

FRESH AIR REQUIREMENTS PER
IMC 2003, TABLE 403.3

ROOM NUMBER	SQUARE FEET	OCCUPANTS	CFM O.A. / OCC.	TOTAL REQ. O.A. (cfm)
		AC#1 - 1 & TON		1543
100	175	11	15	165
101	104	1	20	20
102	107	1	20	20
HAL 103	64		0.05 cfm / sq ft	3
CLOSET 104	-	-	-	-
CORRIDOR 105	299		0.05 cfm / sq ft	15
HAL 106	55		0.05 cfm / sq ft	3
107a, b, c			100cfm / w.c.	200
108			100cfm / w.c.	100
109	89	5	20	100
ALCOVE 110	81		0.05 cfm / sq ft	4
111	133	1	20	20
112	123	1	20	20
113	33		0.15 cfm / sq ft	5
114	400	20	20	400
115	140	1	20	20
116	135	1	20	20
117	140	1	20	20
118	120	1	20	20
119	226	5	20	100
120			100cfm / w.c.	100
HAL 121	73		0.05 cfm / sq ft	4
122	192	1	20	20
ALCOVE 123	79		0.05 cfm / sq ft	4
HAL 124	62		0.05 cfm / sq ft	3
CORRIDOR 125	333		0.05 cfm / sq ft	17
126	99	1	20	20
127	99	1	20	20
128	99	1	20	20
129	99	1	20	20
130	99	1	20	20
131	99	1	20	20
132	99	1	20	20

AIR BALANCE SCHEDULE

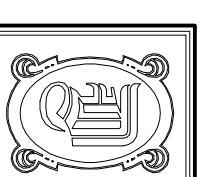
	AC-1	EF-1	EF-2	EF-3	EF-4
SUPPLY AIR FLOW (CFM)	6000				
OUTSIDE AIR FLOW (CFM)	1543				
RETURN AIR FLOW (CFM)	4457				
EXHAUST AIR FLOW (CFM)		100	100	100	100
BUILDING PRESSURE (CFM)	+1543	-100	-100	-100	-100
QUANTITIES	1	1	1	1	1
TOTAL PRESURIZATIONS	+1543	-100	-100	-100	-100
REMARKS					
RESULTING BUILDING PRESURIZATION (CFM) =	+1143				

MECHANICAL NOTES

1. CONCEALED DUCTWORK TO BE UL-181, CLASS 1, FIBERGLASS DUCTBOARD. DUCTS SHALL BE SIZED TO UNIT MAIN DUCTS TO 1000 CFM & SECONDARY DUCTS TO 800 CFM. TO BE INSTALLED PER SMACNA STANDARDS.
2. EXPOSED DUCTWORK TO BE GALVANIZED SHEET METAL PER SMACNA STANDARDS. LINE WITH NEOPRENE JOINT 1.0" 1.5 POUNDS PER CUBIC FOOT DUCT INSULATION.
3. ROUND FLEXIBLE DUCT TO BE UL-181, CLASS 1, AIR DUCT MATERIALS.
4. DUCT SIZES SHOWN ARE CLEAR INSIDE DIMENSIONS.
5. 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.
6. WHERE MULTIPLE AIR HANDLING SYSTEMS SHARE COMMON SUPPLY OR RETURN AIR DUCTS OR PLENUMS WITH A COMBINED CAPACITY GREATER THAN 2000 CFM, THE RETURN AIR SYSTEM SHALL BE PROVIDED WITH SMOKE DETECTORS IN ACCORDANCE WITH IMC 06 SEC. 606.2.1.
7. 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.
8. CONDENSATE DRAINS TO BE PVC PIPE RUN TO PLUMBERS P-TRAP WITHIN FIVE FEET OF AIR HANDLING UNITS.
9. ALL AIR HANDLING SYSTEMS TO BE BALANCED TO ASSURE PROPER AIR FLOWS PER PLANS.
10. ALL THERMOSTATS TO BE AUTOMATIC CHANGEOVER WITH HEAT SWITCH.
11. 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 SWITCHES. PROVIDE BACK DRAFT DAMPER.
12. PROVIDE AND INSTALL WATER PROOF GRILLE VENT IN PROPER ROOF LOCATION FOR PLUMBING FIXTURE EXHAUST.
13. ALL SUPPLY AIR VENTS SHALL BE EQUIPPED WITH AIR CONTROL DAMPERS.
14. LOCATE OUTDOOR UNITS AS SHOWN ON ARCH. DWGS.
15. REFRIGERANT LINES SHALL BE SIZED BY UNIT MANUFACTURER AND INSTALLED ACCORDING TO MANUFACTURERS' INSTRUCTIONS.
16. FRESH AIR SHALL BE SUPPLIED TO EACH AIR HANDLER THROUGH EXTERIOR WALL DUCT SUPPLIED WITH A CONTROL DAMPER.
17. ALL ELECTRICAL, MECHANICAL, AND PLUMBING PENETRATING FIRE WALLS SHALL BE FIRE CALKED. PENETRATIONS THROUGH RATED CONSTRUCTION SHALL BE SEALED WITH A MATERIAL CAPABLE OF PREVENTING THE PASSAGE OF FLAME AND HOT GASES WHEN TESTED IN ACCORDANCE WITH ASTM-E814.
18. MECHANICAL PLANS ARE DRAWN SCHEMATICALLY. CONTRACTOR TO ROUTE DUCT SYSTEMS PER FIELD CONDITIONS.
19. AREA OF REFUGE SHALL BE DESIGNED IN ACCORDANCE WITH NFPA 92A, TO INCLUDE STAIRWELL PRESURIZATION SYSTEMS, PROVIDE PROPER ACTIVATION AND CONTROL SYSTEMS.
20. PROVIDE POWER SUPPLY AND MAX. OVERCURRENT DEVICE PER MANUFACTURERS SPECIFICATION FOR ALL UNITS.

CONTRACTOR NOTES

1. PROVIDE ELEC. DISCONNECT, MAINTENANCE OUTLET, AND LIGHT AT EACH AIR HANDLER LOCATION.
2. INSTALL ALL MECHANICAL EQUIPMENT PER MANUFACTURER REQUIREMENTS.
3. INSTALL ALL DUCT WORK ABOVE CEILING AS SHOWN. MAKE ADJUSTMENTS PER FIELD REQUIREMENTS.
4. PROVIDE ONE OUTDOOR SERVICE OUTLET WITHIN 10' OF EACH CONDENSER UNIT.
5. COORDINATE MECHANICAL PLANS WITH ARCHITECTURAL, ELECTRICAL, AND PLUMBING PLANS.



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NOTES

REV:

SCALE: AS NOTED

JOB#: 2011

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SHEET 10

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