Water Source Heat Pump Unit Schedule

Mark	Location	Configuration	CFM	MAU CFM	ESP (in)	Cooling Capacity (Tons)	EAT DB	EAT WB	EWT	Water Flow GPM	Electrical Voltage	MCA Ckt 1	MCA Ckt 2	MOCP Ckt 1	MOCP Ckt 2	Standard of Performance
HP-A	Guest Room	Horizontal	300	35	0.1	0.75	80	67	90	2.7	208/1/60	5.23	xx	15	xx	Climate Master TC-009
HP-B	Guest Room	Horizontal	400	35	0.1	1.00	80	67	90	3.0	208/1/60	8.58	xx	15	xx	Climate Master TC-012
HP-C	Guest Room	Horizontal	500	35	0.1	1.15	80	67	90	3.7	208/1/60	10.58	xx	15	xx	Climate Master TC-015
HP-1	SubBasement	Vertical	1000	190	0.1	2.50	80	67	90	7.5	208/3/60	11.16	xx	15	xx	Climate Master TY-030
HP-2	Elev Machine	Horizontal	300	30	0.2	0.75	80	67	90	2.7	208/1/60	5.23	xx	15	xx	Climate Master TS-009
HP-3	Dry Storage	Horizontal	400	60	0.3	1.00	80	67	90	3.0	208/1/60	8.58	xx	15	xx	Climate Master TS-012
HP-4	Admin	Vertical	600	60	0.5	1.50	80	67	90	4.5	208/1/60	12.90	xx	20	xx	Climate Master TS-018
HP-5	Laundry	Vertical	800	90	0.5	2.00	80	67	90	6.0	208/3/60	11.16	xx	15	xx	Climate Master TT-026
HP-6	Pantry	Horizontal	1000	100	0.4	2.50	80	67	90	7.5	208/3/60	13.23	xx	20	xx	Climate Master TY-030
HP-7	Break Room	Vertical	600	90	0.4	1.50	80	67	90	4.5	208/1/60	12.90	xx	20	xx	Climate Master TS-018
HP-8	Fitness	Vertical	1000	170	0.3	2.50	80	67	90	7.5	208/3/60	13.23	xx	20	xx	Climate Master TY-030
HP-9	Board Room	Vertical	800	120	0.2	2.00	80	67	90	6.0	208/3/60	11.16	xx	15	xx	Climate Master TT-026
HP-10	Meeting-1	Vertical	1000	190	0.3	2.50	80	67	90	7.5	208/3/60	13.23	xx	20	xx	Climate Master TY-030
HP-11	Meeting-1	Vertical	1000	190	0.3	2.50	80	67	90	7.5	208/3/60	13.23	xx	20	xx	Climate Master TY-030
HP-12	Telecom	Horizontal	500	60	0.3	1.25	80	67	90	3.7	208/1/60	10.58	xx	15	xx	Climate Master TS-015
HP-13	Prefunction	Vertical	600	110	0.2	1.50	80	67	90	4.5	208/1/60	12.90	xx	20	xx	Climate Master TS-018
HP-14	Prefunction	Vertical	800	120	0.2	2.00	80	67	90	6.0	208/1/60	12.90	xx	20	xx	Climate Master TT-026
HP-15	Prefunction	Vertical	600	110	0.2	1.50	80	67	90	4.5	208/1/60	12.90	xx	20	xx	Climate Master TS-018
HP-16	Lobby West	Vertical	1200	150	0.5	3.00	80	67	90	9.0	208/3/60	16.60	xx	25	xx	Climate Master TT-038
HP-17	Lobby West	Vertical	1000	120	0.5	2.50	80	67	90	7.5	208/3/60	13.23	xx	20	xx	Climate Master TY-030
HP-18	Lobby West	Horizontal	200	20	0.3	0.50	80	67	90	1.5	208/1/60	4.73	xx	15	xx	Climate Master TS-006
HP-19	Meeting-2	Vertical	1000	330	0.2	2.50	80	67	90	7.5	208/3/60	24.90	xx	40	xx	Climate Master TY-030
HP-20	Toilets	Horizontal	600	80	0.2	1.50	80	67	90	4.5	208/3/60	13.23	xx	20	xx	Climate Master TS-018
HP-21	Flex	Horizontal	600	50	0.2	1.50	80	67	90	4.5	208/1/60	10.58	xx	15	xx	Climate Master TS-018
HP-22	Offices	Horizontal	400	40	0.3	2.00	80	67	90	6.0	208/3/60	11.16	xx	15	xx	Climate Master TT-026
HP-23	Reception	Horizontal	1600	150	0.2	4.00	80	67	90	12.0	208/3/60	13.23	xx	20	xx	Climate Master TT-049
HP-24	**Dine/Kitchen**	**VRF**	**Refer to Schematic Diagram**							**21.1**	**208/3/60**	**21.00**	**xx**	**35**	**xx**	**LG ARWB-072**
HP-25	**Restaurant West**	**Horizontal**	**2100**	**420**	**0.6**	**6.00**	**75**	**63**	**90**	**15.0**	**208/3/60**	**29.5**	**xx**	**45.0**	**xx**	**FHP LV-070**
HP-26	**Restaurant East**	**Horizontal**	**1600**	**550**	**0.5**	**4.00**	**75**	**63**	**90**	**12.0**	**208/3/60**	**18.2**	**xx**	**25.0**	**xx**	**FHP LV-048**

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KITCHEN MAKE-UP AIR UNIT SCHEDULE

MARK	DESCRIPTION: CONFIGURATION	DESCRIPTION: FIRING	AREA SERVED	100% OA CFM	STATIC PRESSURE (IN): EXTERNAL	STATIC PRESSURE (IN): TOTAL	HEATING: CAPACITY (MBH): INPUT	HEATING: CAPACITY (MBH): OUTPUT	HEATING: AIR TEMP (F): ENT	HEATING: AIR TEMP (F): LVG	ELECTRIC DATA: VOLTAGE	ELECTRIC DATA: FAN (HP)	ELECTRIC DATA: MCA	SONES	WEIGHT LBS.	STANDARD OF PERFORMANCE
KMAU-1	VERTICAL	DIRECT	KIT. HOOD	3950	1.00	1.70	303	279	0	65	208/3/60	3	13.9	21	1270	GREENHECK VSU-112-H20

1 Unit shall be factory assembled, piped, wired and tested as a single package
2 Unit shall be provided with a 24" high stand
3 Unit shall include deliver 100% outside air to the kitchen hood
4 Unit shall be direct fired, 92% efficient
5 Unit shall be provided with spark ignition
6 Gas controls shall provide 25:1 turndown ratio with electronic modulation
7 Unit shall be energized via interlock with fan F-1
8 Air temperature shall be controoled by a discharge air sensor
9 Unit housing shall be constructed of galvanized steel, with hinged access panels
10 Blowers shall be forward curved, with permanently lubricated ball bearings and shall be mounted on vibration isolators
11 All equipment fasteners shall be corrosion resistant
12 Unit shall be provided with permanent, 2" thick aluminum filters
13 Unit shall be provided with a motorized inlet damper
14 Heating section shall be double wall insulated
15 Unit shall be provided with factory controls and shall be connected to the building BAS system
16 The BAS system shall monitor the following:
A Inlet damper position
B Fan operation
C Inlet air temperature
D Outlet air temperature
17 Warranty One year

Commercial Area Unit Notes

1. Commercial area thermostats shall be auto c/o with LED display.
2. Provide remote temp sensor at public spaces where indicated.
3. Drain pans shall be constructed of plastic and shall be positively sloped (per ASHRAE-02).
4. Cabinet insulations shall be 1/2" CCE insulation and meet UL-181 and ASHRAE-02.
4
5. Refrigeration system shall be free of contaminants and shall be constructed with copper in conformance with ASTM-B743.
6. Refrigerant flow shall be through a TXV valve.
7. Fan motors shall be 3-speed. Fans shall be draw thru configuration with PSC motor. 4
8. Units shall be provided with filter frame and (2) sets of 1" filters. MERV-8 during construction and MERV-13 after construction.
9. A sound attenuation package shall be provided at all units.
10. The unit shall include a low and high pressure switch, and lockout relay.
11. Units shall be provided with deluxe 24 volt controls.
12. Supply hose kit-equal FDI-with ball valve, Y-stringer, union, (2) P/T ports, automatic air vent, drain and stainless steel flex hose.
13. Return hose kit-equal FDI-with Hayes-2517 flow valve, shut-off valve, (2) P/T ports, air vent, union and stainless steel flex hose.
14. Units shall be provided with a factory installed fused disconnect.
15. Units shall be warranted for (1) year.
16. Compressors shall be warranted for (5) years.
17. Condenser water risers do not require insulation. Provide a 2-way motorized valve at each unit.
18. Thermostats shall be connected to BAS.
19. Acceptable manufacturers: Climate Master, Trane, JCI, or equal.

Guest Room Unit Notes

1. Guest room thermostats shall be remote mounted, INNCOM E4 Smartstat.
2. Drain pans shall be corrosion protected.
3. Cabinet insulation shall be closed cell.
4. R-410A refrigerant shall be used in all units.
5. Refrigerant flow shall be through a TXV valve.
6. Fan motors shall be 2-speed. Fans shall be draw thru configuration with PSC motor.
7. Units shall be provided with filter frame with 1" filters.
8. The compressor enclosure shall be enclosed with 1" 2# density insulation.
9. The unit shall include a high pressure switch and low temperature and lockout relay.
10. Units shall be provided with deluxe 24 volt controls.
11. Supply hose kit-equal FDI with ball valve, Y-stringer, union (2) P/T ports, air vent, union and stainless steel flex hose.
12. Return hose kit- equal FDI with Hayes-2517 autoflow valve, shut-off valve, (2) P/T ports, air vent, union and stainless steel flex hose.
13. Units shall be provided with a factory installed disconnect with fusing added to the internal line voltage switch circuit.
14. Unit parts shall be warranted for (1) year.
15. Compressors shall be warranted for (5) years.
16. Condenser water risers do not require insulation.
17. Provide a 2-way motorized valve at teach unit.
18. Thermostats shall be connected at BAS.
19. Acceptable manufacturers: Climate Master, Trane, JCI, or equal.

STATE OF MAINE — JEFFREY A. CRABTREE — No. 11261 — LICENSED PROFESSIONAL ENGINEER

Prepared For: 119 DEVELOPMENT LLC

Mechanical Engineer: Crabtree Engineering, 278 Amelia Cove, Collierville, Tennessee 38017, jce98@bellsouth.net

Architect: ARCHETYPE architects, 48 Union Wharf Portland, Maine 04101, (207) 772-6022 Fax (207) 772-4056

Project: PRESS HOTEL, 390 CONGRESS STREET PORTLAND, MAINE

Revisions:		
1	13_10-14	Issue for Bid & Marriott Revw
2	13_10-21	Addendum #2
3	13_10-31	Addendum #3
4	13_12-18	Addendum #4 VE Items
5	14_04-14	Misc RFI's

Scale: 1/8" = 1'-0"

Date: 08 OCT 13

HVAC SCHEDULES

M10.02