

WATER SOURCE HEAT PUMP PERFORMANCE SCHEDULE																												
TAGS (HP #)	ARRANG.	NOMINAL SIZE (TONS)	UNIT AIRFLOW				WATER COIL			HEAT PUMP - HEATING							HEAT PUMP - COOLING							ELECTRICAL DATA			BASIS OF DESIGN - MCQUAY	
			S.A. CFM	E.S.P. (IN.WC)	FAN HP	ECM	FLOW (GPM)	W.P.D. (FT.WG)	VALVE	E.D.B. (°F)	L.D.B. (°F)	E.W.T. (°F)	L.W.T. (°F)	CAP. (MBH)	COP	E.D.B. (°F)	E.W.B. (°F)	E.W.T. (°F)	L.W.T. (°F)	TOT. (MBH)	SENS. (MBH)	EER	M.C.A.	BREAKER	VOLTAGE	WEIGHT (LBS)	REMARKS	MODEL
HP-A	VERTICAL STACK	0.75	325	0.12	0.06	N	2.0	5.2	V-1 N/A	10.0	96.4	10.0	60.6	10.6	5.23	80.0	61.0	88.0	99.8	9.3	8.3	13.6	5.1	15.0	208/160	181	1/2" LUS/R, 1" C RETURN AIR GRILLE / ACCESS DOOR	UVHC1009
HP-B	VERTICAL STACK	2.0	750	0.32	0.12	Y	5.0	7.4	V-2 N/A	10.0	107.1	10.0	62.2	29.9	4.93	80.0	61.0	88.0	91.9	24.4	18.8	14.9	19.1	30.0	208/160	313	3/4" LUS/R, 1" C RETURN AIR GRILLE / ACCESS DOOR	UVHC1024
HP-C	VERTICAL STACK	2.5	1050	0.02	0.20	Y	6.0	3.1	V-3 N/A	10.0	101.6	10.0	59.9	35.1	4.81	80.0	61.0	88.0	100.4	28.6	24.2	14.6	21.9	35.0	208/160	321	3/4" LUS/R, 1" C RETURN AIR GRILLE / ACCESS DOOR	UVHC1030
HP-D	CONSOLE	1.5	392	0.00	0.05	N	2.5	3.9	V-1	10.0	119.1	10.0	56.4	20.1	4.53	80.0	61.0	88.0	104.1	16.6	11.0	13.4	9.5	15.0	208/160	171	3/4" LUS/R, 3/4" C	UMHC1018
HP-E	HORIZ.	0.75	300	0.50	0.125	N	2.0	5.8	V-1	10.0	107.5	10.0	60.6	12.1	4.31	80.0	61.0	88.0	98.9	8.2	5.9	10.9	5.8	15.0	208/160	99	1/2" LUS/R, 3/4" C	WCCH4009
HP-F	HORIZ.	1.5	630	0.15	0.33	Y	4.0	4.5	V-2	10.0	106.1	10.0	60.4	24.5	4.6	80.0	61.0	88.0	100.8	20.2	15.4	12.8	10.9	15.0	208/160	195	1/2" LUS/R, 3/4" C	WCCH4019
HP-G	HORIZ.	2.0	800	0.45	0.33	Y	5.0	7.1	V-2	10.0	103.9	10.0	60.9	29.2	4.6	80.0	61.0	88.0	99.9	23.4	16.8	12.6	12.1	15.0	208/160	195	1/2" LUS/R, 3/4" C	WCCH4024
HP-H	HORIZ.	3.0	1200	0.5	0.5	Y	8.0	6.4	V-4	10.0	102.9	10.0	61.7	42.5	4.6	80.0	61.0	88.0	99.1	35.9	25.8	14.5	25.1	40.0	208/160	223	3/4" LUS/R, 3/4" C	WCCH5036
HP-J	HORIZ.	6.0	2330	0.35	1.0	Y	15.0	11.1	V-5	10.0	105.0	10.0	61.1	81.9	4.1	80.0	61.0	88.0	100.0	69.8	50.6	12.0	40.3	65.0	208/160	332	3/4" LUS/R, 3/4" C	WCCH4010

*PROVIDE WITH CONDENSATE PUMPS.

DATE	REVISION	SCHEDULE	DESCRIPTION

OPENEDGE
CONSTRUCTION CORPORATION
11 CORPORATE DRIVE, BELMONT, NH 03220
PHONE: (603) 337-9090 FAX: (603) 337-9191

MECHANICAL AND PLUMBING SYMBOLS AND ABBREVIATIONS LEGEND

NOTE - USE SYMBOLS AND ABBREVIATIONS AS APPLICABLE FOR THIS MECHANICAL DRAWING SET. SOME SYMBOLS AND ABBREVIATIONS IN THIS LEGEND MAY NOT APPLY.

<p>— CA — COMPRESSED AIR PIPING (CA) — C — CONDENSATE DRAIN PIPING (C) — CTR — COOLING TOWER RETURN PIPING (CTR) — CTS — COOLING TOWER SUPPLY PIPING (CTS) — CUR — CHILLED WATER RETURN PIPING (CUR) — CUS — CHILLED WATER SUPPLY PIPING (CUS) — FOR — FUEL OIL RETURN PIPING (FOR) — FOS — FUEL OIL SUPPLY PIPING (FOS) — G — GAS PIPING (G) — HWR — HOT WATER RETURN PIPING (HWR) — HWS — HOT WATER SUPPLY PIPING (HWS) — RL — REFRIGERANT LIQUID PIPING (RL) — RG — REFRIGERANT GAS PIPING (RG) - - - - - SANITARY PIPING BELOW FLOOR (SAN) - - - - - SANITARY PIPING ABOVE FLOOR (SAN) - - - - - SANITARY VENT PIPING - - - - - RAINWATER LEADER ABOVE SLAB (RUL) - - - - - COLD WATER PIPING (CW) - - - - - HOT WATER PIPING (HW) - - - - - RECIRCULATED HOT WATER PIPING (RHW) — — — — — PIPE CAP — — — — — DIRECTION OF FLUID FLOW — — — — — ELBOW UP — — — — — ELBOW DOWN — — — — — PIPE TEE UP — — — — — PIPE TEE DOWN — — — — — PIPE REDUCER — — — — — PIPE WITH GUIDE — — — — — PIPE WITH ANCHOR — — — — — BUTTERFLY VALVE — — — — — OS & Y GATE VALVE</p>	<p>— — — — — BACKFLOW PREVENTER (BFP) — — — — — CHECK VALVE — — — — — BALANCING VALVE (ADJUSTABLE) — — — — — AUTOMATIC FLOW CONTROL VALVE — — — — — RELIEF VALVE (RV) — — — — — BALL VALVE — — — — — 3/4" BALL VALVE WITH 3/4" HOSE END — — — — — GATE VALVE — — — — — PRESSURE REDUCING VALVE — — — — — FUSIBLE VALVE — — — — — STRAINER W/BLowDOWN BALL VALVE — — — — — 2-WAY CONTROL VALVE — — — — — SOLENOID VALVE — — — — — 3-WAY CONTROL VALVE — — — — — 3-WAY CONTROL VALVE (TOP VIEW) — — — — — 4-WAY CONTROL VALVE (TOP VIEW) — — — — — 2 BUTTERFLY VALVES W/SINGLE ACTUATOR — — — — — BUTTERFLY VALVE W/ACTUATOR — — — — — TRIPLE-DUTY VALVE — — — — — UNION — — — — — PIPE FLANGE — — — — — PUMP WITH FLANGES — — — — — BASE MOUNTED PUMP — — — — — CARTRIDGE TYPE INLINE PUMP — — — — — VERTICAL INLINE PUMP — — — — — FLEXIBLE PIPE CONNECTION (FC) — — — — — PITCH DOWN — — — — — PETCOCK — — — — — FLOW METER</p>	<p>— — — — — PRESSURE GAGE WITH GAGE COCK — — — — — THERMOMETER IN WELL — — — — — WATER FLOW SWITCH — — — — — PRESSURE SWITCH OR SENSOR — — — — — IMMERSION TEMPERATURE SENSOR — — — — — DUCT MOUNTED SMOKE DETECTOR — — — — — DUCT MOUNTED FIRE/SMOKE DAMPER — — — — — ROOM TEMPERATURE SENSOR — — — — — THERMOSTAT OR SENSOR ON WALL — — — — — TSTAT OR SENSOR W/ TAMPERPROOF GUARD — — — — — MANUAL AIR VENT — — — — — NOTE TAG (NUMBER) — — — — — AIR DEVICE TAG (LETTER) WITH CFM — — — — — ROOM NUMBER — — — — — TURNING VANES — — — — — DUCT W/MANUAL DAMPER — — — — — DUCT W/FLEXIBLE CONNECTION (FC) — — — — — LAGGED DUCT — — — — — DUCT W/ACOUSTIC LINING — — — — — DUCT W/SQUARE-TO-ROUND TRANSITION — — — — — FLEXIBLE DUCT — — — — — MOTOR OPERATED DAMPER — — — — — AIRFLOW OUT — — — — — AIRFLOW IN — — — — — DIAMETER OR FLAT OVAL — — — — — FIRE DAMPER — — — — — ROUND OR FLAT OVAL DUCT DOWN — — — — — ROUND OR FLAT OVAL DUCT UP — — — — — SUPPLY DIFFUSER — — — — — RETURN GRILLE — — — — — STEAM TRAP — — — — — WATER HAMMER ARRESTOR — — — — — HUMIDISTAT</p>	<p>AAV — AUTOMATIC AIR VENT AD — ACCESS DOOR AFF — ABOVE FINISHED FLOOR AHU-# — AIR HANDLING UNIT TAG AMS — AIRFLOW MONITORING STATION AMPS — AMPERES AP — ACCESS PANEL APD — AIR PRESSURE DROP AS-# — AIR SEPARATOR TAG ATC — AUTOMATIC TEMPERATURE CONTROL B-# — BOILER TAG BD-# — BYPASS DAMPER TAG BFP-# — BACKFLOW PREVENTER TAG BHP — BRAKE HORSEPOWER BTUH — BRITISH THERMAL UNITS PER HOUR CBD — COUNTER BALANCED DAMPER CC-# — COOLING COIL TAG CFM — CUBIC FEET PER MINUTE CHLR-# — CHILLER TAG CO — CLEANOUT CONV-# — CONVECTOR TAG CUH-# — CABINET UNIT HEATER TAG CP-# — CIRCULATING PUMP TAG CT-# — COOLING TOWER TAG Cv — VALVE COEFFICIENT CW — COLD WATER CHWS/R — CHILLED WATER SUPPLY AND RETURN DB — DRY BULB dB RE — DECIBELS RELATIVE TO DC — DOUBLE CHECK DCA — DOUBLE CHECK ATMOSPHERIC DEG F — DEGREES FAHRENHEIT DIA — DIAMETER DIW — DOWN IN WALL DN — DOWN EA — EXHAUST AIR EAT — ENTERING AIR TEMPERATURE</p>	<p>EDB — ENTERING DRY BULB EDC-# — ELECTRIC DUCT COIL TAG EER — ENERGY EFFICIENCY RATIO EF-# — EXHAUST FAN TAG EFF — EFFICIENCY EG-# — EXHAUST GRILLE TAG ER-# — EXHAUST REGISTER TAG ESP — EXTERNAL STATIC PRESSURE ET-# — EXPANSION TANK TAG EUB — ENTERING WET BULB EWH-# — ELECTRIC WATER HEATER TAG EWT — ENTERING WATER TEMPERATURE EXG — EXISTING EXH — EXHAUST FC — FLEXIBLE CONNECTION FCO — FLOOR CLEANOUT FD — FIRE DAMPER FD-# — FLOOR DRAIN TAG FLA — FULL LOAD AMPS FOR — FUEL OIL RETURN FOS — FUEL OIL SUPPLY FPHB — FROST PROOF HOSE BIBB FPM — FEET PER MINUTE FS-# — FLOOR SINK TAG FT — FEET FTR-# — FINITUBE RADIATION TAG GA — GAGE GAL — GALLONS GRWH-# — GAS FIRED WATER HEATER TAG GPH — GALLONS PER HOUR GPM — GALLONS PER MINUTE GUH-# — GAS UNIT HEATER TAG HC-# — HEATING COIL TAG HP — HORSEPOWER HRV-# — HEAT RECOVERY VENTILATOR TAG HW — HOT WATER HWS/R — HOT WATER SUPPLY AND RETURN</p>	<p>IFB-R — INSTITUTE OF BOILER AND RADIATOR MANUFACTURERS IFWH-# — INDIRECT FIRED WATER HEATER TAG IN — INCHES IV-# — INTAKE VENT TAG L-# — LOUVER TAG LAT — LEAVING AIR TEMPERATURE LB — POUNDS LD-# — LINEAR DIFFUSER TAG LTHWS/R — LOW TEMPERATURE HOT WATER LRA — LOCKED ROTOR AMPS LWCO — LOW WATER CUTOUT LWT — LEAVING WATER TEMPERATURE MAX — MAXIMUM MBH — THOUSANDS OF BTU PER HOUR MCA — MINIMUM CIRCUIT AMPACITY MIN — MINIMUM NC — NOISE CRITERION NIC — NOT IN CONTRACT NTS — NOT TO SCALE OA — OUTSIDE AIR OBD — OPPOSED BLADE DAMPER OD — OUTSIDE DIAMETER OED — OPEN ENDED DUCT OFWH-# — OIL FIRED WATER HEATER TAG OPD — OVERCURRENT PROTECTIVE DEVICE PF-# — PLUMBING FIXTURE TAG PENETN — PENETRATION FF-# — PADDLE FAN TAG PSIA — POUNDS PER SQUARE INCH ABSOLUTE PSIG — POUNDS PER SQUARE INCH GAGE PVC — POLYVINYL CHLORIDE (PIPE) RA — RETURN AIR RD — ROOF DRAIN RDE — RECOMMENDED DUAL ELEMENT FUSE AMPS RFM-# — RADIANT FLOOR MANIFOLD TAG RG-# — RETURN GRILLE TAG RHU — RECIRCULATED HOT WATER</p>	<p>RLA — RUNNING LOAD AMPS RPM — REVOLUTIONS PER MINUTE RPS — REVOLUTIONS PER SECOND RFPZ — REDUCED PRESSURE ZONE RR-# — RETURN REGISTER TAG RTU — ROOM TEMPERATURE SENSOR RV — RELIEF VALVE RWL — RAINWATER LEADER SA — SUPPLY AIR SAN — SANITARY (DRAIN & WASTE) SD — SMOKE DAMPER SEER — SEASONAL ENERGY EFFICIENCY RATIO SF — SUPPLY FAN SG-# — SUPPLY GRILLE TAG SP — STATIC PRESSURE SP-# — SUMP PUMP TAG SR-# — SUPPLY REGISTER TAG SQFT — SQUARE FEET ΔT — TEMPERATURE DIFFERENTIAL TEMP. — TEMPERATURE TCP — TEMPERATURE CONTROL PANEL TMV-# — THERMOSTATIC MIXING VALVE TAG TSP — TOTAL STATIC PRESSURE TYP — TYPICAL UH-# — UNIT HEATER TAG UV-# — VARIABLE AIR VOLUME BOX TAG VB — VACUUM BREAKER VFD — VARIABLE FREQUENCY INVERTER DRIVE VTR — VENT THRU ROOF V/PH/Hz — VOLTS/PHASES/HERTZ WB — WET BULB WCO — WALL CLEANOUT WG — WATER GAGE WPD — WATER PRESSURE DROP WSA — WIRE SIZING AMPS WTD — WATER TEMPERATURE DROP W/ — WITH ZD-# — ZONE DAMPER TAG</p>
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MECHANICAL & PLUMBING SYMBOLS AND ABBREVIATIONS LEGEND

PROJECT: COMMERCIAL & MAPLE STREET MIXED USE DEVELOPMENT PORTLAND, ME.
DATE: 06-06-2013
SCALE: 1/8" = 1'-0"
DRAWN BY: [Signature]
SHEET: [Number]

