

UNIT HEATER SCHEDULE										
TAG	LOCATION	TYPE	INPUT (BTUH)	OUTPUT (BTUH)	ELECTRICAL DATA				MANUFACTURER & MODEL NO.	NOTES
					W	V	PH	HZ		
UH-1	POOL EQUIP.	ELEC.	N/A	N/A	1,000	120	1Ø	60	MARKEL, E3312T2RPW	1,2,3,4,5
UH-2	BLDG. 1 RISER	ELEC.	N/A	N/A	1,000	120	1Ø	60	MARKEL, E3312T2RPW	1,2,3,4,5

NOTES:

1. INTERNAL THERMOSTAT

2. SURFACE MOUNT.

3. MOUNT HEATER @ 12" A.F.F.
4. UNIT DISCONNECT

5. U.L. LISTED

PACKAGED TERMINAL HEAT PUMP/AC SCHEDULE																
		FAN DATA				COOLING		HEAT	AUX.	ELECTRICAL DATA			GENERAL DATA			
UNIT TAG	AREA SERVED	FAN CFM	ESP (" OF WG)	MOTOR (HP)	OA (CFM)	TOTAL (MBH)	SENS. (MBH)	TOTAL (MBH)	HEAT	VOLTAGE (V/PH)	MCA (A)	MOCP (A)	MANUF. MODEL	TONNAGE	EFF. (EER)	NOTES
PTHP-1	MAINT. BAY	340	N/A	MFG	N/A	14.7	9.2	13.7	3.5	208V/1Ø	19.5	20	AMANA PTH153G	1.25	9.7	1,2,3,4,5,6

NOTES:

1. PROVIDE W/ MFG'S WALL SLEEVE AND ALL REQUIRED ACCESSORIES FOR INSTALLATION.

2. COORDINATE OUTDOOR GRILLE SECTION W/ ARCHITECT.

3. CONDENSATE TO DRAIN TO EXTERIOR GRADE AWAY FROM FOOT TRAFFIC.

4. UNIT TO BE POWERED VIA PLUG-IN RECEPTACLE. PROVIDE W/ MFG'S SUB-BASE KIT & POWER DISCONNECT SWITCH.
5. PROVIDE W/ MFG'S WIRED PROGRAMMABLE AUTO-CHANGEOVER WALL-MOUNTED THERMOSTAT.

6. OUTDOOR THERMOSTAT TO LOCK-OUT ELECTRIC HEAT WHEN TEMPERATURE IS 40°F OR HIGHER.

MINI-SPLIT HEAT PUMP/AC SCHEDULE																		
AIR HANDLING UNIT DATA										HEAT PUMP/CONDENSING UNIT								
UNIT TAG		AREA SERVED	MANUF. MODEL	FAN DATA			COOLING		HEAT	ELECTRICAL DATA			GENERAL DATA		ELECTRICAL DATA			NOTES
				FAN CFM	ESP (" OF WG)	MOTOR (WATTS)	OA (CFM)	TOTAL (MBH)	SENS. (MBH)	TOTAL (MBH)	VOLTAGE (V/PH)	MCA (A)	MOCP (A)	UNIT TAG	MANUF. MODEL	TONNAGE	EFF. (SEER)	
AH-10	ELEV. EQUIP.		MITSUBISHI PKA-A24KA4	775	N/A	56	N/A	24.0	18.5	26.0	208/1Ø	1.0	NOTE 2	HP-10	MITSUBISHI PUZ-A24N	2.0	17.0	1,2,3,4,5,6,7
AH-11A	TELECOM		HAIER AW09TE	300	N/A	30	N/A	9.0	7.92	10.0	120V/1Ø	1.0	NOTE 2	HP-11A	HAIER 1U09TE	0.75	16.0	1,2,3,4,5,6,7
AH-11B	TELECOM		HAIER AW09TE	300	N/A	30	N/A	9.0	7.92	10.0	120V/1Ø	1.0	NOTE 2	HP-11B	HAIER 1U09TE	0.75	16.0	1,2,3,4,5,6,7
AH-11C	TELECOM		HAIER AW09TE	300	N/A	30	N/A	9.0	7.92	10.0	120V/1Ø	1.0	NOTE 2	HP-11C	HAIER 1U09TE	0.75	16.0	1,2,3,4,5,6,7
AH-11D	TELECOM		HAIER AW09TE	300	N/A	30	N/A	9.0	7.92	10.0	120V/1Ø	1.0	NOTE 2	HP-11D	HAIER 1U09TE	0.75	16.0	1,2,3,4,5,6,7

NOTES:

1. COOLING CAPACITIES ARE RATED IN ACCORDANCE WITH AHRI STANDARD 210/240 AT 95°F AMBIENT OUTDOOR AIR TEMP., 80°F DRY BULB, 67°F WET BULB ENTERING AIR TEMP., AND AIR QUANTITY LISTED BY MFG. UNITS ABOVE 5 TONS ARE RATED IN ACCORDANCE WITH AHRI STANDARD 340/360.








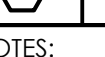
2. INDOOR UNIT POWERED VIA WIRING FROM OUTDOOR UNIT. SEE MFG'S INSTRUCTIONS.

3. REFRIG. PIPING TO BE SIZED PER TOTAL INSTALL. EQUIV. LENGTH. LONG-LINE APP. TO BE PROVIDED WHENEVER MFG. RECOMM. LENGTHS ARE EXCEEDED, INCL. LIQ. LINE SOLENOID VALVES, ACCUMULATOR, ETC. MAX T.E.L. IS PER MFG.
4. PROVIDE 2 SETS OF NEW FILTERS FOR EACH UNIT. PROVIDE ONE AT INSTALLATION AND AT TURNOVER TO OWNER.

5. PROVIDE W/ MFG'S WIRELESS REMOTE CONTROLLER KIT.

6. OUTDOOR UNITS SHALL HAVE A MINIMUM 14.0 SEER RATING.

7. CONDENSATE TO BE ROUTED TO AREA HUB DRAIN. SEE SHEET M1.10.

DIFFUSER SCHEDULE											
SYMBOL	CFM	NECK SIZE	MODULE SIZE	FRAME TYPE	PATTERN	DAMPER	MATERIAL	SERVICE	FINISH	MANUFACTURER & MODEL NO.	NOTES
	AS NOTED	N/A	AS NOTED	SURFACE	2-WAY	YES	STEEL	SUPPLY	NOTE 2	HART & COOLEY 682	1,2,3
	N/A	N/A	AS NOTED	SURFACE	LOUVERED	NO	STEEL	TRANSFER	NOTE 2	HART & COOLEY 672	1,2
	AS NOTED	N/A	AS NOTED	SURFACE	DBL. DEFL.	YES	STEEL	SUPPLY	NOTE 2	TITUS 300RS	1,2,3
	AS NOTED	N/A	AS NOTED	SURFACE	LOUVERED	NO	STEEL	RETURN	NOTE 2	TITUS 350RL	1,2,3
	AS NOTED	N/A	AS NOTED	SURFACE	LOUVERED	YES	ALUM.	EXHAUST INTAKE	NOTE 2	TITUS 350FL	1,2,3
	AS NOTED	AS NOTED	12X12	SURFACE	PLAQUE	NO	STEEL	SUPPLY	NOTE 2	TITUS OMNI	1,2,3
	AS NOTED	AS NOTED	AS NOTED	SURFACE	SLOT	YES	ALUM.	SUPPLY	NOTE 2	TITUS ML-38 (2-SLOT, 3/4" SPACING)	2,3,4,5
	AS NOTED	AS NOTED	AS NOTED	SURFACE	SLOT	YES	ALUM.	RETURN	NOTE 2	TITUS MLR-38 (2-SLOT, 3/4" SPACING)	2,3,4,5

NOTES:

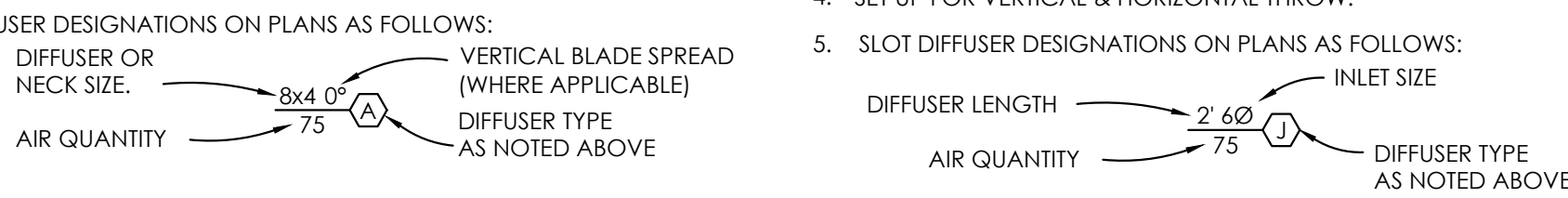
- GENERAL - MC RESPONSIBLE FOR VERIFYING QTY, COLOR & FRAME TYPE OF DIFFUSERS/GRILLES BEFORE ORDERING. PROVIDE SQR TO RND TRANSITIONS & PLENUMS AS NECESSARY.

1. DIFFUSER DESIGNATIONS ON PLANS AS FOLLOWS:
2. FINISH TO MATCH / BE ABLE MATCH CEILING OR WALL OR DOOR.

3. FACTORY INSULATION BACKING ON GRILLES EXPOSED TO NON-CONDITIONED AREAS. ALTERNATELY, FIELD SUPPLY AND INSTALL.

4. SET UP FOR VERTICAL & HORIZONTAL THROW.

5. SLOT DIFFUSER DESIGNATIONS ON PLANS AS FOLLOWS:



FAN SCHEDULE											
UNIT NO.	SERVICE	AREA SERVED	CFM	S.P.	RPM	TYPE & ARRANGEMENT	MIN. MOTOR HP & VOLTAGE	MANUFACTURER & MODEL NO.	DRIVE	CONTROL SCHEME	NOTES
EF-1	EXHAUST	POOL EQUIPMENT	300	0.35"	MFG	INLINE, CENTRIFUGAL	3/4 HP 120V/1Ø	GREENHECK BSQ-70-3	DIRECT	D	2,4,6
EF-2	EXHAUST	MEN'S 104	150	0.35"	MFG	CEILING, CENTRIFUGAL	48 WATTS 120V/1Ø	GREENHECK SPA-200	DIRECT	A	1,2,4
EF-3	EXHAUST	WOMEN'S 105	225	0.35"	MFG	CEILING, CENTRIFUGAL	121 WATTS 120V/1Ø	GREENHECK SPA-410	DIRECT	A	1,2,4
EF-4	EXHAUST	MAINT. BAY	425	0.35"	MFG	INLINE, CENTRIFUGAL	1/3 HP 120V/1Ø	GREENHECK BSQ-70-3	DIRECT	C	2,4,6
EF-5	EXHAUST	MAINT. BATH	75	0.25"	MFG	CEILING, CENTRIFUGAL	49 WATTS 120V/1Ø	GREENHECK SPA-110	DIRECT	A	1,2,4
EF-6	EXHAUST	UNITS	110	0.35"	MFG	CEILING, CENTRIFUGAL	14.2 WATTS 120V/1Ø	BROAN XB110	DIRECT	C	1,2,3,4,6,7
EF-7	EXHAUST	UNITS	110	0.35"	MFG	CEILING, CENTRIFUGAL	14.2 WATTS 120V/1Ø	BROAN XB110	DIRECT	F	1,2,3,4,5,6,7
EF-8	EXHAUST	UNITS	110	0.35"	MFG	CEILING, CENTRIFUGAL	14.2 WATTS 120V/1Ø	BROAN XB110	DIRECT	E	1,2,3,4,5,6,7

NOTES:

1. SCREEN

2. BACKDRAFT DAMPER

3. COLOR BY ARCHITECT

4. INTEGRAL DISCONNECT SWITCH

5. EXHAUST FAN TO BE CONTROLLED W/ AIRCYCLER SE1 (OR EQUAL) TIMER SWITCH. SWITCH TO BE PROVIDED BY M.C. AND INSTALLED BY E.C., SEE CONTROL OPTIONS FOR TIMER AND DELAY SETTINGS.

6. CORROSION RESISTANT

7. W/ RADIATION DAMPER

CONTROL OPTIONS:

- A. CONTROL W/ ROOM LIGHTS

B. NOT USED

C. CONTROL W/ SWITCH

D. CONTINUOUS OPERATION

E. CONTROL W/ TIMER SWITCH (VENTILATION: 28 MINUTES/HR, DELAY 10 MINUTES)

F. CONTROL W/ TIMER SWITCH (VENTILATION: 19 MINUTES/HR, DELAY 10 MINUTES)

Ventilation Calculations										
Calc's Based on the 2020 FLMC Chapter 4										
AH/RTU: AH-4 Spaces:										
Occupancy	Area (sqft)	Occ. Density (ppl/1000 sqft)	# People	CFM/Sqft	CFM/Person	Area CFM	People CFM	Total Gross CFM	Vent. Eff*	Req'd CFM
Fitness	867	10	8.67	0.06	20	52	173	225	1.0	225
Yoga	303	10	3.03	0.06	20	18	61	79	1.0	79
*Ceiling or Floor Supply Cool Air (Space will be unoccupied or only partially occupied when in heating) (2020 FLMC 403.3.1.1.1.2)								Total Req'd CFM		304
								Supplied CFM		305
AH/RTU: AH-5 Spaces:										
Occupancy	Area (sqft)	Occ. Density (ppl/1000 sqft)	# People	CFM/Sqft	CFM/Person	Area CFM	People CFM	Total Gross CFM	Vent. Eff*	Req'd CFM
Coridor	164	0	0	0.06	0	10	0	10	1.0	10
Mailroom	257	0	0	0.12	0	31	0	31	1.0	31
*Ceiling or Floor Supply Cool Air (Space will be unoccupied or only partially occupied when in heating) (2020 FLMC 403.3.1.1.1.2)								Total Req'd CFM		41
								Supplied CFM		50



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Oasis at Surfside - Phase II	Zimmer Development Company	Cape Coral, Florida	PERMIT SET
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PLUMBING MECHANICAL ELECTRICAL

PROGRESS DATE:	ISSUE DATE:	REVISIONS NUMBER	DATE	INITIALS	DESCRIPTION
11/17/21					

PROJECT NO: 002221

DRAWN BY: JAK
CHECKED BY: ZLT

SHEET TITLE:
MECHANICAL SCHEDULES

SHEET NUMBER:

M0.02