

NOTES:

1. MINIMUM CLEARANCE PER MC 506.3.1.3.3: 10 HORIZONTALLY FROM PARTS OF THE SAME OR CONTIGUOUS BUILDINGS, ADJACENT BUILDINGS AND ADJACENT PROPERTY LINES, 10 FEET ABOVE THE ADJOINING GRADE LEVEL, 10 FEET HORIZONTALLY FROM OR NOT LESS THAN 3 FEET ABOVE AIR INTAKE OPENINGS INTO ANY BUILDING, EXCEPT: OUTLETS SHALL TERMINATE NOT LESS THAN 5 FEET HORIZONTALLY FROM PARTS OF THE SAME OR CONTIGUOUS BUILDING, AN ADJACENT BUILDING, ADJACENT PROPERTY LINE AND AIR INTAKE OPENINGS INTO A BUILDING WHERE AIR FROM THE EXHAUST OUTLET DISCHARGES AWAY FROM THE BUILDING.
2. PASSIVE MAKEUP AIR INTAKE CLEARANCE PER MC 401.4 (1): 10 FEET FROM LOT LINES OR BUILDINGS ON THE SAME LOT.
3. ENVIRONMENTAL AIR EXHAUST CLEARANCE PER MC 501.3.1 (3): 3 FEET FROM PROPERTY LINES; 3 FEET FROM OPERABLE OPENINGS INTO BUILDINGS, AND 10 FEET FROM MECHANICAL AIR INTAKES.
4. EXHAUST AIR INTAKE CLEARANCE PER MC 501.3.1 (3): 10 FEET FROM LOT LINES OR BUILDINGS ON THE SAME LOT; 10 FEET HORIZONTALLY FROM ANY HAZARDOUS OR NOXIOUS CONTAMINANT SOURCE.
5. TERMINATION OF BOILER VENTS PER MC 804 WITH POWER EXHAUSTERS SHALL BE LOCATED NOT LESS THAN 10-FT FROM THE LOT LINE OR FROM ADJ BUILDINGS AND EXHAUST SHALL BE LOCATED AWAY FROM BUILDINGS. HORIZONTAL TERMINATION: 1) ADJ. TO WALKWAYS, TERMINATION OF MECHANICAL DRAFT SYSTEMS SHALL BE NOTED OTHER THAN 10-FT ABOVE LEVEL OF WALKWAY; 2) VENT SHALL TERMINATE AT LEAST 3 FT ABOVE GRADE; 3) VENT SHALL NOT BE LOCATED CLOSER THAN 3-FT TO AN ADJACENT BUILDING OR STRUCTURE; 4) VENT SHALL NOT BE LOCATED CLOSER THAN 3-FT TO A LOT LINE; 5) VENT SHALL NOT BE LOCATED CLOSER THAN 3-FT TO AN INTERIOR CORNER FORMED BY TWO WALLS PERPENDICULAR TO EACH OTHER; 5) VENT SHALL NOT BE MOUNTED DIRECTLY ABOVE OR WITHIN 3-FT HORIZONTALLY FROM AN OIL TANK VENT OR GAS METER; 6) BOTTOM OF THE VENT TERMINATION SHALL BE LOCATED AT LEAST 12" ABOVE FINISHED GRADE. VERTICAL TERMINATION: 1) ADJ. TO WALKWAYS, TERMINATION SHALL BE NOTED OTHER THAN 10-FT ABOVE GRADE; 2) VENT SHALL NOT BE LOCATED CLOSER THAN 3-FT TO AN ADJACENT BUILDING OR STRUCTURE; 3) VENT SHALL NOT BE LOCATED CLOSER THAN 3-FT TO A LOT LINE; 4) VENT SHALL NOT BE LOCATED BELOW AN ADJACENT ROOF STRUCTURE. SHALL BE LOCATED NOT LESS THAN 3-FT FROM THE STRUCTURE; 4) VENTS SHALL TERMINATE AT LEAST 4-FT ABOVE, 4-FT HORIZONTALLY FROM OR 1-FT ABOVE ANY DOOR, WINDOW OR GRAVITY AIR INLET INTO BUILDING; 5) VENT CAP SHALL BE INSTALLED TO PREVENT RAIN FROM ENTERING THE VENT SYSTEM AND 6) TERMINATION SHALL BE LOCATED NOT LESS THAN 3-FT FROM THE DOOR OF THE ROOF STRUCTURE.
6. ARCH SHALL PROVIDE PER ROLL-UP DOOR FOR GARAGE INTAKE.

[illegible]

DESIGNATION	SYSTEM	TYPE	DIMENSIONS			AIRFLOW, CFM	VELOCITY, FPM	IDEAL DP IN.W.G.	MAX DP W/SYS EFF. IN.W.G.	MINIMUM DYNAMIC INSERTION LOSS, Db						BASIS OF DESIGN VIBRO-AcouSTICS MODEL NUMBER	NOTES
			DUCT WIDTH, IN.	DUCT HEIGHT, IN.	LENGTH, IN.					OCTAVE BAND CENTER FREQUENCY, HZ							
										125	250	500	1000	2000	4000		
SA-A-R-1	BLDG-A-WEST-DISCHARGE	RD	86	84	36	43666	+870	0.13	0.26	8	14	17	19	17	14	RD-MLV-31425	
SA-A-R-2	BLDG-A-EAST-DISCHARGE	RD	86	84	36	87544	+1745	0.14	0.28	3	7	14	19	16	14	RD-HV-31425	
SA-B-R-1	BLDG-B-NORTH-DISCHARGE	RD	86	84	36	43666	+870	0.13	0.26	8	14	17	19	17	14	RD-MLV-31425	
SA-B-R-2	BLDG-B-SOUTH-DISCHARGE	RD	86	84	36	87544	+1745	0.14	0.28	3	7	14	19	16	14	RD-HV-31425	

TAG NUMBER	SILENCER MODULE	EQUIPMENT SERVED	QUANTITY	SIZE (in)			AIRFLOW (CFM)	P.D. INCLUDING SYSTEM EFFECTS (in.wg)	PROJECT SOUND REQUIREMENT	MANUFACTURER	MODEL NUMBER	NOTES
				W	L	H						
SA-C-R-1	INTAKE SILENCER	ASHP-C-R-1	1	288	204	36	-95178	0.09	55 dBA ABOUT 7 FT TO THE CLOSEST PROPERTY LINE	VIBRO-ACOUSTICS	VA-AY29138	1.3.5.5.6
SA-C-R-2	DISCHARGE SILENCER	ASHP-C-R-1	1	198	86	96	95178	0.23				2.3.4.5.6
	PACKAGE OVERALL DIMENSION	ASHP-C-R-1	1	288	204	192	N/A	N/A				-

NOTES:

1. Rectangular Dissipative silencer integrated and to be installed on top of the pit wall(provided by others). Include 2" x 2" birdscreen at the inlet.
2. Rectangular Dissipative silencer integrated and to be installed on top of the chiller with access doors. Include 2" x 2" birdscreen at the outlet.
3. Manufacturer must design self-supporting structural steel and withstand the seismic and wind load requirement. Manufacturer to provide calculations with PE stamp during the submittal process.
4. Alternate manufacturer must submit acoustical calculations with PE stamp to demonstrate that the silencers will result to dBA requirement as scheduled.
5. Alternate manufacturer must submit pressure drop calculations including system effects with PE stamp.
6. For non-basis of design product, contractor is financially responsible to meet the project sound requirement.