

Report By:

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



Report: TRANSCENDIA Preliminary TAB

Function: Test, Adjust, & Balance

Date: 05/29/2025

Completed By: National TAB

PROJECT

Transcendia (Richmond, IN)

300 Industrial Parkway

Richmond, IN 47374

Client

Mechanical Services & Design (MSD)

4401 Springfield St

Dayton, OH 45431

National TAB

Project: Transcendia (Richmond, IN)

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National TAB

Project: Transcendia (Richmond, IN)
System/Unit: AHU/RTU



Asset: RTU-1

AREA:

Unit Data		
	Design	Actual
MFG	NA	CARRIER
Serial Num	-	5024P15606
Model Num	NA	50 FE-N20A2A6
Configuration	-	VERTICAL
Num OA Filters 1	-	4
OA Filter Size 1	-	25"x16"
Num PreFilter 1	-	6
PreFilter Size 1	-	20"x25"x2"

Motor Data		
	Design	Actual
Horsepower	-	2.4x2
Phase	3	3
Rated Voltage	460	460
Rated Amperage	-	3.0x2

Test Data		
	Design	Actual
SF CFM	7000	7125
SF RPM (Initial)	-	8.6DCV
SF RPM	1730	7.6DCV
RA CFM	6300	6360
OA CFM	700	765
RL Voltage	460	470/466/469
RL Amperage	-	3.2/3.9/3.1
OA Damper Position	-	4.8 DCV
Brake Horse Power	3.83	1.4x2

Performance Data		
	Design	Actual
Fan Suction SP	-	-0.87"
Fan Discharge SP	-	0.07"
Total ESP	1.0	0.32"
Fan Total SP	-	0.94"
Pre-Filter P.D.	-	0.52"*

Completed By: Gabe Merk on 05/29/2025

Notes:
*PREFILTER AND COOLING COIL PD COMBINED.

Written By: Gabe Merk on 05/29/2025

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Project: Transcendia (Richmond, IN)
System/Unit: AHU/RTU



Asset: RTU-2

AREA:

Unit Data		
	Design	Actual
MFG	NA	CARRIER
Serial Num	-	5024P15608
Model Num	NA	50FE-N20A2A6
Configuration	-	VERTICAL
Num OA Filters 1	-	4
OA Filter Size 1	-	16"x25"
Num PreFilter 1	-	6
PreFilter Size 1	-	20"x25"x2"

Motor Data		
	Design	Actual
Horsepower	-	2.4x2
Phase	3	3
Rated Voltage	460	460
Rated Amperage	-	3.0x2

Test Data		
	Design	Actual
SF CFM	7000	6783
SF RPM (Initial)	-	8.4 DCV
SF RPM	1730	7.6 DCV
RA CFM	6300	6040
OA CFM	700	743
RL Voltage	460	464/469/468
RL Amperage	-	3.3/4.0/3.1
OA Damper Position	-	5.6 DCV
Brake Horse Power	3.83	1.4x2

Performance Data		
	Design	Actual
Fan Suction SP	-	-0.86"
Fan Discharge SP	-	0.05"
Total ESP	1.0	0.30"
Fan Total SP	-	0.91"
Pre-Filter P.D.	-	0.61"*

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Notes:

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Written By: Gabe Merk on 05/29/2025

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Project: Transcendia (Richmond, IN)
System/Unit: AHU/RTU



Asset: RTU-3

AREA:

Unit Data		
	Design	Actual
MFG	NA	CARRIER
Serial Num	-	5024P15607
Model Num	NA	50FE-N20A2A6
Configuration	-	VERTICAL
Num OA Filters 1	-	4
OA Filter Size 1	-	16"x25"
Num PreFilter 1	-	6
PreFilter Size 1	-	20"x25"x2"

Motor Data		
	Design	Actual
Horsepower	-	2.4x2
Phase	3	3
Rated Voltage	460	460
Rated Amperage	-	3.0x2

Test Data		
	Design	Actual
SF CFM	7000	6707
SF RPM (Initial)	-	9.3 DCV
SF RPM	1730	7.6 DCV
RA CFM	6300	6028
OA CFM	700	679
RL Voltage	460	469/463/467
RL Amperage	-	3.2/4.0/3.2
OA Damper Position	-	5.8 DCV
Brake Horse Power	3.83	1.4x2

Performance Data		
	Design	Actual
Fan Suction SP	-	-0.77"
Fan Discharge SP	-	0.05"
Total ESP	1.0	0.22"
Fan Total SP	-	0.82"
Pre-Filter P.D.	-	0.60"*

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Notes:

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Project: Transcendia (Richmond, IN)
System/Unit: AHU/RTU



Asset: RTU-4

AREA:

Unit Data		
	Design	Actual
MFG	NA	CARRIER
Serial Num	-	5024P15605
Model Num	NA	50FE-N20A2A6
Configuration	-	VERTICAL
Num OA Filters 1	-	4
OA Filter Size 1	-	16"x25"
Num PreFilter 1	-	6
PreFilter Size 1	-	20"x25"x2"

Motor Data		
	Design	Actual
Horsepower	-	2.4x2
Phase	3	3
Rated Voltage	460	460
Rated Amperage	-	3x2

Test Data		
	Design	Actual
SF CFM	7000	6707
SF RPM (Initial)	-	9.3 DCV
SF RPM	1730	7.6 DCV
RA CFM	6300	6046
OA CFM	700	661
RL Voltage	460	464/467/468
RL Amperage	-	3.3/4.1/3.2
OA Damper Position	-	4.6 DCV
Brake Horse Power	3.83	1.4x2

Performance Data		
	Design	Actual
Fan Suction SP	-	-0.83"
Fan Discharge SP	-	0.06"
Total ESP	1.0	0.22"
Fan Total SP	-	0.89"
Pre-Filter P.D.	-	0.67"*

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