**Report By:**

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

**Report: TAB REPORT**

**Function: Test, Adjust, & Balance**

**Date: 01/29/2025**

**Completed By: National TAB**

# PROJECT

## 01-20-25 CULVERS AVON PARK, FL

1023 US HWY 27 NORTH

AVON PARK, FL 33825

Client

Accurex

PO Box 410

Schofield, WI 54476

# National TAB

**Project: 01-20-25 CULVERS AVON PARK, FL**

## Table Of Contents

## Project Summary

The summary below provides a quick understanding of our scope of work and general testing procedures. Enclosed in the report is further detail about your building performance including recommendations, asset data, and pictures. Our focus is to work with the trades to remedy any issues or deficiencies during the actual field balancing and not after the balancing has occurred to achieve a positive environment and outcome. The level of success is determined by the availability of the trades, possible parts needed, or time constraints.

RTU's (Roof Top Units)
Each of the RTU's were measured at their terminal devices or via traverse to establish a total flow for that unit. Each RTU was adjusted to within tolerance of the engineer's design flow. Each outlet was then adjusted to within tolerance of the design flow. Outside air was measured by reading the intake air opening with a velocity grid and multiplying by the free area. The outside air damper was adjusted until the airflow was within the design requirements. Any equipment that fell outside of that tolerance is noted throughout the report.

Kitchen Exhaust Hood & Associated Fans
Each kitchen exhaust fan was measured at the hood filter bay utilizing a velocity matrix and a manufacturer's correction factor. Each filter velocity is multiplied by the manufacturer's corrected area. The sum of these readings equals the total flow of the exhaust fans. The total flow of the exhaust was then adjusted to within tolerance of the design flow.

General Exhaust Fans
The general exhaust fans were measured by reading each air device with a flow hood. The total airflow for each fan is equivalent to the sum of these readings. Fan speed was then adjusted so that the airflow was within tolerance of design. Each terminal device was balanced to within tolerance of the design volume using the installed volume dampers. Any equipment that fell outside of this tolerance is noted throughout the report.

Final Building Tests
After completing the test and balance the final building pressure was measured. It was confirmed that the building pressure fell within acceptable tolerances of -0.02" wc to +0.02" wc and that the pressure measurement coincides with the actual and design net airflow. Any deviations from these standards are noted throughout the report.
The hood capture was tested at the perimeter of the hood and the cook top level with the equipment heat on to ensure satisfactory hood capture and containment.

## Issue List

- Diffuser 2-9 - Low Flow
- Hoods - Not Sealed At Ceiling
- PRV 4 - High Flow

## 01-20-25 CULVERS AVON PARK, FL

### Project Issue Information

**Issue Name :** Diffuser 2-9 - Low Flow

**Description :** Supply diffuser 2-9 (mop room) is outputting 395 CFM (72% design). Damper is fully open. Not expected to cause comfort issues in the surrounding space.

| | | | |
|---|---|---|---|
| **Created By :** | National TAB | **Assigned To :** | National TAB - Will Turnbough |
| **Status :** | Open | | |
| **Priority :** | Medium | **Asset Tag :** | SGRD9 |
| **Originated Date :** | 01/24/2025 - Mark Johnson - National TAB | | |

Project Issue Response Details

- **01/24/2025 National TAB - Mark Johnson**
  - Ductwork was originally restricted due to several hard 90 transitions near the diffuser. Mechanical rerouted the ductwork and installed a scoop at the branch takeoff, however, it provided a negligible airflow increase (10-15 CFM).

## 01-20-25 CULVERS AVON PARK, FL

### Project Issue Information

**Issue Name :** Hoods - Not Sealed At Ceiling

**Description :** All hoods have a small gap between the top enclosure and the ceiling grid. Recommend sealing.

| | | | |
|---|---|---|---|
| **Created By :** | National TAB | **Assigned To :** | National TAB - Will Turnbough |
| **Status :** | Open | | |
| **Priority :** | Low | **Asset Tag :** | HD1 |
| **Originated Date :** | 01/24/2025 - Mark Johnson - National TAB | | |

Project Issue File Details

**01/24/2025**

**01-20-25 CULVERS AVON PARK, FL**

## Project Issue Information

| | | | |
|---|---|---|---|
| **Issue Name :** | PRV 4 - High Flow | | |
| **Description :** | PRV 4 (dishwasher hood fan) is outputting 432 CFM (123% design). Fan is wired to the lowest speed setting (1050 RPM). Will require a speed controller to slow the fan further. | | |
| **Created By :** | National TAB | **Assigned To :** | National TAB - Will Turnbough |
| **Status :** | Open | | |
| **Priority :** | High | **Asset Tag :** | PRV4 |
| **Originated Date :** | 01/24/2025 - Mark Johnson - National TAB | | |

NATIONAL TAB

## 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 | 5200 | 5302 | 3200 | 3276 | 2000 | 2026 | 38.5% | 38.2% | | | | | | |
| RTU-2 | KITCHEN | 5000 | 4963 | 3000 | 3051 | 2000 | 1912 | 40.0% | 38.5% | | | | | | |
| PRV-2 | HOOD1 | | | | | | | | | | | 1500 | 1515 | | |
| PRV-3 | HOOD2 | | | | | | | | | | | 1500 | 1506 | | |
| PRV-4 | HOOD3 | | | | | | | | | | | 350 | 432 | | |
| EF1 | RESTROOM | | | | | | | | | | | | | 220 | 223 |
| EF2 | RESTROOM | | | | | | | | | | | | | 50 | 51 |
| EF3 | RESTROOM | | | | | | | | | | | | | 210 | 201 |
| **TOTALS** | | 10200 | 10265 | 6200 | 6327 | 4000 | 3938 | | | 0 | 0 | 3350 | 3453 | 480 | 475 |

**NET BUILDING AIRFLOW CALCULATION**

| TOTALS | DESIGN | ACTUAL |
|---|---|---|
| TOTAL OA | 4000 | 3938 |
| TOTAL EXHAUST | 3830 | 3928 |
| **NET AIRFLOW** | 170 | 10 |

| DOOR TESTED | BUILDING PRESSURE MEASUREMENTS (IN. H20) |
|---|---|
| FRONT | 0.0039 |
| SIDE | - |
| REAR | 0.001 |
| **AVERAGE** | **0.0025** |

**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:

# CheckList List

- 01: RTUs/AHUs
- 02: EF'S
- 03.HOOD 1
- 04.HOOD 2
- 05.HOOD 3
- 06: FINAL TEST

## 01-20-25 CULVERS AVON PARK, FL

### CheckList Information

| | | | |
|---|---|---|---|
| **Name :** | 01: RTUs/AHUs | **Status :** | Completed |
| **Assigned Organization :** | National TAB | **Asset :** | |
| **Requesting Organization :** | National TAB | | |
| **Created Date :** | 01/20/2025 - Wale Odofin - National TAB | | |
| **Completed Date :** | 01/23/2025 - Mark Johnson - National TAB | | |

### CheckList Item Details

**RTU's/AHU's**

| | |
|---|---|
| **Thermostats installed and have power?** | Pass |
| **Comment:** | |
| **All diffusers and grilles are installed and match design?** | Pass |
| **Comment:** | |
| **Cookline diffusers have at 12-18" of straight duct out of the top of the diffusers and a rigid 90 degree fitting?** | Pass |
| **Comment:** | |
| **Economizers are assembled and functional?** | Pass |
| **Comment:** | |
| **Motors are all operating below the FLA rating?** | Pass |
| **Comment:** | |
| **Are belts tight?** | N/A |
| **Comment:** Direct Drive | |

| | |
|---|---|
| **If direct drive unit is the speed controller working?** | Pass |
| **Comment:** | |
| **Is gas piping installed and valves turned on?** | N/A |
| **Comment:** | |
| **Unit free of noticeable noise and vibration** | Pass |
| **Comment:** | |

# 01-20-25 CULVERS AVON PARK, FL

## CheckList Information

| | | | |
|---|---|---|---|
| **Name :** | 02: EF'S | **Status :** | Completed |
| **Assigned Organization :** | National TAB | **Asset :** | |
| **Requesting Organization :** | National TAB | | |
| **Created Date :** | 01/20/2025 - Wale Odofin - National TAB | | |
| **Completed Date :** | 01/23/2025 - Mark Johnson - National TAB | | |

## CheckList Item Details

**EF's**

| | |
|---|---|
| **Rotation is correct?** | Pass |
| **Comment:** | |
| **Belts are tight?** | N/A |
| **Comment:** | |
| Direct Drive | |
| **Hinge kit installed installed on hood fan?** | Pass |
| **Comment:** | |
| **Lean fan back. Is grease duct installation adequate and is duct ran all the way to the base of the fan?** | Pass |
| **Comment:** | |
| **Flex conduit is long enough so that fan can be completely tilted back?** | Pass |
| **Comment:** | |
| **There is no major leakage around base of fan?** | Pass |
| **Comment:** | |

| | |
|---|---|
| **Is the motor operating below the motor FLA rating?** | Pass |
| **Comment:** | |
| **For restroom fan(s) is the back draft damper installed and can it fully open?** | Pass |
| **Comment:** | |
| **Unit free of noticeable noise and vibration?** | Pass |
| **Comment:** | |

# 01-20-25 CULVERS AVON PARK, FL

## CheckList Information

| | | | |
|---|---|---|---|
| **Name :** | 03.HOOD 1 | **Status :** | Completed |
| **Assigned Organization :** | National TAB | **Asset :** | |
| **Requesting Organization :** | National TAB | | |
| **Created Date :** | 01/20/2025 - Wale Odofin - National TAB | | |
| **Completed Date :** | 01/24/2025 - Mark Johnson - National TAB | | |

## CheckList Item Details

**HD-1**

| | |
|---|---|
| **Is the hood powered and free of alarms?** | Pass |
| **Comment:** | |
| **Does hood label match submittal?** | Pass |
| **Comment:** | |
| **Do hood dimensions match submittal?** | Pass |
| **Comment:** | |
| **Is the hood hung Level?** | Pass |
| **Comment:** | |
| **Are hood lights installed and are they powered?** | N/A |
| **Comment:** | |
| **Are temperature Sensors installed?** | Pass |
| **Comment:** | |
| **Are the correct number and size of filters installed, and are they installed correctly?** | Pass |

**Comment:**

| | |
|---|---|
| **Is the grease cup installed?** | Pass |

**Comment:**

| | |
|---|---|
| **Are side splashes/skirts installed and do they match the submittal?** | Pass |

**Comment:**

| | |
|---|---|
| **Is the backsplash installed and does it match the submittal?** | Pass |

**Comment:**

| | |
|---|---|
| **Are ceiling enclosures installed and do they match the submittal?** | Pass |

**Comment:**

| | |
|---|---|
| **Does the appliance line-up match the drawings on submittal?** | Pass |

**Comment:**

**Document any other issues or discrepancies.**

**Comment:**

Top of enclosure not sealed against ceiling

**01/24/2025**

**HOOD CAPTURE TEST**

**List equipment turned on for testing:**

**Comment:**

None

**Smoke Test Capture - Perimeter of Hood**

**Comment:**

100%

**Smoke Test Capture - Top of Cooking Surface**

**Comment:**

100%

**List smoke candle used:**

**Comment:**

45 sec. smoke candle

# 01-20-25 CULVERS AVON PARK, FL

## CheckList Information

| | | | |
|---|---|---|---|
| **Name :** | 04.HOOD 2 | **Status :** | Completed |
| **Assigned Organization :** | National TAB | **Asset :** | |
| **Requesting Organization :** | National TAB | | |
| **Created Date :** | 01/20/2025 - Wale Odofin - National TAB | | |
| **Completed Date :** | 01/24/2025 - Mark Johnson - National TAB | | |

## CheckList Item Details

**HD-2**

| | |
|---|---|
| **Is the hood powered and free of alarms?** | Pass |
| **Comment:** | |
| **Does hood label match submittal?** | Pass |
| **Comment:** | |
| **Do hood dimensions match submittal?** | Pass |
| **Comment:** | |
| **Is the hood hung Level?** | Pass |
| **Comment:** | |
| **Are hood lights installed and are they powered?** | N/A |
| **Comment:** | |
| **Are temperature Sensors installed?** | Pass |
| **Comment:** | |
| **Are the correct number and size of filters installed, and are they installed correctly?** | Pass |

**Comment:**

| | |
|---|---|
| **Is the grease cup installed?** | Pass |

**Comment:**

| | |
|---|---|
| **Are side splashes/skirts installed and do they match the submittal?** | Pass |

**Comment:**

| | |
|---|---|
| **Is the backsplash installed and does it match the submittal?** | Pass |

**Comment:**

| | |
|---|---|
| **Are ceiling enclosures installed and do they match the submittal?** | Pass |

**Comment:**

| | |
|---|---|
| **Does the appliance line-up match the drawings on submittal?** | Pass |

**Comment:**

**Document any other issues or discrepancies.**

**Comment:**

Top of enclosure not sealed against ceiling

**HOOD CAPTURE TEST**

**List equipment turned on for testing:**

**Comment:**

None

**Smoke Test Capture - Perimeter of Hood**

**Comment:**

100%

**Smoke Test Capture - Top of Cooking Surface**

**Comment:**

100%

**List smoke candle used:**

**Comment:**

45 sec. smoke candle

# 01-20-25 CULVERS AVON PARK, FL

## CheckList Information

| | | | |
|---|---|---|---|
| **Name :** | 05.HOOD 3 | **Status :** | Completed |
| **Assigned Organization :** | National TAB | **Asset :** | |
| **Requesting Organization :** | National TAB | | |
| **Created Date :** | 01/20/2025 - Wale Odofin - National TAB | | |
| **Completed Date :** | 01/24/2025 - Mark Johnson - National TAB | | |

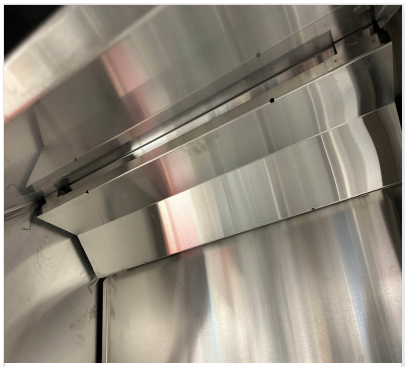
## CheckList Item Details

**HD-3**

| | |
|---|---|
| **Is the hood powered and free of alarms?** | Pass |
| **Comment:** | |
| **Does hood label match submittal?** | Pass |
| **Comment:** | |
| **Do hood dimensions match submittal?** | Pass |
| **Comment:** | |
| **Is the hood hung Level?** | Pass |
| **Comment:** | |
| **Are hood lights installed and are they powered?** | N/A |
| **Comment:** | |
| **Are temperature Sensors installed?** | N/A |
| **Comment:** | |
| **Are the correct number and size of filters installed, and are they installed correctly?** | Fail |

**Comment:**

Baffles not installed correctly (hooks at top of hood are defective from manufacturer)



**01/24/2025**

| | |
|---|---|
| **Is the grease cup installed?** | N/A |
| **Comment:** | |
| **Are side splashes/skirts installed and do they match the submittal?** | N/A |
| **Comment:** | |
| **Is the backsplash installed and does it match the submittal?** | N/A |
| **Comment:** | |
| **Are ceiling enclosures installed and do they match the submittal?** | Pass |
| **Comment:** | |
| **Does the appliance line-up match the drawings on submittal?** | Pass |
| **Comment:** | |

**Document any other issues or discrepancies.**

**Comment:**

Top of enclosure not sealed against ceiling

**01/24/2025**

**HOOD CAPTURE TEST**

**List equipment turned on for testing:**

**Comment:**

N/A

**Smoke Test Capture - Perimeter of Hood**

**Comment:**

N/A - Condensate Hood

**Smoke Test Capture - Top of Cooking Surface**

**Comment:**

N/A - Condensate Hood

**List smoke candle used:**

**Comment:**

N/A

# 01-20-25 CULVERS AVON PARK, FL

## CheckList Information

| | | | |
|---|---|---|---|
| **Name :** | 06: FINAL TEST | **Status :** | Completed |
| **Assigned Organization :** | National TAB | **Asset :** | |
| **Requesting Organization :** | National TAB | | |
| **Created Date :** | 01/20/2025 - Wale Odofin - National TAB | | |
| **Completed Date :** | 01/24/2025 - Mark Johnson - National TAB | | |

## CheckList Item Details

**FINAL CHECKS**

| | |
|---|---|
| **When hoods are turned off, verify the economizers shut** | N/A |
| **Comment:** Not tested | |
| **When hoods are turned on, verify the economizers open to the minimum position** | Pass |
| **Comment:** | |
| **Is space free of drafting?** | Pass |
| **Comment:** | |
| **Is space comfortable in all areas?** | Pass |
| **Comment:** | |
| **Is the space free of ventilation noise?** | Pass |
| **Comment:** | |

**HOOD CAPTURE TEST**

| |
|---|
| **List kitchen equipment turned on for testing** |

**Comment:**

None

**List smoke candle type used**

**Comment:**

45 sec. smoke candle

**Smoke test capture % - Perimeter of hood**

**Comment:**

Hood 1 - 100% / Hood 2 - 100%

**Smoke test capture % - Top of cooking surface**

**Comment:**

Hood 1 - 100% / Hood 2 - 100%

**WITNESS**

| | |
|---|---|
| **Date test was completed** | 01/23/2025 |

**Comment:**

**TAB tech name / Firm**

**Comment:**

Mark Johnson / NTi

**Site super name / Firm**

**Comment:**

**Owner representative name / Firm (if Applicable)**

**Comment:**

**BUILDING PRESSURE**

| | |
|---|---|
| **Do actual net building airflow, design net building airflow, and pressure coincide? If not why? (All three should either be positive or negative)** | Pass |

**Comment:**

# National TAB

**Project: 01-20-25 CULVERS AVON PARK, FL**

## System/Unit: AHU/RTU

**Asset: RTU1** AREA:DINING

| Unit Data | | |
|---|---|---|
| | **Design** | **Actual** |
| **MFG** | CAPTIVEAIRE | CAPTIVEAIRE |
| **Serial Num** | - | 6282185 |
| **Model Num** | CASTRUE452-2420TDOAS | CAS-HVAC3-E.452-24-20T |
| **Type** | RTU | RTU |
| **Configuration** | VERTICAL | VERTICAL |
| **Num OA Filters 1** | - | 4 |
| **OA Filter Size 1** | - | 16x25x2 |
| **Num Final Filter 1** | - | 8 |
| **Final Filter Size 1** | - | 20x25x2 |

| Motor Data | | |
|---|---|---|
| | **Design** | **Actual** |
| **Motor MFG** | - | TECO WESTINGHOUSE |
| **Frame** | - | 213T |
| **Horsepower** | - | 7.5 |
| **Motor Rpm** | - | 1755 |
| **Phase** | 3 | 3 |
| **Rated Voltage** | 208 | 208 |
| **Rated Amperage** | - | 21.1 |

| Drive Data | |
|---|---|
| | **Actual** |
| **Motor Sheave Size** | DD |
| **Motor Bore Size** | DD |
| **Motor Sheave SetPt** | DD |
| **Fan Sheave Size** | DD |
| **Fan Sheave Bore** | DD |
| **Belt CL Distance** | DD |
| **Num of Belts** | DD |
| **Belt Size** | DD |
| **Belt Alignment** | DD |

| Test Data | | |
|---|---|---|
| | **Design** | **Actual** |
| **SF CFM** | 5200 | 5302 |
| **SF RPM** | - | 1521 |
| **RA CFM** | 3200 | 3276 |
| **OA CFM** | 2000 | 2026 |
| **RL Voltage** | - | 179 VFD |
| **RL Amperage** | - | 18.9 VFD |
| **SF Rotation** | - | CCW |
| **SF System SetPt** | - | 52 HZ |
| **RA Damper Position** | - | 5.3 V |
| **Min OA Damper Position** | - | 4.7 V |
| **Min OA Damper Type** | - | ECONOMIZER |

| General | |
|---|---|
| | **Actual** |
| **Fan Rotation Correct** | YES |
| **Unit Filters Clean** | YES |
| **Condensate Drain Installed** | YES |

Completed By: Mark Johnson on 01/23/2025

## Unit Data - PHOTO LOG


**01/23/2025**

# National TAB

**Project:01-20-25 CULVERS AVON PARK, FL**

## AHU/RTU

**Diffuser Supply (GRD)**

**RTU1/DINING**

| Asset | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| **Asset Name** | **Location** | **Type** | **Size** | **DESIGN CFM** | **AK** | **CFM(1)** | **CFM(2)** | **FINAL CFM** | **% to design** |
| SGRD1 | ENTRY | A4 | 10" | 250 | 1 | 269 | 272 | 257 | 102.8 |
| SGRD2 | DRINKS & CONDIMENTS | A4 | 8" | 200 | 1 | 171 | 229 | 218 | 109.0 |
| SGRD3 | DRINKS & CONDIMENTS | A3 | 10" | 300 | 1 | 275 | 332 | 325 | 108.3 |
| SGRD4 | DINING | A3 | 10" | 300 | 1 | 262 | 329 | 321 | 107.0 |
| SGRD5 | DINING | A3 | 8" | 150 | 1 | 178 | 169 | 150 | 100.0 |
| SGRD6 | DINING | A4 | 10" | 250 | 1 | 319 | 261 | 268 | 107.2 |
| SGRD7 | DINING | A4 | 8" | 150 | 1 | 163 | 163 | 159 | 106.0 |
| SGRD8 | DINING | A4 | 10" | 275 | 1 | 306 | 294 | 295 | 107.3 |
| SGRD9 | DINING | A4 | 10" | 275 | 1 | 218 | 318 | 267 | 97.1 |
| SGRD10 | DINING | A3 | 8" | 150 | 1 | 206 | 174 | 158 | 105.3 |
| SGRD11 | DINING | A4 | 8" | 200 | 1 | 185 | 214 | 219 | 109.5 |
| SGRD12 | DINING | A4 | 10" | 300 | 1 | 257 | 322 | 324 | 108.0 |
| SGRD13 | DINING | A4 | 10" | 250 | 1 | 227 | 269 | 263 | 105.2 |
| SGRD14 | DINING | A4 | 10" | 300 | 1 | 159 | 231 | 270 | 90.0 |
| SGRD15 | DINING | A4 | 8" | 200 | 1 | 123 | 175 | 183 | 91.5 |
| SGRD16 | ENTRY | A4 | 6" | 100 | 1 | 70 | 80 | 91 | 91.0 |
| SGRD17 | MEN'S RR | C3 | 6" | 75 | 1 | 68 | 104 | 76 | 101.3 |
| SGRD18 | WOMEN'S RR | C3 | 6" | 75 | 1 | 66 | 104 | 77 | 102.7 |
| SGRD19 | HALL | A4 | 10" | 300 | 1 | 201 | 295 | 298 | 99.3 |
| SGRD20 | CUSTOMER SERVICE | A4 | 8" | 200 | 1 | 127 | 182 | 181 | 90.5 |
| SGRD21 | CUSTOMER SERVICE | A4 | 8" | 200 | 1 | 116 | 165 | 183 | 91.5 |
| SGRD22 | CUSTOMER SERVICE | A4 | 8" | 200 | 1 | 172 | 245 | 206 | 103.0 |
| SGRD23 | CUSTOMER SERVICE | A4 | 8" | 200 | 1 | 178 | 260 | 204 | 102.0 |
| SGRD24 | CUSTOMER ORDER | A4 | 10" | 300 | 1 | 272 | 336 | 309 | 103.0 |
| Total | | | | 5200 | | 4588 | 5523 | 5302 | 101.96% |

# National TAB

**Project: 01-20-25 CULVERS AVON PARK, FL**

## System/Unit: AHU/RTU

**Asset: RTU2** AREA:KITCHEN

| Unit Data | | |
|---|---|---|
| | **Design** | **Actual** |
| **MFG** | CAPTIVEAIRE | CAPTIVEAIRE |
| **Serial Num** | - | 6282185 |
| **Model Num** | CASTRUE452-2420TDOAS | CAS-HVAC3-E.452-24-20T |
| **Type** | RTU | RTU |
| **Configuration** | VERTICAL | VERTICAL |
| **Num OA Filters 1** | - | 4 |
| **OA Filter Size 1** | - | 16x25x2 |
| **Num Final Filter 1** | - | 8 |
| **Final Filter Size 1** | - | 20x25x2 |

| Motor Data | | |
|---|---|---|
| | **Design** | **Actual** |
| **Motor MFG** | - | TECO WESTINGHOUSE |
| **Frame** | - | 213T |
| **Horsepower** | - | 7.5 |
| **Motor Rpm** | - | 1755 |
| **Phase** | - | 3 |
| **Rated Voltage** | - | 208 |
| **Rated Amperage** | - | 21.1 |

| Drive Data | |
|---|---|
| | **Actual** |
| **Motor Sheave Size** | DD |
| **Motor Bore Size** | DD |
| **Motor Sheave SetPt** | DD |
| **Fan Sheave Size** | DD |
| **Fan Sheave Bore** | DD |
| **Belt CL Distance** | DD |
| **Num of Belts** | DD |
| **Belt Size** | DD |
| **Belt Alignment** | DD |

| Test Data | | |
|---|---|---|
| | **Design** | **Actual** |
| **SF CFM** | 5000 | 4963 |
| **SF RPM** | - | 1404 |
| **RA CFM** | 3000 | 3051 |
| **OA CFM** | 2000 | 1912 |
| **RL Voltage** | - | 149 VFD |
| **RL Amperage** | - | 18.3 VFD |
| **SF Rotation** | - | CCW |
| **SF System SetPt** | - | 48 HZ |
| **RA Damper Position** | - | 5.0 V |
| **Min OA Damper Position** | - | 5.0 V |
| **Min OA Damper Type** | - | ECONOMIZER |

| General | |
|---|---|
| | **Actual** |
| **Fan Rotation Correct** | YES |
| **Unit Filters Clean** | YES |
| **Condensate Drain Installed** | YES |

Completed By: Mark Johnson on 01/23/2025

## Unit Data - PHOTO LOG


**01/23/2025**

# National TAB

**Project:01-20-25 CULVERS AVON PARK, FL**

## AHU/RTU

**Diffuser Supply (GRD)**

**RTU2/KITCHEN**

| Asset | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| **Asset Name** | **Location** | **Type** | **Size** | **DESIGN CFM** | **AK** | **CFM(1)** | **CFM(2)** | **FINAL CFM** | **% to design** |
| SGRD1 | COOKLINE | E4 | 10" | 300 | 1 | 298 | 304 | 319 | 106.3 |
| SGRD2 | COOKLINE | E4 | 10" | 350 | 1 | 369 | 377 | 357 | 102.0 |
| SGRD3 | COOKLINE | E4 | 10" | 300 | 1 | 296 | 302 | 314 | 104.7 |
| SGRD4 | COOKLINE | E4 | 10" | 300 | 1 | 269 | 275 | 323 | 107.7 |
| SGRD5 | COOKLINE | E4 | 10" | 350 | 1 | 368 | 376 | 369 | 105.4 |
| SGRD6 | COOKLINE | E4 | 10"' | 300 | 1 | 321 | 328 | 313 | 104.3 |
| SGRD7 | DRIVE THRU | A4 | 12" | 500 | 1 | 383 | 391 | 456 | 91.2 |
| SGRD8 | SUNDAE PREP | A4 | 9" | 275 | 1 | 333 | 340 | 277 | 100.7 |
| SGRD9 | MOP ROOM | E4 | 12" | 550 | 1 | 282 | 288 | 395 | 71.8 |
| SGRD10 | OFFICE | D1 | 9" | 300 | 1 | 198 | 202 | 309 | 103.0 |
| SGRD11 | DISHWASHING | A4 | 9" | 300 | 1 | 404 | 413 | 315 | 105.0 |
| SGRD12 | DISHWASHING | A4 | 10" | 350 | 1 | 366 | 374 | 350 | 100.0 |
| SGRD13 | DISHWASHING | A4 | 10" | 300 | 1 | 265 | 271 | 315 | 105.0 |
| SGRD14 | DRY GOODS | A4 | 8" | 200 | 1 | 191 | 195 | 216 | 108.0 |
| SGRD15 | DRY GOODS | A4 | 8" | 150 | 1 | 168 | 172 | 162 | 108.0 |
| SGRD16 | EMPLOYEE RR | C1 | 4" | 25 | 1 | 44 | 45 | 24 | 96.0 |
| SGRD17 | UTILITY ROOM | D1 | 7" | 150 | 1 | 86 | 88 | 149 | 99.3 |
| Total | | | | 5000 | | 4641 | 4741 | 4963 | 99.26% |

# National TAB

**Project: 01-20-25 CULVERS AVON PARK, FL**

## System/Unit: FAN - Exhaust

**Asset: EF1** AREA:MEN'S RESTROOM

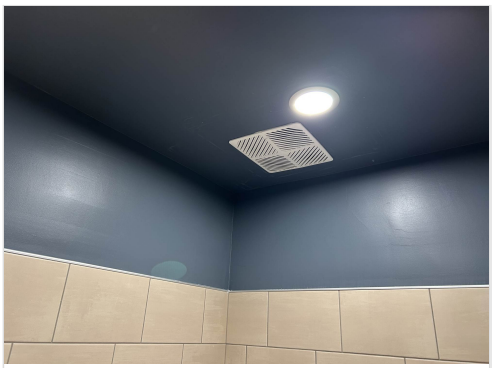
| Unit Data | | |
|---|---|---|
| | **Design** | **Actual** |
| **MFG** | ACCUREX | ACCUREX |
| **Model Num** | XCR-A200 | XCR-A200 |
| **Serial Num** | - | 25037577 |
| **Type** | CEILING | CEILING |
| **Configuration** | VERTICAL | VERTICAL |

| Motor Data | | |
|---|---|---|
| | **Design** | **Actual** |
| **Motor MFG** | - | GREENHECK |
| **Frame** | - | NL |
| **Horsepower** | - | 1/40 |
| **Motor Rpm** | - | 900 |
| **Phase** | 1 | 1 |
| **Voltage (rated)** | 115 | 115 |
| **Amperage (rated)** | - | 0.46 |
| **Service Factor** | - | NL |

| Test Data | | |
|---|---|---|
| | **Design** | **Actual** |
| **CFM** | 220 | 223 |
| **Fan RPM** | 831 | 900 |
| **Fan Rotation** | - | CCW |
| **Motor RPM** | - | 900 |
| **System SetPt** | - | MAX |
| **RL Voltage** | - | 123 |
| **RL Amperage** | - | 0.4 |

Completed By: Mark Johnson on 01/21/2025

### Unit Data - PHOTO LOG



**01/22/2025**

# National TAB

**Project: 01-20-25 CULVERS AVON PARK, FL**

## System/Unit: FAN - Exhaust

**Asset: EF2** AREA:MOP ROOM

| Unit Data | | |
|---|---|---|
| | **Design** | **Actual** |
| **MFG** | ACCUREX | ACCUREX |
| **Model Num** | XCR-B50 | XCR-B50 |
| **Serial Num** | - | 25037578 |
| **Type** | CEILING | CEILING |
| **Configuration** | VERTICAL | VERTICAL |

| Motor Data | | |
|---|---|---|
| | **Design** | **Actual** |
| **Motor MFG** | - | GREENHECK |
| **Frame** | - | NL |
| **Horsepower** | - | NL |
| **Motor Rpm** | - | 625 |
| **Phase** | 1 | 1 |
| **Voltage (rated)** | 115 | 115 |
| **Amperage (rated)** | - | 0.13 |
| **Service Factor** | - | NL |

| Test Data | | |
|---|---|---|
| | **Design** | **Actual** |
| **CFM** | 50 | 51 |
| **Fan RPM** | 523 | HIGH |
| **Fan Rotation** | - | CCW |
| **Motor RPM** | - | HIGH |
| **System SetPt** | - | SPEED CONTROLLER (MARKED) |
| **RL Voltage** | - | 119 |
| **RL Amperage** | - | 0.1 |

Completed By: Mark Johnson on 01/21/2025

### Unit Data - PHOTO LOG

**01/22/2025**

# National TAB

**Project: 01-20-25 CULVERS AVON PARK, FL**

## System/Unit: FAN - Exhaust

**Asset: EFA3** AREA:WOMEN'S RR (NARROW STALL)

| Unit Data | | |
|---|---|---|
| | **Design** | **Actual** |
| **MFG** | ACCUREX | ACCUREX |
| **Model Num** | XCR-B70 | XCR-B70 |
| **Serial Num** | - | 25037579 |
| **Type** | CEILING | CEILING |
| **Configuration** | VERTICAL | VERTICAL |

| Motor Data | | |
|---|---|---|
| | **Design** | **Actual** |
| **Motor MFG** | - | GREENHECK |
| **Frame** | - | NL |
| **Horsepower** | - | NL |
| **Motor Rpm** | - | 675 |
| **Phase** | 1 | 1 |
| **Voltage (rated)** | 115 | 115 |
| **Amperage (rated)** | - | 0.15 |
| **Service Factor** | - | NL |

| Test Data | | |
|---|---|---|
| | **Design** | **Actual** |
| **CFM** | 70 | 63 |
| **Fan RPM** | 644 | 675 |
| **Fan Rotation** | - | CCW |
| **Motor RPM** | - | 675 |
| **System SetPt** | - | MAX |
| **RL Voltage** | - | 121 |
| **RL Amperage** | - | 0.15 |

Completed By: Mark Johnson on 01/21/2025

### Unit Data - PHOTO LOG

**01/22/2025**

# National TAB

**Project: 01-20-25 CULVERS AVON PARK, FL**

## System/Unit: FAN - Exhaust

**Asset: EFB3** AREA:WOMEN'S RR (LARGE STALL)

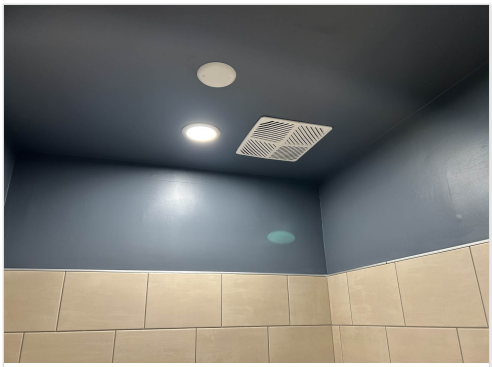
| Unit Data | | |
|---|---|---|
| | **Design** | **Actual** |
| **MFG** | ACCUREX | ACCUREX |
| **Model Num** | XCR-B70 | XCR-B70 |
| **Serial Num** | - | 25037581 |
| **Type** | CEILING | CEILING |
| **Configuration** | VERTICAL | VERTICAL |

| Motor Data | | |
|---|---|---|
| | **Design** | **Actual** |
| **Motor MFG** | - | GREENHECK |
| **Frame** | - | NL |
| **Horsepower** | - | NL |
| **Motor Rpm** | - | 675 |
| **Phase** | 1 | 1 |
| **Voltage (rated)** | 115 | 115 |
| **Amperage (rated)** | - | 0.15 |
| **Service Factor** | - | NL |

| Test Data | | |
|---|---|---|
| | **Design** | **Actual** |
| **CFM** | 70 | 66 |
| **Fan RPM** | 644 | 675 |
| **Fan Rotation** | - | CCW |
| **Motor RPM** | - | 675 |
| **System SetPt** | - | MAX |
| **RL Voltage** | - | 122 |
| **RL Amperage** | - | 0.15 |

Completed By: Mark Johnson on 01/21/2025

### Unit Data - PHOTO LOG



**01/22/2025**

# National TAB

**Project: 01-20-25 CULVERS AVON PARK, FL**

## System/Unit: FAN - Exhaust

**Asset: EFC3** AREA:EMPLOYEE RR

| Unit Data | | |
|---|---|---|
| | **Design** | **Actual** |
| **MFG** | ACCUREX | ACCUREX |
| **Model Num** | XCR-B70 | XCR-B70 |
| **Serial Num** | - | 25037580 |
| **Type** | CEILING | CEILING |
| **Configuration** | VERTICAL | VERTICAL |

| Motor Data | | |
|---|---|---|
| | **Design** | **Actual** |
| **Motor MFG** | - | GREENHECK |
| **Frame** | - | NL |
| **Horsepower** | - | NL |
| **Motor Rpm** | - | 675 |
| **Phase** | 1 | 1 |
| **Voltage (rated)** | 115 | 115 |
| **Amperage (rated)** | - | 0.15 |
| **Service Factor** | - | NL |

| Test Data | | |
|---|---|---|
| | **Design** | **Actual** |
| **CFM** | 70 | 72 |
| **Fan RPM** | 644 | 675 |
| **Fan Rotation** | - | CCW |
| **Motor RPM** | - | 675 |
| **System SetPt** | - | MAX |
| **RL Voltage** | - | 122 |
| **RL Amperage** | - | 0.15 |

Completed By: Mark Johnson on 01/21/2025

### Unit Data - PHOTO LOG

**01/22/2025**

# National TAB

**Project: 01-20-25 CULVERS AVON PARK, FL**

## System/Unit: FAN - Exhaust

**Asset: PRV2** AREA:GRIDDLE HOOD

| Unit Data | | |
|---|---|---|
| | **Design** | **Actual** |
| **MFG** | ACCUREX | ACCUREX |
| **Model Num** | XCUE-140VG | XCUE-140-10-VG-1-26-G |
| **Serial Num** | - | 25038074 |
| **Type** | - | CENTRIFUGAL |
| **Configuration** | - | UPBLAST |

| Motor Data | | |
|---|---|---|
| | **Design** | **Actual** |
| **Motor MFG** | - | VARI-GREEN |
| **Frame** | - | NL |
| **Horsepower** | - | 1.0 |
| **Motor Rpm** | - | 300-1750 |
| **Phase** | - | 1 |
| **Voltage (rated)** | - | 115/208-230/277 |
| **Amperage (rated)** | - | 11.5/7.0/5.8 |
| **Service Factor** | - | NL |

| Test Data | | |
|---|---|---|
| | **Design** | **Actual** |
| **CFM** | 1500 | 1506 |
| **Fan RPM** | - | 1225 |
| **Fan Rotation** | - | CW |
| **Motor RPM** | - | 1225 |
| **System SetPt** | - | 7.0 V |
| **RL Voltage** | - | 123 |
| **RL Amperage** | - | 5.1 |
| **Total ESP** | - | 0.51” |
| **Fan Inlet SP** | - | -0.51” |
| **Fan Discharge SP** | - | ATM |

Completed By: Mark Johnson on 01/23/2025

### Unit Data - PHOTO LOG


**01/23/2025**

# National TAB

**Project: 01-20-25 CULVERS AVON PARK, FL**

## System/Unit: FAN - Exhaust

**Asset: PRV3** AREA:FRYER HOOD

| Unit Data | | |
|---|---|---|
| | **Design** | **Actual** |
| **MFG** | ACCUREX | ACCUREX |
| **Model Num** | XCUE-140VG | XCUE-140-10-VG-1-26-G |
| **Serial Num** | - | 25038076 |
| **Type** | - | CENTRIFUGAL |
| **Configuration** | - | UPBLAST |

| Motor Data | | |
|---|---|---|
| | **Design** | **Actual** |
| **Motor MFG** | - | VARI-GREEN |
| **Frame** | - | NL |
| **Horsepower** | - | 1.0 |
| **Motor Rpm** | - | 300-1750 |
| **Phase** | - | 1 |
| **Voltage (rated)** | - | 115/208-230/277 |
| **Amperage (rated)** | - | 11.5/7.0/5.8 |
| **Service Factor** | - | NL |

| Test Data | | |
|---|---|---|
| | **Design** | **Actual** |
| **CFM** | 1500 | 1515 |
| **Fan RPM** | - | 1068 |
| **Fan Rotation** | - | CW |
| **Motor RPM** | - | 1068 |
| **System SetPt** | - | 6.1 V |
| **RL Voltage** | - | 121 |
| **RL Amperage** | - | 3.4 |
| **Total ESP** | - | 0.35” |
| **Fan Inlet SP** | - | -0.35” |
| **Fan Discharge SP** | - | ATM |

Completed By: Mark Johnson on 01/23/2025

### Unit Data - PHOTO LOG


**01/23/2025**

# National TAB

**Project: 01-20-25 CULVERS AVON PARK, FL**

## System/Unit: FAN - Exhaust

**Asset: PRV4** AREA:DISHWASHER HOOD

| Unit Data | | |
|---|---|---|
| | **Design** | **Actual** |
| **MFG** | ACCUREX | ACCUREX |
| **Model Num** | XRED--095D | XRED-095-D-8-1-17-X |
| **Serial Num** | - | 25040535 |
| **Type** | - | DOWNBLAST |
| **Configuration** | - | VERTICAL |

| Motor Data | | |
|---|---|---|
| | **Design** | **Actual** |
| **Motor MFG** | - | GREENHECK |
| **Frame** | - | NL |
| **Horsepower** | - | 1/8 |
| **Motor Rpm** | - | 1550/1300/1050 |
| **Phase** | - | 1 |
| **Voltage (rated)** | - | 115 |
| **Amperage (rated)** | - | 2.6 |
| **Service Factor** | - | NL |

| Test Data | | |
|---|---|---|
| | **Design** | **Actual** |
| **CFM** | 350 | 432 |
| **Fan RPM** | - | 1050 |
| **Fan Rotation** | - | CW |
| **Motor RPM** | - | 1050 |
| **System SetPt** | - | LOW |
| **RL Voltage** | - | 123 |
| **RL Amperage** | - | 1.4 |
| **Total ESP** | - | 0.25” |
| **Fan Inlet SP** | - | -0.25” |
| **Fan Discharge SP** | - | ATM |

Completed By: Mark Johnson on 01/23/2025

### Unit Data - PHOTO LOG

**01/23/2025**

# National TAB

**Project: 01-20-25 CULVERS AVON PARK, FL**

## System/Unit: Kitchen Hood Type I

**Asset: HD1** AREA:FRYER

| Unit Data | | |
|---|---|---|
| | **Design** | **Actual** |
| **MFG** | ACCUREX | ACCUREX |
| **Model Num** | XGEP-64-S | XXEP-83.00-S |
| **Job / Serial Num** | - | 25038260 |
| **Type** | TYPE I | TYPE I LOW PROXIMITY |
| **Hood length** | 83" | 83” |
| **Hood Width** | 23" | 23” |

| Test Data Exhaust | | |
|---|---|---|
| | **Design** | **Actual** |
| **Filter Type** | X-TRACTOR | X-TRACTOR |
| **Filter Size 1** | 16X16 | 16X16 |
| **Filter Qty 1** | 5 | 5 |
| **Filter AK factor size 1** | 1.53 | 1.53 |
| **Filter Total AK Area** | 7.65 | 7.65 |
| **Filter1 FPM** | - | 229 |
| **Filter2 FPM** | - | 173 |
| **Filter3 FPM** | - | 182 |
| **Filter4 FPM** | - | 191 |
| **Filter5 FPM** | - | 215 |
| **Filter Ave FPM(corr)** | - | 198 |
| **CFM** | 1500 | 1515 |

| Cooking Equipment | |
|---|---|
| | **Actual** |
| **Item 1** | FRYER |

Completed By: Mark Johnson on 01/21/2025

### Unit Data - PHOTO LOG

**01/22/2025**

# National TAB

**Project: 01-20-25 CULVERS AVON PARK, FL**

## System/Unit: Kitchen Hood Type I

**Asset: HD2** AREA:GRIDDLE

| Unit Data | | |
|---|---|---|
| | **Design** | **Actual** |
| **MFG** | ACCUREX | ACCUREX |
| **Model Num** | XGEP-64-S | XGEP-64.00-S |
| **Job / Serial Num** | - | 25038267 |
| **Type** | - | TYPE I LOW PROXIMITY |
| **Hood length** | - | 64” |
| **Hood Width** | - | 23” |

| Test Data Exhaust | | |
|---|---|---|
| | **Design** | **Actual** |
| **Filter Type** | X-TRACTOR | X-TRACTOR |
| **Filter Size 1** | 16X16 | 16X16 |
| **Filter Qty 1** | 4 | 4 |
| **Filter AK factor size 1** | 1.53 | 1.53 |
| **Filter Total AK Area** | 6.12 | 6.12 |
| **Filter1 FPM** | - | 268 |
| **Filter2 FPM** | - | 231 |
| **Filter3 FPM** | - | 231 |
| **Filter4 FPM** | - | 256 |
| **Filter Ave FPM(corr)** | - | 246 |
| **CFM** | 1500 | 1506 |

| Cooking Equipment | |
|---|---|
| | **Actual** |
| **Item 1** | GRIDDLE |

Completed By: Mark Johnson on 01/21/2025

### Unit Data - PHOTO LOG

**01/22/2025**

# National TAB

**Project: 01-20-25 CULVERS AVON PARK, FL**

## System/Unit: Kitchen Hood Type II

**Asset: HD3** AREA:DISHWASHER

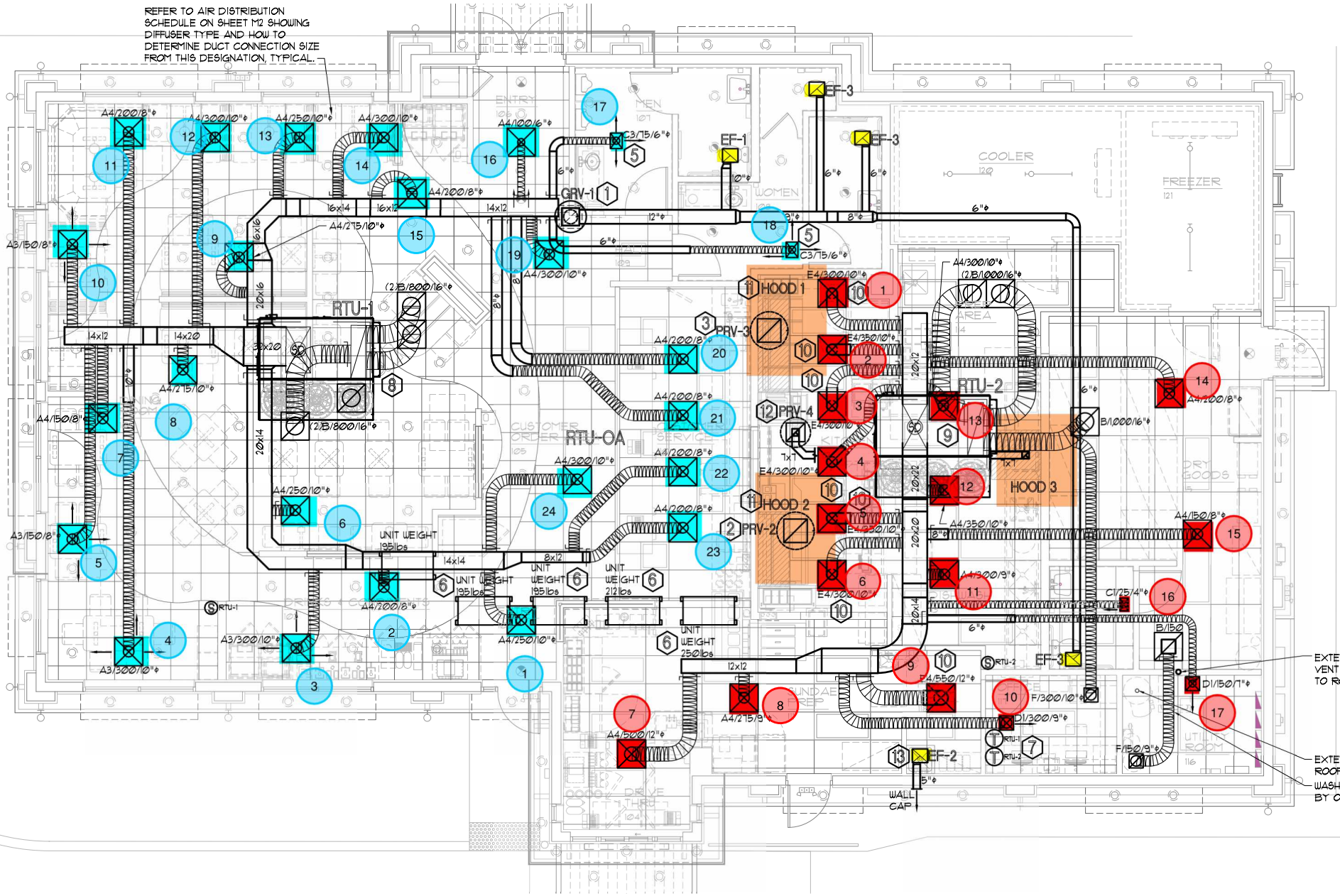
| Unit Data | | |
|---|---|---|
| | **Design** | **Actual** |
| **MFG** | ACCUREX | ACCUREX |
| **Model Num** | XD3-42-S | XD3-42.00-S |
| **Serial Num** | - | 25038231 |
| **Type** | - | TYPE II |
| **Hood length** | - | 42” |
| **Hood Width** | - | 42” |

| Test Data | | |
|---|---|---|
| | **Design** | **Actual** |
| **Exhaust CFM** | 350 | 432 |

Completed By: Mark Johnson on 01/22/2025

### Unit Data - PHOTO LOG

**01/22/2025**


REFER TO AIR DISTRIBUTION SCHEDULE ON SHEET M2 SHOWING DIFFUSER TYPE AND HOW TO DETERMINE DUCT CONNECTION SIZE FROM THIS DESIGNATION, TYPICAL.
RTU-1
RTU-OA
RTU-2
GRV-1
EF-1
EF-2
EF-3
PRV-2
PRV-3
PRV-4
HOOD 1
HOOD 2
HOOD 3
UNIT WEIGHT 195lbs
UNIT WEIGHT 212lbs
UNIT WEIGHT 250lbs
WALL CAP
COOLER
FREEZER
EXTEND 4"ϕ DRYER VENT UP THRU ROOF TO ROOF CAP.
EXTEND GAS FLUE UP THRU ROOF TO 3"ϕ CONCENTRIC WASHER & DRYER BY OWNER.



Date: 2/5/2025