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EXHAUST FAN SCHEDULE - GREENHECK OR EQUAL BY PENN, COOK

MARK	CFM	SP	115/60/1 WATTS/ HP	SONES	CONTROL	MODEL	ACCESSORIES
EF-1	228	.25	88	3.4	LT SW	SP-224	GRAND BDD
EF-2	228	.25	88	3.4	LT SW	SP-224	GRAND BDD
EF-3	48	.25	80	2.3	LT SW	SP-7	GRAND BDD
EF-4	48	.25	80	2.3	LT SW	SP-7	GRAND BDD
EF-5	152	.25	129	3.3	LT SW	SP-9	GRAND BDD
EF-6	3400	.25	1/2	16	INTERLOCK MUA-1	SBE-1L20-5	GRAVITY DAMPER, WALL COLLAR KIT MOTOR GUARD
EF-7	3400	.25	1/2	16		SBE-1L20-5	

REGISTER, GRILLE, DIFFUSERS (TITUS - EQUAL BY ANEMOSTAT)

MARK	TYPE	BORDER	NECK	MODEL	DAMPER	ACC	FINISH
CD	CLG. DIFF	LAY-IN	ROUND	TDC	---		OFF-WHITE
CD-1	CLG. DIFF	SURFACE	SQ	50-F	---		OFF-WHITE
RG	RETURN GRILLE	WALL MOUNT	SQ	300 RL	OBD		PRIME COAT
RG-1	RETURN GRILLE			T-700L	---	AUXILIARY FRAME	PRIME COAT
SR	SUPPLY REGISTER	LAY-IN	SQ	50-F	---		OFF-WHITE
DL	DOOR LOUVER	LAY-IN	SQ	TDC	---		OFF-WHITE

HEAT PUMP SCHEDULE

MARK	AREA	NOM. CLG. TON	300 AMB. HTG MBH	CFM	SP	HP	INDOOR UNIT	OUTDOOR UNIT	OUT AIR	MCA O.D. UNIT	OPTIONAL EQUIPMENT
HP-1	W-SHRM	10.	50	3460	.8"	1.5	40RMQ-012	38AQS-012	400	62.5	
HP-2	INT. OFF	5.	23	1500	.6"	.75	FB4-C70	38YCC-060	400	27.3	
HP-3	CUST. SERV.	7.5	35	2400	.8"	1.0	40RMQ-008	38AQS-008	300	42.5	
HP-4	E-SHRM	7.5	50	2860	.8"	1.0	40RMQ-008	38AQS-008	400	42.5	
HP-5	E. EXT.OFF	2.5	11	1200	.6"	.5	FB4-C36	38YCC-030	120	12.7	
HP-6	PARTS	4.0	19	1870	.6"	.75	FB4-C60	38YCC-048	250	27.3	

NOTES:

1. ALL MODEL CARRIER - EQUAL BY TRANE, LENNOX.
2. MCA- MIN. CONNECTED AMPS - 208/3/60
3. OUTDOOR UNITS: HEAD PRESSURE CONTROL, ELECTRONIC PROGRAMMABLE THERMOSTATS, E-COATED CU/CU COILS, TIME DELAY, CRANKCASE HEATER, BALL BEARING FAN MOTOR.
4. INDOOR UNITS: FILTERS, ADJUSTABLE BELT DRIVE, AND OVERHEAD SUSPENSION PACKAGE. (HP-1, HP-3, HP-4), CONDENSATE DRAIN TRAP, TXV VALVE, FILTER/DRIER, LSV VALVE, EVAPORATOR FREEZE PROTECTION.
5. UNIT CAP. BASED ON 95 DEGREE AMBIENT, 80 DEGREE DBT/67 DEGREE WBT, 30 DEGREE AMBIENT HTG.

MUA-1 SYSTEM

DIRECT FIRED FURNACE:

REZNOR ADF-700 (EQUAL BY RUPP) 6800 CFM @ .104" SP, 5 HP 208/3/60 MOTOR 355,000 MINIMUM OUTPUT CAPACITY. PROVIDE THE FOLLOWING: 55-90 DEGREE ELECTRONIC MODULATION MOTOR STARTER WITH AUXILIARY CONTACTS TO INTERLOCK EF-6 AND EF-7, FILTER CABINET WITH 2" PLEATED FILTERS, ELECTRONIC THERMOSTAT, MODULATE GAS VALVE, AND CYCLE 2 STAGES COOLING, CONTROL PANEL WITH BLOWER, BURNER, LTS, S/O/A SWITCH PROVIDE VIBRATION ISOLATORS UNDER UNIT.

COOLING COIL:

4 ROW, 10 FPI, 30x60 COOLING COIL IN CABINET, HERESITE COIL COATING, COIL ENT. AIR, 93 DEGREE EDBT, 79 DEGREE ENT. WBT, 355 MBH COOLING CAPACITY WITH 47.5 DEGREE SST.

CONDENSING UNIT 1:

CARRIER - 38AH034, (EQUAL BY TRANE) 357MBH / 47.5 DEGREE SST CAPACITY CU/CU WITH E COATING, 208/3/60

LOUVERS

VENT PRODUCTS MODEL 4600 (EQUAL BY GREENHECK) , LOUVERS AND DAMPERS WITH BIRD SCREEN, FABRICATED STEEL WITH PRIME COAT.

OVERHEAD EXHAUST SYSTEM

N56V - SERIES F WITH 24' NK-30 NEOPRENE 4" TUBING, TAILPIPE ADAPTERS, BLAST GATE DAMPERS, PULL-UP ASSEMBLY WITH #10 NYLON ROPE, 2-1/2" PULLEYS CLEAT AND SAFETY CLEAT TUBES TO HAVE SADDLES, EXHAUST FAN 1800 CFM AT 2-1/2" SP, 2 HP, 208/3/60 WITH STARTER P.B. STA. 24 GAGE DUCTS, CRIMPED ENDS OF DUCT AND FITTINGS TO FACE BLOWER INLET, BRANCHES TO ENTER JUNCTION AT 45 DEGREES, BLOWER - TO BE INSTALLED ON 14" ROOF CURB WITH ADJUSTABLE DRIVE AND WEATHER COVER - BACKWARD INCLINED WHEEL.

HVAC GENERAL NOTES

1. THE CONTRACTOR SHALL VISIT THE JOB SITE AND BECOME FAMILIARIZED WITH ALL REQUIREMENTS OF THE CONTRACT PRIOR TO SUBMISSION OF BID. THE CONTRACTOR SHALL NOTIFY THE ARCHITECT/ENGINEER OF ANY CONFLICTS PRIOR TO BID OR START OF INSTALLATION.
2. THE CONTRACTOR SHALL ARRANGE FOR ALL INSPECTIONS WHEN THEY BECOME DUE AND SHALL NOT COVER ANY WORK UNTIL APPROVED BY THE INSPECTION AUTHORITY.
3. THE INFORMATION PRESENTED ON THESE DRAWINGS IS DIAGRAMMATIC IN NATURE, IT DOES NOT NECESSARILY REPRESENT ALL ELBOWS, OFFSETS, HANGERS, ETC. REQUIRED FOR A COMPLETE WORKING SYSTEM. PROVIDE ALL MATERIALS AND LABOR FOR COMPLETELY FINISHED AND OPERATIONAL SYSTEMS.
4. REFER TO LATEST ARCHITECTURAL DRAWINGS FOR, EXACT WALL LOCATIONS, DIMENSIONS, AND CONFIGURATIONS.
5. CONTRACTOR SHALL NOTIFY THE ENGINEER OF ANY ALTERATIONS REQUIRED BY THE OWNER, ARCHITECT, OR FIELD CONDITIONS.
6. ALL EQUIPMENT SHALL BE NEW, SHALL COMPLY WITH APPLICABLE INDUSTRY STANDARDS, DRAWING SPECIFICATIONS, AND ENERGY CODE REQUIREMENTS AS ADOPTED BY THE STATE, AS WELL AS LOCAL JURISDICTIONAL BUILDING DEPARTMENT. PROVIDE SUBMITTALS FOR APPROVAL PRIOR TO ORDERING EQUIPMENT. SUBMITTAL SHALL INCLUDE ENERGY CODE COMPLIANCE CERTIFICATION, UNIT CAPACITITES, UNIT CONSTRUCTION, FAN PERFORMANCE, ELECTRICAL REQUIREMENTS, AND ACCESSORIES TO BE PROVIDED.
7. ALL RECTANGULAR SUPPLY DUCTS SHALL BE INSULATED WITH 1" THICK 2 LBS./C.F. DUCT LINER APPLIED PER SMACNA STANDARDS. ALL ROUND DUCTS SHALL BE WRAPPED WITH 1" THINK BLANKET INSULATION WITH VAPOR-PROOF JACKET AND APPLIED IN ACCORDANCE WITH INDUSTRY STANDARDS. SEAL ALL JACKET SEAMS WITH VAPOR-PROOF DUCT TAPE. ALL LINED DUCT DIMENSIONS TO BE INCREASED TWO INCHES IN EACH DIMENSION TO ACCOMODATE LINER.
8. DUCT SHELL BE G.I. SHEET METAL FABRICATED IN ACCORDANCE WITH SMACNA LOW PRESSURE DUCT STANDARDS, ALL SEAMS SHALL BE SEALED WITH AN APPROVED SEALER SYSTEM SO THAT THERE ARE NO NOTICABLE LEAKS DETECTED BY FEEL OR SOUND IN SYSTEM. ALL ELBOWS SHALL RADIUS TYPE OR IF SQUARE PROVIDE FACTORY DOUBLE THICKNESS TURNING VANES. PROVIDE APPROVED FLEXIBLE DUCT CONNECTIONS FOR DUCT TO EQUIPMENT CONNECTION. RUN PVC CONDENSATE LINES TO DISCHARGE INTO MOPSINK OR COUNTER SINK TAIL PIECE AS SHOWN ON DRAWINGS. INSULATE WITH 1/2" FIBERGLASS PIPE INSULATION WITH FRJ JACKET. SEAL ALL SEAMS.
9. FLEX SHALL NOT EXCEED 8 FT. IN LENGTH AND SHALL BE TYPE "1" FACTORY DUCT WITH 1 IN. INSULATION.
10. ALL SUPPLY RUN-OUTS TO HAVE MANUALLY ADJUSTABLE VOLUME DAMPERS WITH ABILITY TO LOCK IN PLACE.
11. THIS CONTRACTOR SHALL INCLUDE IN HIS/HER BID THE COMPLETE COST FOR THE ELECTRICAL CONTRACTOR TO INTERLOCK EXHAUST FANS AS REQUIRED BY EQUIPMENT SCHEDULE.
12. THIS CONTRACTOR SHALL FIELD VERIFY 10 FT. MINIMUM CLEARANCE BETWEEN FRESH AIR INTAKE AND ALL VENTS OR EXHAUST OUTLETS.
13. WALL THERMOSTATS FOR HEATING AND COOLING UNITS TO BE ELECTRONIC PROGRAMMABLE TYPE AND INSTALLED 48 IN. ABOVE FINISHED FLOOR.
14. EXHAUST DUCTS THROUGH ROOF SHALL TERMINATE 12 IN. ABOVE ROOF DECK WITH APPROVED ROOF CAP. DUCTS THRU WALL TO TERMINATE WITH SCREENED WALL CAP OR EYEBROW.
15. HEATING/COOLING UNITS TO MAINTAIN MINIMUM AIR QUANTITIES OF OUTSIDE AIR SHOWN ON SCHEDULE.
16. AIR HANDLING SYSTEMS SHALL BE PROVIDED WITH SMOKE DETECTORS IN THE SUPPLY AND RETURN DUCT SYSTEM. THESE DETECTORS SHALL ACTIVATE THE EQUIPMENT FOR AUTOMATIC SHUTOFF. THIS REQUIREMENT APPLIES OT EACH SYSTEM PROVIDING HEATING OR COOLING AIR OF 2,000 CUBIC FEET OR MORE PER MINUTE. INSTALLATION IN COMPLIANCE WITH UNIFORM MECHANICAL CODE SECTION 1009.
17. REFRIGERANT PIPING - ALL REFRIGERANT PIPING SHALL BE TYPE "L" COPPER WITH BRAISED FITTING OR FACTORY PROVIDED LINE SETS. ALL PIPING TO BE SIZED FOR 2 DEGREE OR LESS LINE LOSS AND A HIGH ENOUGH VELOCITY TO MAINTAIN OIL ENTRAINMENT. PROVIDE SERVICE VALVES AT COMPRESSOR, PROVIDE SIGHT GLASS, FILTER DRIER, SOLENOID VALVE, TRV VALUE FOR EACH CIRCUIT. ALL REFRIGERANT LINE RISERS TO BE RUN IN WALLS OR COLUMN ENCLOSURES CONCEALED IN STRUCTURE. INSULATE RS AND RL LINES WITH 3/4" ARMAFLEX OR EQUAL PIPE INSULATION APPLIED PER INDUSTRY STANDARDS. COVER EXTERNAL PIPE INSULATIONS WITH METAL COVER WITH SEAMS AT BOTTOM TO SHED MOISTURE.
18. GAS PIPING - SCHEDULE 40 B.I. INSTALLED PER STANDARD GAS CODE.
19. ALL AIR AND HYDRONIC SYSTEMS SHALL BE BALANCED TO WITHIN PLUS/MINUS 10% OF DESIGN FLOW QUANTITIES BY A CERTIFIED BALANCING CONTRACTOR. ALL REQUIRED MOTOR SHEAVE EXCHANGE TO PROVIDE TO AIR QUANTITIES SHALL BE SUPPLIED AND INSTALLED BY BALANCING CONTRACTOR. SUBMIT BALANCE REPORT BEFORE FINAL INSPECTION.
20. PROVIDE U.L. RATED FIRE DAMPERS WITH BLADES OUT OF AIR STREAM WHERE INDICATED ON DRAWINGS. 1

LEGEND

- INTERNAL ACOUSTIC LINING IN DUCTWORK WHERE NOTED ON DRAWINGS OR SPECIFICATIONS. PROVIDE INSULATION FOR ALL SUPPLY DUCTS FROM POINT OF CONNECTION AT UNIT TO ALL AIR OUTLETS. ALL DUCT DIMENSIONS ARE CLEAR INSIDE.
- FLEX SUPPLY SHALL BE FACTORY FABRICATED, CLASS 1, VAPOR BARRIER, COMPLYING WITH N.F.P.A. 90A AND U.L. 181. MAXIMUM 8 FT. LONG.
- PROVIDE TURNING VANES AT ALL CORNER BENDS IN ACCORDANCE WITH S.M.A.C.N.A. LOW VELOCITY DUCT MANUAL.
- TYPICAL DUCT TAKE-OFF WITH MANUAL VOLUME DAMPER. MARK DAMPER POSITION AFTER AIR BALANCE.
- SUPPLY DIFFUSER - SEE SCHEDULE ON DRAWINGS.
- RETURN AIR GRILLE - SEE SCHEDULE ON DRAWINGS.
- THERMOSTAT SHALL HAVE LOCKING COVER IN ALL PUBLIC AREAS. MOUNT OUT OF DIRECT SUN. PROVIDE 1 IN. RIGID INSULATION BEHIND SHEET ROCK WHERE BACKED UP TO UN-HEATED OR EXTERIOR WALLS.
- FIRE DAMPERS SHALL BE U.L. LABELED. PROVIDE AT ALL 1 HR., 2HR & 3HR RATED WALLS, FLOORS, ROOF, AND/OR CEILING ASSEMBLIES. 1
- MANUAL BALANCING DAMPER - PROVIDE WHERE SHOWN, AT ALL RUN-OUTS TO AIR OUTLETS, AND AT ALL MAIN DUCT SPLITS.
- MOTORIZED DAMPER

1 FIRE MARSHAL COMMENTS 03/10/03

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HONDA OF SLIDELL
NEW FACILITY
SLIDELL, LA.

DATE: 2/10/03
DRAWN BY: AC
SCALE: AS NOTED
JOB NUMBER: 2002.1
DRAWING TITLE:
NOTES & SCHEDULES

M3.1