**Report By:**

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

**Report: Prelim TAB Report**

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

**Date: 08/08/2024**

# PROJECT

## Kohls (Wesley Chapel, FL)

2160 GRAND CYPRESS DRIVE

LUTZ, FL 33559

Client

Air Temp Inc

52 Riley Road #260

Celebration, FL 34747

# National TAB

**Project: Kohls (Wesley Chapel, FL)**

## Table Of Contents

# National TAB

## Testing, Adjusting, and Balancing Equipment

| Function | | Range | Minimum Accuracy | Instrument Information | Calibration Date | Date Due |
|---|---|---|---|---|---|---|
| AIR | AIR PRESSURE | 0 in wg to 10 in wg | 2% +/- 0.001 in wg | Shortridge ADM-860C S/N M19547 | 10/17/2023 | 10/16/2024 |
| | AIR VELOCITY INSTRUMENT | 50 fpm to 3900 fpm | +/- 5 % +/- 7 fpm | Shortridge ADM-860C S/N M19548 | 10/17/2023 | 10/16/2024 |
| | DIRECT HOOD READING | 100 cfm to 2000 cfm | +/- 3 % +/- 7 cfm | Shortridge Flow Hood | 10/17/2023 | 10/16/2024 |
| TEMPERATURE | AIR METER | -20 F to 240 F | +/- .5 % 2 F | Cooper ATKINS - SRH77A S/N 081820093 | 10/20/2023 | 10/19/2024 |
| | AIR PROBE | -20 F to 240 F | +/- .5 % 2 F | Cooper ATKINS - PD1388 7-6 S/N 5028 | 10/20/2023 | 10/19/2024 |
| | IMMERSION METER | -20 F to 240 F | +/- .5 % 2 F | Cooper ATKINS - SRH77A S/N 081820093 | 10/20/2023 | 10/19/2024 |
| | IMMERSION PROBE | -20 F to 240 F | +/- .5 % 2 F | Cooper ATKINS - PD1388 7-6 S/N 1075 | 10/20/2023 | 10/19/2024 |
| | CONTACT METER | -20 F to 240 F | +/- .5 % 2 F | Cooper ATKINS - SRH77A S/N 081820093 | 10/20/2023 | 10/19/2024 |
| | CONTACT PROBE | -20 F to 240 F | +/- .5 % 2 F | Cooper ATKINS - PD1388 7-6 S/N 4011 | 10/20/2023 | 10/19/2024 |
| HUMIDITY | HUMIDITY PROBE | 10 % RH to 90 % RH | 3% of reading | Cooper ATKINS - SRH77A S/N 090315046 | 10/20/2023 | 10/19/2024 |
| ELECTRICAL | VOLTAGE MEASUREMENT | 0 VAC to 600 VAC | 2 % reading +/- 5 digits | Dwyer CM-1 - S/N 190800099 | 10/16/2023 | 10/15/2024 |
| | AMPERAGE MEASUREMENT | 0 Amperers to 100 Amperes | 2 % reading +/- 5 digits | Dwyer CM-1 - S/N 190800099 | 10/16/2023 | 10/15/2024 |
| ROTATION | ROTATION MEASUREMENT | 60 rpm to 5000 rpm | 2 % reading 2 rpm | Dwyer TAC-L - S/N S1100123 | 10/16/2023 | 10/15/2024 |
| HYDRONIC | PRESSURE MEASUREMENT | -30 in Hg to 200 psi | ±2% of reading +/- 1 psi | Dwyer 490W-6 - S/N 01L6NK | 6/3/2024 | 6/3/2025 |
| | DIFFERENTIAL PRESSURE MEASUREMENT | 0 psi - 80 psi | ±2% of reading +/- 1 psi | Dwyer 490W-6 - S/N 01L6NK | 6/3/2024 | 6/3/2025 |
| DALT | DUCT LEAKAGE | -10"- +10" wc | ±1% of reading +/- 0.004" wc | Kanomax DALT 6900 S/N: 080439 | 3/2024 | 3/1/2025 |



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# Abbreviation List

| | |
|---|---|
| A = Area ($ft^2$) | S.F. = Service Factor |
| AHU = Air Handling Unit | SF = Supply Fan |
| $A_k$ = Effective Area | SP = Static Pressure |
| BHP = Brake Horsepower (IP) HP | SR = Supply Register |
| Btu = British Thermal Unit | T = Temperature |
| Btu/h = Btuh = BTUH = BTU/Hour | $T_{ma}$ = Mixed Air Temperature |
| CL = Center Distance (used in belt formula) | $T_{oa}$ = Outside Air Temperature |
| CD = Ceiling Diffuser | $T_{ra}$ = Return Air Temperature |
| CF = Correction Factor | H = Head (in wc, ft wc, psi) |
| CFM = Volumetric Flow:  Cubic Feet Per Minute | h = Enthalpy |
| CO2 = Carbon Dioxide | HP = Horsepower |
| CO = Carbon Monoxide | hr = Hour |
| $C_v$ = Flow Constant | $K_v$ = Flow constant (SI) |
| d = Diameter (in.) IP | kW = Kilowatt = 1000 Watts |
| Δ = Difference or Change (Final - Initial) | LAT = Leaving Air Temperature |
| DB = Dry Bulb | lb = Pounds |
| EA = Exhaust Air | LWT = Leaving Water Temperature |
| EAT = Entering Air Temperature | ma = Mixed Air |
| EF = Exhaust Fan | MIN = Minimum |
| Eff = Efficiency | MAX = Maximum |
| EG = Exhaust Grille | N/A = Not Applicable |
| ESP = External Static Pressure | NA = No Access |
| EWT = Entering Water Temperature | NL = Not Listed |
| °F = Degrees Fahrenheit, °F | NPSHA = Net Positive Suction Head Available |
| FPB = Fan Powered Box | NS = Not Specified |
| FLA = Full Load Amps | OA = Outside Air |
| fpm = Feet per Minute (fpm) | OAT = Outside Air Temperature |
| ft = Foot | PD = Sheave Pitch Diameter |
| gal = Gallons | P.D. = Pressure Drop |
| GPM = Gallons Per Minute (GPM) | PF = Power Factor |
| h = Enthalpy (BTU/lb dry air) | SG = Supply Grille |
| P = Pressure | SR = Supply Register |
| ppm = parts per million | TP = Total Pressure |
| psi = Pounds Per Square Inch | $T_{ra}$ = Return Air Temperature |
| psid = PSI Differential | TS = Tip Speed (fpm) IP, (m/s) SI |
| r = Radius (in) | TSP = Total Static Pressure |
| % $_{ra}$ = % of Return Air | V = Velocity |
| RA = Return Air | VAV = Variable Air Volume |
| RAT = Return Air Temperature | VD = Volume Damper |
| RF = Return Fan | VFD = Variable Frequency Drive |
| RG = Return Grille | W = Watt |
| RH = Relative Humidity | WB = Wet Bulb |
| RPM = Revolutions Per Minute | wg = wc = water gauge = water column |
| RTU = Roof Top Unit | WHP = Water Horsepower (IP) |
| SA = Supply Air | ω = Humidity Ratio |

## DEMAND CONTROL VENTILATION

- THE DEMAND CONTROL VENTILATION SYSTEM SHALL OPERATE DURING ALL OCCUPIED HOURS. THE ECONOMIZER SHALL BE PROGRAMMED TO OVERRIDE THE DEMAND CONTROL VENTILATION WHEN FREE COOLING IS AVAILABLE.
- A PRE-OCCUPANCY PURGE OF THE SPACE AIR SYSTEM SHALL BE INCLUDED IN THE SEQUENCE OF OPERATIONS OF THE ROOFTOP UNIT EQUIPMENT.
- THE OUTSIDE AIR DAMPER SHALL BE SET TO PROVIDE THE MINIMUM VENTILATION RATE LISTED IN THE VENTILATION SCHEDULE AT THE MINIMUM DAMPER POSITION.
- HVAC SYSTEM SERVING STOCK ROOM WILL NOT HAVE DEMAND CONTROL VENTILATION SYSTEM.

CO2 CONTROL RANGE:

WHEN THE CO2 LEVEL OF 700 PPM ABOVE AMBIENT IS MEASURED BY THE SPACE CO2 SENSOR, THE OUTSIDE AIR DAMPER SHALL MODULATE OPEN TO MAINTAIN THE CO2 LEVEL AT NO MORE THAN 700 PPM ABOVE AMBIENT.

PRE-OCCUPANCY PURGE:

WHEN THE ROOFTOP UNIT STARTS, THE OUTDOOR AIR DAMPER SHALL OPEN, INITIATING A TIMED PURGE CYCLE. THE OUTDOOR AIR DAMPER SHALL MODULATE TO MAINTAIN THE MIXED AIRFLOW AT 30 PERCENT OUTDOOR AIR. THE PURGE PERIOD SHALL BE ADJUSTABLE AND SHALL INITIALLY BE SET FOR A MINIMUM OF 5 MINUTES.

THE ROOFTOP UNIT SHALL MODULATE ITS HEATING TO MAINTAIN THE DISCHARGE AIR TEMPERATURE SET POINT IF THE MIXED AIR TEMPERATURE FALLS BELOW THE ROOFTOP UNIT SPACE TEMPERATURE SET POINT. AT THE CONCLUSION OF THE TIMED CYCLE, THE OUTDOOR AIR DAMPER SHALL MODULATE CLOSED TO MAINTAIN THE BASE VENTILATION RATE OF OUTDOOR AIR (REFER TO VENTILATION SCHEDULE ON DRAWING M2), AND THE DEMAND CONTROL VENTILATION CONTROL ALGORITHM SHALL BE ENABLED.

OCCUPIED OPERATION:

ONE GLOBAL CO2 SENSOR SHALL MEASURE CO2 LEVEL OF OUTDOOR AIR. THERE SHALL BE MULTIPLE CO2 SENSORS SERVING THE RETAIL SPACE, WITH NO MORE THAN 25,000 SF OF RETAIL SPACE SERVED PER SENSOR, AND NO MORE THAN ONE FLOOR SERVED PER SENSOR. THERE SHALL BE ONE CO2 SENSOR SERVING THE OFFICE CORE. EACH SPACE CO2 SENSOR READING SHALL BE SENT TO BAS. CO2 READINGS SHALL BE COMPARED TO THE GLOBAL CO2 SENSOR AT BAS. IF THE READING FALLS BELOW THE CO2 SETPOINT, THE BAS SHALL SEND A SIGNAL TO ROOFTOP UNIT CONTROLLER TO MODULATE THE OUTDOOR AIR DAMPER TO BASE POSITION (MINIMUM VENTILATION RATE PER VENTILATION SCHEDULE ON DRAWING M2). UTILIZING A PROPORTIONAL-INTEGRAL (PI) LOOP TO MAINTAIN A CO2 CONCENTRATION LESS THAN OR EQUAL TO THE CO2 SETPOINT (REFER TO CO2 CONTROL RANGE).

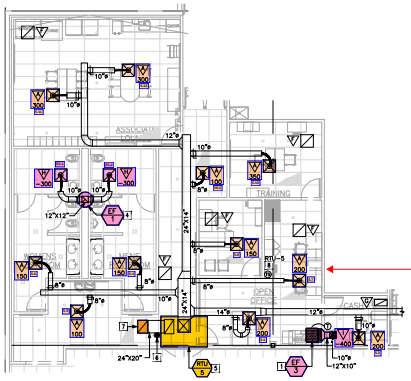
IF THE CO2 SENSOR READING IS ABOVE THE CO2 SETPOINT, BAS SHALL SIGNAL THE OUTDOOR AIR DAMPER CONTROLLER TO CONTINUE TO MODULATE DAMPERS OPEN UNTIL THE OCCUPIED VENTILATION RATE (MAXIMUM VENTILATION RATE PER VENTILATION SCHEDULE ON DRAWING M2) IS ACHIEVED.

THE ROOFTOP UNIT SHALL MODULATE ITS HEATING TO MAINTAIN THE DISCHARGE AIR TEMPERATURE SETPOINT IF THE MIXED AIR TEMPERATURE FALLS BELOW THE ROOFTOP UNIT SPACE THERMOSTAT SETPOINT.

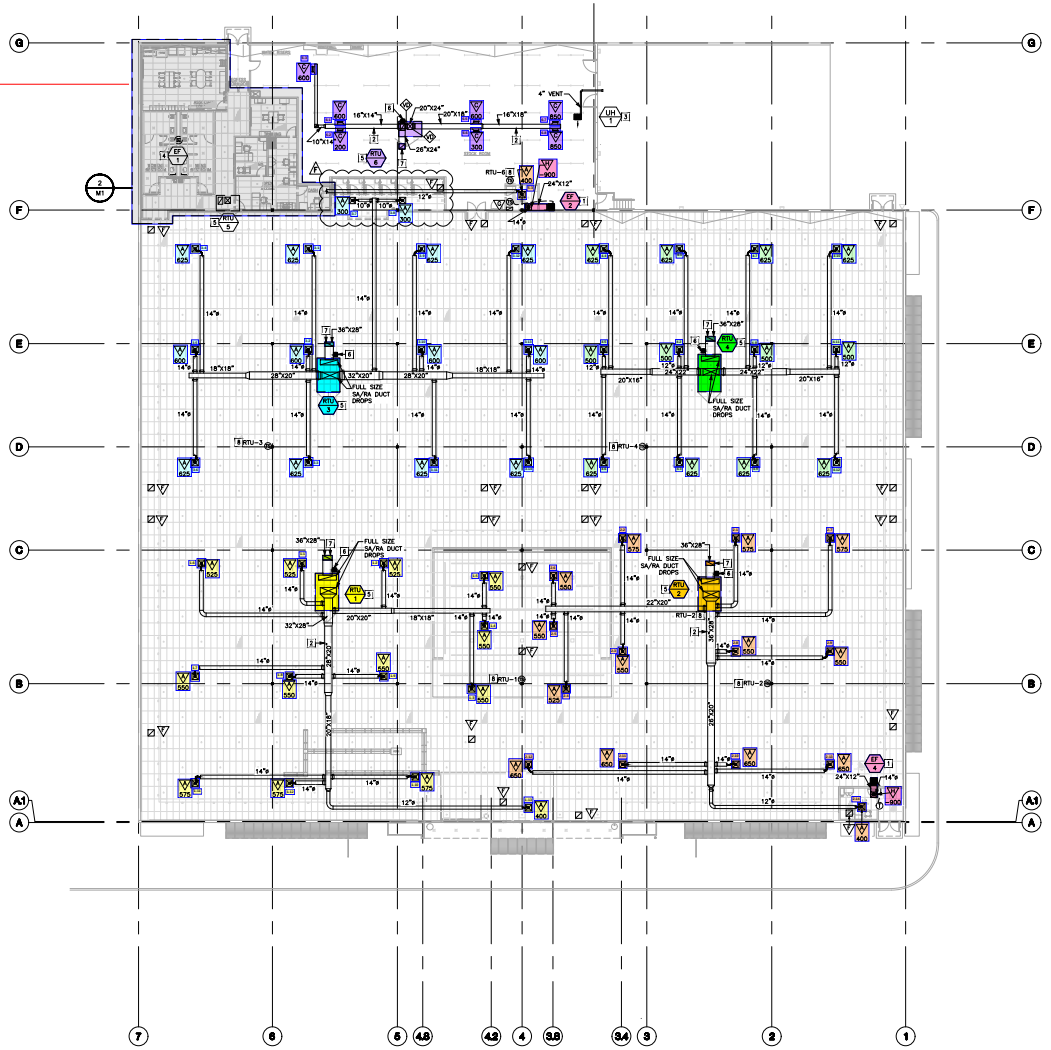
IF THE BAS DETERMINES THAT IT IS BENEFICIAL TO USE OUTSIDE AIR FOR COOLING, THE ECONOMIZER SHALL OVERRIDE THE DEMAND CONTROL VENTILATION ALGORITHM TO MODULATE THE DAMPERS OPEN TO THE REQUIRED ECONOMIZER DAMPER POSITION.

UNOCCUPIED OPERATION:

WHEN THE BUILDING IS UNOCCUPIED, THE DEMAND CONTROL VENTILATION SYSTEM SHALL BE DISABLED, AND ALL ROOFTOP UNIT OUTSIDE AIR DAMPERS SHALL REMAIN CLOSED.



2 ENLARGED MECHANICAL PLAN
1/8" = 1'-0"



1 MECHANICAL PLAN
1/16" = 1'-0"

## GENERAL MECHANICAL NOTES

A. CONTRACTORS AND SUB-CONTRACTORS SHALL CAREFULLY REVIEW THE CONSTRUCTION DOCUMENTS. INFORMATION REGARDING THE COMPLETE WORK IS DISPERSED THROUGHOUT THE DOCUMENT SET AND CANNOT BE ACCURATELY DETERMINED WITHOUT REFERENCE TO THE COMPLETE DOCUMENT SET.

B. COORDINATE WITH THE WORK OF OTHER SECTIONS. EQUIPMENT FURNISHED BY OTHERS, REQUIREMENTS OF THE OWNER, AND WITH THE CONSTRAINTS OF THE EXISTING CONDITIONS OF THE PROJECT SITE. PROVIDE DUCT RISES AND DROPS AS REQUIRED FOR FIELD INSTALLATION AND TRADE COORDINATION. NOTIFY ARCHITECT OF ANY DISCREPANCIES BEFORE STARTING WORK.

C. DRAWINGS FOR HVAC WORK ARE DIAGRAMMATIC, SHOWING THE GENERAL LOCATION, TYPES, LAYOUT, AND EQUIPMENT REQUIRED. THE DRAWINGS SHALL NOT BE SCALED FOR EXACT MEASUREMENT. REFER TO ARCHITECTURAL DRAWINGS FOR DIMENSIONS. REFER TO MANUFACTURER'S STANDARD INSTALLATION DRAWINGS FOR EQUIPMENT CONNECTIONS AND INSTALLATION REQUIREMENTS. PROVIDE DUCTWORK, CONNECTIONS, ACCESSORIES, OFFSETS, AND MATERIALS NECESSARY FOR A COMPLETE SYSTEM.

D. ALL WORK SHALL COMPLY WITH STATE AND LOCAL CODE REQUIREMENTS AS APPROVED AND AMENDED BY THE GOVERNING CITY, INCLUDING APPLICABLE SECTIONS OF NFPA, OSHA, IBC, UBC, OR ANY INTERIM AMENDMENTS AT THE TIME OF THE PROPOSAL. PURCHASE ALL PERMITS ASSOCIATED WITH THE WORK. OBTAIN ALL INSPECTIONS REQUIRED BY CODE.

E. HVAC CONTRACTOR IS RESPONSIBLE FOR STARTUP AND PROPER OPERATION OF ALL ROOFTOP UNITS.

F. USE OF COMBUSTIBLE MATERIALS IS NOT ALLOWED IN THE RETURN AIR PLENUM. MATERIALS USED IN THE PLENUM SHALL HAVE FLAME SPREAD RATING NOT TO EXCEED 25, AND SMOKE DEVELOPED RATING NOT TO EXCEED 50 WHEN TESTED IN ACCORDANCE WITH ASTM E 84. ALL EXPOSED WIRING IN THE PLENUM SHALL BE PLENUM RATED.

G. INSULATE SUPPLY DUCTWORK WITH MINIMUM 1-1/2" THICK FOIL-BACKED DUCT WRAP. ALL DUCTWORK WITHIN A 40 FOOT RADIUS FROM THE SUPPLY DUCT DROP SHALL BE INSULATED. R-VALUE SHALL BE MINIMUM 4.2.

H. PROVIDE AIR TIGHT COVERS OVER RETURN AIR OPENINGS OF UNITS NOT USED DURING CONSTRUCTION. PROVIDE FILTER RACK AND MINIMUM MERV 8 FILTERS USED FOR TEMPORARY HEATING/COOLING. REPLACE FILTERS AT REGULAR INTERVALS DURING TEMPORARY USE. CONTRACTOR IS RESPONSIBLE FOR CLEANING AND REPAIRING UNITS AND DUCTWORK SOILED OR DAMAGED DURING TEMPORARY USE.

I. AT CONTRACTOR'S OPTION, EQUIVALENTLY SIZED ROUND DUCTWORK IS ALLOWED IN LIEU OF RECTANGULAR DUCTWORK. ROUND DUCTWORK SHALL BE SIZED FOR MAXIMUM PRESSURE DROP OF 0.08"WC/100 FT OF DUCT, AND MAXIMUM VELOCITY NOT TO EXCEED 1200 FPM.

J. ANY DUCTWORK, CONTROL WIRING, ACCESSORIES, ETC. LOCATED ABOVE CAROUSEL SYSTEM(S) SHALL BE INSTALLED HIGH BETWEEN AND/OR THROUGH STRUCTURAL JOISTS TO AVOID CLEARANCE ISSUES WITH CAROUSEL SYSTEM(S).

## MECHANICAL PLAN NOTES

1. PROVIDE INLINE TRANSFER FAN. SUPPORT FAN FROM STRUCTURE ABOVE WITH STEEL CHANNEL AND THREADED ROD WITH VIBRATION ISOLATORS. PROVIDE FLEXIBLE CONNECTORS ON THE INLET AND DISCHARGE DUCT CONNECTIONS. TRANSFER FAN SHALL DISCHARGE TO PLENUM. REFER TO EXHAUST AND TRANSFER FAN SCHEDULE ON SHEET M2 FOR ADDITIONAL REQUIREMENTS.
2. MOUNT DUCT TIGHT TO BOTTOM OF STRUCTURE.
3. PROVIDE GAS-FIRED UNIT HEATER. SUSPEND HEATER FROM STRUCTURE ABOVE WITH STEEL CHANNEL AND ALL-THREAD ROD. MOUNT BOTTOM OF UNIT HEATER #'-6" ABOVE FINISH FLOOR. PROVIDE INTEGRAL THERMOSTAT. PROVIDE VENT IN ACCORDANCE WITH UNIT HEATER MANUFACTURER'S INSTRUCTIONS. PROVIDE MANUFACTURER'S SIDEWALL VENT TERMINATION KIT. TERMINATE VENT PER CODE, AND A MINIMUM OF 10' ABOVE GRADE. REFER TO UNIT HEATER SCHEDULE ON SHEET M2 FOR ADDITIONAL REQUIREMENTS.
4. PROVIDE ROOF MOUNTED EXHAUST FAN AND CURB. PROVIDE DUCTWORK AS INDICATED ON THE PLAN. EXTEND DUCTWORK UP TO ROOF. REFER TO EXHAUST AND TRANSFER FAN SCHEDULE ON SHEET M2 FOR ADDITIONAL REQUIREMENTS.
5. INSTALL ROOFTOP UNIT AND ROOF CURB. COORDINATE UNIT WITH STRUCTURE. SHIM UNIT AND CURB LEVEL FOR PROPER CONDENSATE DRAINAGE. UNIT SHALL BE INSTALLED MAXIMUM 1/8" PER FOOT OUT OF LEVEL. PROVIDE FLEXIBLE CONNECTORS ON THE SUPPLY AND RETURN AIR DUCT CONNECTIONS. TRANSITION TO DUCT SIZES SHOWN. PROVIDE DUCTWORK AND AIR DISTRIBUTION DEVICES AS INDICATED ON THE PLAN. ALSO REFER TO ROOFTOP UNIT SCHEDULE ON SHEET M2.
6. INSTALL SMOKE DETECTOR FURNISHED BY FIRE ALARM CONTRACTOR. PROVIDE INTERLOCK WIRING FROM RELAY AT SMOKE DETECTOR TO ROOFTOP UNIT TO SHUT DOWN ROOFTOP UNIT UPON ALARM SIGNAL FROM FIRE ALARM SYSTEM. ALSO SIGNAL FROM FIRE ALARM SYSTEM, ALL ROOFTOP UNITS SHALL SHUT DOWN. REFER TO FIRE ALARM SYSTEM RISER ON SHEET E4 FOR ADDITIONAL REQUIREMENTS.
7. PROVIDE RETURN AIR BOOT WITH ACOUSTICAL DUCT LINER. LINER SHALL BE 1" THICK 2 PCF DENSITY, LONG TEXTILE TYPE FIBER, WITH SURFACE CLEANABLE PER NAIMA DUCT CLEANING GUIDELINES. INSTALL LINER IN ACCORDANCE WITH SMACNA DUCT CONSTRUCTION STANDARDS. LAMINATE LINER TO INTERNAL SURFACES OF DUCT IN ACCORDANCE WITH LINER MANUFACTURER'S INSTRUCTIONS, AND FASTEN WITH MECHANICAL FASTENERS.
8. PROVIDE BAS TEMPERATURE SENSOR ON COLUMN SHOWN ON PLAN. MOUNT 72" ABOVE FINISHED FLOOR.

KOHL'S

WESLEY CHAPEL

11604

1954 SUN VISTA DR
LUTZ, FL

DEVELOPED BY:
KOHL'S, INC.
N56 W17000 RIDGEWOOD DRIVE
MENOMONEE FALLS, WISCONSIN 53051
TEL: (262) 703-7000
FAX: (262) 703-7035


Bowen+
2019 CENTER STREET, SUITE 300
CLEVELAND, OH 44113


INFORMATION ON THIS DRAWING TAKES PRECEDENCE OVER THE SPECIFICATIONS MANUAL IF THE DOCUMENTS HAVE CONFLICTING INFORMATION.

| NO. | DATE | BY | DESCRIPTION |
|---|---|---|---|
| A | 11/17/23 | KL | ADDENDUM A |
| C | 2/12/24 | KL | ADDENDUM C |
| F | 3/26/24 | KL | ADDENDUM F |

MECHANICAL PLAN

SCALE: AS NOTED
SHEET: M1
PROJECT #: 13615
DRWN BY: CHKD BY:
BLDG. SUBMITTAL: 12/1/23

CONSTRUCTION SET - 3/22/2024

# National TAB

**Project: Kohls (Wesley Chapel, FL)**

## System/Unit: AHU/RTU

**Asset: RTU-1** AREA:SALES FLOOR

| Unit Data | | |
|---|---|---|
| | **Design** | **Actual** |
| **MFG** | YORK | YORK |
| **Serial Num** | - | N2F4495562 |
| **Model Num** | NA | AV18S3CQ4G3CAS4KB3 |
| **Configuration** | - | VERTICAL |
| **Num OA Filters 1** | - | 2 |
| **OA Filter Size 1** | - | 31X12.75 |
| **Num PreFilter 1** | - | 6 |
| **PreFilter Size 1** | - | 20X25X2 |

| Test Data | | |
|---|---|---|
| | **Design** | **Actual** |
| **SF CFM** | 7000 | 7044 |
| **SF RPM** | 890 | 49Hz |
| **RA CFM** | - | 5699 |
| **OA CFM** | 1395 | 1345 |
| **RL Voltage** | 460 | 478/476/480 |
| **RL Amperage** | 9.9 | 4.7/4.7/4.4 |
| **OA Damper Position** | - | 22% |
| **Brake Horse Power** | 3.26 | 3.60 |

| Motor Data | | |
|---|---|---|
| | **Design** | **Actual** |
| **Motor MFG** | - | BALDOR RELIANCE |
| **Frame** | - | 184TZ |
| **Horsepower** | 5 | 5.25 |
| **Motor Rpm** | - | 1750 |
| **Phase** | 3 | 3 |
| **Rated Voltage** | 460 | 208-230/460 |
| **Rated Amperage** | 9.9 | 13.5-13.4/6.7 |
| **Service Factor** | - | 1.15 |

| Performance Data | | |
|---|---|---|
| | **Design** | **Actual** |
| **MA Plenum SP** | - | -0.18” |
| **Fan Suction SP** | - | -0.59” |
| **Fan Discharge SP** | - | 0.29” |

| Drive Data | |
|---|---|
| | **Actual** |
| **Motor Sheave Size** | 4.5” |
| **Motor Bore Size** | 7/8” |
| **Motor Sheave SetPt** | 2.5 TURNS OUT |
| **Fan Sheave Size** | 1B5V74 |
| **Fan Sheave Bore** | 1 7/16” |
| **Belt CL Distance** | 11.5” |
| **Num of Belts** | 1 |
| **Belt Size** | BX40 |



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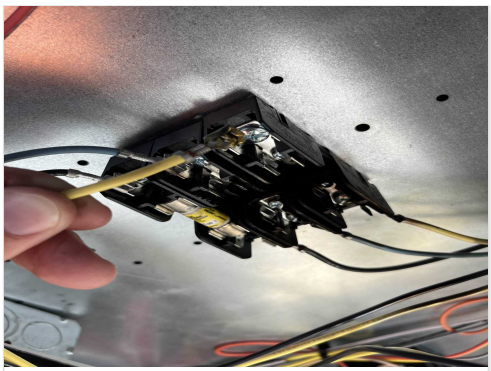
**Test Data - PHOTO LOG**



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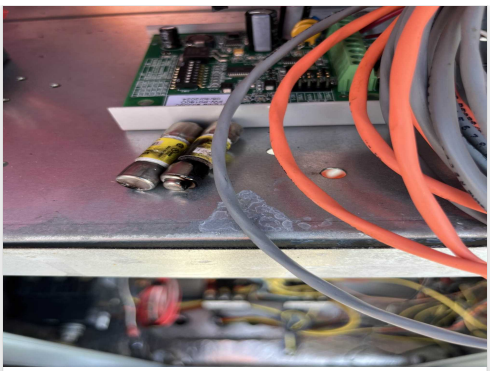

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Completed By: Stephen Tassinaro on 08/22/2024

Notes:
VFD Setpoint: 49Hz // High Speed High CO2 - 28% // Low Speed Low CO2 - 37% // Low Speed High CO2 - 66%

Written By: Stephen Tassinaro on 08/22/2024

# National TAB

**Project:Kohls (Wesley Chapel, FL)**

## AHU/RTU

**Diffuser Supply (GRD)**

**RTU-1/SALES FLOOR**

| Asset | | | | | | | |
|---|---|---|---|---|---|---|---|
| **Asset Name** | **Location** | **Type** | **Size** | **DESIGN CFM** | **CFM(1)** | **FINAL CFM** | **% to design** |
| 1-1 | OFFICE | A | 12" | 400 | 443 | 390 | 97.5 |
| 1-2 | SALES FLOOR | A | 14" | 575 | 722 | 624 | 108.5 |
| 1-3 | SALES FLOOR | A | 14" | 575 | 856 | 626 | 108.9 |
| 1-4 | SALES FLOOR | A | 14" | 575 | 706 | 624 | 108.5 |
| 1-5 | SALES FLOOR | A | 14" | 550 | 606 | 532 | 96.7 |
| 1-6 | SALES FLOOR | A | 14" | 550 | 686 | 531 | 96.5 |
| 1-7 | SALES FLOOR | A | 14" | 550 | 627 | 559 | 101.6 |
| 1-8 | SALES FLOOR | A | 14" | 550 | 654 | 554 | 100.7 |
| 1-9 | SALES FLOOR | A | 14" | 550 | 574 | 504 | 91.6 |
| 1-10 | SALES FLOOR | A | 14" | 550 | 648 | 545 | 99.1 |
| 1-11 | SALES FLOOR | A | 14" | 525 | 546 | 480 | 91.4 |
| 1-12 | SALES FLOOR | A | 14" | 525 | 607 | 502 | 95.6 |
| 1-13 | SALES FLOOR | A | 14" | 525 | 678 | 573 | 109.1 |
| Total | | | | 7000 | 8353 | 7044 | 100.63% |

**Completed By: Stephen Tassinaro on 08/09/2024**



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# National TAB

**Project: Kohls (Wesley Chapel, FL)**

## System/Unit: AHU/RTU

**Asset: RTU-2** AREA:SALES FLOOR

| Unit Data | | |
|---|---|---|
| | **Design** | **Actual** |
| **MFG** | YORK | YORK |
| **Serial Num** | - | N2F4489476 |
| **Model Num** | NA | AV20S3CQ4G3CAQ16F2 |
| **Configuration** | - | VERTICAL |
| **Num OA Filters 1** | - | 2 |
| **OA Filter Size 1** | - | 31X12.75 |
| **Num PreFilter 1** | - | 6 |
| **PreFilter Size 1** | - | 20X25X2 |

| Test Data | | |
|---|---|---|
| | **Design** | **Actual** |
| **SF CFM** | 8000 | 7969 |
| **SF RPM** | 945 | 50Hz |
| **RA CFM** | 6605 | 6487 |
| **OA CFM** | 1395 | 1482 |
| **RL Voltage** | 460 | 473/470/475 |
| **RL Amperage** | 9.9 | 5.4/5.4/4.9 |
| **OA Damper Position** | - | 21% |
| **Brake Horse Power** | 4.13 | 4.10 |

| Motor Data | | |
|---|---|---|
| | **Design** | **Actual** |
| **Motor MFG** | - | BALDOR RELIANCE |
| **Frame** | - | 184TZ |
| **Horsepower** | 5 | 5.25 |
| **Motor Rpm** | - | 1750 |
| **Phase** | 3 | 3 |
| **Rated Voltage** | 460 | 208-230/460 |
| **Rated Amperage** | 9.9 | 13.5-13.4/6.7 |
| **Service Factor** | - | 1.15 |

| Performance Data | | |
|---|---|---|
| | **Design** | **Actual** |
| **MA Plenum SP** | - | -0.21” |
| **Fan Suction SP** | - | -0.76” |
| **Fan Discharge SP** | - | 0.40” |
| **Total ESP** | 0.75 | 0.61" |
| **Fan Total SP** | 0.82 | 1.16" |

| Drive Data | |
|---|---|
| | **Actual** |
| **Motor Sheave Size** | 4.75” |
| **Motor Bore Size** | 7/8” |
| **Motor Sheave SetPt** | 2.5 TURNS OUT |
| **Fan Sheave Size** | 7.75” |
| **Fan Sheave Bore** | 1 7/16” |
| **Belt CL Distance** | 11.25” |
| **Num of Belts** | 1 |
| **Belt Size** | BX40 |

Completed By: Stephen Tassinaro on 08/09/2024

Notes:
50Hz VFD // High Speed High CO2 - 36% // Low Speed Low CO2 - 47% // Low Speed High CO2 - 75%

Written By: Stephen Tassinaro on 08/22/2024



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# National TAB

**Project:Kohls (Wesley Chapel, FL)**

## AHU/RTU

**Diffuser Supply (GRD)**

**RTU-2/SALES FLOOR**

| Asset | | | | | | | |
|---|---|---|---|---|---|---|---|
| **Asset Name** | **Location** | **Type** | **Size** | **DESIGN CFM** | **CFM(1)** | **FINAL CFM** | **% to design** |
| 2-1 | OFFICE | A | 12" | 400 | 608 | 371 | 92.8 |
| 2-2 | SALES FLOOR | A | 14" | 650 | 718 | 646 | 99.4 |
| 2-3 | SALES FLOOR | A | 14" | 650 | 165 | 632 | 97.2 |
| 2-4 | SALES FLOOR | A | 14" | 650 | 843 | 691 | 106.3 |
| 2-5 | SALES FLOOR | A | 14" | 650 | 530 | 697 | 107.2 |
| 2-6 | SALES FLOOR | A | 14" | 525 | 656 | 550 | 104.8 |
| 2-7 | SALES FLOOR | A | 14" | 550 | 456 | 565 | 102.7 |
| 2-8 | SALES FLOOR | A | 14" | 550 | 806 | 559 | 101.6 |
| 2-9 | SALES FLOOR | A | 14" | 550 | 655 | 538 | 97.8 |
| 2-10 | SALES FLOOR | A | 14" | 575 | 676 | 530 | 92.2 |
| 2-11 | SALES FLOOR | A | 14" | 575 | 576 | 568 | 98.8 |
| 2-12 | SALES FLOOR | A | 14" | 575 | 467 | 545 | 94.8 |
| 2-13 | SALES FLOOR | A | 14" | 550 | 661 | 516 | 93.8 |
| 2-14 | SALES FLOOR | A | 14" | 550 | 620 | 561 | 102.0 |
| Total | | | | 8000 | 8437 | 7969 | 99.61% |

**Completed By: Stephen Tassinaro on 08/09/2024**



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# National TAB

**Project: Kohls (Wesley Chapel, FL)**

## System/Unit: AHU/RTU

**Asset: RTU-3** AREA:SALES FLOOR

| Unit Data | | |
|---|---|---|
| | **Design** | **Actual** |
| **MFG** | YORK | YORK |
| **Serial Num** | - | N2F4489477 |
| **Model Num** | NA | AV20S3CQ4G3CAS1KB3 |
| **Configuration** | - | VERTICAL |
| **Num OA Filters 1** | - | 2 |
| **OA Filter Size 1** | - | 31X12.75 |
| **Num PreFilter 1** | - | 6 |
| **PreFilter Size 1** | - | 20X25X2 |

| Test Data | | |
|---|---|---|
| | **Design** | **Actual** |
| **SF CFM** | 8000 | 7884 |
| **SF RPM** | 945 | 51Hz |
| **RA CFM** | 6605 | 6462 |
| **OA CFM** | 1395 | 1422 |
| **RL Voltage** | 460 | 476/478/480 |
| **RL Amperage** | 9.9 | 6.0/6.0/5.4 |
| **OA Damper Position** | - | 23% |
| **Brake Horse Power** | 4.13 | 4.54 |

| Motor Data | | |
|---|---|---|
| | **Design** | **Actual** |
| **Motor MFG** | - | BALDOR RELIANCE |
| **Frame** | - | 184TZ |
| **Horsepower** | 5 | 5.25 |
| **Motor Rpm** | - | 1750 |
| **Phase** | 3 | 3 |
| **Rated Voltage** | 460 | 208-230/460 |
| **Rated Amperage** | 9.9 | 13.5-13.4/6.7 |
| **Service Factor** | - | 1.15 |

| Performance Data | | |
|---|---|---|
| | **Design** | **Actual** |
| **MA Plenum SP** | - | -0.32” |
| **Fan Suction SP** | - | -0.96” |
| **Fan Discharge SP** | - | 0.45” |
| **Total ESP** | 0.75 | 0.77" |
| **Fan Total SP** | 0.82 | 1.41" |

| Drive Data | |
|---|---|
| | **Actual** |
| **Motor Sheave Size** | 4.75" |
| **Motor Bore Size** | 7/8" |
| **Motor Sheave SetPt** | 2.5 TURNS OUT |
| **Fan Sheave Size** | 7.75" |
| **Fan Sheave Bore** | 1 7/16" |
| **Belt CL Distance** | 11.25" |
| **Num of Belts** | 1 |
| **Belt Size** | BX40 |

Completed By: Stephen Tassinaro on 08/22/2024

Notes:
51Hz VFD // High Speed High CO2 - 35% // Low Speed Low CO2 - 36% // Low Speed High CO2 - 70%

Written By: Stephen Tassinaro on 08/22/2024



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# National TAB

**Project:Kohls (Wesley Chapel, FL)**

## AHU/RTU

**Diffuser Supply (GRD)**

**RTU-3/SALES FLOOR**

| Asset | | | | | | | |
|---|---|---|---|---|---|---|---|
| **Asset Name** | **Location** | **Type** | **Size** | **DESIGN CFM** | **CFM(1)** | **FINAL CFM** | **% to design** |
| 3-1 | SALES FLOOR | A | 14" | 625 | 748 | 583 | 93.3 |
| 3-2 | SALES FLOOR | A | 14" | 600 | 118 | 552 | 92.0 |
| 3-3 | SALES FLOOR | A | 14" | 625 | 871 | 576 | 92.2 |
| 3-4 | SALES FLOOR | A | 14" | 625 | 876 | 603 | 96.5 |
| 3-5 | SALES FLOOR | A | 14" | 600 | 807 | 638 | 106.3 |
| 3-6 | SALES FLOOR | A | 14" | 625 | 662 | 579 | 92.6 |
| 3-7 | SALES FLOOR | A | 14" | 625 | 805 | 658 | 105.3 |
| 3-8 | SALES FLOOR | A | 14" | 600 | 145 | 579 | 96.5 |
| 3-9 | SALES FLOOR | A | 14" | 625 | 873 | 658 | 105.3 |
| 3-10 | SALES FLOOR | A | 14" | 625 | 506 | 626 | 100.2 |
| 3-11 | SALES FLOOR | A | 14" | 600 | 869 | 580 | 96.7 |
| 3-12 | SALES FLOOR | A | 14" | 625 | 817 | 647 | 103.5 |
| 3-13 | SALES FLOOR | A | 10" | 300 | 0 | 302 | 100.7 |
| 3-14 | SALES FLOOR | A | 10" | 300 | 0 | 303 | 101.0 |
| Total | | | | 8000 | 8097 | 7884 | 98.55% |

**Completed By: Stephen Tassinaro on 08/22/2024**



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# National TAB

**Project: Kohls (Wesley Chapel, FL)**

## System/Unit: AHU/RTU

**Asset: RTU-4** AREA:

| Unit Data | | |
|---|---|---|
| | **Design** | **Actual** |
| **MFG** | YORK | YORK |
| **Serial Num** | - | N2F4495561 |
| **Model Num** | NA | AV18S3CQ4G3CAS4KB3 |
| **Configuration** | - | VERTICAL |
| **Num OA Filters 1** | - | 2 |
| **OA Filter Size 1** | - | 31X12.75 |
| **Num PreFilter 1** | - | 6 |
| **PreFilter Size 1** | - | 20X25X2 |

| Test Data | | |
|---|---|---|
| | **Design** | **Actual** |
| **SF CFM** | 7000 | 7279 |
| **SF RPM** | 890 | 50Hz |
| **RA CFM** | 5605 | 6022 |
| **OA CFM** | 1395 | 1257 |
| **RL Voltage** | 460 | 472/470/474 |
| **RL Amperage** | 9.9 | 4.6/4.6/4.2 |
| **OA Damper Position** | - | 22% |
| **Brake Horse Power** | 3.26 | 3.5 |

| Motor Data | | |
|---|---|---|
| | **Design** | **Actual** |
| **Motor MFG** | - | BALDOR RELIANCE |
| **Frame** | - | 184TZ |
| **Horsepower** | 5 | 5.25 |
| **Motor Rpm** | - | 1750 |
| **Phase** | 3 | 3 |
| **Rated Voltage** | 460 | 208-230/460 |
| **Rated Amperage** | 9.9 | 13.5-13.4/6.7 |
| **Service Factor** | - | 1.15 |

| Performance Data | | |
|---|---|---|
| | **Design** | **Actual** |
| **MA Plenum SP** | - | -0.16” |
| **Fan Suction SP** | - | -0.64” |
| **Fan Discharge SP** | - | 0.41” |
| **Total ESP** | .75 | 0.57" |
| **Fan Total SP** | .84 | 1.05" |

| Drive Data | |
|---|---|
| | **Actual** |
| **Motor Sheave Size** | 4.5" |
| **Motor Bore Size** | 7/8" |
| **Motor Sheave SetPt** | 2.5 TURNS OUT |
| **Fan Sheave Size** | 1B5V74 |
| **Fan Sheave Bore** | 1 7/16" |
| **Belt CL Distance** | 11.5" |
| **Num of Belts** | 1 |
| **Belt Size** | BX40 |

Completed By: Stephen Tassinaro on 08/22/2024

Notes:
50Hz VFD // High Speed High CO2 - 36% // Low Speed Low CO2 - 47% // Low Speed High CO2 - 75%

Written By: Stephen Tassinaro on 08/22/2024



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# National TAB

**Project:Kohls (Wesley Chapel, FL)**

## AHU/RTU

**Diffuser Supply (GRD)**

**RTU-4/**

| Asset | | | | | | | |
|---|---|---|---|---|---|---|---|
| **Asset Name** | **Location** | **Type** | **Size** | **DESIGN CFM** | **CFM(1)** | **FINAL CFM** | **% to design** |
| 4-1 | SALES FLOOR | A | 14" | 625 | 893 | 673 | 107.7 |
| 4-2 | SALES FLOOR | A | 12" | 500 | 625 | 532 | 106.4 |
| 4-3 | SALES FLOOR | A | 14" | 625 | 782 | 667 | 106.7 |
| 4-4 | SALES FLOOR | A | 14" | 625 | 892 | 621 | 99.4 |
| 4-5 | SALES FLOOR | A | 12" | 500 | 761 | 470 | 94.0 |
| 4-6 | SALES FLOOR | A | 14" | 625 | 813 | 622 | 99.5 |
| 4-7 | SALES FLOOR | A | 14" | 625 | 873 | 665 | 106.4 |
| 4-8 | SALES FLOOR | A | 12" | 500 | 165 | 514 | 102.8 |
| 4-9 | SALES FLOOR | A | 14" | 625 | 820 | 648 | 103.7 |
| 4-10 | SALES FLOOR | A | 14" | 625 | 716 | 674 | 107.8 |
| 4-11 | SALES FLOOR | A | 12" | 500 | 111 | 516 | 103.2 |
| 4-12 | SALES FLOOR | A | 14" | 625 | 1028 | 677 | 108.3 |
| Total | | | | 7000 | 8479 | 7279 | 103.99% |

**Completed By: Stephen Tassinaro on 08/22/2024**



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# National TAB

**Project: Kohls (Wesley Chapel, FL)**

## System/Unit: AHU/RTU

**Asset: RTU-5** AREA:SERVER ROOM

| Unit Data | | |
|---|---|---|
| | **Design** | **Actual** |
| **MFG** | YORK | YORK |
| **Serial Num** | - | N2F4422656 |
| **Model Num** | NA | ZJ090S12R4D5BCBKA3 |
| **Configuration** | - | VERTICAL |
| **Num OA Filters 1** | - | 1 |
| **OA Filter Size 1** | - | 28.75X20.5 |
| **Num PreFilter 1** | - | 4 |
| **PreFilter Size 1** | - | 20X24X2 |

| Test Data | | |
|---|---|---|
| | **Design** | **Actual** |
| **SF CFM** | 2600 | 2625 |
| **SF RPM** | 936 | 43Hz |
| **RA CFM** | 2350 | 2400 |
| **OA CFM** | 250 | 225 |
| **RL Voltage** | 460 | 475/478/480 |
| **RL Amperage** | 4.7 | 2.3/2.4/1.7 |
| **OA Damper Position** | - | 22% |
| **Brake Horse Power** | 1.8 | 1.56 |

| Motor Data | | |
|---|---|---|
| | **Design** | **Actual** |
| **Motor MFG** | - | BALDOR RELIANCE |
| **Frame** | - | 57HZ |
| **Horsepower** | 3 | 3 |
| **Motor Rpm** | - | 1750 |
| **Phase** | 3 | 3 |
| **Rated Voltage** | 460 | 208-230/460 |
| **Rated Amperage** | 4.7 | 8.3-8.2/4.1 |
| **Service Factor** | - | 1.15 |

| Performance Data | | |
|---|---|---|
| | **Design** | **Actual** |
| **MA Plenum SP** | - | -0.44” |
| **Fan Suction SP** | - | -0.62” |
| **Fan Discharge SP** | - | 0.58” |
| **Total ESP** | 0.75 | 1.02" |
| **Fan Total SP** | 1 | 1.20" |

| Drive Data | |
|---|---|
| | **Actual** |
| **Motor Sheave Size** | 1VM50 |
| **Motor Bore Size** | 7/8” |
| **Motor Sheave SetPt** | 2.5 TURNS OUT |
| **Fan Sheave Size** | AK59 |
| **Fan Sheave Bore** | 1.0” |
| **Belt CL Distance** | 19.5” |
| **Num of Belts** | 1 |
| **Belt Size** | A54 |

Completed By: Stephen Tassinaro on 08/22/2024

Notes:
Diffuser total = 2600CFM / RTU Schedule = 3000CFM. Balanced to diffuser total. Amperage and fan speed is available if a speed increase to 3000CFM is required. // High Speed High CO2 - 22% / Low Speed High CO2 - 25%

Written By: Stephen Tassinaro on 08/22/2024



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# National TAB

**Project:Kohls (Wesley Chapel, FL)**

## AHU/RTU

**Diffuser Supply (GRD)**

**RTU-5/SERVER ROOM**

| Asset | | | | | | | |
|---|---|---|---|---|---|---|---|
| **Asset Name** | **Location** | **Type** | **Size** | **DESIGN CFM** | **CFM(1)** | **FINAL CFM** | **% to design** |
| 5-1 | TRAINING | A | 10" | 350 | 655 | 355 | 101.4 |
| 5-2 | OFFICE | A | 8" | 200 | 387 | 187 | 93.5 |
| 5-3 | CASH | A | 10" | 200 | 191 | 182 | 91.0 |
| 5-4 | OFFICE | A | 8" | 200 | 123 | 191 | 95.5 |
| 5-5 | OFFICE | A | 8" | 150 | 290 | 164 | 109.3 |
| 5-6 | HALLWAY | A | 8" | 100 | 160 | 94 | 94.0 |
| 5-7 | WOMENS RR | A | 8" | 150 | 237 | 164 | 109.3 |
| 5-8 | MENS RR | A | 8" | 150 | 198 | | - |
| 5-9 | HALLWAY | A | 8" | 100 | 327 | 98 | 98.0 |
| 5-10 | ASSOCIATE LOUNGE | A | 10" | 300 | 489 | 315 | 105.0 |
| 5-11 | ASSOCIATE LOUNGE | A | 10" | 300 | 403 | 320 | 106.7 |
| 5-12 | SERVER ROOM | A | 12" | 400 | 229 | 404 | 101.0 |
| Total | | | | 2600 | 3689 | 2474 | 95.15% |

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# National TAB

**Project: Kohls (Wesley Chapel, FL)**

## System/Unit: AHU/RTU

**Asset: RTU-6** AREA:

| Unit Data | | |
|---|---|---|
| | **Design** | **Actual** |
| **MFG** | YORK | YORK |
| **Serial Num** | - | N2F4422655 |
| **Model Num** | NA | ZJ120S24R4D5BCLKA3 |
| **Configuration** | - | VERTICAL |
| **Num OA Filters 1** | - | 1 |
| **OA Filter Size 1** | - | 29X20.5 |
| **Num PreFilter 1** | - | 4 |
| **PreFilter Size 1** | - | 24X20X2 |

| Test Data | | |
|---|---|---|
| | **Design** | **Actual** |
| **SF CFM** | 4000 | 3928 |
| **SF RPM** | 1210 | 1016 |
| **RA CFM** | 3265 | 3185 |
| **OA CFM** | 735 | 743 |
| **RL Voltage** | 460 | 481/474/478 |
| **RL Amperage** | 4.7 | 3.6/3.7/3.1 |
| **OA Damper Position** | - | 23% |
| **Brake Horse Power** | 3.02 | 2.53 |

| Motor Data | | |
|---|---|---|
| | **Design** | **Actual** |
| **Motor MFG** | - | BALDOR RELIANCE |
| **Frame** | - | 56HZ |
| **Horsepower** | 3 | 3.0 |
| **Motor Rpm** | - | 1750 |
| **Phase** | 3 | 3 |
| **Rated Voltage** | 460 | 208-230/460 |
| **Rated Amperage** | 4.7 | 8.3-8.2/4.1 |
| **Service Factor** | - | 1.15 |

| Performance Data | | |
|---|---|---|
| | **Design** | **Actual** |
| **MA Plenum SP** | - | -0.57” |
| **Fan Suction SP** | - | -0.94” |
| **Fan Discharge SP** | - | 0.53” |
| **Total ESP** | 0.75 | 1.10" |
| **Fan Total SP** | 1.31 | 1.47" |

| Drive Data | |
|---|---|
| | **Actual** |
| **Motor Sheave Size** | VM50 |
| **Motor Bore Size** | 7/8” |
| **Motor Sheave SetPt** | 2.5 TURNS OUT |
| **Fan Sheave Size** | AK74 |
| **Fan Sheave Bore** | 1.0” |
| **Belt CL Distance** | 19.0” |
| **Num of Belts** | 1 |
| **Belt Size** | A54 |

Completed By: Stephen Tassinaro on 08/22/2024

Notes:
Supply total found via 2 duct traverse, individual diffusers will be adjusted 8/19. Trunk 1: 978FPM * 2.5ft area = 2445CFM. Trunk 2: 840FPM * 1.56ft area = 1310CFM. Total = 3755 CFM. Fan speed later increased to achieve 3928CFM // High Speed High CO2 - 23% / Low Speed Low CO2 - 32%

Written By: Stephen Tassinaro on 08/22/2024



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# National TAB

**Project:Kohls (Wesley Chapel, FL)**

## AHU/RTU

**Diffuser Supply (GRD)**

**RTU-6/**

| Asset | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| **Asset Name** | **Type** | **Size** | **DESIGN CFM** | **AK** | **VEL(1)** | **CFM(1)** | **VEL(2)** | **FINAL CFM** | **% to design** |
| 6-1 | C | 20X14 | 600 | 1.5 | 428 | 642 | 397 | 596 | 99.3 |
| 6-2 | C | 20X14 | 600 | 1.5 | 288 | 432 | 382 | 573 | 95.5 |
| 6-3 | C | 20X14 | 200 | 1.5 | 259 | 389 | 129 | 194 | 97.0 |
| 6-4 | C | 20X14 | 600 | 1.5 | 321 | 482 | 399 | 599 | 99.8 |
| 6-5 | C | 20X14 | 300 | 1.5 | 303 | 455 | 196 | 294 | 98.0 |
| 6-6 | C | 20X14 | 850 | 1.5 | 451 | 677 | 559 | 839 | 98.7 |
| 6-7 | C | 20X14 | 850 | 1.5 | 476 | 714 | 555 | 833 | 98.0 |
| Total | | | 4000 | | | 3791 | | 3928 | 98.2% |

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# National TAB

**Project: Kohls (Wesley Chapel, FL)**

## System/Unit: FAN - Exhaust

**Asset: EF-1** AREA:RESTROOMS

| Unit Data | | |
|---|---|---|
| | **Design** | **Actual** |
| **MFG** | GREENHECK | GREENHECK |
| **Model Num** | G-090-VG | G-090-VG-1-17-X |
| **Serial Num** | - | 24193829 24C |
| **Type** | CEILING | CENTRIFUGAL |

| Test Data | | |
|---|---|---|
| | **Design** | **Actual** |
| **CFM** | 600 | 565 |
| **RL Voltage** | - | 118 |
| **RL Amperage** | - | 1.1 |
| **Total ESP** | 0.375 | 0.11” |

| Motor Data | | |
|---|---|---|
| | **Design** | **Actual** |
| **Motor MFG** | - | BROAD-OCEAN |
| **Horsepower** | 0.08 | 1/10 |
| **Motor Rpm** | 1725 | 1750 |
| **Phase** | 1 | 1 |
| **Voltage (rated)** | 115 | 115 |
| **Amperage (rated)** | - | 1.38 |

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# National TAB

**Project: Kohls (Wesley Chapel, FL)**

## System/Unit: FAN - Exhaust

**Asset: EF-2** AREA:MDF ROOM

| Unit Data | | |
|---|---|---|
| | **Design** | **Actual** |
| **MFG** | GREENHECK | GREENHECK |
| **Model Num** | CSP-A1050 | CSP-A1050-QD |
| **Serial Num** | - | 23995667 |
| **Type** | CEILING | INLINE |

| Test Data | | |
|---|---|---|
| | **Design** | **Actual** |
| **CFM** | 900 | 922 |
| **RL Voltage** | - | 117 |
| **RL Amperage** | - | 3.5 |
| **Total ESP** | 0.25 | 0.14 |

| Motor Data | | |
|---|---|---|
| | **Design** | **Actual** |
| **Phase** | 1 | 1 |
| **Voltage (rated)** | 115 | 115 |
| **Amperage (rated)** | - | 5 |

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# National TAB

**Project: Kohls (Wesley Chapel, FL)**

## System/Unit: FAN - Exhaust

**Asset: EF-3** AREA:CASH ROOM

| Unit Data | | |
|---|---|---|
| | **Design** | **Actual** |
| **MFG** | GREENHECK | GREENHECK |
| **Model Num** | CSP-A510 | CSP-A510-QD |
| **Serial Num** | - | 24059077 |
| **Type** | CEILING | INLINE |

| Test Data | | |
|---|---|---|
| | **Design** | **Actual** |
| **CFM** | 400 | 398 |
| **RL Voltage** | - | 118 |
| **RL Amperage** | - | 2.5 |
| **Total ESP** | 0.21 | 0.10" |

| Motor Data | | |
|---|---|---|
| | **Design** | **Actual** |
| **Phase** | 1 | 1 |
| **Voltage (rated)** | 115 | 115 |
| **Amperage (rated)** | - | 3.3 |

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# National TAB

**Project: Kohls (Wesley Chapel, FL)**

## System/Unit: FAN - Exhaust

**Asset: EF-4** AREA:LP OFFICE

| Unit Data | | |
|---|---|---|
| | **Design** | **Actual** |
| **MFG** | GREENHECK | GREENHECK |
| **Model Num** | CSP-A1050 | CSP-A1050-QD |
| **Serial Num** | - | 23995668 |
| **Type** | CEILING | INLINE |

| Test Data | | |
|---|---|---|
| | **Design** | **Actual** |
| **CFM** | 900 | 914 |
| **RL Voltage** | - | 118 |
| **RL Amperage** | - | 3.5 |
| **Total ESP** | 0.25 | 0.18 |

| Motor Data | | |
|---|---|---|
| | **Design** | **Actual** |
| **Phase** | 1 | 1 |
| **Voltage (rated)** | 115 | 115 |
| **Amperage (rated)** | - | 5 |

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