

TEST AND BALANCE

THOROUGHLY REVIEW TEST AND BALANCE SCOPE IN SPECIFICATIONS.

MECHANICAL CONTRACTOR FIELD QUALITY CONTROL

TESTS AND INSPECTIONS:

A. INSPECT FOR AND REMOVE SHIPPING PACKAGING AND ANY BOLTS, BLOCKS, AND TIE-DOWN STRAPS.

B. OPERATIONAL TEST: AFTER ELECTRICAL CIRCUITRY HAS BEEN ENERGIZED, START UNITS TO CONFIRM PROPER MOTOR ROTATION AND UNIT OPERATION.

C. LEAK CHECK ALL DUCTWORK AFFECTED BY REMODEL.

MANUFACTURER'S FIELD SERVICE

COORDINATE WITH THE YORK FACTORY-AUTHORIZED SERVICE REPRESENTATIVE (CONTRACTED THROUGH AND SCHEDULED BY MECHANICAL CONTRACTOR, COORDINATE WITH GENERAL CONTRACT) TO INSPECT, TEST, AND ADJUST EXISTING CHILLERS.

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TEST SHALL INCLUDE:

a. IDENTIFICATION AND LOCATION.

b. MANUFACTURER AND MODEL NUMBER.

c. NUMBER OF COMPRESSOR TYPES AND NUMBER OF STAGES.

d. CHILLED WATER ENTERING AND LEAVING TEMPERATURE - ACTUAL - 24-HOUR LOG OVER HEAVY-USGAE PERIOD (E.G. SUNDAY).

e. CONDENSER WATER ENTERING AND LEAVING TEMPERATURE - ACTUAL - 24-HOUR LOG OVER HEAVY-USGAE PERIOD (E.G. SUNDAY).

f. EVAPORATOR SECTION AND CONDENSER SECTION WATER SIDE PRESSURE DROP.

g. AIR COOLED CONDENSER ENTERING AND LEAVING DRY BULB TEMPERATURES.

h. COMPRESSORS FULL LOAD AMPERAGE - SPECIFIED AND ACTUAL.

i. VOLTAGE, PHASE, AND CYCLE - SPECIFIED AND ACTUAL.

j. AMBIENT TEMPERATURE, DB/WB, TIME OF DAY, AND WEATHER CONDITIONS AT TIME OF TEST.

k. COOLER TONS, CONDENSER TONS, AND MEASURED OPERATING KW / TON COMPARED TO FACTORY CERTIFIED PERFORMANCE TEST DATA.

FIELD SERVICE SHOULD OCCUR PRIOR TO CONSTRUCTION START (PREFERABLE) OR AT A MINIMUM, A WEEK PRIOR TO TEST AND BALANCE. THOROUGHLY REVIEW YORK REPORT AND COMPLETE ANY INSTALLATION DEFICIENCIES IDENTIFIED PRIOR TO TEST & BALANCE.

HVAC TESTING, ADJUSTING, AND BALANCING (TAB) SCOPE SHALL BE DIRECTLY CONTRACTED BY GENERAL CONTRACTOR (I.E. SHOULD NOT BE PAID FOR BY MECHANICAL CONTRACTOR TO AVOID CONFLICTS OF INTEREST) AND PERFORMED BY A GENERAL CONTRACTOR / AN OWNER SELECTED TESTING AGENCY. ANY ADJUSTMENTS NECESSARY TO THE SYSTEM AS DETERMINED BY THE TAB REPORT / PUNCHLIST, SHALL BE THE RESPONSIBILITY OF THE MECHANICAL CONTRACTOR.

MECHANICAL CONTRACTOR SHALL SCHEDULE AND COORDINATE ALL TAB. VENTILATION SYSTEMS SHALL BE BALANCED USING A NATIONALLY ACCEPTED AIR BALANCING TEST BY AN APPROVED METHOD. SUCH BALANCING SHALL VERIFY THAT THE VENTILATION SYSTEM IS CAPABLE OF SUPPLYING AND EXHAUSTING THE AIRFLOW RATES REQUIRED BY SECTIONS 403.3 AND 403.4 OF THE 2015 INTERNATIONAL MECHANICAL CODE. A FINAL REPORT SHALL BE PROVIDED TO THE ENGINEER OF RECORD AND THE MECHANICAL/BUILDING INSPECTOR IF REQUIRED BY LOCAL CODES / ORDINANCE.

CONTACT AHJ TO DETERMINE IF ANY ADDITIONAL WITNESSED TESTS ARE REQUIRED, OR IF AHJ SPECIFIC FORMS OR DOCUMENTATION ARE REQUIRED.

A COPY OF THE REPORT SHALL ALSO BE PROVIDED TO THE OWNER.

UNIT MARK	CFM	S.P. (W.G.)	DRIVE	RPM	MOTOR		SERVES	LOCATION	MANUFACTURER	MODEL	WEIGHT (LBS.)	NOTES (SEE BELOW)
					WATTS	VOLT./PH.						
EF-1	100	0.38	DIRECT	929	42.3w	277/1	RESTROOM	CEILING	LOREN COOK	GC-168	15	1-6
EF-2	100	0.38	DIRECT	929	42.3w	277/1	RESTROOM	CEILING	LOREN COOK	GC-168	15	1-6

NOTES:
 1. CONTROLLED VIA SWITCH
 2. FACTORY UNIT MOUNTED DISCONNECT (FACTORY WIRED)
 3. FACTORY BACKDRAFT DAMPER
 4. INSTALL PER MANUFACTURER'S INSTRUCTIONS
 5. PROVIDE WITH FAN SPEED CONTROLLER, ALUMINUM GRILL, AND ISOLATION KIT.
 6. PROVIDE WITH ECM MOTOR

UNIT MARK	DAMPER SIZE	RATING		TYPE	MANUFACTURER	MODEL#	REMARKS
		CLOSURE TEMP.	HRS				
FD-TYPE B	DUCT	165°F	1.5	B	GREENHECK	DFD-150	SQUARE ZONE DAMPER, FUSIBLE LINK
FD-TYPE R	DUCT	165°F	1.5	R	GREENHECK	DFD-150	ROUND FIRE DAMPER, FUSIBLE LINK

NOTES:
 1. COORDINATE CLOSURE TEMPERATURE REQUIREMENT WITH AHJ.
 2. UL555 RATED
 3. GALVANIZED OR 304 STAINLESS STEEL CONSTRUCTION, TO MATCH DUCTWORK

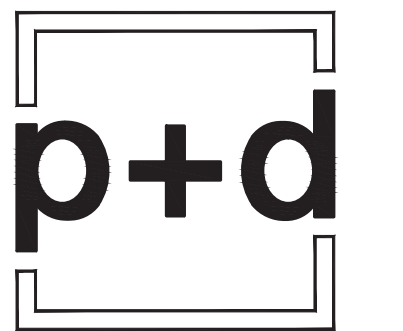
UNIT MARK	*E, R, OR S	TYPE	VOLUME CONTROL	SIZE		FRAME STYLE	MANUFACTURER	MODEL#	REMARKS
				FACE	NECK				
A	S	LOUVER	**	24x24	SEE PLAN	LAY-IN	TITUS	TMS-AA	1, 2, 3
B	S	LOUVER	**	SEE PLAN	SEE PLAN	SURFACE	TITUS	TMS-AA	1, 2, 3
C	R	EGGCRATE	NO	24x24	22x22	LAY-IN	TITUS	50F	1, 2, 3
D	R	EGGCRATE	NO	24x12	22x10	LAY-IN	TITUS	50F	1, 2, 3
E	S	SIDEWALL	YES	2' + Nk	SEE PLAN	SURFACE	TITUS	300-FL	1, 2, 3
F	R	SIDEWALL	NO	2' + Nk	SEE PLAN	SURFACE	TITUS	350-FL	1, 2, 3
G	-	-	-	-	-	-	-	-	-
RE	-	RELOCATED	-	-	-	-	-	-	-
EX	-	EXISTING TO REMAIN	-	-	-	-	-	-	-

NOTES:
 * E, R, AND S DENOTE EXHAUST, RETURN, AND SUPPLY, RESPECTIVELY.
 ** INSTALL IN TRUNK DUCT WHEN ABOVE ACCESSIBLE CEILING. IF NOT, PROVIDE WITH AIR DEVICE.
 1. PROVIDE SUPPLY DIFFUSERS WITH BALANCING DAMPERS IN SUPPLY DUCT.
 2. COORDINATE PAINT COLOR AND FINISH WITH OWNER/ARCHITECT PRIOR TO PURCHASE AND INSTALLA'
 3. PROVIDE FACTORY INSTALLED R-6 INSULATION ON BACK OF ALL DIFFUSERS.



04/13/17
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PROJECT NO.: **16054**
 SHEET TITLE:

MECHANICAL SCHEDULES

SHEET NO.: **M401**



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