

AC UNIT SCHEDULE

NO.	TOTAL BTU	CFM	O.A.	HEAT (KW)		ELECTRICAL		COMMENTS
				VOLTAGE	MCA	CKT BRKR		
1	120,000	4000	1130	208V,3Ø	55.4			
2	120,000	4000	1125	208V,3Ø	55.4			

ACTUAL UNIT TO BE SELECTED BY OWNER. INSTALL PER MANUFACTURER RECOMMENDATIONS

FRESH AIR REQUIREMENTS PER IMC 2003, TABLE 403.3*

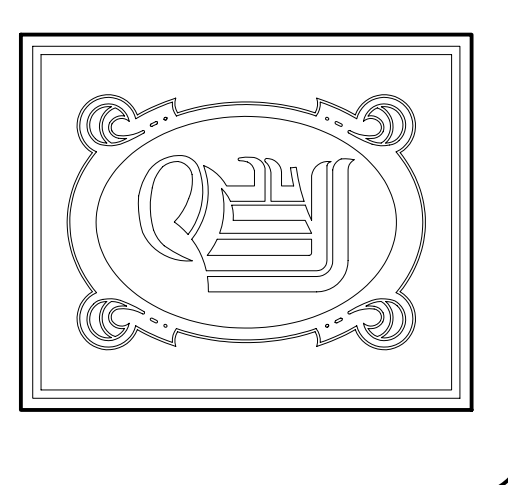
ROOM NAME	SQUARE FEET	OCCUPANT LOAD	O.A. PER 1000	O.A. REQD	AC ZONE	TOTAL REQ. O.A.
MULTI-USE ASSEMBLY	1500	1500	7.5	1125		1130 CFM
OFFICE	100	1	5	5		
MULTI-USE ASSEMBLY	1500	1500	7.5	1125		1125 CFM
MULTI-USE ASSEMBLY	1500	1500	7.5	1125		1125 CFM

* FRESH AIR vs. RETURN AIR RATIO SHALL NOT EXCEED THE MANUFACTURER'S RECOMMENDED PERCENTAGES

AIR BALANCE SCHEDULE

	AHU-1	AHU-2	EF-1
OUTSIDE AIR FLOW (CFM)	1130	1125	
RETURN AIR FLOW (CFM)	2870	2875	
SUPPLY AIR FLOW (CFM)	4000	4000	
EXHAUST AIR FLOW (CFM)		75	
BUILDING PRESSURE (CFM)	+1130	+1125	-75
QUANTITIES	1	1	2
TOTAL PRESURIZATIONS	+1130	+1125	-150
REMARKS			
RESULTING BUILDING PRESURIZATION (CFM) =	+2105		

- MECHANICAL NOTES
- CONCEALED DUCTWORK TO BE UL-181, CLASS 1, FIBERGLASS DUCTBOARD. DUCTS SHALL BE SIZED TO LIMIT MAIN DUCTS TO 1000 CFM & SECONDARY DUCTS TO 800 CFM. TO BE INSTALLED PER SMACNA STANDARDS.
 - EXPOSED DUCTWORK TO BE GALVANIZED SHEET METAL PER SMACNA STANDARDS. LINE WITH NEOPRENE COATED 1.0" 1.5 POUNDS PER CUBIC FOOT DUCT INSULATION.
 - ROUND FLEXIBLE DUCT TO BE UL-181, CLASS 1, AIR DUCT MATERIALS.
 - DUCT SIZES SHOWN ARE CLEAR INSIDE DIMENSIONS.
 - IN ALL SYSTEMS OVER 2000 CFM AND LESS THAN 15,000 CFM, SMOKE DETECTORS SHALL BE INSTALLED IN ACCORDANCE WITH NFPA 72E IN THE RETURN DUCT DOWNSTREAM OF THE AIR HANDLING UNIT AND ALL FILTERS TO AUTOMATICALLY STOP THE FAN.
 - PROVIDE U.L. LISTED 1.25" F.R. FIRESTOP IN RETURN AIR OF EACH SYSTEM UNDER 2000 CFM TO SHUT DOWN THE FAN IN THE EVENT OF FIRE.
 - PROVIDE U.L. RATED FIRE DAMPERS WHERE REQUIRED AT ALL DUCT PENETRATIONS OF FIRE-RATED ASSEMBLIES AND WHERE REQUIRED BY CODE, INCLUDING OUTSIDE AIR INTAKES.
 - CONDENSATE DRAINS TO BE PVC PIPE RUN TO PLUMBERS P-TRAP WITHIN FIVE FEET OF AIR HANDLING UNITS.
 - ALL AIR HANDLING SYSTEMS TO BE BALANCED TO ASSURE PROPER AIR FLOWS PER PLANS.
 - ALL THERMOSTATS TO BE AUTOMATIC CHANGEOVER WITH HEAT SWITCH.
 - EXHAUST FAN EQUAL TO BROAN MODEL NO. 100 CF. OR EQUAL. FAN SHALL BE CONTROLLED BY A SWITCH ON THE WALL IN THE SAME LOCATION AS LIGHT SWITCHING. PROVIDE BACK DRAFT DAMPER. PROVIDE AND INSTALL WATER PROOF GRILLE VENT IN PROPER ROOF LOCATION FOR PLUMBING FIXTURE EXHAUST.
 - ALL SUPPLY AIR VENTS SHALL BE EQUIPPED WITH AIR CONTROL DAMPERS.
 - LOCATE OUTDOOR UNITS AS SHOWN ON ARCH. DWGS.
 - REFRIGERANT LINES SHALL BE SIZED BY UNIT MANUFACTURER AND INSTALLED ACCORDING TO MANUFACTURER'S INSTRUCTIONS.
 - FRESH AIR SHALL BE SUPPLIED TO EACH AIR HANDLER THROUGH EXTERIOR WALL DUCT SUPPLIED WITH A CONTROL DAMPER.
 - INSTALL FIRE DAMPER WHERE 5 A. & R.A. DUCTS PENETRATE 1 HOUR RATED CEILINGS.
 - ALL ELECTRICAL, MECHANICAL, AND PLUMBING PENETRATING FIRE WALLS SHALL BE FIRE CAULKED. PENETRATIONS THROUGH RATED CONSTRUCTION SHALL BE SEALED WITH A MATERIAL CAPABLE OF PREVENTING THE PASSAGE OF FLAMES AND HOT GASES WHEN TESTED IN ACCORDANCE WITH ASTM-E8-14)
 - MECHANICAL PLANS ARE DRAWN DIAGRAMMATICALLY. CONTRACTOR TO ROUTE DUCT SYSTEMS PER FIELD CONDITIONS.
 - AREA OF REFUGE SHALL BE DESIGNED IN ACCORDANCE WITH NFPA 92A. TO INCLUDE STAIRWELL PRESURIZATION SYSTEMS, PROVIDE PROPER ACTIVATION AND CONTROL SYSTEMS.



DAMMON ENGINEERING, INC.
 CHIEF ENGINEER
 EMMETT DAMMON, P.E.
 CHIEF ARCHITECT
 ROBERT WILTSE

1095 FLORIDA AVENUE
 SLIDELL, LA, 70458
 OFFICE: 985-649-5632
 FAX: 985-641-5950
 WWW.DAMMONENGINEERING.COM
 EMAIL: DAMMONENG@BELLSouth.NET

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MECHANICAL
 PLAN

REV:
 SCALE: AS NOTED
 JOB#: 2031
 DATE: 6-3-09
 SHEET 5