Report By:

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

Report: Diversey Report 6/5/25

Function: Test, Adjust, & Balance

Date: 06/05/2025

Completed By: National TAB

PROJECT

Diversey (Florence, KY)

7900 Foundation Dr

Florence, KY 41042

Client

Thomas J. Dyer Company

5240 Lester Road

Cincinnati, OH 45213

National TAB

Project: Diversey (Florence, KY)

Table Of Contents

Issue List

- EF-PO-12 CFM Value High

Diversey (Florence, KY)

Project Issue Information

Issue Name :	EF-PO-12 CFM Value High		
Description :	Opening and ductwork in the space is inaccessible so fan curve was used @ 0.83bhp & 0.11'' static pressure. Unit is at 4173 actual / 3000 design. No speed controller on the 3-phase unit		
Created By :	National TAB	**Assigned To :**	National TAB - Joe Hertenstein
Status :	Open		
Priority :	Urgent	**Asset Tag :**	
Originated Date :	06/05/2025 - Aaron Cosby - National TAB		

National TAB

Project: Diversey (Florence, KY)

System/Unit: AHU/RTU

Asset: AHU-1.1 AREA:MEZZANINE

Unit Data		
	Design	**Actual**
MFG	NA	GREENHECK
Serial Num	-	26052167
Model Num	NA	RV-45-25I-N-E2
Configuration	-	VERTICAL
Num PreFilter 1	-	3
PreFilter Size 1	-	16X20X2
Num PreFilter 2	-	6
PreFilter Size 2	-	20X20X2

Motor Data		
	Design	**Actual**
Motor MFG	-	BALDOR
Frame	-	184T
Horsepower	5.0	5
Motor Rpm	-	1750
Phase	3	3
Rated Voltage	460	230
Rated Amperage	-	13.2
Service Factor	-	1.15

Test Data		
	Design	**Actual**
SF CFM	6000	6338
SF RPM	-	1604
OA CFM	6000	6338
RL Voltage	460	417 VFD
RL Amperage	-	6.1 VFD
VFD Max SetPt	-	55hz
SF System SetPt	-	91.7%
OA Damper Position	-	100%
Brake Horse Power	-	4.58

Performance Data		
	Design	**Actual**
MA Plenum SP	-	-0.51”
Fan Suction SP	-	-1.29”
Fan Discharge SP	-	0.83”
Total ESP	2.0	1.34”
Fan Total SP	2.952	2.12”
Pre-Filter P.D.	-	0.78”*

Completed By: Aaron Cosby on 06/05/2025

Notes:
4 OA FILTERS 23X23
*PREFILTER AND COOLING COIL DROP COMBINED.

Written By: Gabe Merk on 06/05/2025

National TAB

Project:Diversey (Florence, KY)

AHU/RTU

Diffuser Supply (GRD)

AHU-1.1/MEZZANINE

Asset							
Asset Name	**Location**	**Type**	**Size**	**DESIGN CFM**	**CFM(1)**	**FINAL CFM**	**% to design**
SGRD1	FLOOR 1		18	1500	1606	1606	107.1
SGRD2	MEZZANINE	SG-1	24X10	1000	1019	1019	101.9
SGRD3	MEZZANINE	SG-1	24X10	1000	1089	1089	108.9
SGRD4	MEZZANINE	SG-1	24X10	1000	1039	1039	103.9
SGRD5	FLOOR 1		18	1500	1585	1585	105.7
Total				6000	6338	6338	105.63%

National TAB

Project: Diversey (Florence, KY)

System/Unit: FAN - Exhaust

Asset: EF-PO-11 AREA:

Unit Data		
	Design	**Actual**
MFG	NA	GREENHECK
Model Num	NA	CUE-180-10-V6
Serial Num	-	19469521
Type	-	UPBLAST

Motor Data		
	Design	**Actual**
Motor MFG	-	BALDOR
Frame	-	143T
Horsepower	-	1
Motor Rpm	-	1800
Phase	-	3
Voltage (rated)	-	230
Amperage (rated)	-	2.4
Service Factor	-	1

Test Data		
	Design	**Actual**
CFM	3000	2757
Fan RPM	-	NA
RL Voltage	-	161
RL Amperage	-	2.2
Suction ESP	-	-0.33”
Discharge ESP	-	ATM
Total ESP	-	0.33”
Brake Horse Power	-	0.92

Completed By: Aaron Cosby on 06/05/2025

Notes:
VOLTAGE AND AMPERAGE TAKEN FROM 3 PHASE WIRING FROM CONTROLLER TO THE MOTOR.

Written By: Gabe Merk on 06/05/2025

National TAB

Project:Diversey (Florence, KY)

FAN - Exhaust

Diffuser Ret/Exh (GRD)

EF-PO-11/

Asset									
Asset Name	**Location**	**Type**	**Size**	**DESIGN CFM**	**AK**	**CFM(1)**	**CFM(2)**	**FINAL CFM**	**% to design**
EF-PO-11-EGRD4	MEZZANINE	EG	10"	1000	1	969	969	927	92.7
EF-PO-11-EGRD5	MEZZANINE	EG	10"	1000	1	1021	1021	917	91.7
EF-PO-11-EGRD6	MEZZANINE	EG	10"	1000	1	864	864	913	91.3
Total				3000		2854	2854	2757	91.9%

National TAB

Project: Diversey (Florence, KY)

System/Unit: FAN - Exhaust

Asset: EF-PO-12 AREA:

Unit Data		
	Design	**Actual**
MFG	NA	GREENHECK
Model Num	NA	CUE-180-10-V6
Serial Num	-	19469519
Type	-	UPBLAST

Motor Data		
	Design	**Actual**
Motor MFG	-	BALDOR
Frame	-	143T
Horsepower	-	1
Motor Rpm	-	1800
Phase	-	3
Voltage (rated)	-	230
Amperage (rated)	-	2.4
Service Factor	-	1

Test Data		
	Design	**Actual**
CFM	-	4173[1]
Fan RPM	-	INACCESSIBLE
RL Voltage	-	158/158/158
RL Amperage	-	2.0/2.0/2.0
Suction ESP	-	-0.11”
Discharge ESP	-	ATM
Total ESP	-	0.11”
Brake Horse Power	-	0.83

Completed By: Aaron Cosby on 06/05/2025

Notes:
VOLTAGE AND AMPERAGE TAKEN FROM 3 PHASE WIRING FROM CONTROLLER TO THE MOTOR.
[1] DUE TO DUCTWORK BEING OUT OF REACH THERE WAS NO WAY TO DIRECTLY READ AIRFLOW TO THE FAN. CFM DERIVED BY USING PERFORMANCE DATA AND COMPARING TO THE FAN CURVE SUPPLIED BY THE MANUFACTURER.

Written By: Gabe Merk on 06/05/2025