



Bob's Clam Hut
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Portland, Maine

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FAN PERFORMANCE SCHEDULE													
TAG	AIRFLOW (CFM)	T.S.P (INWG)	NOISE (SONES)	RPM	DRIVE	ELECTRICAL REQUIREMENTS					BASIS OF DESIGN = (G) GREENHECK (P) PANASONIC		
						HP	BHP	WATTS	AMPS	V/PH/Hz	SERVICE	ARRANGEMENT	MODEL
EF-1	PROVIDED BY KITCHEN EQUIPMENT SUPPLIER, INSTALLED BY MECHANICAL CONTRACTOR												
EF-2	PROVIDED BY KITCHEN EQUIPMENT SUPPLIER, INSTALLED BY MECHANICAL CONTRACTOR												
EF-3	50	0.25	0.1	1072	DIRECT	-	-	6.5	-	120/1/60	STORAGE VENTILATION	CEILING-WALL	(P) FV-05-11VK51
EF-4	75	0.25	0.1	1072	DIRECT	-	-	6.5	-	120/1/60	STORAGE VENTILATION	CEILING-WALL	(P) FV-05-11VK51

TEMPERATURE MIXING VALVE PERFORMANCE SCHEDULE									
TAG	FLOW RATE (GPM)	INLET CONNECTION (INCHES)	OUTLET CONNECTION (INCHES)	W.P.D (PSIG)	SET POINT (DEGREES F)	PROVIDE SPARE CARTRIDGE (Y) OR (N)	BASIS OF DESIGN = SYMMONS		
							SERVICE	ARRANGEMENT	MODEL
TMV-1	4.0	1/2"	1/2"	12.0	110°F	Y	DOM HW	WALL	T-102-W

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	4.4	4.4	4.4	240	125	90	INLINE	DOM HW	ST-12

ELECTRIC UNIT HEATER PERFORMANCE SCHEDULE							
TAG	OUTPUT (MBH)	AIRFLOW (CFM)	MTGHT. AFF (IN)	ELECTRICAL REQUIREMENTS		BASIS OF DESIGN = BERKO	
				KW	V/PH/Hz	SERVICE	MODEL
EUH-1	11	350	*	5.0	208/3/60	BACK ROOM	HU4A4520

* - 12" BELOW CEILING

ELECTRIC WALL HEATER PERFORMANCE SCHEDULE							
TAG	OUTPUT (MBH)	AIRFLOW (CFM)	MTGHT. AFF (IN)	ELECTRICAL REQUIREMENTS		BASIS OF DESIGN = BERKO	
				KW	V/PH/Hz	SERVICE	MODEL
EUH-1	6.1	100	12"	1.8	120/1/60	MULTIPLE	FRA102F

GAS WATER HEATER PERFORMANCE SCHEDULE						
TAG	STORAGE (GALS)	GPM @ 100°F RISE	HEATING INPUT BTU/Hr	ELEC V/PH/Hz	BASIS OF DESIGN - RINNAI	
					SERVICE	MODEL
GUH-1	0	3.8	199,000	120/1/60	DOM HW	C1991

PLUMBING FIXTURE CONNECTION SCHEDULE						
TAG	DESCRIPTION	SAN	VENT	CW	HW	
P-1	ADA TANK TYPE WATER CLOSET	3"	2"	3/4"	-	
P-2	ADA WALL HUNG LAVATORY	1-1/2"	1-1/2"	1/2"	1/2"	
FD-1	FLOOR DRAIN	3"	2"	1/2"	-	
FS-1	FLOOR SINK	3"	2"	1/2"	-	

MINIMUM SIZE OF BELOW SLAB SANITARY 4 VENT PIPING SHALL BE 2".
* - FLOOR DRAINS SHALL HAVE TRAP PRIMER CONNECTION SERVED FROM NEAREST FIXTURE.

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.

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION	ABBREVIATION	DESCRIPTION	ABBREVIATION	DESCRIPTION	ABBREVIATION	DESCRIPTION	ABBREVIATION	DESCRIPTION	ABBREVIATION	DESCRIPTION
	COMPRESSED AIR PIPING (CA)		BACKFLOW PREVENTER (BFP)		PRESSURE GAGE WITH GAGE COCK	AAV	AUTOMATIC AIR VENT	EDB	ENTERING DRY BULB	I=B=R	INSTITUTE OF BOILER AND RADIATOR MANUFACTURERS	RLA	RUNNING LOAD AMPS		
	CONDENSATE DRAIN PIPING (C)		CHECK VALVE		THERMOMETER IN WELL	AD	ACCESS DOOR	EDC	ELECTRIC DUCT COIL TAG	IN	INCHES	RPM	REVOLUTIONS PER MINUTE		
	COOLING TOWER RETURN PIPING (CTR)		BALANCING VALVE (ADJUSTABLE)		WATER FLOW SWITCH	AFF	ABOVE FINISHED FLOOR	EER	ENERGY EFFICIENCY RATIO	L	LOUVER TAG	RPS	REVOLUTIONS PER SECOND		
	COOLING TOWER SUPPLY PIPING (CTS)		AUTOMATIC FLOW CONTROL VALVE		PRESSURE SWITCH OR SENSOR	AHU	AIR HANDLING UNIT TAG	EF	EXHAUST FAN TAG	L*	LEAVING AIR TEMPERATURE	RPZ	REDUCED PRESSURE ZONE		
	CHILLED WATER RETURN PIPING (CUR)		RELIEF VALVE (RV)		EMERSION TEMPERATURE SENSOR	AMS	AIR FLOW MONITORING STATION	EFF	EFFICIENCY	LAT	LEAVING AIR TEMPERATURE	RTU	ROOM TEMPERATURE SENSOR		
	CHILLED WATER SUPPLY PIPING (CWS)		BALL VALVE		DUCT MOUNTED SMOKE DETECTOR	AMPS	AMPERES	ESP	EXTERNAL STATIC PRESSURE	LB	POUNDS	RV	RELIEF VALVE		
	FUEL OIL RETURN PIPING (FOR)		BALL VALVE		ROOM TEMPERATURE SENSOR	AP	ACCESS PANEL	ET	EXPANSION TANK TAG	LU5/R	LOOP WATER SUPPLY/RETURN	RUL	RAINWATER LEADER		
	FUEL OIL SUPPLY PIPING (FOS)		3/4" BALL VALVE WITH 3/4" HOSE END		TSTAT OR SENSOR W/ TAMPERPROOF GUARD	APD	AIR PRESSURE DROP	EUB	ENTERING WET BULB	LRA	LOCKED ROTOR AMPS	SA	SUPPLY AIR		
	GAS PIPING (G)		PRESSURE REDUCING VALVE		MANUAL AIR VENT	AS	AIR SEPARATOR TAG	EUH	ELECTRIC WATER HEATER TAG	LUWO	LOW WATER CUTOUT	SAN	SANITARY (DRAIN & WASTE)		
	HOT WATER RETURN PIPING (HUR)		SOLENOID VALVE		AIR VENT	ATC	AUTOMATIC TEMPERATURE CONTROL	EWT	ENTERING WATER TEMPERATURE	LWT	LEAVING WATER TEMPERATURE	SD	SMOKE DAMPER		
	HOT WATER SUPPLY PIPING (HWS)		FUSIBLE VALVE		NOTE TAG (NUMBER)	BD	BYPASS DAMPER TAG	EXG	EXISTING	MAX	MAXIMUM	SEER	SEASONAL ENERGY EFFICIENCY RATIO		
	REFRIGERANT LIQUID PIPING (RL)		STRAINER W/BLOWDOWN BALL VALVE		AIR DEVICE TAG (LETTER) WITH CFM	BFP	BACKFLOW PREVENTER TAG	EXH	EXHAUST	MBH	THOUSANDS OF BTU PER HOUR	SF	SUPPLY FAN		
	REFRIGERANT GAS PIPING (RG)		3-WAY CONTROL VALVE		ROOM NUMBER	BHP	BRAKE HORSEPOWER	FC	FLEXIBLE CONNECTION	MCA	MINIMUM CIRCUIT AMPACITY	SP	STATIC PRESSURE		
	SANITARY PIPING BELOW FLOOR (SAN)		4-WAY CONTROL VALVE (TOP VIEW)		TURNING VANES	BTUH	BRITISH THERMAL UNITS PER HOUR	FCO	FLOOR CLEANOUT	MIN	MINIMUM	SQFT	SQUARE FEET		
	SANITARY PIPING ABOVE FLOOR (SAN)		2 BUTTERFLY VALVES W/SINGLE ACTUATOR		DUCT W/MANUAL DAMPER	CC	COOLING COIL TAG	FD	FIRE DAMPER	MC	NOISE CRITERION	ΔT	TEMPERATURE DIFFERENTIAL		
	RAINWATER LEADER ABOVE SLAB (RUL)		3-WAY CONTROL VALVE (TOP VIEW)		DUCT W/FLEXIBLE CONNECTION (FC)	CFM	CUBIC FEET PER MINUTE	FD*	FLOOR DRAIN TAG	NIC	NOT IN CONTRACT	TEMP.	TEMPERATURE		
	COLD WATER PIPING (CW)		4-WAY CONTROL VALVE (TOP VIEW)		LAGGED DUCT	CO	CLEANOUT	FLA	FULL LOAD AMPS	NTS	NOT TO SCALE	TCF	TEMPERATURE CONTROL PANEL		
	HOT WATER PIPING (HW)		2 BUTTERFLY VALVES W/ACTUATOR		DUCT W/Acoustic LINING	CP	CIRCULATING PUMP TAG	FP4B	FROST PROOF HOSE BIBB	OA	OUTSIDE AIR	TMV	THERMOSTATIC MIXING VALVE TAG		
	RECIRCULATED HOT WATER PIPING (RHW)		BUTTERFLY VALVE W/ACTUATOR		DUCT W/SQUARE-TO-ROUND TRANSITION	CV	VALVE COEFFICIENT	FFM	FEET PER MINUTE	OBD	OPPOSED BLADE DAMPER	TSP	TOTAL STATIC PRESSURE		
	PIPE CAP		TRIPLE-DUTY VALVE		FLEXIBLE DUCT	CW	COLD WATER	FSD	COMBINATION FIRE & SMOKE DAMPER	OD	OUTSIDE DIAMETER	TYP	TYPICAL		
	DIRECTION OF FLUID FLOW		MOTOR OPERATED DAMPER		MOTOR OPERATED DAMPER	DB	DRY BULB	FT	FEET	OED	OPEN ENDED DUCT	UH	UNIT HEATER TAG		
	ELBOW UP		UNION		AIRFLOW OUT	dB RE	DECIBELS RELATIVE TO	GA	GAGE	OPD	OVERCURRENT PROTECTIVE DEVICE	VB	VACUUM BREAKER		
	ELBOW DOWN		PIPE FLANGE		AIRFLOW IN	DC	DOUBLE CHECK	GAL	GALLONS	PFN	PENETRATION	VFD	VARIABLE FREQUENCY INVERTER DRIVE		
	ELBOW TEE UP		PUMP WITH FLANGES		DIAMETER OR FLAT OVAL	DCA	DOUBLE CHECK ATMOSPHERIC	GAL	GALLONS	FF	FAN TAG	VTR	VENT THRU ROOF		
	ELBOW TEE DOWN		CARTRIDGE TYPE INLINE PUMP		ROUND OR FLAT OVAL DUCT DOWN	DEG F	DEGREES FAHRENHEIT	GPH	GALLONS PER HOUR	FF*	FLEXIBLE CONNECTION	V/PH/Hz	VOLTS/PHASES/HERTZ		
	ELBOW TEE REDUCER		CARTRIDGE TYPE INLINE PUMP		ROUND OR FLAT OVAL DUCT UP	DIA	DIAMETER	GPM	GALLONS PER MINUTE	PSIA	POUNDS PER SQUARE INCH ABSOLUTE	WB	WET BULB		
	ELBOW WITH GUIDE		CARTRIDGE TYPE INLINE PUMP		ROUND OR FLAT OVAL DUCT UP	DN	DOWN	HC	HORSEPOWER	PSIG	POUNDS PER SQUARE INCH GAGE	WCO	WALL CLEANOUT		
	ELBOW WITH ANCHOR		CARTRIDGE TYPE INLINE PUMP		ROUND OR FLAT OVAL DUCT UP	DN	DOWN	HP	HORSEPOWER	PVC	POLYVINYL CHLORIDE (PIPE)	WG	WATER GAGE		
	BUTTERFLY VALVE		CARTRIDGE TYPE INLINE PUMP		ROUND OR FLAT OVAL DUCT UP	EA	EXHAUST AIR	HRV	HEAT RECOVERY VENTILATOR TAG	RA	RETURN AIR	WPD	WATER PRESSURE DROP		
	BUTTERFLY VALVE		CARTRIDGE TYPE INLINE PUMP		ROUND OR FLAT OVAL DUCT UP	EAT	ENTERING AIR TEMPERATURE	HU	HOT WATER	RD	ROOF DRAIN	WSA	WIRE SIZING AMPS		
	BUTTERFLY VALVE		CARTRIDGE TYPE INLINE PUMP		ROUND OR FLAT OVAL DUCT UP			HU/R	HOT WATER SUPPLY AND RETURN	RDE	RECOMMENDED DUAL ELEMENT FUSE AMPS	WTD	WATER TEMPERATURE DROP		
	BUTTERFLY VALVE		CARTRIDGE TYPE INLINE PUMP		ROUND OR FLAT OVAL DUCT UP					RHW	RECIRCULATED HOT WATER	W	WITH		

ISSUED FOR PERMIT

REV	NO	DATE	COMMENTS

PROJECT: Bob's Clam Hut
109 Cumberland Avenue
Portland, Maine

TITLE: MECHANICAL SCHEDULES, LEGEND AND DETAILS

SCALE: M-2.01

ISSUED: 29-DECEMBER-2017

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