MAKE-UP AIR UNIT SCHEDULE

Building Pressurization Units

Mark	Supply CFM	Supply ESP (in)	Cooling Capacity (MBH) Sensible	Cooling Capacity (MBH) Total	Cooling Ent Air DB	Cooling Ent Air WB	Cooling Lvg Air DB	Cooling Lvg Air WB	Heating Input (MBH)	Heating Output (MBH)	Heating Air Temp Ent	Heating Air Temp Lvg	Supply Fan HP	Supply Fan RPM	Electric Data Voltage	Electric Data Comp RLA	Electric Data MCA	Electric Data Max Fuse	Min EER	Weight (Lbs)	Standard of Performance
MAU-1	3250	1.25	109.97	308.56	84.30	80.43	52.16	51.96	270.0	218.7	23.5	85.7	3	1191	208/3	2 x 48.1	129	175	11.4	3800	Aaon RNA-625-C-8-AAAJ2-DB1L0
MAU-2	3500	1.25	112.61	317.27	84.30	80.43	53.88	53.68	270.0	218.7	23.5	84.3	3	1227	208/3	2 x 48.1	129	175	11.4	3800	Aaon RNA-625-C-8-AAAJ2-DB1L0

Remarks:
1. Factory assembled, piped, wired and tested as a single package
2. Units shall include total 100% outside air opening with 2 position damper
3. Units shall include dual circuit compressors for cooling, minimum 4-row interlaced-circuit DX coil (Horizontal split not acceptable)
4. Units shall include MINIMUM 9:1 turndown modulating natural gas heating with stainless steel heat exchangers and 25 year non-prorated heat exchanger parts warranty
5. Units shall include MODULATING hot gas reheat coils for dehumidification (2-position or dedicated heat pump circuit not acceptable)
6. Units shall include stainless steel drain pans
7. Units shall include manual reset high pressure switches & auto reset low pressure switches
8. Units shall include VFD condenser fan motors for condenser head pressure control
9. Unit shall include 4" MERV 12 filters and 2" MERV 8 pre-filters. Provide metal screen on leaving air side of filter rack or synthetic media frames with special supporting structure to prevent moisture laden filter collapse
10. Controls: Wattmaster/Orion VCCX controller with ambient dewpoint sensor, electronic sequencing of compressors and heating and modulating hot gas re-heating.
    The intention of this unit is to provide continuous dehumidification of outside air while also providing temperature control to the space it serves
    If this causes overcooling in the space, the modulating hot gas reheat valve shall open to satisfy the conditioned space requirement
    Field mounted controls shall include a duct mounted leaving air stat and a wall mounted stat (see plans for location)
    All unit mounted controls for complete operation shall be installed by the equipment manufacturer
11. 2" foam injected insulated (minimum R13 value) doublewall cabinet construction
12. Units shall include integral non-fused disconnects
13. Units shall include remote safety shutdown terminals
14. Smoke detectors to be supplied by electrical contractor, installed by mechanical contractor
15. Units shall include phase protection
16. Evaporator, condenser, and reheat coils shall be covered in corrosion resistant polymer coating
17. Units shall be provided with corrosion resistant coating on internal surfaces of unit
18. Units shall include a fully insulated roof curb with spring isolation rails. Height TBD
19. Each entire unit shall be AHRI Listed and Certified (Coil only certification is not acceptable)
20. Compressors shall have 5 year warranty (parts only)
21. Contact Gorham/Schaffler, Inc. for information phone: 1-901-345-6100

SPLIT SYSTEM HEAT PUMP SCHEDULE

TAG	TRANE AIR HANDLER MODEL NO.	NOMINAL TONS	LOCATION	TOTAL CFM	OA CFM	MAX. FAN HP	ESP	MBH TOT. COOL	MBH SEN. COOL	MIN. SEER	HEAT HEAT PUMP	HEAT KW	VOLTS /PHASE	MCA	MOCP
AH-1	TEM4A0C42S41	3.5	SEE PLAN	1400	200	1/2	0.40"	41.9	31.7	14.0	39.2	7.2	208/1ø	48.0	50
AH-2	TEM4A0C60S51	5.0	SEE PLAN	1800	250	3/4	0.40"	57.3	41.2	14.0	56.9	7.2	208/1ø	51.0	60
AH-3	TEM4A0C48S41	4.0	SEE PLAN	1600	150	3/4	0.40"	47.1	34.8	14.0	46.8	7.2	208/1ø	51.0	60
AH-4	TEM4A0C60S51	5.0	SEE PLAN	1800	150	3/4	0.40"	57.3	41.2	14.0	56.9	7.2	208/1ø	51.0	60
AH-5	TEM4A0C42S41	3.5	SEE PLAN	1400	300	1/2	0.40"	41.9	31.7	14.0	39.2	7.2	208/1ø	48.0	50

TAG	TRANE HEAT PUMP MODEL NO.	VOLTS /PHASE	MCA	MOCP	NOTES
HP-1	4TWR4042G1	208/1ø	25.0	40	1 THRU 9
HP-2	4TWR4060G1	208/1ø	32.0	50	1 THRU 9
HP-3	4TWR4048G1	208/1ø	26.0	45	1 THRU 9
HP-4	4TWR4060G1	208/1ø	32.0	50	1 THRU 9
HP-5	4TWR4042G1	208/1ø	25.0	40	1 THRU 8

NOTE:
1 COOLING CAPACITIES ARE RATED IN ACCORDANCE WITH ARI STANDARD 210/290 AT 95°F AMBIENT OUTDOOR AIR TEMP., 80°F DRY BULB, 67°F WET BULB ENTERING AIR TEMP., AND NOMINAL AIR QUANTITY LISTED.
2 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 100'
3 PROVIDE SINGLE POINT ELECTRICAL CONNECTION
4 PROVIDE HONEYWELL "VISION-PRO 8000" THERMOSTAT/HUMIDISTAT
5 PROVIDE NEW FILTERS IN UNIT WHEN BUILDING IS TURNED OVER TO OWNER/TENANT.
6 SCS HEAT PUMP DEHUMIDIFICATION CONTROL MODULE HPDM-MP AS WELL AS EQUIPMENT AND CONTROLS AS REQUIRED FOR A COMPLETE WORKING SYSTEM
7 HEAT PUMP TO BE INSTALLED LEVEL ON MANUFACTURERS PREFORMED PAD.
8 PROVIDE LOW AMBIENT CONTROLS.
9 EVAPORATOR FAN TO RUN CONTINUOUSLY.

FAN SCHEDULE

SYMBOL	# OF FANS	TYPE	CFM	APPROX. S.P.	DRIVE	RPM	ELECTRICAL DATA WATTS	H.P.	VOLTAGE	MANUFACTURER GREENHECK	CONTROL	ACCESSORIES
EF-1	80	EXHAUST	50	0.35	DIRECT	900	54	–	120V/1ø	SP-B80	A	1 2 6 10 13
EF-2	2	EXHAUST	150	0.35	DIRECT	1040	129	–	120V/1ø	SP-B150	D	1 2 6 8 10 13
EF-3	1	EXHAUST	300	0.35	DIRECT	1216	135	–	120V/1ø	SP-A390	E	1 2 6 10 13
EF-4	5	EXHAUST	150	0.35	DIRECT	1100	173	–	120V/1ø	SP-B200	E	1 2 6 8 10 13
EF-5	1	EXHAUST	100	0.35	DIRECT	800	129	–	120V/1ø	SP-B150	C	1 2 6 8 10 13
EF-6	5	EXHAUST	100	0.35	DIRECT	800	129	–	120V/1ø	SP-B150	C	1 2 6 8 10 13
EF-7	1	EXHAUST	200	0.35	DIRECT	1100	173	–	120V/1ø	SP-B200	A	1 2 6 8 10 13
EF-8	1	EXHAUST	125	0.35	DIRECT	878	129	–	120V/1ø	SP-B150	D	1 2 6 8 10 13
EF-9	1	EXHAUST	150	0.35	DIRECT	1040	129	–	120V/1ø	SP-B150	E	1 2 6 8 10 13
EF-10	1	EXHAUST	100	0.35	DIRECT	800	129	–	120V/1ø	SP-B150	D	1 2 6 8 10 13
EF-11	2	EXHAUST	150	0.4	DIRECT	1159	–	1/4	120V/1ø	SP-B150A	E	1 2 3 4 10 11
EF-12	1	EXHAUST	200	0.4	DIRECT	1165	–	1/4	120V/1ø	SP-B150A	E	1 2 3 4 10 11

ACCESSORIES
1: DISCONNECT SWITCH
2: BACKDRAFT DAMPER
3: PREFAB. ROOF CURB
4: BIRDSCREEN
5: ACOUSTICAL LINING
6: HANGING BRACKETS WITH VIBRATION ISOLATION
7: DISCHARGE HOOD
8: WL, WALL LOUVER DISCHARGE
9: MFG ROOF CAP
10: SPEED CONTROLLER
11: MOTOR SIDE FAN GUARD
12: 2" WASHABLE ALUMINUM FILTERS
13: EXHAUST GRILLE
14: [illegible]762

CONTROL
A: WALL MOUNTED SWITCH
B: WALL MOUNTED PUSH BUTTON SWITCH
C: WALL MOUNTED THERMOSTAT
D: TIME CLOCK WITH ROOM LIGHT SWITCH
E: CONTINUOUS OPERATION
F: INTERLOCK WITH KITCHEN HOOD CONTROLS

NOTES:
1. ALL FANS SHALL BE U.L. LISTED AND LABELED AND SHALL BE AMCA CERTIFIED.
2. ALL FANS SHALL BE SUPPLIED BY ONE MANUFACTURER UNLESS NOTED OTHERWISE.
3. MECHANICAL CONTRACTOR SHALL PROVIDE MAGNETIC STARTER WITH AUXILLARY CONTACTS AS REQUIRED.
4. BACKDRAFT DAMPER ON EACH SUPPLY FAN SHALL BE MOTORIZED.

MECHANICAL LEGEND

- SUPPLY AIR DIFFUSER
- RETURN AIR GRILLE
- WALL MOUNTED THERMOSTAT
- ¾" DOOR UNDERCUT
- MANUAL VOLUME DAMPER
- BI-POLAR IONIZATION DEVICE (DUCT MOUNTED)
- TURNING VANES
- FD — FIRE DAMPER
- F/SD — COMBINTATION FIRE/SMOKE DAMPER
- M — MOTOR OPERATED DAMPER
- SD — DUCT MOUNTED SMOKE DETECTOR
- RD — RADIATION DAMPER
- WALL SWITCH

ELECTRIC WALL HEATER SCHEDULE

EWH-1 MARKEL F3314TS-RP
2 KW, 208V-1ø; 6826 BTUH; 175 CFM; WITH: BUILT-IN DISCONNECT SWITCH AND THERMOSTAT, PENCIL-PROOF LOUVERS, CABINET FOR SURFACE MOUNTING.

EWH-2 MARKEL E3322TTD-RP
1 KW, 120V-1ø; 3413 BTUH; 175 CFM; WITH: BUILT-IN DISCONNECT SWITCH AND THERMOSTAT, PENCIL-PROOF LOUVERS, CABINET FOR SURFACE MOUNTING.

BI-POLAR IONIZATION SCHEDULE

SYMBOL	LOCATION	SA FLOW CFM	OSA FLOW CFM	QUANTITY	PRESSURE DROP	VOLTAGE	WATTS	MANUFACTURER/MODEL GLOBAL PLASMA SOLUTIONS	REMARKS
BPI-1	DINING	1800	300	1	0.05"W.C.	24VAC	0.24	GPS-RN	1-7
BPI-2	BREAKFAST	1400	250	1	0.05"W.C.	24VAC	0.24	GPS-RN	1-7
BPI-3	BREAKFAST	1400	250	1	0.05"W.C.	24VAC	0.24	GPS-RN	1-7

NOTES & ACCESSORIES:
1. PROVIDE AUTO-ELECTRONIC FLOW SENSING.
2. PROVIDE IAQ-2 CALCULATION. PRESCRIPTIVE PROCEDURE WILL NOT BE ALLOWED.
3. OZONE DETECTABLE SYSTEM WILL NOT BE ALLOWED.
4. SYSTEM WILL BE MAINTENANCE FREE. NO REPLACMENT COMPONENT SYSTEMS ALLOWED.
5. ALL MANUFACTURERS MUST PASS UL 867-2007 OZONE CHAMBER TESTING BY EITHER UL OR ETL.
6. POWERED PATICULATE FILERS, POLARIZED MEDIA FILTERS, UNI-POLAR ION GENERATORS, PLASMA PARTICULATE FILTERS WITH UV SYSTEMS, AND BI-POLAR IONIZATION SYSTEMS REQUIRING PERISHABLE GLASS TUBES WILL NOT BE ACCEPTABLE.
7. PROVIDE TRANSFORMER AS REQUIRED FOR VOLTAGE REQUESTED. COORDINATE WITH ELECTRICAL CONTRACTOR.

EQUAL PRODUCTS: AIRGENIC / BIOXYGEN

MINI-SPLIT UNIT

SYMBOL	MITSUBISHI MODEL	ROOM SERVING	DIMENSIONS (LxWxH)	FAN CFM	TOTAL (MBH)	TOTAL (MBH)	VOLTAGE (V)	MCA	MOCP
SSI-1	PKA-A18HA	PBX	36"x10"x12"	[illegible]	18	[illegible]/A	208/1	1	15
SSI-2	PKA-A18HA	[illegible]	36"x10"x12"	[illegible]	18	[illegible]/A	208/1	1	15

SYMBOL	MITSUBISHI MODEL	LOCATION	DIMENSIONS (LxWxH)	EFFICIENCY SEER	VOLTAGE (V)	MCA	MOCP
SSO-1	PUY-A18NHA4	OUTSIDE	32"x12"x24"	15.1	208/1	13	25
SSO-2	PUY-A18NHA4	OUTSIDE	32"x12"x24"	15.1	208/1	13	25

1) SHALL COMPLY W/ [illegible]07 FLORIDA ENERGY CODE.
2) SSI-[illegible] PROVIDED [illegible] ROOM FOR REDUNDANCY PER HILTON RECOMMENDATIONS.

NOTES: PROVIDE CONDENSATE PUMP FOR INDOOR UNIT.
LOW AMBIENT CONTROLS, LONG LINE-SETS ARE REQUIRED.

PTAC UNITS

MARK	AMANA MODEL	FAN CFM	OSA CFM	ESP (WG)	EER	COOLING (MBH)	HEAT (MBH)	ELECT. HEAT (KW)	VOLTAGE (V)	MCA (A)	MOCP (A)	WEIGHTS (LBS)
PTAC-A	PTH073G	370	–	0.4	11.7	7.7	6.8	3.5	208V/1ø	19.5	20	108
PTAC-B	PTH093G	360	–	0.4	11.5	9.0	8.1	3.5	208V/1ø	19.5	20	115

NOTES:
1) G.C. SHALL PROVIDE SUB-BASE KIT WITH DISCONNECT SWITCH FOR ALL PTAC'S. CONCEAL ALL ELECTRICAL CONNECTIONS WITH-IN KIT.
2) 2 SPEED FAN
3) PROVIDE HONEYWELL "INCOMM" THERMOSTATS (W/ 2 FAN SPEED CAPABILITY) FOR ALL GUESTROOM PTACS.
4) PROVIDE EXTENDED SLEEVE WHERE REQUIRED. VERIFY PRIOR TO ORDERING.

AIR DISTRIBUTION SCHEDULE

SYMBOL	CFM	NECK SIZE	MODULE SIZE	PATTERN	BLADE/SLOT SPACING	DAMPER	MATERIAL	SERVICE	MANUFACTURER & MODEL NO.	NOTES
A	0-100	6"ø	12"x12"	LOUVERED	–	YES	STEEL	SUPPLY	PRICE SMD	1-4
B	0-100	6"ø	24"x24"	LOUVERED	–	YES	STEEL	SUPPLY	PRICE SMD	1-4
C	105-175	8"ø	24"x24"	LOUVERED	–	YES	STEEL	SUPPLY	PRICE SMD	1-4
D	180-270	10"ø	24"x24"	LOUVERED	–	YES	STEEL	SUPPLY	PRICE SMD	1-4
E	0-50	6"x4"	6"x6"	LOUVERED	–	YES	STEEL	SUPPLY	PRICE 540	2-4,6
F	0-120	6"ø	48"x4"	SLOT	(1)1" SLOT	YES	STEEL	SUPPLY	PRICE AS210	1-5
G	125-250	8"ø	48"x4"	SLOT	(1)1½" SLOT	YES	STEEL	SUPPLY	PRICE AS215	1-5
H	255-300	8"ø	48"x6"	SLOT	(2)1" SLOT	YES	STEEL	SUPPLY	PRICE AS210	1-5
J	180-270	10"ø	24"x24"	PERFORATED	–	NO	STEEL	RETURN	PRICE PDDR	1-4
K	275-390	12"ø	24"x24"	PERFORATED	–	NO	STEEL	RETURN	PRICE PDDR	1-4
L	505-885	16"x16"	24"x24"	PERFORATED	–	NO	STEEL	RETURN	PRICE PDDR	1-4
M	890-1,850	22"x22"	24"x24"	PERFORATED	–	NO	STEEL	RETURN	PRICE PDDR	1-4
N										
P										
R	395-500	12"x12"	24"x24"	PERFORATED	–	NO	STEEL	RET/TRANS	PRICE PDDR	1-4
S	890-2,000	22"x22"	24"x24"	PERFORATED	–	NO	STEEL	RETURN	PRICE PDDR	1-4
T	0-50	6"x5"	8"x7"	LOUVERED	–	YES	ALUM	RETURN	PRICE 630	1-4
V	250	8"ø	48"x4"	SLOT	(3)½" SLOT	YES	STEEL	SUPPLY	PRICE SDR50	1-5
W	3140	48"x20"	50"x22"	LOUVERED	–	NO	STEEL	RETURN	PRICE 635	1-4
X	150	8"ø	24"x7"	SLOT	(1)2" SLOT	YES	STEEL	SUPPLY	PRICE AS220	1-5
Y	710	22"x12"	24"x14"	LOUVERED	–	NO	STEEL	RETURN	PRICE 530	1-4

NOTES:
1. FINISH TO MATCH / BE ABLE MATCH CEILING OR WALL OR DOOR. COORDINATE WITH ARCHITECT.
2. SQUARE TO ROUND TRANSITIONS PROVIDED BY AIR DISTRIBUTION SUPPLIER.
3. FURNISH WITH FRAME SUITABLE FOR INSTALLATION REQUIRED.
4. DIFFUSERS AT RATED CEILINGS SHALL BE ALL STEEL CONSTRUCTION WITH RADIATION DAMPER. PROVIDE RADIATION INSULATION BLANKET ON TOP SIDE OF DIFFUSER AS REQUIRED TO MAINTAIN RATING OF CEILING.
5. ALL LINEAR DIFFUSERS SHALL BE FURNISHED WITH PLENUM AND END CAPS.
6. FIELD PAINT TO MATCH CEILING.

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REVISIONS

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7/31/18

KEY PLAN

VTM Hotels, LLC

Home2Suites

2630 Wilde Lake Blvd.
Pensacola, FL 32526

Drawing Title
Mechanical Schedules
Notes

Phase
Construction Documents

Project No. 17-101
Prepared by CRM
Checked by PSH
Date July 31, 2018

Sheet No. M001

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Review