## VARIABLE REFRIGERANT VOLUME - INDOOR UNIT SCHEDULE

| TAG: ROOM | TYPE | CONNECTED TO: | | SUPPLY FAN | COOLING CAPACITY | | | | HEATING CAPACITY | | ELECTRICAL | | | DIMENSIONS | WEIGHT | NOMINAL TONNAGE | BASIS OF DESIGN (DAIKIN) | NOTES |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | CONDENSING UNIT | ZONE CHANGEOVER DEVICE | AIR FLOW RATE CFM | TOTAL Btu/hr | SENSIBLE Btu/hr | ENTERING AIR °F DB | ENTERING AIR °F WB | TOTAL Btu/hr | ENTERING AIR °Fdb | POWER SUPPLY Voltage - Phase | Min Circuit Amps MCA | Max Overcurrent Protection MOP | WxHxD Inch | Net lbs | | | |
| AHU-1 | 2Cass | CU1 | No | 320 | 8,833 | 5,623 | 75.2 | 65 | 11,100 | 68 | 208V 1ph | 0.8 | 15A | 22.6x11.3x22.6 | 42 | 0.8 | FXZQ09MVJU9 | |
| AHU-2 | 2Cass | CU1 | No | 320 | 8,833 | 5,623 | 75.2 | 65 | 11,100 | 68 | 208V 1ph | 0.8 | 15A | 22.6x11.3x22.6 | 42 | 0.8 | FXZQ09MVJU9 | |
| AHU-3 | 2Cass | CU1 | No | 320 | 8,833 | 5,623 | 75.2 | 65 | 11,100 | 68 | 208V 1ph | 0.8 | 15A | 22.6x11.3x22.6 | 42 | 0.8 | FXZQ09MVJU9 | |
| AHU-4 | 2Cass | CU1 | No | 320 | 8,833 | 5,623 | 75.2 | 65 | 11,100 | 68 | 208V 1ph | 0.8 | 15A | 22.6x11.3x22.6 | 42 | 0.8 | FXZQ09MVJU9 | |
| AHU-5 | 2Cass | CU1 | No | 320 | 8,833 | 5,623 | 75.2 | 65 | 11,100 | 68 | 208V 1ph | 0.8 | 15A | 22.6x11.3x22.6 | 42 | 0.8 | FXZQ09MVJU9 | |
| AHU-6 | 2Cass | CU1 | No | 320 | 8,833 | 5,623 | 75.2 | 65 | 11,100 | 68 | 208V 1ph | 0.8 | 15A | 22.6x11.3x22.6 | 42 | 0.8 | FXZQ09MVJU9 | |
| AHU-7 | 2Cass | CU1 | No | 335 | 11,133 | 6,746 | 75.2 | 65 | 14,000 | 68 | 208V 1ph | 0.8 | 15A | 22.6x11.3x22.6 | 42 | 1.0 | FXZQ12MVJU9 | |
| AHU-8 | 2Cass | CU1 | No | 335 | 11,133 | 6,746 | 75.2 | 65 | 14,000 | 68 | 208V 1ph | 0.8 | 15A | 22.6x11.3x22.6 | 42 | 1.0 | FXZQ12MVJU9 | |
| AHU-9 | 2Cass | CU1 | No | 335 | 11,133 | 6,746 | 75.2 | 65 | 14,000 | 68 | 208V 1ph | 0.8 | 15A | 22.6x11.3x22.6 | 42 | 1.0 | FXZQ12MVJU9 | |
| AHU-10 | 2Cass | CU1 | No | 335 | 11,133 | 6,746 | 75.2 | 65 | 14,000 | 68 | 208V 1ph | 0.8 | 15A | 22.6x11.3x22.6 | 42 | 1.0 | FXZQ12MVJU9 | |
| AHU-11 | 2Cass | CU1 | No | 320 | 8,833 | 5,623 | 75.2 | 65 | 11,100 | 68 | 208V 1ph | 0.8 | 15A | 22.6x11.3x22.6 | 42 | 0.8 | FXZQ09MVJU9 | |
| AHU-12 | 2Cass | CU1 | No | 320 | 8,833 | 5,623 | 75.2 | 65 | 11,100 | 68 | 208V 1ph | 0.8 | 15A | 22.6x11.3x22.6 | 42 | 0.8 | FXZQ09MVJU9 | |
| AHU-13 | 2Cass | CU1 | No | 335 | 11,133 | 6,746 | 75.2 | 65 | 14,000 | 68 | 208V 1ph | 0.8 | 15A | 22.6x11.3x22.6 | 42 | 1.0 | FXZQ12MVJU9 | |
| AHU-14 | 2Cass | CU1 | No | 335 | 11,133 | 6,746 | 75.2 | 65 | 14,000 | 68 | 208V 1ph | 0.8 | 15A | 22.6x11.3x22.6 | 42 | 1.0 | FXZQ12MVJU9 | |
| AHU-50 | 2Cass | CU1 | No | 320 | 6,967 | 4,736 | 75.2 | 65 | 8,700 | 68 | 208V 1ph | 0.8 | 15A | 22.6x11.3x22.6 | 42 | 0.5 | FXZQ07MVJU9 | |
| AHU-15 | DuctMS | CU2 | No | 450 | 11,169 | 7,790 | 75.2 | 65 | 13,990 | 68 | 208V 1ph | 1.4 | 15A | 27.6x11.8x27.6 | 62 | 1.0 | FXMQ12PBVJU | |
| AHU-16 | 2Cass | CU2 | No | 494 | 16,733 | 10,690 | 75.2 | 65 | 21,000 | 68 | 208V 1ph | 0.9 | 15A | 22.6x11.3x22.6 | 42 | 1.5 | FXZQ18MVJU9 | |
| AHU-17 | 2Cass | CU2 | No | 335 | 11,133 | 6,746 | 75.2 | 65 | 14,000 | 68 | 208V 1ph | 0.8 | 15A | 22.6x11.3x22.6 | 42 | 1.0 | FXZQ12MVJU9 | |
| AHU-18 | 2Cass | CU2 | No | 335 | 11,133 | 6,746 | 75.2 | 65 | 14,000 | 68 | 208V 1ph | 0.8 | 15A | 22.6x11.3x22.6 | 42 | 1.0 | FXZQ12MVJU9 | |
| AHU-19 | 2Cass | CU2 | No | 494 | 16,733 | 10,690 | 75.2 | 65 | 21,000 | 68 | 208V 1ph | 0.9 | 15A | 22.6x11.3x22.6 | 42 | 1.5 | FXZQ18MVJU9 | |
| AHU-20 | 2Cass | CU2 | No | 335 | 11,133 | 6,746 | 75.2 | 65 | 14,000 | 68 | 208V 1ph | 0.8 | 15A | 22.6x11.3x22.6 | 42 | 1.0 | FXZQ12MVJU9 | |
| AHU-21 | 2Cass | CU2 | No | 335 | 11,133 | 6,746 | 75.2 | 65 | 14,000 | 68 | 208V 1ph | 0.8 | 15A | 22.6x11.3x22.6 | 42 | 1.0 | FXZQ12MVJU9 | |
| AHU-22 | 2Cass | CU2 | No | 494 | 16,733 | 10,690 | 75.2 | 65 | 21,000 | 68 | 208V 1ph | 0.9 | 15A | 22.6x11.3x22.6 | 42 | 1.5 | FXZQ18MVJU9 | |
| AHU-23 | 2Cass | CU2 | No | 335 | 11,133 | 6,746 | 75.2 | 65 | 14,000 | 68 | 208V 1ph | 0.8 | 15A | 22.6x11.3x22.6 | 42 | 1.0 | FXZQ12MVJU9 | |
| AHU-24 | 2Cass | CU2 | No | 335 | 11,133 | 6,746 | 75.2 | 65 | 14,000 | 68 | 208V 1ph | 0.8 | 15A | 22.6x11.3x22.6 | 42 | 1.0 | FXZQ12MVJU9 | |
| AHU-25 | 2Cass | CU2 | No | 335 | 11,133 | 6,746 | 75.2 | 65 | 14,000 | 68 | 208V 1ph | 0.8 | 15A | 22.6x11.3x22.6 | 42 | 1.0 | FXZQ12MVJU9 | |
| AHU-26 | 2Cass | CU2 | No | 335 | 11,133 | 6,746 | 75.2 | 65 | 14,000 | 68 | 208V 1ph | 0.8 | 15A | 22.6x11.3x22.6 | 42 | 1.0 | FXZQ12MVJU9 | |
| AHU-51 | WallMt | CU2 | No | 260 | 7,500 | 6,400 | 75.2 | 65 | 0 | 0 | 208V 1ph | 0.4 | 15A | 31.3x11.38x9.3 | 26 | 0.5 | FXAQ07PVJU | |
| AHU-27 | 2Cass | CU3 | No | 335 | 11,133 | 6,746 | 75.2 | 65 | 14,000 | 68 | 208V 1ph | 0.8 | 15A | 22.6x11.3x22.6 | 42 | 1.0 | FXZQ12MVJU9 | |
| AHU-28 | 2Cass | CU3 | No | 335 | 11,133 | 6,746 | 75.2 | 65 | 14,000 | 68 | 208V 1ph | 0.8 | 15A | 22.6x11.3x22.6 | 42 | 1.0 | FXZQ12MVJU9 | |
| AHU-29 | 2Cass | CU3 | No | 320 | 8,833 | 5,623 | 75.2 | 65 | 11,100 | 68 | 208V 1ph | 0.8 | 15A | 22.6x11.3x22.6 | 42 | 0.8 | FXZQ09MVJU9 | |
| AHU-30 | DuctMS | CU3 | No | 317 | 6,984 | 5,128 | 75.2 | 65 | 8,803 | 68 | 208V 1ph | 0.6 | 15A | 21.7x11.8x27.6 | 55 | 0.5 | FXMQ07PBVJU | |
| AHU-31 | 2Cass | CU3 | No | 335 | 11,133 | 6,746 | 75.2 | 65 | 14,000 | 68 | 208V 1ph | 0.8 | 15A | 22.6x11.3x22.6 | 42 | 1.0 | FXZQ12MVJU9 | |
| AHU-32 | 2Cass | CU3 | No | 494 | 16,733 | 10,690 | 75.2 | 65 | 21,000 | 68 | 208V 1ph | 0.9 | 15A | 22.6x11.3x22.6 | 42 | 1.5 | FXZQ18MVJU9 | |
| AHU-33 | 2Cass | CU3 | No | 335 | 11,133 | 6,746 | 75.2 | 65 | 14,000 | 68 | 208V 1ph | 0.8 | 15A | 22.6x11.3x22.6 | 42 | 1.0 | FXZQ12MVJU9 | |
| AHU-34 | 2Cass | CU3 | No | 320 | 8,833 | 5,623 | 75.2 | 65 | 11,100 | 68 | 208V 1ph | 0.8 | 15A | 22.6x11.3x22.6 | 42 | 0.8 | FXZQ09MVJU9 | |
| AHU-35 | 2Cass | CU3 | No | 335 | 11,133 | 6,746 | 75.2 | 65 | 14,000 | 68 | 208V 1ph | 0.8 | 15A | 22.6x11.3x22.6 | 42 | 1.0 | FXZQ12MVJU9 | |
| AHU-36 | 2Cass | CU3 | No | 335 | 11,133 | 6,746 | 75.2 | 65 | 14,000 | 68 | 208V 1ph | 0.8 | 15A | 22.6x11.3x22.6 | 42 | 1.0 | FXZQ12MVJU9 | |
| AHU-37 | 2Cass | CU3 | No | 494 | 16,733 | 10,690 | 75.2 | 65 | 21,000 | 68 | 208V 1ph | 0.9 | 15A | 22.6x11.3x22.6 | 42 | 1.5 | FXZQ18MVJU9 | |
| AHU-52 | WallMt | CU3 | No | 260 | 7,500 | 6,400 | 75.2 | 65 | 0 | 0 | 208V 1ph | 0.4 | 15A | 31.3x11.38x9.3 | 26 | 0.5 | FXAQ07PVJU | |
| AHU-38 | 2Cass | CU4 | No | 494 | 16,733 | 10,690 | 75.2 | 65 | 21,000 | 68 | 208V 1ph | 0.9 | 15A | 22.6x11.3x22.6 | 42 | 1.5 | FXZQ18MVJU9 | |
| AHU-39 | 2Cass | CU4 | No | 320 | 6,967 | 4,736 | 75.2 | 65 | 8,700 | 68 | 208V 1ph | 0.8 | 15A | 22.6x11.3x22.6 | 42 | 0.5 | FXZQ07MVJU9 | |
| AHU-40 | 2Cass | CU4 | No | 320 | 6,967 | 4,736 | 75.2 | 65 | 8,700 | 68 | 208V 1ph | 0.8 | 15A | 22.6x11.3x22.6 | 42 | 0.5 | FXZQ07MVJU9 | |
| AHU-41 | 2Cass | CU4 | No | 320 | 6,967 | 4,736 | 75.2 | 65 | 8,700 | 68 | 208V 1ph | 0.8 | 15A | 22.6x11.3x22.6 | 42 | 0.5 | FXZQ07MVJU9 | |
| AHU-42 | 2Cass | CU4 | No | 335 | 11,133 | 6,746 | 75.2 | 65 | 14,000 | 68 | 208V 1ph | 0.8 | 15A | 22.6x11.3x22.6 | 42 | 1.0 | FXZQ12MVJU9 | |
| AHU-43 | 2Cass | CU4 | No | 494 | 16,733 | 10,690 | 75.2 | 65 | 21,000 | 68 | 208V 1ph | 0.9 | 15A | 22.6x11.3x22.6 | 42 | 1.5 | FXZQ18MVJU9 | |
| AHU-44 | 2Cass | CU4 | No | 494 | 16,733 | 10,690 | 75.2 | 65 | 21,000 | 68 | 208V 1ph | 0.9 | 15A | 22.6x11.3x22.6 | 42 | 1.5 | FXZQ18MVJU9 | |
| AHU-45 | DuctMS | CU4 | No | 450 | 11,169 | 7,790 | 75.2 | 65 | 13,990 | 68 | 208V 1ph | 1.4 | 15A | 27.6x11.8x27.6 | 62 | 1.0 | FXMQ12PBVJU | |
| AHU-46 | 2Cass | CU4 | No | 494 | 16,733 | 10,690 | 75.2 | 65 | 21,000 | 68 | 208V 1ph | 0.9 | 15A | 22.6x11.3x22.6 | 42 | 1.5 | FXZQ18MVJU9 | |
| AHU-47 | 2Cass | CU4 | No | 320 | 6,967 | 4,736 | 75.2 | 65 | 8,700 | 68 | 208V 1ph | 0.8 | 15A | 22.6x11.3x22.6 | 42 | 0.5 | FXZQ07MVJU9 | |
| AHU-48 | 2Cass | CU4 | No | 320 | 6,967 | 4,736 | 75.2 | 65 | 8,700 | 68 | 208V 1ph | 0.8 | 15A | 22.6x11.3x22.6 | 42 | 0.5 | FXZQ07MVJU9 | |
| AHU-49 | 2Cass | CU4 | No | 320 | 6,967 | 4,736 | 75.2 | 65 | 8,700 | 68 | 208V 1ph | 0.8 | 15A | 22.6x11.3x22.6 | 42 | 0.5 | FXZQ07MVJU9 | |

**Schedule Notes: -**

- New and extremely compact casing (2'x2') enables unit to fit flush into ceilings and match standard architectural modules, without cutting ceiling tiles
- Built-in condensate pump (FXDQ_M, FXFQ_P, FXFQ_T, FXMQ_M, FXMQ_P, FXUQ_P, FXZQ_M)
- Standard Limited Warranty: 10-year warranty on compressor and all parts
- Ease of installation with auto adjusting airflow at commissioning based on external static pressure
- Easy maintenance with service access from below
- MERV 8 filters on DuctMS models

## EXHAUST FAN SCHEDULE

| TAG | MANUFACTURER | MODEL | LOCATION | CFM | E.S.P. (IN W.C.) | VOLTAGE (V/PH/Hz) | OPERATING POWER | DRIVE TYPE | DUCT SIZE CONNECTION |
|---|---|---|---|---|---|---|---|---|---|
| EF-1-X | GREENHECK | SP-B90 | RESTROOM | 70 | 0.25 | 115/1/60 | 16 W | DIRECT | 4"ø |

NOTES:

1. EXHAUST FANS SHALL HAVE INTEGRAL BACK DRAFT DAMPERS
2. RESTROOM EXHAUST FANS SHALL BE INTERLOCKED WITH LIGHT SWITCH COORDINATE WITH ELECTRICAL

## OUTDOOR AIR CALCULATIONS

| UNIT | SPACE TYPE | SQFT | OCCUPANCY DENSITY PER 1000 SQFT | ESTIMATED OCCUPANCY | VENTILATION RATE CFM/PERSON | VENTILATION RATE CFM/SQFT | MINIMUM OUTDOOR AIR REQUIRED (CFM) | OUTDOOR AIR PROVIDED (CFM) |
|---|---|---|---|---|---|---|---|---|
| OAU-1 | DAYCARE | 574.7 | 25 | 18 | 10 | 0.18 | 283 | 3500 |
| | DAYCARE | 565 | 25 | 18 | 10 | 0.18 | 282 | |
| | DAYCARE | 565 | 25 | 18 | 10 | 0.18 | 282 | |
| | DAYCARE | 631.1 | 25 | 20 | 10 | 0.18 | 314 | |
| | DAYCARE | 631.1 | 25 | 20 | 10 | 0.18 | 314 | |
| | DAYCARE | 631.1 | 25 | 20 | 10 | 0.18 | 314 | |
| | CLASSROOM | 140 | 25 | 4 | 10 | 0.12 | 57 | |
| | MULTIUSE | 1085.8 | 100 | 109 | 7.5 | 0.06 | 883 | |
| | CORRIDOR | 631.1 | - | - | 0 | 0.06 | 610 | |
| OAU-2 | OFFICE | 126.5 | 5 | 1 | 5 | 0.06 | 13 | 2500 |
| | RECEPTION | 85.1 | 30 | 3 | 5 | 0.06 | 20 | |
| | LOBBY | 466.2 | - | 5 | 7.5 | 0.06 | 65 | |
| | MULTIUSE | 1075 | 100 | 108 | 7.5 | 0.06 | 875 | |
| | OFFICE | 606 | 5 | 33 | 5 | 0.06 | 201 | |
| | OFFICE | 120 | 5 | 3 | 5 | 0.06 | 22 | |
| | OFFICE | 120 | 5 | 3 | 5 | 0.06 | 22 | |
| | OFFICE | 240 | 5 | 3 | 5 | 0.06 | 29 | |
| | CONFERENCE | 847.8 | 50 | 57 | 5 | 0.06 | 336 | |
| | STORAGE | 184 | - | - | 0 | 0.12 | 22 | |
| | OFFICE | 120 | 5 | 3 | 5 | 0.06 | 22 | |
| | OFFICE | 120 | 5 | 3 | 5 | 0.06 | 22 | |
| | OFFICE | 282 | 5 | 19 | 5 | 0.06 | 112 | |
| | OFFICE | 549 | 5 | 6 | 5 | 0.06 | 63 | |
| | CORRIDOR | 1050.6 | - | - | 0 | 0.06 | 63 | |
| OAU-3 | DAYCARE | 356.2 | 25 | 12 | 10 | 0.18 | 184 | 3600 |
| | DAYCARE | 351.7 | 25 | 12 | 10 | 0.18 | 183 | |
| | DAYCARE | 356.2 | 25 | 12 | 10 | 0.18 | 184 | |
| | DAYCARE | 360 | 25 | 12 | 10 | 0.18 | 185 | |
| | DAYCARE | 440.3 | 25 | 14 | 10 | 0.18 | 219 | |
| | DAYCARE | 355.6 | 25 | 12 | 10 | 0.18 | 184 | |
| | DAYCARE | 356.2 | 25 | 12 | 10 | 0.18 | 184 | |
| | DAYCARE | 355.6 | 25 | 12 | 10 | 0.18 | 184 | |
| | DAYCARE | 352.1 | 25 | 12 | 10 | 0.18 | 183 | |
| | DAYCARE | 351.7 | 25 | 12 | 10 | 0.18 | 183 | |
| | STORAGE | 187.3 | - | - | 0 | 0.12 | 22 | |
| | OFFICE | 68.2 | 5 | 3 | 5 | 0.06 | 19 | |
| | OFFICE | 289.5 | 5 | 3 | 5 | 0.06 | 32 | |
| | MULTIUSE | 1085.8 | 100 | 109 | 7.5 | 0.06 | 883 | |
| | CORRIDOR | 1220 | - | - | 0 | 0.06 | 73 | |
| | | | | | | TOTALS | - | - |

A. OCCUPANT DENSITIES AND VENTILATION RATES BASED ON TABLE 403.3 OF THE 2014 FLORIDA MECHANICAL CODE. ACTUAL OCCUPANCY BASED ON INFORMATION PROVIDED BY OWNER AND/OR ARCHITECT.

B. ALL DUCTWORK SHALL BE KEPT SEALED TO PREVENT CONTAMINATION BY DUST OR OTHER DEBRIS DURING CONSTRUCTION. SEAL THE END OF DUCTWORK WITH PLASTIC SHEETING AND DUCT TAPE. PROTECT ALL DUCTWORK STORED ON-SITE PRIOR TO FABRICATION AND INSTALLATION IN A SIMILAR FASHION.

C. ALL EQUIPMENT SHALL BE SUPPLIED AND INSTALLED WITH PROVISIONS FOR IN-PLACE CLEANING AND MAINTENANCE TASKS IN ACCORDANCE WITH THE REQUIREMENTS OF ASHRAE STANDARD 62.

D. CHANGE IN SPACE USE, CONTAMINANTS, OR OPERATION MAY REQUIRE A RE-EVALUATION OF THE DESIGN AND IMPLEMENTATION OF NEEDED CHANGES.

**PERMIT / BID SET: 09/07/16**

**PRIOR TO SUBMITTING THE BID, THE CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS AND INFORM THE ARCHITECT AND THE ENGINEER OF ANY DISCREPANCY BETWEEN THESE DOCUMENTS AND THE EXISTING CONDITIONS AND SHALL INCLUDE IN THE BID TO CORRECT THE SAME AS DIRECTED. THE ENGINEER AND THE ARCHITECT, ARE NOT RESPONSIBLE FOR ANY ADDITIONAL COSTS RESULTING FROM VERIFIABLE EXISTING CONDITIONS DISCOVERED AFTER CONTRACT HAS BEEN AWARDED. NO CHANGES SHALL BE MADE TO THESE PLANS WITHOUT PRIOR APPROVAL FROM THE ENGINEER OF RECORD. ALL CHANGES SHALL BE SUBMITTED FOR REVIEW PRIOR TO INSTALLATION. NOT FOR BID UNTIL PERMIT HAS BEEN ISSUED.**

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Keith M. Spina # AR13419

New Building For:
OPPORTUNITY INC.
EARLY LEARNING CENTER
4171 Westgate Avenue
Palm Beach County, Florida



Revisions:

Project no: 15435
Date: 09.09.16
Drawn by: RB/SK/JS
Project Architect: BJ

MECHANICAL SCHEDULES

M0.3

09.09.16 BID/PERMIT