

Report By:

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

NATIONAL

TAB

Comfort. Under control.

Report: Test, Adjust, & Balance

Date: 5/16/2022

PROJECT

05-09 CULVERS - DECATUR, AL

2009 6TH AVE SE

DECATUR, AL 35601

Client

400 Ross Ave

Schofield, WI 54476

National TAB

Project: 05-09 CULVERS - DECATUR, AL

Table Of Contents

Section	Page #
Issue Data	3
Balance Schedule	5
Pictures	6
Checklist Data	14



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Project Issue Information

Issue Name : PRV1 conduit too short

Description : Conduit is too short to tilt fan back. Can only tilt fan an inch from curb

Created By : National TAB

Assigned To : National TAB - Will Turnbough

Status : Open

Originated Date : 05/09/2022 - Wendy Biggs - National TAB

Project Issue File Details



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AIR BALANCE SCHEDULE

UNIT	AREA SERVED	HVAC SUPPLY		HVAC RETURN		HVAC OUTDOOR		OA %		HOOD MAKE-UP		HOOD EXHAUST		GENERAL EXH.	
		DESIGN	ACTUAL	DESIGN	ACTUAL	DESIGN	ACTUAL	DESIGN	ACTUAL	DESIGN	ACTUAL	DESIGN	ACTUAL	DESIGN	ACTUAL
RTU-1	DINING	6900	6391	4945	4402	1955	1989	28.3%	31.1%						
RTU-2	KITCHEN	6225	5736	4575	4018	1650	1718	26.5%	30.0%						
PRV-1	RESTROOM													300	313
PRV-2	HD1 GRIDDLE											1500	1561		
PRV-3	HD2 FRYER											1500	1553		
EF-1A (2)	MOP ROOM/ EMP. RR													150	97
TOTALS		13125	12127	9520	8420	3605	3707			0	0	3000	3114	450	410

NET BUILDING AIRFLOW CALCULATION

TOTALS	DESIGN	ACTUAL
TOTAL OA	3605	3707
TOTAL EXHAUST	3450	3524
NET AIRFLOW	155	183

DOOR TESTED	BUILDING PRESSURE MEASUREMENTS (IN. H2O)
FRONT	0.0117
SIDE	0.0126
REAR	0.0032
AVERAGE	0.0092

FINAL CHECKS

- ACTUAL NET AIRFLOW COINCIDES WITH DESIGN:
- MEASURED PRESSURES COINCIDES WITH ACTUAL NET AIRFLOW:
- PRESSURE FALLS WITHIN IMC TOLERANCE OF +/-0.02" W.C.

NOTES:

[1] ADDED 200CFM OF OA TO RTU-2 TO OBTAIN POSITIVE BUILDING PRESSURE.



STOREFRONT



RTU1 DINING

Unit picture



RTU2 KITCHEN

Unit picture



PRV1 RESTROOMS

Unit picture



PRV2 GRIDDLE

Unit picture



PRV3 FRYER

Unit picture



ROOFTOP



HD1 GRIDDLE

Unit picture



HD2 FRYER

Unit picture



EF1A EMPLOYEE RESTROOM

Unit picture

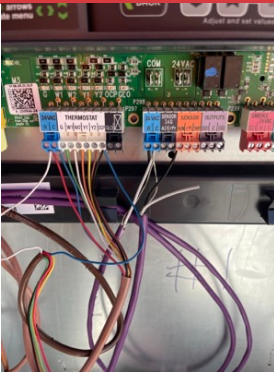


EF1A MOP ROOM

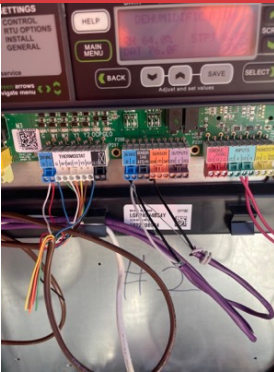
Unit picture



THERMOSTATS



RTU1 HUMIDITY WIRING



RTU2 HUMIDITY WIRING



EF1A RR SETPOINT

Set point for speed controller on the exhaust fan in the employee restroom. Set to max



PRV1 RR SETPOINT

Speed Setpoint for restroom exhaust fan



STOREFRONT



RTU1 DINING

Unit picture



RTU2 KITCHEN

Unit picture



PRV1 RESTROOMS

Unit picture



PRV2 GRIDDLE

Unit picture



PRV3 FRYER

Unit picture



ROOFTOP



HD1 GRIDDLE

Unit picture



HD2 FRYER

Unit picture



EF1A EMPLOYEE RESTROOM

Unit picture

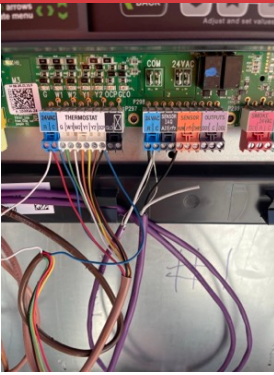


EF1A MOP ROOM

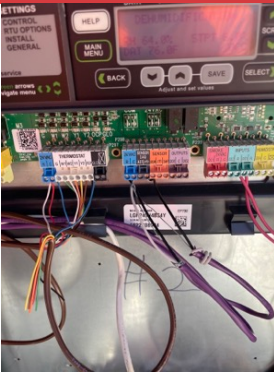
Unit picture



THERMOSTATS



RTU1 HUMIDITY WIRING



RTU2 HUMIDITY WIRING



EF1A RR SETPOINT

Set point for speed controller on the exhaust fan in the employee restroom. Set to max



PRV1 RR SETPOINT

Speed Setpoint for restroom exhaust fan



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CheckList Information

Name : TECH - STEP 1: INITIAL WALKTHROUGH **Status :** NotSubmitted
Assigned Organization : National TAB **Asset :**
Requesting Organization : National TAB

CheckList Item Details

INITIAL SITE WALKTHROUGH

All diffusers and grilles are installed and match design?	YES // Diffuser 1-4 was not installed on further inspection. This was resolved by mechanical.
Perforated diffusers are installed on the cook line? (4-ways will disrupt hood capture)	YES
All hood filters installed and accounted for?	YES
Hoods are wired and have power?	YES
Thermostats have power?	YES
Have trades/general contractor been notified about any issues and are they created on FaciliBuild?	YES

Notes/Comments :



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05-09 CULVERS - DECATUR, AL

CheckList Information

Name :	TECH - STEP 2: UNIT DATA AND EVAL	Status :	NotSubmitted
Assigned Organization :	National TAB	Asset :	
Requesting Organization :	National TAB		

CheckList Item Details

UNIT DATA AND EVALUATION WHILE GATHERING UNIT DATA CHECK THE FOLLOWING:

RTU's/AHU's

Economizers are assembled and functional?	YES
Thermostat wire run from OCP on the RTU to the Ec terminal at the thermostat? If no, jumper can be installed from R to OCP temporarily. (The economizers will not open without OCP being energized.)	YES
Motors are all operating below the FLA rating?	YES
Are belts tight?	YES // BELTS ARE TOO TIGHT. WILL NEED A BIGGER SIZE
If direct drive unit is the speed controller working.	N/A
Is gas piping installed and valves turned on?	YES
Unit free of noticeable noise and vibration	YES

EF's

Rotation is correct?	Yes
Belts are tight?	YES
Grease cup installed on hood fan?	Yes
Hinge kit installed installed on hood fan?	YES
Lean grease rated fans back. Is grease duct installation adequate and is duct ran all the way to the base of the fan?	YES PRV3. NO PRV2 CANNOT TILT FAN BACK

Flex conduit is long enough so that fan can be completely tilted back?	YES PRV2 PRV3 NO PRV1
There is no major leakage around base of fan?	YES, NO MAJOR LEAKAGE
Is the motor operating below the motor FLA rating?	YES
For restroom fan(s) is the back draft damper installed and can it fully open?	CANNOT VISIBLY SEE BACKDRAFT DAMPER DUE TO CONDUIT BEING SHORT ON PRV1. MECHANICAL SAYS IT IS INSTALLED
Unit free of noticeable noise and vibration?	NO PRV2 GRINDS WHEN TURNING // MECHANICAL HAS FIXED THIS ISSUE 5/11/22
The hood exhaust fans are installed in correct positions and are not switched?	Yes

HOODS

Kitchen equipment installed in proper places?	Yes
Can kitchen equipment be turned on for final smoke test?	Yes
Second stage Grease Grabber filters are installed on the griddle hood?	Yes

DOCUMENTATION

Have trades/general contractor been notified about any issues and are they created on FaciliBuild?	Yes
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Notes/Comments :



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05-09 CULVERS - DECATUR, AL

CheckList Information

Name : TECH - STEP 3: TEST, ADJUST AND BALANCE **Status :** NotSubmitted

Assigned Organization : National TAB **Asset :**

Requesting Organization : National TAB

CheckList Item Details

TEST, ADJUST, AND BALANCE ALL EQUIPMENT:

DURING TESTING MAKE NOTE OF THE FOLLOWING:

Is space free of drafting?	Yes
Is space comfortable in all areas?	Yes
Is the space free of ventilation noise?	Yes
If deviations from design were necessary to resolve 1-3 what were they? Otherwise put "NA".	NA

Notes/Comments :



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CheckList Information

Name : TECH - STEP 4: FINAL TESTS **Status :** NotSubmitted
Assigned Organization : National TAB **Asset :**
Requesting Organization : National TAB

CheckList Item Details

FINAL TESTS

HOOD CAPTURE TEST

List equipment turned on for testing	Griddle. No oil in fryer
List smoke candle type used	45 Second Smoke Emitter
Smoke test capture - Perimeter of hood	100%
Smoke test capture - Top of cooking surface	100%

WITNESS

Date test was completed	05/11/2022
TAB tech name / Firm	Jacob Davidson
Site super name / Firm	John Moryn
Owner representative name / Firm (if Applicable)	Campbell Construction
Building pressure at front & back doors (All Systems On)	

ADDITIONAL

Do actual net building airflow, design net building airflow, and pressure coincide? If not why? (All three should either be positive or negative)	
Thermostats are programmed?	Yes

PRODIGY SETTINGS FOR RTU'S

Parameter 65 set to 0	Yes
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Parameter 78 set to 0	Yes
Parameter 105 set to 6	Yes
Parameter 156 set to 70 (Dining unit only)	Yes
Parameter 156 set to 65 (Kitchen Unit Only)	Yes
Parameter 170 set to 75 (Dining Unit Only)	Yes
Parameter 170 set to 70 (Kitchen Unit Only)	Yes
Parameter 131 set to the same % as OA minimum position?	
Parameter 117 set to the same % as OA minimum position?	

Notes/Comments :

Thermostats are programmed, however temperature sensor seems not to be functioning properly. Have to leave in cooling