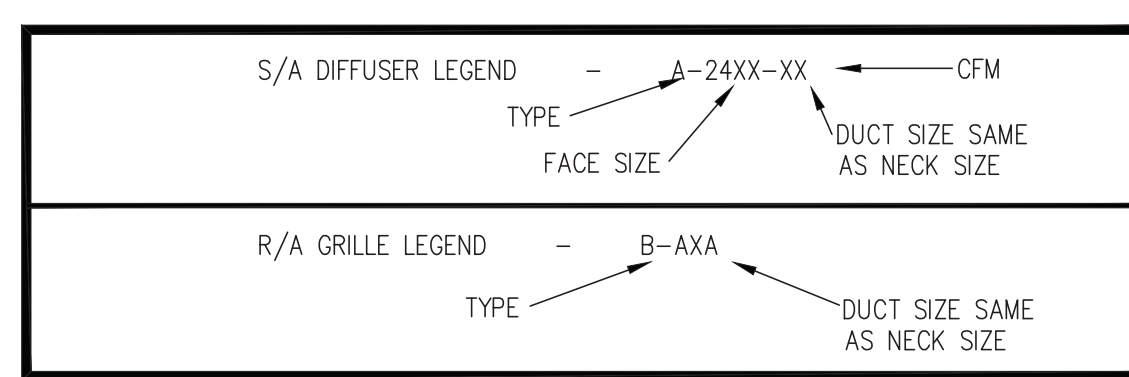


ROOFTOP PACKAGED UNITS (GAS HEAT)							
MARK	AC-1	AC-2	AC-3	AC-4	AC-5	AC-6	AC-7
ZONE	PROCESSING ROOM	OFFICES	SALES EXT. WALL	SALES EXT. WALL	SALES EXT. WALL	SALES EXT. WALL	SALES EXT. WALL
MAKE	LENNOX	LENNOX	LENNOX	LENNOX	LENNOX	LENNOX	LENNOX
MODEL	LGH102H4B	LGH102H4B	LGH102H4B	LGH102H4B	LGH102H4B	LGH102H4B	LGH102H4B
NOMINAL TONS	8.5	7.5	15.0	15.0	20.0	20.0	20.0
HEER	12.2	12.5	12.0	11.0	12.3	12.3	12.3
MATCHING ROOF CURB	YES	YES	YES	YES	YES	YES	YES
DISCHARGE	VERTICAL	VERTICAL	VERTICAL	VERTICAL	VERTICAL	VERTICAL	VERTICAL
TOTAL CFM	3950	2710	5280	4570	7050	6400	6800
OA CFM	520	180	820	650	740	720	680
EXT. S.P. (N. WG)	.75	.75	1.0	1.0	1.0	1.0	1.0
FAN POWER (HP.)	2	2	3	3	7.5	7.5	7.5
VOL./PHASE/Hz	480/3/60	480/3/60	480/3/60	480/3/60	480/3/60	480/3/60	480/3/60
OPERATING WEIGHT (lbs.)	1400	1500	2500	2700	3500	3500	3500
OUTSIDE AMBIENT	105	105	105	105	105	105	105
EVAP. ENT DB/WB (°F)	76.4/64.5	76.8/63.7	79.1/65.3	78.8/62.7	79.1/65.3	78.1/65.3	77.2/65.2
EVAP. LVG DB/WB (°F)	58.0/56.8	57.5/56.2	58.0/56.7	58.2/56.7	58.0/56.7	58.1/56.8	57.7/56.6
TOTAL (BTU/H)	95,375	82,368	184,328	175,200	235,200	216,000	228,080
SENSIBLE (BTU/H)	74,345	64,317	131,092	145,100	199,920	183,600	193,800
HEATER FUEL	GAS	GAS	GAS	GAS	GAS	GAS	GAS
ENTERING AIR TEMP.	70	70	70	70	70	70	70
CAPACITY (INPUT BTU/H)	103,000	88,000	169,000	169,000	169,000	169,000	169,000
NO. OF COMP./RLA	2/6.2 EA	2/6.1 EA	3/8 EA	3/8 EA	4/8 EA	4/8 EA	4/8 EA
BELOWER FLA	4.8	4.8	7.6	7.6	11	11	11
CONDENSER FAN FLA	(2)1.3 EA	(2)1.3 EA	(4)1.3 EA	(4)1.3 EA	(6)1.0 EA	(6)1.0 EA	(6)1.0 EA
ELECTRIC HEAT FLA	-	-	-	-	-	-	-
UNIT MCA	22	22	39	39	54	54	54
UNIT MSCP	25	25	45	45	60	60	60

- NOTES:
- PROVIDE UNITS WITH FACTORY MADE MATCHING ROOF CURBS.
  - PROVIDE FILTER SECTION IN EACH UNIT EQUIPPED WITH 30% FILTER.
  - PROVIDE EACH UNIT WITH ECONOMIZER, GEAR DRIVEN; PROVIDE GLOBAL ENTHALPY CONTROLS.
  - PROVIDE NON-PRORATED WARRANTY OF 6 YEARS FOR COMPRESSORS AND 10 YEARS FOR HEAT EXCHANGERS.
  - UNIT TO USE TYPE R410-A REFRIGERANT.
  - LENNOX TO SUPPLY FACTORY INSTALLED AND FACTORY TESTED BACNET ENABLED PRODIGY BOARDS FOR ALL UNITS.
  - 25% OUTSIDE AIR INTAKE HOODS WITH BALANCE DAMPER, WITH BRD SCREEN.
  - POWER EXHAUST FANS SHALL BE FACTORY INSTALLED.
  - SUPPLY AND RETURN SMOKE DETECTORS TO BE PROVIDED AND FACTORY INSTALLED BY LENNOX.
  - HADR CROSSL BRKERS TO BE FACTORY INSTALLED AND FACTORY WRED BY LENNOX ON ALL UNITS ABOVE 125-TONS UNITS 125-TONS AND BELOW WILL BE SUPPLIED WITH NON-FUSED SERVICE DISCONNECT FACTORY INSTALLED AND FACTORY WRED.
  - SERVICE OUTLETS: LENNOX TO FACTORY INSTALL A DUAL 120-VOLT GFI TYPE SERVICE OUTLET. WIRING TO THE OUTLET SHALL BE FIELD PROVIDED BY ELECTRICAL CONTRACTOR ON SITE.
  - ENVIRON COIL SYSTEM - FAC
  - HINGED ACCESS DOORS - FAC
  - 2 IN MERVB FILTER - FAC
  - STANDARD CAP - FAC
  - CONSTANT AIR VOLUME - FAC
  - HAIL GUARD - FLD
  - 2 IN MERVB REPR. FILTER - FLD
  - PROVIDE FACTORY FITTED BURGLAR BARS IN ALL UNITS. REFER TO 6.8.3 OF HVAC CRITERIA FOR FACTORY INSTALLED OPTIONS.

AIR DEVICES	
TYPE	WAVE/NOEL
A	TITUS PCS
B	TITUS PAR
C	ACUTHERM TF-HC
D	TITUS 30 RL
E	TITUS 272 RS
F	TITUS TDC
G	TITUS TMRA



EXHAUST FANS			
DESIGNATION	EF-1	EF-2	EF-3
SERVES	RESTROOM	LOCKER, EQUIP, JAN	ELECTRICAL
LOCATION	ROOF	ROOF	ROOF
CFM	(375)	(320)	(300)
EXT. S.P.	125	125	125
WATTS	600	600	200
VOLT./PH./Hz	115/60/1	115/60/1	115/60/1
MANUFACTURER	GREENHECK	GREENHECK	GREENHECK
MODEL #	GB-091-4	GB-091-3	GB-081-4

NOTES:

- PROVIDE CURB, BACKDRAFT DAMPER, MOTORIZED DAMPER AND DISCONNECT SWITCH.
- EXHAUST FAN SHALL BE UP-BLAST.
- EXHAUST FAN SHALL RUN CONTINUALLY.
- BELT DRIVEN CENTRIFUGAL ROOF EXHAUSTER.
- FAN SOUND RATING SHALL BE 5 SONES OR LESS.

- GENERAL NOTES HVAC
- ALL WORK SHALL BE PERFORMED AS PER THE LOCAL MECHANICAL CODE, THE LOCAL BUILDING CODES, ADA AND LOCAL ENERGY CONSERVATION CODE.
  - PROVIDE ALL MATERIALS, LABOR, EQUIPMENT AND ANY OTHER INCIDENTALS ESSENTIAL FOR A COMPLETE AND OPERATIONAL INSTALLATION OF THE HVAC WORK SHOWN ON THE PLANS.
  - THE CONTRACTOR SHALL PAY FOR ALL FEES AND OBTAIN ALL PERMITS REQUIRED FOR WORK AS INDICATED IN THE PLANS.
  - FOR EXACT LOCATION OF ALL CEILING DIFFUSERS REFER TO ARCHITECTURAL REFLECTED CEILING PLANS.
  - ALL DUCT DIMENSIONS SHOWN ON PLANS ARE INTERNAL FREE AREA DIMENSIONS.
  - ALL DUCTWORK SHALL BE GALVANIZED STEEL, FABRICATED PER THE LATEST SMANVA STANDARDS EXCEPT NOTED OTHERWISE. ALL S/A, R/A AND O/A DUCT SHALL BE EXTERNALLY INSULATED WITH R-8 FIBER GLASS DUCT INSULATION. REFER TO SPECIFICATIONS.
  - REGISTER, GRILLES, AND CEILING DIFFUSERS SHALL BE FURNISHED WITH MOUNTING FRAMES AND FEATURES COMPATIBLE WITH THE CEILING TYPE AND DUCTWORK. PRIOR TO ORDERING SPECIFIED DIFFUSERS VERIFY THAT THEY ARE COMPATIBLE WITH THE CEILING TYPE AND DUCTWORK.
  - DRAWINGS ARE SCHEMATIC IN NATURE AND SHALL NOT BE SCALED. THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING EXACT ROUTING OF ALL SERVICES WITH FIELD CONDITIONS AND ALL OTHER TRADES.
  - PROVIDE ACCESS DOORS AND PANELS FOR HVAC ITEMS/ COMPONENTS THAT MAY REQUIRE SERVICE ABOVE NON-ACCESSIBLE CEILING. COORDINATE ALL PANEL LOCATIONS WITH THE ARCHITECTURAL, ROP, PRESENT CONDENSATION, INSULATE DEVICES WITH 1-1/2" MINIMUM INSULATION AND TOTALLY COVER ALL SURFACES. SECURE INSULATION IN PLACE WITH TAPE. APPLY INSULATION PRIOR TO MOUNTING AIR DEVICES.
  - UPON COMPLETION OF MECHANICAL TRADE WORK ALL SYSTEMS SHALL BE TESTED, BALANCED AND LEFT IN WORKING ORDER. THE BALANCING SHALL BE DONE BEFORE THE CEILING IS INSTALLED.
  - FURNISH AND INSTALL MECHANICAL (HVAC) TRADE WORK FOR COMPLETE OPERATIONAL SYSTEMS. COORDINATE WORK WITH OTHER TRADES TO AVOID INTERFERENCE AND TO PRESENT A NEAT WORKMAN LIKE APPEARANCE. MAKE MINOR ADJUSTMENTS REQUIRED DUE TO FIELD CONDITIONS. INTERFERENCE WHICH RESULTS FROM POOR COORDINATION WILL BE CORRECTED AT THE CONTRACTOR'S EXPENSE.
  - ALL DUCT WORK ROUTING SHALL BE COORDINATED WITH STRUCTURE. CONTRACTOR SHALL VERIFY ALL ROUTING BEFORE FABRICATION OF DUCTWORK AND DETERMINE LENGTHS OF DUCTWORK REQUIRED FOR PROPER INSTALLATION AND FUNCTIONING OF THE SYSTEM. ANY DISCREPANCIES NOTED, SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECTS/ENGINEERS AND CORRECTED BY THE CONTRACTOR TO AVOID CONFLICTS.
  - CONDENSATE LINES SHALL BE TYPE L COPPER. INSULATE ALL LINES IN THE BLDG.
  - EQUIPMENT SHOWN ON THE PLANS AND DETAILS ILLUSTRATE THE GENERAL ARRANGEMENT AND SPACE ALLOCATIONS. THE CONTRACTOR SHALL VERIFY THE SPACE REQD. FOR EACH SYSTEM COMPONENT USING MANUFACTURER'S CERTIFIED SHOP DRAWINGS AND MAKE THE NECESSARY ADJUSTMENTS IN EQUIPMENT PLACEMENTS AND CONNECTIONS IN ORDER TO ACCOMMODATE THE EXACT EQUIPMENT TO BE INSTALLED BASED ON FIELD CONDITIONS.
  - MOUNT ALL THERMOSTATS 48" AFF WITH TAMPER PROOF LOCKING COVERS. THERMOSTAT SHALL BE CARRIER OR HONEYWELL, SEVEN DAY PROGRAMMABLE THERMOSTATS.
  - M.C. SHALL PROVIDE AND INSTALL ALL WIRING, CONDUIT, STARTERS AND ETC. REQUIRED TO MAKE THE HVAC CONTROL SYSTEM FULLY OPERATIONAL IN ACCORDANCE TO PLANS AND SPECIFICATIONS. WIRING SHALL INCLUDE 120V AND ALL LOW VOLTAGE WIRING REQUIRED FOR HVAC CONTROL SYSTEMS. PROVIDE TEMPERATURE AND DEHUMIDIFICATION CONTROLS FOR UNIT. SUBMIT CONTROL WIRING DIAGRAM TO ENGINEER FOR REVIEW AND APPROVAL PRIOR TO ORDERING OR INSTALLING CONTROL SYSTEM. ALL CONTROL COMPONENT AND MATERIAL SHALL BE COMPATIBLE WITH THE EQUIPMENT.
  - MAINTAIN O/A INTAKES, A MIN. OF 10' FROM PLUMBING VENTS AND EXHAUST FANS.
  - LINE VOLTAGE TSTAT SHALL BE PROVIDED AND INSTALLED BY THE M.C., WIRING IS BY THE E.C.
  - MECHANICAL CONTRACTOR TO PROVIDE 12" HIGH REFLECTIVE UNIT NUMBERS WITH THE SPECIFIC A/C UNIT # TO BE POSTED ON EACH UNIT ON THE CONTROL PANEL DOOR AND SIDE WITH DISCONNECT IN A LOCATION VISIBLE FROM ROOF HATCH.
  - REFER TO EMS PLANS FOR THE LOCATION OF TEMPERATURE SENSORS.
  - LINE VOLTAGE THERMOSTATS FOR THE EXHAUST FANS EF-2 AND EF-3 TO BE PROVIDED AND INSTALLED BY MECHANICAL, WRED BY ELECTRICAL.

