

Report By:

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



**Report: Preliminary Report
Function: Test, Adjust, & Balance
Date: 04/19/2024**

PROJECT
Westover Hills (San Antonio, TX)

3011 W Loop 1604 N

San Antonio, TX

Client

Robins & Morton
2015 Ayrslay Town Blvd Suite 203
Charlotte, NC 28273

National TAB

Project: Westover Hills (San Antonio, TX)

Table Of Contents

| Section | Page # |
|--------------------|--------|
| User Uploaded File | 3 |

National TAB

Project: Westover Hills Baptist Hospital
Address: San Antonio, TX

Asset: AHU-G-2

Area: LAB & PHARMACY

Supply Side

| Unit Data | |
|--------------------------|--------------|
| Manufacturer | TRANE |
| Model Number | CSAA030UAM00 |
| Serial Number | H23B20216 |
| Configuration | VERTICAL |
| No. Pre Filters / Size | 24 / 16x20x4 |
| No. Pre Filters / Size | N/A |
| No. Final Filters / Size | 3 / 12x24x12 |
| No. Final Filters / Size | 8 / 20x20x12 |
| | |
| | |

Return Side

| Unit Data | |
|------------------------|--------------|
| Manufacturer | TRANE |
| Model Number | CSAA030UAM00 |
| Serial Number | H23B20216 |
| Configuration | VERTICAL |
| No. Pre Filters / Size | N/A |
| | |
| | |
| | |
| | |

Motor Data X 4

| | |
|---------------------|---------------|
| Motor MFG / Frame | BALDOR / 213T |
| Horsepower / RPM | 10 / 3500 |
| Rated Volts / Phase | 460 / 3 |
| Rated Amperage / SF | 12.0 / 1.15 |

Motor Data X 2

| | |
|---------------------|---------------|
| Motor MFG / Frame | BALDOR / 254T |
| Horsepower / RPM | 7.5 / 1180 |
| Rated Volts / Phase | 460 / 3 |
| Rated Amperage / SF | 11.4 / 1.15 |

Test Data

| | Design | Actual |
|-----------------------|--------|----------------|
| Total CFM | 12950 | 12758 |
| Min OA CFM | 7850 | 7781 |
| Fan RPM | 3624 | 3033 |
| VFD Speed HZ | 62.0 | 52.0 |
| RL Voltage | 460 | 416/416/416 |
| RL Amperage | | 26.9/26.9/27.4 |
| Motor B.H.P. combined | 65.32 | 22.56 |

Test Data

| | Design | Actual |
|-----------------------|--------|-------------|
| Total CFM | 5100 | 4977 |
| Fan RPM | 1500 | 1495 |
| VFD Speed HZ | 76.0 | 76.0 |
| RL Voltage | 460 | 368/367/368 |
| RL Amperage | | 9.2/9.2/9.4 |
| Motor B.H.P. combined | 63.03 | 6.10 |

Performance Data

| | Design | Actual |
|--------------------|--------|--------|
| Suction S.P. | | -1.09" |
| Discharge S.P. | | 3.29" |
| Total SP | 8.594" | 4.38" |
| CW Coil P.D. | 1.03" | 1.44" |
| HW Coil P.D. | 0.023" | 0.08" |
| Pre Filters P.D. | 0.83" | 0.10" |
| Final Filters P.D. | 1.50" | 0.26" |
| | | |
| System Set Point | | 2.30" |
| Total ESP | 3.60" | 2.50" |

Performance Data

| | Design | Actual |
|----------------|--------|--------|
| Suction S.P. | | -2.42" |
| Discharge S.P. | | 0.27" |
| Total SP | 2.24" | 2.69" |
| | | |
| | | |
| | | |
| | | |
| | | |

connected load 12950
flow station calibration factor 1.084

National TAB

Project: Westover Hills Baptist Hospital
Address: San Antonio, TX

Asset: AHU-G-2 SUPPLY

| Asset | Area Served | Type | Size | DESIGN CFM | Prelim CFM | FINAL CFM | % to design |
|-------------------|-------------|------|------|-------------|------------|-------------|-------------|
| G201-1 | H.0201 | S1 | 8 | 150 | 126 | 151 | 1.01 |
| G201-2 | H.0202 | S1 | 8 | 150 | 120 | 145 | 0.97 |
| SAV-G-2-01 | | | | 300 | 246 | 296 | 0.99 |
| G202-1 | H.0202 | S1 | 12 | 350 | 287 | 359 | 1.03 |
| G202-2 | H.0217 | S1 | 8 | 100 | 167 | 104 | 1.04 |
| G202-3 | H.0206 | S1 | 12 | 350 | 387 | 364 | 1.04 |
| G202-4 | H.0208 | S1 | 12 | 350 | 462 | 373 | 1.07 |
| G202-5 | H.0214 | S1 | 12 | 350 | 440 | 360 | 1.03 |
| G202-6 | H.0215 | S1 | 12 | 350 | 320 | 339 | 0.97 |
| G202-7 | H.0213 | S1 | 12 | 350 | 310 | 329 | 0.94 |
| G202-8 | H.0213 | S1 | 12 | 350 | 274 | 337 | 0.96 |
| G202-9 | H.0212 | S1 | 12 | 350 | 338 | 347 | 0.99 |
| SAV-G-2-02 | | | | 2900 | 2985 | 2912 | 1.00 |
| G203-1 | H.0218 | S1 | 10 | 300 | 381 | 304 | 1.01 |
| G203-2 | H.0218 | S1 | 10 | 300 | 293 | 307 | 1.02 |
| SAV-G-2-03 | | | | 600 | 674 | 611 | 1.02 |
| G204-1 | H.0213 | S1 | 12 | 325 | 387 | 316 | 0.97 |
| G204-2 | H.0214 | S1 | 10 | 250 | 320 | 240 | 0.96 |
| G204-3 | H.0212 | S1 | 10 | 250 | 229 | 263 | 1.05 |
| G204-4 | H.0212 | S1 | 10 | 250 | 266 | 270 | 1.08 |
| G204-5 | H.0213 | S1 | 12 | 325 | 387 | 331 | 1.02 |
| SAV-G-2-04 | | | | 1400 | 1589 | 1420 | 1.01 |
| G205-1 | H.0209 | S1 | 10 | 275 | 268 | 273 | 0.99 |
| G205-2 | H.0209 | S1 | 10 | 250 | 295 | 254 | 1.02 |
| G205-3 | H.0208 | S1 | 10 | 275 | 290 | 281 | 1.02 |
| SAV-G-2-05 | | | | 800 | 853 | 808 | 1.01 |

National TAB

Project: Westover Hills Baptist Hospital
Address: San Antonio, TX

Asset: AHU-G-2 SUPPLY

| Asset | Area Served | Type | Size | DESIGN CFM | Prelim CFM | FINAL CFM | % to design |
|-------------------|-------------|------|------|-------------|------------|-------------|-------------|
| G206-1 | H.0211 | S1 | 10 | 250 | 341 | 261 | 1.04 |
| G206-2 | H.0211 | S1 | 10 | 250 | 440 | 257 | 1.03 |
| G206-3 | H.0210 | S1A | 8 | 100 | 23 | 94 | 0.94 |
| SAV-G-2-06 | | | | 600 | 804 | 612 | 1.02 |
| G207-1 | H.0319 | S1 | 8 | 175 | 140 | 179 | 1.02 |
| G207-2 | H.0319 | S1 | 8 | 175 | 169 | 182 | 1.04 |
| SAV-G-2-07 | | | | 350 | 309 | 361 | 1.03 |
| G208-1 | H.0315 | S1 | 10 | 300 | 244 | 281 | 0.94 |
| G208-2 | H.0315 | S1 | 10 | 300 | 257 | 294 | 0.98 |
| G208-3 | H.0305 | S1A | 8 | 100 | 120 | 103 | 1.03 |
| G208-4 | H.0317 | S1 | 12 | 350 | 266 | 339 | 0.97 |
| G208-5 | H.0317 | S1 | 12 | 350 | 323 | 362 | 1.03 |
| G208-6 | H.0314 | S1 | 12 | 350 | 373 | 352 | 1.01 |
| G208-7 | H.0314 | S1 | 12 | 350 | 320 | 357 | 1.02 |
| SAV-G-2-08 | | | | 2100 | 1903 | 2088 | 0.99 |
| G209-1 | H.0314 | S1 | 10 | 250 | 383 | 239 | 0.96 |
| G209-2 | H.0314 | S1 | 10 | 250 | 460 | 231 | 0.92 |
| G209-3 | H.0313 | S1 | 10 | 250 | 376 | 246 | 0.98 |
| G209-4 | H.0312 | S1 | 10 | 250 | 461 | 245 | 0.98 |
| SAV-G-2-09 | | | | 1000 | 1680 | 961 | 0.96 |
| G210-1 | H.0311 | S7 | 10 | 200 | 205 | 209 | 1.05 |
| G210-2 | H.0311 | S7 | 10 | 200 | 218 | 207 | 1.04 |
| G210-3 | H.0311 | S7 | 10 | 200 | 208 | 203 | 1.02 |
| G210-4 | H.0311 | S7 | 10 | 200 | 134 | 191 | 0.96 |
| G210-5 | H.0311 | S7 | 8 | 100 | 60 | 94 | 0.94 |
| SAV-G-2-10 | | | | 900 | 825 | 904 | 1.00 |

National TAB

Project: Westover Hills Baptist Hospital
Address: San Antonio, TX

Asset: AHU-G-2 RETURN

| Asset | Area Served | Type | Size | DESIGN CFM | Prelim CFM | FINAL CFM | % to design |
|-------------------|-------------|--------|-------|-------------|------------|-------------|-------------|
| GR201-1 | H.0201 | R1 | 8 | 50 | 26 | 47 | 0.94 |
| GR201-2 | H.0202 | R1 | 8 | 50 | 29 | 50 | 1.00 |
| RAV-G-2-01 | | | | 100 | 55 | 97 | 0.97 |
| GR203-1 | H.0218 | R1 | 14 | 500 | 608 | 493 | 0.99 |
| RAV-G-2-03 | | | | 500 | 608 | 493 | 0.99 |
| GR207-1 | H.0319 | R1 | 10 | 250 | 132 | 249 | 1.00 |
| RAV-G-2-07 | | | | 250 | 132 | 249 | 1.00 |
| GR208-1 | H.0318 | R1 | 18 | 1900 | 1843 | 1876 | 0.99 |
| RAV-G-2-08 | | | | 1900 | 1843 | 1876 | 0.99 |
| GR209-1 | H.0313 | R1 | 18 | 900 | 633 | 897 | 1.00 |
| RAV-G-2-09 | | | | 900 | 633 | 897 | 1.00 |
| GR210-1 | H.0311 | R5 SWG | 14X18 | 1000 | 954 | 987 | 0.99 |
| RAV-G-2-10 | | | | 1000 | 954 | 987 | 0.99 |
| GR211-1 | H.0309 | R1 | 8 | 150 | 68 | 151 | 1.01 |
| RAV-G-2-11 | | | | 150 | 68 | 151 | 1.01 |
| GR212-1 | H.0308 | R1 | 14 | 600 | 559 | 607 | 1.01 |
| RAV-G-2-12 | | | | 600 | 559 | 607 | 1.01 |
| GR214-1 | H.0310 | R5 SWG | 12X16 | 500 | 260 | 504 | 1.01 |
| RAV-G-2-14 | | | | 500 | 260 | 504 | 1.01 |
| | | | | | | | |
| | | | | | | | |