

GAS BOILER PERFORMANCE SCHEDULE											
* BASED ON D.O.E. (DEPT. OF ENERGY) TEST PROCEDURE											
TAG	INPUT (MBH)	HEATING CAPACITY (MBH)	PRESS. DROP (FT HD)	FUEL	EFF. (%)	INTAKE/VENT(IN)	ELECTRICAL REQUIREMENTS			BASIS OF DESIGN = HEAT TRANSFER PRODUCTS	
							AMP	WATTS	V/PH/Hz	SERVICE	MODEL
B-1	5000	4100	110	NAT GAS	94.0	4'4"	100	-	120/160	HUS/R	MODCON-500
B-2	5000	4100	110	NAT GAS	94.0	4'4"	100	-	120/160	HUS/R	MODCON-500

UNIT HEATER PERFORMANCE SCHEDULE											
HEATING PERFORMANCE BASED ON 180°F ENTERING WATER & 60°F ENTERING AIR TEMPERATURE											
TAG	OUTPUT (MEH)	FLOW RATE (GPM)	W/PD (FT/UG)	AIRFLOW (CFM)	THROW	MTGHT. (FEET)	ELECTRICAL REQUIREMENTS			BASIS OF DESIGN = STERLING	
							HP	AMPS	V/PH/Hz	SERVICE	MODEL
UH-1	240	2.0	0.24	900	-	*	1/20	2.0	120/160	UTILITY RM 108	H6-84

\* AS HIGH AS POSSIBLE.

CABINET UNIT HEATER PERFORMANCE SCHEDULE											
HEATING PERFORMANCE BASED ON 180°F ENTERING WATER & 60°F ENTERING AIR TEMPERATURE											
TAG	OUTPUT (MEH)	FLOW RATE (GPM)	W/PD (FT/UG)	AIRFLOW (CFM)	THROW	MTGHT. (FEET)	ELECTRICAL REQUIREMENTS			BASIS OF DESIGN = STERLING	
							HP	AMPS	V/PH/Hz	SERVICE	MODEL
CUH-1	222	2.0	0.44	420	-	*	1/10	1.6	120/160	STAIRS	INV. REC. RI-110-04

\* REFER TO ARCHITECTURAL DRAWINGS, TYP. 6" AFF. PROVIDE EACH UNIT W/ DISCONNECT SWITCH AND FILTERS.

TEMPERATURE MIXING VALVE PERFORMANCE SCHEDULE									
TAG	FLOW RATE (GPM)	INLET CONNECTION (INCHES)	OUTLET CONNECTION (INCHES)	W/PD (FSG)	SET POINT (DEGREES F)	PROVIDE SPARE CARTRIDGE (Y) OR (N)	BASIS OF DESIGN = SYMONS		
							SERVICE	ARRANGEMENT	MODEL
TMV-1	280	1-1/2"	1-1/2"	4.0	115°F	Y	DOM HW	WALL	5-900-W

AIR DEVICE PERFORMANCE SCHEDULE									
TAG	PANEL SIZE (IN)	NECK SIZE (IN)	AIRFLOW (CFM)	SPLOSS (INWG)	THROW(L)	THROW(S)	Nc	BASIS OF DESIGN = METALAIR	
								DUCT CONN(IN)	MODEL
(A)	-	10x6	75	0.05	-	-	20	-	1/2", 0"
(B)	-	12x12	400	0.05	-	-	20	-	1/2", 0"
(C)	-	12x12	100	0.05	-	-	20	-	5000D
(AA)	-	10x6	75	0.05	-	-	25	-	1/2", 35"
(BB)	-	12x12	400	0.05	-	-	25	-	1/2", 35"
(CC)	-	12x12	100	0.05	-	-	25	-	1/2", 35"

PLUMBING FIXTURE CONNECTION SCHEDULE					
TAG	DESCRIPTION	SAN	VENT	CW	HW
P-1	FLOOR MOUNTED TT UC	3"	2"	1/2"	-
P-1A	ADA FLOOR MOUNTED TT UC	3"	2"	1/2"	-
P-1B	ADA FLOOR MOUNTED TT UC	3"	2"	1/2"	-
P-2	WALL HUNG LAVATORY	2"	2"	1/2"	1/2"
P-2A	ADA WALL HUNG LAVATORY	2"	2"	1/2"	1/2"
P-2B	ADA WALL HUNG LAVATORY	2"	2"	1/2"	1/2"
P-2C	VANITY TOP	2"	2"	1/2"	1/2"
P-3	TUB / SHOWER	2"	2"	1/2"	1/2"
P-3A	ADA ROLL-IN SHOWER (60")	2"	2"	1/2"	1/2"
P-3B	ADA TUB/SHOWER	2"	2"	1/2"	1/2"
P-4	SINGLE BOUL. SS KITCHEN SINK	1-1/2"	1-1/2"	1/2"	1/2"
P-4A	ADA SINGLE BOUL. SS KITCHEN SINK	1-1/2"	1-1/2"	1/2"	1/2"
P-4B	ADA DOUBLE BOUL. SS KITCHEN SINK	1-1/2"	1-1/2"	1/2"	1/2"
P-5	MOP BASIN	3"	2"	3/4"	3/4"
P-5A	LAUNDRY TUB	3"	2"	3/4"	3/4"
P-6	WASHING MACHINE HOOK-UP	2"	1-1/2"	1/2"	1/2"
HB	HOSE BIBB	-	-	3/4"	-
FFHB	FREEZE PROOF HOSE BIBB	-	-	3/4"	-
FD	FLOOR DRAIN (W/ TRAP PRIMER)	3"	2"	1/2"	-

MINIMUM SIZE OF BELOW SLAB SANITARY & VENT PIPING SHALL BE 2". TRAP PRIMERS ON FLOOR DRAINS SHALL BE CONNECTED TO NEAREST FIXTURE.

CONTROL VALVE SCHEDULE				
TAG	FLOW RATE (GPM)	Cv	VALVE SIZE (IN)	SERVICE
V-1	2.0	1.3	1/2"	2-WAY, 2-POSITION FTR
V-2	15	2.0	1/2"	3-WAY, MIXING HC-1 & 2

FAN PERFORMANCE SCHEDULE													
BASIS OF DESIGN = (F) PANASONIC, (G) GREENHECK, (B) BROAN, (F) FANTECH													
TAG	AIRFLOW LOW/HIGH (CFM)	TSP (INWG)	NOISE (SONES)	RFM	DRIVE	ELECTRICAL REQUIREMENTS			SERVICE		ARRANGEMENT	MODEL	
						HP	BHP	WATTS	AMPS	V/PH/Hz			
EF-1	50/82	0.25	0.3	926	DIRECT	-	-	16.2	0.11	120/160	VENTILATION & BATHROOM EXH	CEILING	(F) FV-08VK12
EF-2	95	0.25	1.0	1011	DIRECT	-	-	35.6	-	120/160	BATHROOM FAN / LIGHT	CEILING	(F) FV-11VGL4
EF-3	348	0.25	3.0	823	DIRECT	-	-	110	-	120/160	TRASH RM VENTILATION / EXH	CEILING	(F) FV-40VQ3
KF-1	180	0.15	6.5	1915	DIRECT	-	-	-	1.1	120/160	KITCHEN EXHAUST	CEILING	(B) 505
SF-1	500	0.15	5.2	1650	DIRECT	1/30	0.04	-	-	120/160	BOILER ROOM VENTILATION	DUCT	(G) 861-10-428-F
BF-1	150	0.2	-	-	DIRECT	-	-	83	0.13	120/160	DRYER BOOSTER	DUCT	(F) DBF4XL1

EF-1 PROVIDED W/ MOTION SENSOR FOR HIGH SPEED ACTIVATION. KF-1 PROVIDED W/ ALUMINUM WASHABLE FILTER.

INDIRECT-FIRED WATER HEATER PERFORMANCE SCHEDULE													
TAG	STORAGE (GALS)	INPUT (GPM)	W/PD (FT/UG)	1ST HOUR 90°F RISE (GPH)	WORKING PRESSURE (PSIG)	INLET CW TEMP (DEG F)	INLET HW TEMP (DEG F)	ELECTRICAL REQUIREMENTS		BASIS OF DESIGN = SUPERSTOR ULTRA COMMERCIAL			
								HP	WATTS	V/PH/Hz	SERVICE	FUEL	MODEL
IFUH-1	119.0	28.0	12.1	637.0	150.0	50.0	180.0	-	-	-	BUILDING HW	HUS/R	SSU-19C
IFUH-2	119.0	28.0	12.1	637.0	150.0	50.0	180.0	-	-	-	BUILDING HW	HUS/R	SSU-19C

PUMP PERFORMANCE SCHEDULE													
TAG	FLOW RATE (GPM)	HEAD (FT/UG)	IMPEL. SIZE	RFM	EFF %	ELECTRICAL REQUIREMENTS			BASIS OF DESIGN = TACO				
						HP	BHP	VFD	AMPS	V/PH/Hz	SERVICE	ARRANGEMENT	MODEL
CP-1A	45.0	16.0	-	3450	-	1/2	-	N	5.0	120/160	B-1	INLINE	1400-50
CP-1B	28.0	20.0	-	3450	-	1/6	-	N	2.0	120/160	IFUH-1	INLINE	1400-30
CP-2A	45.0	16.0	-	3450	-	1/2	-	N	5.0	120/160	B-2	INLINE	1400-50
CP-2B	28.0	20.0	-	3450	-	1/6	-	N	2.0	120/160	IFUH-2	INLINE	1400-30
CP-3	80.0	40.0	13	1760	52	2	1.55	Y	-	208/3160	HUS/R	INLINE	KV501
CP-4	80.0	40.0	13	1760	52	2	1.55	Y	-	208/3160	HUS/R	INLINE	KV501
CP-5	8.0	20.0	-	3250	-	1/8	-	N	1.16	120/160	RECIRC. HW	INLINE	0011-B
CP-6	8.0	8.0	-	3250	-	1/25	-	N	0.1	120/160	DHW STORAGE	INLINE	001-B

CP-5 & CP-6 SHALL BE ALL BRONZE CONSTRUCTION.

EXPANSION TANK PERFORMANCE SCHEDULE									
TAG	TANK VOLUME (GAL)	ACCEPTANCE VOLUME (GAL)	MIN. REQ'D. ACCEPT. VOL. (GAL)	MAX. WORK'G. TEMPERATURE (DEG F)	MAX. WORK'G. PRESSURE (PSI)	WEIGHT (LBS)	BASIS OF DESIGN = AMTROL		
							MOUNTING	SERVICE	MODEL
ET-1	44.4	22.6	20.0	240	125	600	FLOOR	HUS/R	AX-80V
ET-2	14.0	-	12.0	200	150	200	FLOOR	DOM. HW	ST-30V-C

### 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><b>SYMBOL DESCRIPTION</b></p> <p>CA COMPRESSED AIR PIPING (CA)</p> <p>C CONDENSATE DRAIN PIPING (C)</p> <p>CTR COOLING TOWER RETURN PIPING (CTR)</p> <p>CTS COOLING TOWER SUPPLY PIPING (CTS)</p> <p>CWR CHILLED WATER RETURN PIPING (CWR)</p> <p>CWS CHILLED WATER SUPPLY PIPING (CWS)</p> <p>FOR FUEL OIL RETURN PIPING (FOR)</p> <p>FOS FUEL OIL SUPPLY PIPING (FOS)</p> <p>G GAS PIPING (G)</p> <p>HUR HOT WATER RETURN PIPING (HUR)</p> <p>HUS HOT WATER SUPPLY PIPING (HUS)</p> <p>RL REFRIGERANT LIQUID PIPING (RL)</p> <p>RG REFRIGERANT GAS PIPING (RG)</p> <p>----- SANITARY PIPING BELOW FLOOR (SAN)</p> <p>----- SANITARY PIPING ABOVE FLOOR (SAN)</p> <p>----- SANITARY VENT PIPING</p> <p>RULL RAINWATER LEADER ABOVE SLAB (RULL)</p> <p>--- COLD WATER PIPING (CW)</p> <p>--- HOT WATER PIPING (HW)</p> <p>--- RECIRCULATED HOT WATER PIPING (RHW)</p> <p>→ PIPE CAP</p> <p>→ DIRECTION OF FLUID FLOW</p> <p>○ ELBOW UP</p> <p>○ ELBOW DOWN</p> <p>○ PIPE TEE UP</p> <p>○ PIPE TEE DOWN</p> <p>○ PIPE REDUCER</p> <p>○ PIPE WITH GUIDE</p> <p>○ PIPE WITH ANCHOR</p> <p>○ BUTTERFLY VALVE</p> <p>○ OS &amp; Y GATE VALVE</p>	<p><b>SYMBOL DESCRIPTION</b></p> <p>BACKFLOW PREVENTER (BFP)</p> <p>CHECK VALVE</p> <p>BALANCING VALVE (ADJUSTABLE)</p> <p>AUTOMATIC FLOW CONTROL VALVE</p> <p>RELIEF VALVE (RV)</p> <p>BALL VALVE</p> <p>BALL VALVE</p> <p>3/4" BALL VALVE WITH 3/4" HOSE END</p> <p>GATE VALVE</p> <p>PRESSURE REDUCING VALVE</p> <p>FUSIBLE VALVE</p> <p>STRAINER W/BLIND/DOWN BALL VALVE</p> <p>2-WAY CONTROL VALVE</p> <p>SOLENOID VALVE</p> <p>3-WAY CONTROL VALVE</p> <p>3-WAY CONTROL VALVE (TOP VIEW)</p> <p>4-WAY CONTROL VALVE (TOP VIEW)</p> <p>2 BUTTERFLY VALVES W/SINGLE ACTUATOR</p> <p>BUTTERFLY VALVE W/ACTUATOR</p> <p>TRIPLE-DUTY VALVE</p> <p>UNION</p> <p>PIPE FLANGE</p> <p>PUMP WITH FLANGES</p> <p>BASE MOUNTED PUMP</p> <p>CARTRIDGE TYPE INLINE PUMP</p> <p>VERTICAL INLINE PUMP</p> <p>FLEXIBLE PIPE CONNECTION (FC)</p> <p>PITCH DOWN</p> <p>PETCOCK</p>	<p><b>SYMBOL DESCRIPTION</b></p> <p>PRESSURE GAGE WITH GAGE COCK</p> <p>THERMOMETER IN WELL</p> <p>WATER FLOW SWITCH</p> <p>PRESSURE SWITCH OR SENSOR</p> <p>IMMERSION TEMPERATURE SENSOR</p> <p>DUCT MOUNTED SMOKE DETECTOR</p> <p>ROOM TEMPERATURE SENSOR</p> <p>AP AMPERES</p> <p>AP ACCESS PANEL</p> <p>AFD AIR PRESSURE DROP</p> <p>AS AIR SEPARATOR TAG</p> <p>ATC AUTOMATIC TEMPERATURE CONTROL</p> <p>B BOILER TAG</p> <p>BD BYPASS DAMPER TAG</p> <p>BFP BACKFLOW PREVENTER TAG</p> <p>BHP BRAKE HORSEPOWER</p> <p>BTUH BRITISH THERMAL UNITS PER HOUR</p> <p>CEB COUNTER BALANCED DAMPER</p> <p>CC COOLING COIL TAG</p> <p>CFM CUBIC FEET PER MINUTE</p> <p>CHL.R. CHILLER TAG</p> <p>CO CLEANOUT</p> <p>CONV. CONVECTOR TAG</p> <p>CUH CABINET UNIT HEATER TAG</p> <p>CP CIRCULATING PUMP TAG</p> <p>CT COOLING TOWER TAG</p> <p>CV VALVE COEFFICIENT</p> <p>CW COLD WATER</p> <p>CHUS/R CHILLED WATER SUPPLY AND RETURN</p> <p>DB DRY BULB</p> <p>dB RE DECIBELS RELATIVE TO</p> <p>DC DOUBLE CHECK</p> <p>DCA DOUBLE CHECK ATMOSPHERIC</p> <p>DEG F DEGREES FAHRENHEIT</p> <p>DIA DIAMETER</p> <p>DIW DRAIN IN WALL</p> <p>DN DOWN</p> <p>EA EXHAUST AIR</p> <p>EAT ENTERING AIR TEMPERATURE</p>	<p><b>ABBREVIATION DESCRIPTION</b></p> <p>AAV AUTOMATIC AIR VENT</p> <p>AD ACCESS DOOR</p> <p>AFF ABOVE FINISHED FLOOR</p> <p>AHU AIR HANDLING UNIT TAG</p> <p>AMS AIRFLOW MONITORING STATION</p> <p>AMPS AMPERES</p> <p>AP ACCESS PANEL</p> <p>AFD AIR PRESSURE DROP</p> <p>AS AIR SEPARATOR TAG</p> <p>ATC AUTOMATIC TEMPERATURE CONTROL</p> <p>B BOILER TAG</p> <p>BD BYPASS DAMPER TAG</p> <p>BFP BACKFLOW PREVENTER TAG</p> <p>BHP BRAKE HORSEPOWER</p> <p>BTUH BRITISH THERMAL UNITS PER HOUR</p> <p>CEB COUNTER BALANCED DAMPER</p> <p>CC COOLING COIL TAG</p> <p>CFM CUBIC FEET PER MINUTE</p> <p>CHL.R. 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TEMPERATURE</p> <p>TCP TEMPERATURE CONTROL PANEL</p> <p>TMV THERMOSTATIC MIXING VALVE TAG</p> <p>TSP TOTAL STATIC PRESSURE</p> <p>TYP TYPICAL</p> <p>UH UNIT HEATER TAG</p> <p>VAV VARIABLE AIR VOLUME BOX TAG</p> <p>VB VACUUM BREAKER</p> <p>VFD VARIABLE FREQUENCY INVERTER DRIVE</p> <p>VTR VENT THRU ROOF</p> <p>VPH/Hz VOLTS/PHASES/HERTZ</p> <p>WB WET BULB</p> <p>WCO WALL CLEANOUT</p> <p>WG WATER GAGE</p> <p>WPD WATER PRESSURE DROP</p> <p>WSA WIRE SIZING AMPS</p> <p>WTD WATER TEMPERATURE DROP</p> <p>W WITH</p> <p>ZD ZONE DAMPER TAG</p>
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**CWS Architects**

Architecture  
Space Planning  
Value Design

434 Cumberland Avenue  
Portland, ME 04101  
Phone: (207) 774-4441  
Fax: (207) 774-4016  
www.CWSarch.com

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Portland, Maine 04101  
TEL. 207-553-7780

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Project No: 07429

Drawing Title:  
**EMERSON MECHANICAL LEGEND & SCHEDULES**

Scale: 1/4" = 1'-0"

Date: August 28, 2009

Revisions:

Drawing Number:  
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