

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

Section	Page #
AHU/RTU	3
FAN - Exhaust	5
Issue Data	8

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

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

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

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				1000	1	969	969	927	92.7
EF-PO-11-EGRD5				1000	1	1021	1021	917	91.7
EF-PO-11-EGRD6				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
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

Notes:

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

Written By: Gabe Merk on 06/05/2025

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