

UNIT HEATER SCHEDULE - ELECTRIC

REMARKS:

- BASED ON MARKEL 3380 SERIES FAN FORCED CEILING HEATER WITH INTEGRAL THERMOSTAT AND DISCONNECT.
- BASED ON MARKEL 3420 SERIES FAN FORCED WALL HEATER WITH INTEGRAL THERMOSTAT AND DISCONNECT.

MARK	LOC. AT ROOM	MFR.	MODEL	TYPE	FAN AIR FLOW (CFM)	KW	BTUH	VOLTAGE	AMPS	REMARKS
EUH-01	107	MARKEL	G3387D-RP	CEILING	200	4.8	16,382	277/1	17.3	1
EUH-02	108	MARKEL	G3386D-RP	CEILING	175	4.0	13,600	277/1	14.4	1
EUH-03	110	MARKEL	G3387D-RP	CEILING	200	4.8	16,382	277/1	17.3	1
EUH-04	111	MARKEL	G3386D-RP	CEILING	175	4.0	13,600	277/1	14.4	1
EUH-05	113	MARKEL	G3385D-RP	CEILING	175	3.0	10,200	277/1	10.8	1
EUH-06	106	MARKEL	G3385D-RP	CEILING	175	3.0	10,200	277/1	10.8	1
EUH-07	103	MARKEL	G3423T	WALL	245	3.0	10,239	277/1	10.8	2

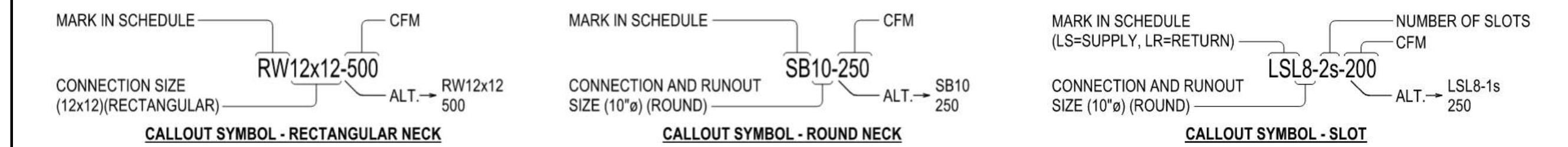
PUMP SCHEDULE

REMARKS:

- BASED ON TACO MODEL 008 STAINLESS STEEL INLINE DOMESTIC WATER CIRCULATING PUMP.

MARK	LOC AT ROOM	MFR.	MODEL	TYPE	MIN CAPACITY			MIN SIZE CONN		MOTOR (BY M.C.)					REMARKS
					FLOW (GPM)	FEET HEAD	EFF	SUCTION (IN)	DISCH (IN)	HP	RPM	SPEED	ELECT	STARTER	
CP-01	MECH./JAN.	TACO	008	INLINE	1.5	12	--	3/4"	3/4"	1/25	3250	1	120V	--	1

GRILLE, REGISTER, AND DIFFUSER SCHEDULE



- FIRST LETTER IN MARK:**
 S = SUPPLY DIFFUSER
 R = RETURN GRILLE
 P = PLENUM RETURN GRILLE
 E = EXHAUST GRILLE
 L = SLOT DIFFUSER
 M = LAMINAR FLOW SUPPLY DIFFUSER
 C = SECURITY GRILLE
 U = FLOOR MOUNTED SUPPLY GRILLE

- NOTES:**
 1. PROVIDE SQUARE TO ROUND ADAPTERS AS REQUIRED TO ACCOMMODATE ROUND RUNOUTS.
 2. PROVIDE ALL LAY-IN GRDs WITH 24x24 LAY-IN PANEL AS REQUIRED.
 3. FINISH TO BE WHITE UNLESS OTHERWISE SPECIFIED. COORDINATE AND VERIFY ALL FINISHES WITH ARCHITECT.
 4. ALL SELECTIONS ARE BASED ON A MAXIMUM NC OF 25 UNLESS NOTED OTHERWISE.
 5. CONTRACTOR SHALL VERIFY ALL CEILING TYPES AND ASSOCIATED BORDER TYPES.
 6. MARKS USED MAY NOT BE IN SEQUENCE.
 7. LOUVERED GRILLES TO HAVE FRONT BLADES PARALLEL TO LONG DIMENSION UNLESS WALL MOUNTED.
 8. WALL MOUNTED LOUVERED GRILLES TO HAVE FRONT BLADES PARALLEL TO FLOOR.

MARK	TYPE	IMAGE	BASED ON		MOUNT	PANEL SIZE (FACE SIZE)	MATERIAL	BLADE SPACING / SLOT WIDTH	DEFLECTION	COLOR	REMARKS
			MFR	MODEL							
SW	WALL SUPPLY		TITUS	300FS	WALL	SEE PLANS	ALUMINUM	3/4"	DOUBLE	MATCH WALL	--
SX	DUCT MOUNTED SUPPLY		TITUS	300FS	DUCT	SEE PLANS	ALUMINUM	3/4"	DOUBLE	MATCH DUCT	--
RM	RETURN GRILLE		TITUS	350FL	SURFACE	48x24 (46x22)	ALUMINUM	3/4"	35°	WHITE	--

MULTI/MINI-SPLIT INDOOR UNIT SCHEDULE

REMARKS:

- BASED ON LG MULTI-F CEILING CASSETTE INDOOR UNIT WITH THERMOSTAT AND INTERNAL CONDENSATE LIFT.

MARK	LOC. AT ROOM	MFR.	MODEL	SERVING HEAT PUMP	AIRFLOW				HEATING CAP. (MBH) NOMINAL	ELECTRICAL		REMARKS
					SUPPLY AIR		COOLING CAP. (MBH)			RATED AMPS	VOLT/ PHASE	
					MAX.	ESP (IN WC)	TOTAL	SENSIBLE				
MSS-1.1	104	LG	LMCN078HV	MHP-01	265	--	6.9	--	4.4	0.25	208/1	1
MSS-1.2	105	LG	LMCN078HV	MHP-01	265	--	6.9	--	4.4	0.25	208/1	1

HVLS FAN SCHEDULE

REMARKS:

- BASED ON BIG ASS FANS ESSENCE SERIES WITH DIRECT DRIVE MOTOR, EIGHT ANODIZED AIRFOILS WITH WINGLETS AND SAFETY RESTRAINTS, AND VARIABLE SPEED WIRED CONTROLLER

MARK	LOC. ABOVE ROOM	MFR.	MODEL	FAN TYPE	DIAMETER (FT.)	MAX. SPEED (RPM)	DRIVE	MOTOR DATA				REMARKS
								AMPS	SPDS	ELECT.	START.	
HVLS-01	100	BIG ASS FANS	ESSENCE	HVLS	8	158	DIR	10	VAR	120V	--	1

WATER HEATER SCHEDULE

REMARKS:

- BASED ON A.O. SMITH MODEL DEN-40 ELECTRIC TANK WATER HEATER WITH DUAL NON-SIMULTANEOUS ELEMENTS (ELEMENTS DO NOT OPERATE AT THE SAME TIME).
- BASED ON AMTROL MODEL ST-5 DOMESTIC WATER THERMAL EXPANSION TANK.

MARK	LOC. AT ROOM	MFR.	MODEL	TYPE	MIN. CAPACITY		GAS		ELECTRIC		EXP. TANK	REMARKS	RECORD. PUMP REF	
					STOR. (GAL)	GPH RECOVERY AT 100° RISE	INPUT (MBH)	VENT DIA.	TOTAL KW	NO. ELEMENTS				VOLT/ PHASE
WH-01	MECH./JAN.	A.O. SMITH	DEN-40	ELEC.	40	30	--	--	6 EA.	2	480/3	2	1	CP-01

EXHAUST FAN SCHEDULE

REMARKS:

- ALL EXHAUST FANS SHALL HAVE PERMANENTLY LUBRICATED BEARINGS AND DISCONNECT SWITCH PROVIDED AND INSTALLED BY EC.
- CEILING CABINET EXHAUST FANS SHALL BE PROVIDED WITH VARIABLE SPEED MOTOR WITH SPEED CONTROLLER, DISCONNECT SWITCH, FAN SPEED CONTROLLER, BACKDRAFT DAMPER, AND WHITE PAINTED ALUMINUM GRILLE.

- A. E.C. TO CONTROL FAN WITH ROOM LIGHTS.
 B. FAN TO BE CONTROLLED BY THERMOSTAT TO TURN ON WITH A RISE IN SPACE TEMPERATURE, AND TURN OFF WHEN SPACE TEMPERATURE IS SATISFIED.

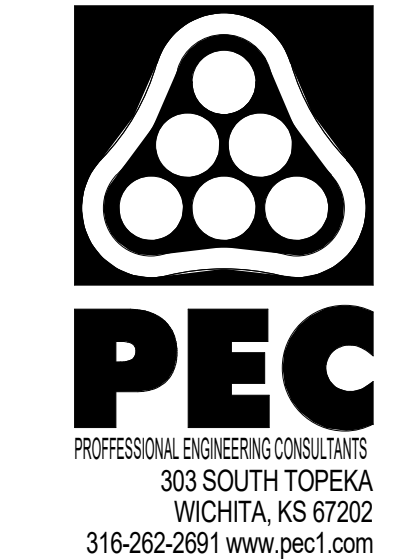
MARK	LOC. AT ROOM	MFR.	MODEL	TYPE	MIN CAP.		FAN RPM	DRIVE	MOTOR (BY M.C.)					UNIT WT. (LBS.)	REMARKS	CONTROL
					FLOW (CFM)	SP (IN WC)			HP (W)	RPM	SPEED	ELECT.	START.			
EF-01	107	GREENHECK	SP-A250	CEIL	200	0.25	862	DIR	(83)	862	VAR	120V	--	30	1,2	A
EF-02	107	GREENHECK	SP-A250	CEIL	200	0.25	862	DIR	(83)	862	VAR	120V	--	30	1,2	A
EF-03	110	GREENHECK	SP-A250	CEIL	200	0.25	862	DIR	(83)	862	VAR	120V	--	30	1,2	A
EF-04	110	GREENHECK	SP-A250	CEIL	200	0.25	862	DIR	(83)	862	VAR	120V	--	30	1,2	A
EF-05	113	GREENHECK	SP-A125	CEIL	100	0.25	1,066	DIR	(18)	1,066	VAR	120V	--	20	1,2	A
EF-06	104.1	GREENHECK	SP-A125	CEIL	100	0.25	1,066	DIR	(18)	1,066	VAR	120V	--	20	1,2	B

MULTI/MINI-SPLIT HEAT PUMP SCHEDULE

REMARKS:

- BASED ON LG MULTI-F WITH LGRED HEAT PUMP OUTDOOR UNIT FOR CONNECTION TO MULTIPLE INDOOR UNITS. PROVIDE WITH HAIL GUARDS

MARK	MFR.	MODEL	COOLING			HEATING			COMPRESSORS (EACH MODULE)		ELECTRICAL		REMARKS
			CAPACITY (MBH)		DE-RATED AMBIENT DRY BULB	CAPACITY (MBH)		DE-RATED AMBIENT DB / WB	QNTY.	STEPS EACH	SYSTEM VOLT. / PHASE	MCA	
			NOMINAL	DE-RATED	105°F	NOMINAL	DE-RATED						
MHP-01	LG	LMU180HHV	14.0	13.8	105°F	17.1	9.3	0°F	1	VAR	208/1	18.6	1



SOUTH LAKES
 SPORTS PARK
 WICHITA, KS

Issue:		
100% PLANS		10/18/23

JOB NO.	220008-003
DATE	18 OCTOBER 2023
PM	NLS
DESIGNED BY	SMC
DRAWN BY	JCM
CHECKED BY	SMC

MECHANICAL SCHEDULES

M602