%

ZD-4/

Asset							
Asset Name	Location	Type	Size	DESIGN CFM	CFM(1)	FINAL CFM	% to design
5-4-1	OFFICE 2085		8	175			-
5-4-2	OFFICE 2087		8	175			-
5-4-3	CORRIDOR		8	200			-
5-4-4	H.OFFICE 2089		8	175			-
Total				725	0	0	0%

ZD-5/

Asset							
Asset Name	Location	Type	Size	DESIGN CFM	CFM(1)	FINAL CFM	% to design
5-5-1	OFFICE 2107		10	225			-
5-5-2	OFFICE 2108		10	225			-
5-5-3	OFFICE 2106		10	225			-
5-5-4	OFFICE 2105		10	225			-
Total				900	0	0	0%

ZD-6/

Asset							
Asset Name	Location	Type	Size	DESIGN CFM	CFM(1)	FINAL CFM	% to design
5-6-1	CORRIDOR		8	200			-
5-6-2	OFFICE 2104		10	325			-
Total				525	0	0	0%

ZD-7/

Asset							
Asset Name	Location	Type	Size	DESIGN CFM	CFM(1)	FINAL CFM	% to design
5-7-1	OFFICE 2090		8	175			-
5-7-2	OFFICE 2102		8	175			-
5-7-3	H.OFFICE 2093		8	175			-
5-7-4	H.OFFICE 2095		8	175			-
5-7-5	2096		8	175			-
5-7-6	H.OFFICE 2098		8	175			-
5-7-7	CORRIDOR		8	150			-
Total				1200	0	0	0%

National TAB

Project: Kona NASK 2nd FL (Beavercreek, OH)

System/Unit: AHU/RTU



Asset: RTU-6

AREA:

Unit Data	
	Actual
MFG	NACARRIER
Serial Num	
Model Num	48FEEM20B2A6
Configuration	VERTICAL
Num OA Filters 1	
OA Filter Size 1	
Num PreFilter 1	
PreFilter Size 1	

Motor Data	
	Actual
Motor MFG	
Frame	
Horsepower	
Motor Rpm	
Phase	
Rated Voltage	
Rated Amperage	
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
SF CFM	7000	
SF RPM	1768	
RA CFM	5600	
OA CFM	1400	
Relief CFM	-	
RL Voltage	460	
RL Amperage	3	
OA Damper Position	-	
Brake Horse Power	3.95	

Performance Data		
	Design	Actual
MA Plenum SP	-	
Fan Suction SP	-	
Fan Discharge SP	-	
Total ESP	1.00	
Fan Total SP	-	
Cooling Coil P.D.	-	
OA Temp (db/wb)	-	
RA Temp (db/wb)	-	
MA Temp (db/wb)	-	
SA Temp (db/wb)	-	

National TAB

Project: Kona NASK 2nd FL (Beavercreek, OH)

AHU/RTU



VAV - Single Duct

RTU-6/

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)
ZD-1	NA	NA			1400						
ZD-2	NA	NA			800						
ZD-3	NA	NA			900						
ZD-4	NA	NA			975						
ZD-5	NA	NA			1600						
ZD-6	NA	NA			1325						

Diffuser Ret/Exh (GRD)

RTU-6/

Asset								
Asset Name	Location	Type	Size	DESIGN CFM	AK	CFM(1)	FINAL CFM	% to design
R6-1	OPEN COLLABORATION 2030		12	690				-
R6-2	OPEN COLLABORATION 2030		12	690				-
R6-3	OPEN COLLABORATION 2030		12	690				-
R6-4	CORRIDOR		10	400				-
Total				2470		0	0	0%

Diffuser Supply (GRD)

ZD-1/

Asset							
Asset Name	Location	Type	Size	DESIGN CFM	CFM(1)	FINAL CFM	% to design
6-1-1	OPEN OFFICE 2074		12	350			-
6-1-2	OPEN OFFICE 2074		12	350			-
6-1-3	OPEN OFFICE 2074		12	350			-
6-1-4	OPEN OFFICE 2074		12	350			-
Total				1400	0	0	0%

ZD-2/

Asset							
Asset Name	Location	Type	Size	DESIGN CFM	CFM(1)	FINAL CFM	% to design
6-2-1	HOTELING OFFICE 2022		8	200			-
6-2-2	2024		8	200			-
6-2-3	H.OFFICE 2026		8	200			-
6-2-4	H.OFFICE 2028		8	200			-
Total				800	0	0	0%

ZD-3/

Asset							
Asset Name	Location	Type	Size	DESIGN CFM	CFM(1)	FINAL CFM	% to design
6-3-1	OFFICE 2025		12	350			-
6-3-2	CORRIDOR		8	200			-
6-3-3	OFFICE 2023		12	350			-
Total				900	0	0	0%

ZD-4/

Asset							
Asset Name	Location	Type	Size	DESIGN CFM	CFM(1)	FINAL CFM	% to design
6-4-1	CORRIDOR		10	275			-
6-4-2	OFFICE 2027		12	350			-
6-4-3	OFFICE 2029		12	350			-
Total				975	0	0	0%

ZD-5/

Asset							
Asset Name	Location	Type	Size	DESIGN CFM	CFM(1)	FINAL CFM	% to design
6-5-1	OPEN COLLABORATION 2030		12	400			-
6-5-2	OPEN COLLABORATION 2030		12	400			-
6-5-3	OPEN COLLABORATION 2030		12	400			-
6-5-4	OPEN COLLABORATION 2030		12	400			-
Total				1600	0	0	0%

ZD-6/

Asset							
Asset Name	Location	Type	Size	DESIGN CFM	CFM(1)	FINAL CFM	% to design
6-6-1	H.OFFICE 2031		10	250			-
6-6-2	CORRIDOR		8	200			-
6-6-3	STORAGE 2033		8	200			-
6-6-4	STAIR 2 S2-2		12	400			-
6-6-5	CORRIDOR		8	200			-
Total				1250	0	0	0%

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Project: Kona NASK 2nd FL (Beavercreek, OH)

System/Unit: AHU/RTU



Asset: RTU-7

AREA:

Unit Data	
	Actual
MFG	CARRIER
Serial Num	
Model Num	48FEEM20B2A6
Configuration	VERTICAL
Num OA Filters 1	
OA Filter Size 1	
Num PreFilter 1	
PreFilter Size 1	

Motor Data	
	Actual
Motor MFG	
Frame	
Horsepower	
Motor Rpm	
Phase	
Rated Voltage	
Rated Amperage	
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
SF CFM	7000	
SF RPM	1768	
RA CFM	5600	
OA CFM	1400	
Relief CFM	-	
RL Voltage	460	
RL Amperage	3	
OA Damper Position	-	
Brake Horse Power	3.95	

Performance Data		
	Design	Actual
MA Plenum SP	-	
Fan Suction SP	-	
Fan Discharge SP	-	
Total ESP	1.00	
Fan Total SP	-	
Cooling Coil P.D.	-	
OA Temp (db/wb)	-	
RA Temp (db/wb)	-	
MA Temp (db/wb)	-	
SA Temp (db/wb)	-	

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Project: Kona NASK 2nd FL (Beavercreek, OH)

AHU/RTU



VAV - Single Duct

RTU-7/

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)
ZD-1	NA	NA			1200						
ZD-2	NA	NA			950						
ZD-3	NA	NA			700						
ZD-4	NA	NA			800						
ZD-5	NA	NA			1275						
ZD-6	NA	NA			975						
ZD-7	NA	NA			1100						

Diffuser Ret/Exh (GRD)

RTU-7/

Asset								
Asset Name	Location	Type	Size	DESIGN CFM	AK	CFM(1)	FINAL CFM	% to design
R7-1	CONFERENCE 2063		12	600				-
R7-2	CONFERENCE 2063		12	600				-
R7-3	CORRIDOR		14	900				-
R7-4	CORRIDOR		14	800				-
R7-5	OFFICE 2062		12	700				-
Total				3600		0	0	0%

Diffuser Supply (GRD)

ZD-1/

Asset							
Asset Name	Location	Type	Size	DESIGN CFM	CFM(1)	FINAL CFM	% to design
7-1-1	CONFERENCE 2063		10	300			-
7-1-2	CONFERENCE 2063		10	300			-
7-1-3	CONFERENCE 2063		10	300			-
7-1-4	CONFERENCE 2063		10	300			-
Total				1200	0	0	0%

ZD-2/

Asset							
Asset Name	Location	Type	Size	DESIGN CFM	CFM(1)	FINAL CFM	% to design
7-2-1	OFFICE 2097		10	250			-
7-2-2	OFFICE 2099		10	250			-
7-2-3	OFFICE 2101		8	200			-
7-2-4	OFFICE 2103		10	250			-
Total				950	0	0	0%

ZD-3/

Asset							
Asset Name	Location	Type	Size	DESIGN CFM	CFM(1)	FINAL CFM	% to design
7-3-1	OFFICE 2062		12	350			-
7-3-2	OFFICE 2062		12	350			-
Total				700	0	0	0%

ZD-4/

Asset							
Asset Name	Location	Type	Size	DESIGN CFM	CFM(1)	FINAL CFM	% to design
7-4-1	OFFICE 2061		8	200			-
7-4-2	OFFICE 2060		8	200			-
7-4-3	HOTELING OFFICE 2059		8	200			-
7-4-4	OFFICE 2058		8	200			-
Total				800	0	0	0%

ZD-5/

Asset							
Asset Name	Location	Type	Size	DESIGN CFM	CFM(1)	FINAL CFM	% to design
7-5-1	CORRIDOR		8	200			-
7-5-2	CORRIDOR		10	225			-
7-5-3	OFFICE 2057		12	350			-
7-5-4	SECURITY OFFICE 2056		10	250			-
7-5-5	SECURITY OFFICE 2056		10	250			-
Total				1275	0	0	0%

ZD-6/

Asset							
Asset Name	Location	Type	Size	DESIGN CFM	CFM(1)	FINAL CFM	% to design
7-6-1	HOTELING OFFICE 2054		8	200			-
7-6-2	OFFICE 2053		8	175			-
7-6-3	CORRIDOR		8	200			-
7-6-4	OFFICE 2052		8	200			-
7-6-5	HOTELING OFFICE 200		8	200			-
Total				975	0	0	0%

ZD-7/

Asset							
Asset Name	Location	Type	Size	DESIGN CFM	CFM(1)	FINAL CFM	% to design
7-7-1	CORRIDOR		8	200			-
7-7-2	LOUNGE 2064A		12	400			-
7-7-3	PANTRY 2064B		6	100			-
7-7-4	BREAK ROOM 2064		12	400			-
Total				1100	0	0	0%

National TAB

Project: Kona NASK 2nd FL (Beavercreek, OH)

System/Unit: AHU/RTU



Asset: RTU-8

AREA:

Unit Data	
	Actual
MFG	CARRIER
Serial Num	
Model Num	48FEEM20B2A6
Configuration	VERTICAL
Num OA Filters 1	
OA Filter Size 1	
Num PreFilter 1	
PreFilter Size 1	

Motor Data	
	Actual
Motor MFG	
Frame	
Horsepower	
Motor Rpm	
Phase	
Rated Voltage	
Rated Amperage	
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
SF CFM	7000	
SF RPM	1768	
RA CFM	5600	
OA CFM	1400	
Relief CFM	-	
RL Voltage	460	
RL Amperage	3	
OA Damper Position	-	
Brake Horse Power	3.95	

Performance Data		
	Design	Actual
MA Plenum SP	-	
Fan Suction SP	-	
Fan Discharge SP	-	
Total ESP	1.00	
Fan Total SP	-	
Cooling Coil P.D.	-	
OA Temp (db/wb)	-	
RA Temp (db/wb)	-	
MA Temp (db/wb)	-	
SA Temp (db/wb)	-	

National TAB

Project: Kona NASK 2nd FL (Beavercreek, OH)

AHU/RTU



VAV - Single Duct

RTU-8/

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)
ZD-1	NA	NA			2175						
ZD-2	NA	NA			1050						
ZD-3	NA	NA			1225						
ZD-4	NA	NA			1400						
ZD-5	NA	NA			1150						

Diffuser Ret/Exh (GRD)

RTU-8/

Asset									
Asset Name	Location	Type	Size	DESIGN CFM	AK	CFM(1)	FINAL CFM	% to design	
R8-1	CORRIDOR		12	650				-	
R8-2	BREAK RM 2015		12	500				-	
R8-3	BREAK RM 2015		12	500				-	
R8-4	CONFERENCE 2016		14	700				-	
R8-5	CONFERENCE 2016		14	700				-	
R8-6	LOBBY 201		14	900				-	
R8-7	CORRIDOR		12	650				-	
Total				4600		0	0	0%	

Diffuser Supply (GRD)

ZD-1/

Asset							
Asset Name	Location	Type	Size	DESIGN CFM	CFM(1)	FINAL CFM	% to design
8-1-1	CORRIDOR		10	300			-
8-1-2	CORRIDOR		12	400			-
8-1-3	CORRIDOR		10	300			-
8-1-4	CORRIDOR		6	75			-
8-1-5	LOBBY 201		12	350			-
8-1-6	LOBBY 201		12	350			-
8-1-7	STAIR 1 S1-2		12	400			-
Total				2175	0	0	0%

ZD-2/

Asset							
Asset Name	Location	Type	Size	DESIGN CFM	CFM(1)	FINAL CFM	% to design
8-2-1	STORAGE 2011		6	75			-
8-2-2	STORAGE 2013		6	75			-
8-2-3	CORRIDOR		8	200			-
8-2-4	2005		10	300			-
8-2-5	RECEPTION 2001		8	200			-
8-2-6	WOMEN'S 2003		8	200			-
Total				1050	0	0	0%

ZD-3/

Asset							
Asset Name	Location	Type	Size	DESIGN CFM	CFM(1)	FINAL CFM	% to design
8-3-1	2012		8	200			-
8-3-2	H.OFFICE 2014		8	200			-
8-3-3	STOR. 2015A		10X4	75			-
8-3-4	BREAK RM 2015		12	375			-
8-3-5	BREAK RM 2015		12	375			-
Total				1225	0	0	0%

ZD-4/

Asset							
Asset Name	Location	Type	Size	DESIGN CFM	CFM(1)	FINAL CFM	% to design
8-4-1	CONFERENCE 2016		12	375			-
8-4-2	CONFERENCE 2016		12	375			-
8-4-3	CONFERENCE 2016		12	375			-
8-4-4	CONFERENCE 2016		12	375			-
Total				1500	0	0	0%

ZD-5/

Asset							
Asset Name	Location	Type	Size	DESIGN CFM	CFM(1)	FINAL CFM	% to design
8-5-1	OFFICE 2018		12	350			-
8-5-2	HOTELING OFFICE 2019		10	250			-
8-5-3	CORRIDOR		8	200			-
8-5-4	OFFICE 2021		12	350			-
Total				1150	0	0	0%

National TAB

Project: Kona NASK 2nd FL (Beavercreek, OH)

System/Unit: FAN - Exhaust



Asset: REF-1

AREA:

Unit Data	
	Actual
MFG	GREENHECK
Model Num	G-130-VG
Serial Num	
Type	CRE

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	115	
RL Amperage	6.4	
Suction ESP	-	
Discharge ESP	-	
Total ESP	0.5	
Brake Horse Power	-	

National TAB

Project: Kona NASK 2nd FL (Beavercreek, OH)

FAN - Exhaust



Diffuser Ret/Exh (GRD)

REF-1/

Asset								
Asset Name	Location	Type	Size	DESIGN CFM	AK	CFM(1)	FINAL CFM	% to design
E1-1	RR 2005		10	350				-
E1-2	WOMEN'S 2003		10	250				-
E1-3	JAN. 2004		10X4	50				-
Total				650		0	0	0%

National TAB

Project: Kona NASK 2nd FL (Beavercreek, OH)

System/Unit: FAN - Exhaust



Asset: REF-2

AREA:

Unit Data	
	Actual
MFG	GREENHECK
Model Num	G-099-VG
Serial Num	
Type	CRE

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

Test Data		
	Design	Actual
CFM	800	
Motor Frequency	-	
System SetPt	-	
RL Voltage	115	
RL Amperage	2.85	
Suction ESP	-	
Discharge ESP	-	
Total ESP	0.5	
Brake Horse Power	-	