

Report By:

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



Report: Bruegger's CVG
Function: Test, Adjust, & Balance
Date: 02/04/2025
Completed By: National TAB

PROJECT
Bruegger's (CVG - Hebron, KY)

2939 Terminal Drive Concourse B

Hebron, KY 41048

Client

Project One
28985 N 120th Dr
Peoria, AZ 85383

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Project: Bruegger's (CVG - Hebron, KY)

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Project: Bruegger's (CVG - Hebron, KY)
System/Unit: AHU/RTU



Asset: RTU-1

AREA:ROOF

Unit Data		
	Design	Actual
MFG	NA	YORK
Serial Num	-	N2B4153342
Model Num	NA	ZJ102N18R4D1
Configuration	-	VERTICAL
OA Filter Size 1	-	1-31"x23"
Num PreFilter 1	-	4
PreFilter Size 1	-	20"x24"x2"

Test Data		
	Design	Actual
SF CFM	-	2697
RA CFM	-	2697
OA CFM	-	0
RL Voltage	-	483/483/485
RL Amperage	-	3.5 VFD
SF Motor Freq(HZ)	-	60HZ
SF System SetPt	-	100%
Min OA Damper Position	-	0%
Brake Horse Power	-	2.6

Motor Data		
	Design	Actual
Motor MFG	-	BALDOR
Frame	-	56HZ
Horsepower	-	3
Motor Rpm	-	1750
Phase	-	3
Rated Voltage	-	460
Rated Amperage	-	4.1
Service Factor	-	1.15

Performance Data		
	Design	Actual
MA Plenum SP	-	-0.59"
Fan Suction SP	-	-0.73"
Fan Discharge SP	-	0.85"
Total ESP	-	1.44"
Fan Total SP	-	1.58"

Drive Data	
	Actual
Motor Sheave Size	1VM50
Motor Bore Size	7/8
Motor Sheave SetPt	NA
Fan Sheave Size	7"
Fan Sheave Bore	1"
Belt CL Distance	20"
Num of Belts	1
Belt Size	A54

Completed By: Gabe Merk on 02/04/2025

Notes:
Excessive supply air temp cooling warning.
UNIT OVESIZED FOR THE SPACE AND DESIGNED AIRFLOW.

Written By: Gabe Merk on 02/04/2025

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Project:Bruegger's (CVG - Hebron, KY)

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	BACK OF HOUSE	B	12	500	334	690	138.0
RTU-1-SGRD2	BACK OF HOUSE	B	12	500	282	733	146.6
RTU-1-SGRD3	BACK OF HOUSE	B	12	500	276	590	118.0
RTU-1-SGRD4	FRONT OF HOUSE	B	12	500	322	684	136.8
Total				2000	1214	2697	134.85%

Completed By: Gabe Merk on 02/04/2025

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Project: Bruegger's (CVG - Hebron, KY)
System/Unit: FAN - Exhaust



Asset: EF1

AREA:

Unit Data		
	Design	Actual
MFG	NA	CAPTIVEAIRE
Model Num	NA	NCA10FA
Serial Num	-	1625316
Type	-	UPBLAST

Test Data		
	Design	Actual
CFM	-	1835

Motor Data		
	Design	Actual
Horsepower	-	0.5
Phase	-	3
Voltage (rated)	-	208
Amperage (rated)	-	1.8

Completed By: Gabe Merk on 02/04/2025

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Project: Bruegger's (CVG - Hebron, KY)

VAV-Fan Powered Box



VAV/

Asset		
Asset Name	Design Max Cool CFM	Max Cool CFM
FPB1	1000	357

Completed By: Gabe Merk on 02/04/2025

Asset	Notes	Date	Written By
FPB1	EXISTING FAN POWERED VAV CONNECTED TO LARGER AIRPORT SUPPLY. UNABLE TO CONTROL. READ AS IS.	02/04/2025	Gabe Merk

Diffuser Supply (GRD)

FPB1/

Asset					
Asset Name	Location	Type	Size	DESIGN CFM	FINAL CFM
FPB1-SGRD1	BACK OF HOUSE	B	12	500	200
FPB1-SGRD2	BACK OF HOUSE	B	12	500	157
Total				1000	357

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Project: Bruegger's (CVG - Hebron, KY)

VAV-Fan Powered Box



VAV/

Asset		
Asset Name	Design Max Cool CFM	Max Cool CFM
FPB2	1000	1046

Completed By: Gabe Merk on 02/04/2025

Asset	Notes	Date	Written By
FPB2	EXISTING FAN POWERED VAV CONNECTED TO LARGER AIRPORT SUPPLY. UNABLE TO CONTROL. READ AS IS.	02/04/2025	Gabe Merk

Diffuser Supply (GRD)

FPB2/

Asset					
Asset Name	Location	Type	Size	DESIGN CFM	FINAL CFM
FPB2-SGRD1	FRONT OF HOUSE	B	12	500	684
FPB2-SGRD2	FRONT OF HOUSE	B	12	500	362
Total				1000	1046