

HEAT RECOVERY VENTILATOR SCHEDULE

TAG	WINTER EXHAUST AIR					WINTER OUTDOOR AIR			SUPPLY AIR TO SPACES					WHEEL MOTOR	PRE-HEAT KW	ELECTRIC			WEIGHT	REMARKS
	CFM	DB	WB	SP	HP	CFM	DB	WB	CFM	DB	WB	SP	HP			POWER	FLA	MOCP		
PHRV-1	1,430	70.0	53.0	1 1/2"	1 1/2"	1,430	0.0	-1.6	1,430	51.3	43.0	1 1/2"	1 1/2"	>1.0 AMP	0.00	208V-60-3P	16.5	20.0	550	HORIZONTAL AIRFLOW

UNIT HEATER SCHEDULE

TAG	TYPE	AREA SERVED	E.W.T.	E.A.T.	BTU	GPM	W.P.D.	CFM	MOTOR WATTS	FAN RPM	ELECTRIC	REMARKS
PCUH-1	VERT. CABINET	NEW FOYER	180	60	3,808	1.00	0.22'	42	30	1,100	120V-60-1P	WALL MTD (HIGH) w/INTERNAL TSTAT

PUMP SCHEDULE

TAG	TYPE	AREA SERVED	GPM	HEAD	HP	RPM	WATTS	AMPS	ELECTRIC	REMARKS
PP1	IN-LINE	BOILER 1 INJECTION PUMP	44	10'	1/4	3,100 → 3,430	215 → 245	2.20 → 2.30	115V-60-1P	ECM MOTOR - 2 SPEED
PP2	IN-LINE	BOILER 2 INJECTION PUMP	44	10'	1/4	3,100 → 3,430	215 → 245	2.20 → 2.30	115V-60-1P	ECM MOTOR - 2 SPEED
PP3	IN-LINE	MAIN HEATING SYSTEM	60	28'	3/4	1,400 → 4,600	21 → 620	0.16 → 2.70	230V-60-1P	ECM MOTOR - VARIABLE SPEED
PP4	IN-LINE	MAIN HEATING SYSTEM	60	28'	3/4	1,400 → 4,600	21 → 620	0.16 → 2.70	230V-60-1P	ECM MOTOR - VARIABLE SPEED
PP5	IN-LINE	DOMESTING HOT WATER	24	20'	1/4	3,050 → 3,250	305 → 315	2.90 → 3.10	115V-60-1P	ECM MOTOR - 2 SPEED
PP6	IN-LINE	HEATING COIL HC-1	4	20'	1/8	2,750 → 3,100	195 → 215	1.90 → 2.00	115V-60-1P	ECM MOTOR - 2 SPEED

DUCT HEATING COIL SCHEDULE

TAG	TYPE	SIZE	CFM	ROWS	APD	EAT	LAT	EWL	MBH	GPM	WPD	REMARKS
PHC-1	HEADER TYPE, HOT WATER	20" x 15"	1,385	1	0.15"	40.0	73.7	180	50.66	3.50	2.85'	SERPENTINE COIL

FINNED PIPE SCHEDULE

TAG	TYPE	ELEMENT	LENGTH	AWT	BTU/LF	GPM	REMARKS
FP	9.1/16" COVER	3/4" COPPER TUBE 3/4 x 3/4" FINNS, 51/LF	SEE PLANS	170	780	1.0	RESIDENTIAL STYLE HIGH OUTPUT

BOILER SCHEDULE

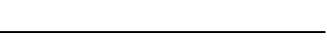
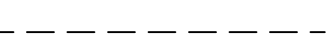
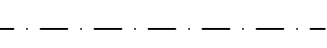
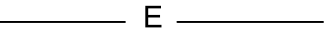
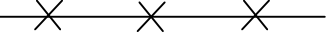
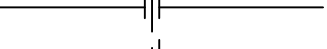
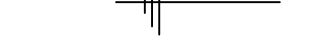
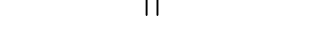
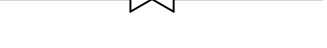

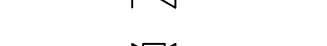






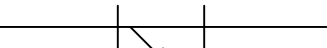




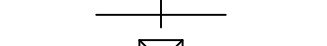

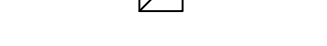

TAG	GROSS MBH	OUTPUT MBH	HP	FUEL	RELIEF VALVE	WATER CONTENT	ELECTRIC		REMARKS
							AMPS	VOLTAGE	
PB1	490.0	426.0	14.6	NAT. GAS	40 psig	4.0 GAL	5	120V-60-1P	CONDENSING GAS BOILER
PB2	490.0	426.0	14.6	NAT. GAS	40 psig	4.0 GAL	5	120V-60-1P	CONDENSING GAS BOILER

OUTPUT IS NET AHRI RATING

GENERAL NOTES

1. Mechanical Contractor shall coordinate work with all other trades.
2. All piping and ductwork shall be run concealed and on the warm side of building insulation unless shown otherwise.
3. Piping and ductwork is shown diagrammatically. Exact locations to be adjusted as required to conform to field conditions.
4. All duct sizes indicated are outside (sheet metal) dimensions.
5. All cutting and patching by the General Contractor.
6. All square duct elbows over 12 inches in width to have turning vanes.
7. All duct coils, fire dampers (not behind grilles), motorized dampers and duct smoke detectors shall have duct access doors as large as possible up to 12"x12".
8. All dimensions associated with existing conditions are approximate and are to be field verified.
9. Heating system design is based on a maximum of 180°F. water entering heating equipment.
10. All branch water piping to individual terminal heating units or zones shall be not less than 3/4 inches in size unless noted otherwise.
11. Provide automatic air vents at all locations where water piping drops in the direction of flow, at all high points in the system and elsewhere as shown.
12. Provide drains with hose threads and metal caps at all low points in new parts of the water piping system.
13. All removed materials shall remain the property of the Owner until such time the Owner's authorized representative has reviewed the removed items and taken what the Owner wishes to retain. All remaining items shall become the property of the Contractor and shall be immediately removed from the premises by the Contractor.

SYMBOLS AND ABBREVIATIONS

ABV	AUTOMATIC BALANCING VALVE	LAT	LEAVING AIR TEMPERATURE		WATER SUPPLY PIPING
AD	ACCESS DOOR	LDB	LEAVING DRY BULB		WATER RETURN PIPING
AFF	ABOVE FINISH FLOOR	LWB	LEAVING WET BULB		COLD WATER PIPING
AP	ACCES PANEL	LWCO	LOW WATER CUT-OFF		EXISTING PIPING
APD	AIR PRESSURE DROP	MBH	THOUSAND BTU PER HOUR		PIPING TO BE REMOVED
ATC	AUTOMATIC TEMP. CONTROL	MBV	MANUAL BALANCING VALVE		UNION
AV	AUTOMATIC VENT	MD	MANUAL DAMPER		HOSE CONNECTION
B	BOILER	MOD	MOTOR OPERATED DAMPER		FLANGE
BD	BACKDRAFT DAMPER	MV	MANUAL VENT		GATE VALVE
BJ	BAR JOIST	NG	NATURAL GAS		GLOBE VALVE
CFH	CUBIC FEET PER HOUR	NTS	NOT TO SCALE		CHECK VALVE
CFM	CUBIC FEET PER MINUTE	OA	OUTDOOR AIR		BALANCING VALVE
CTE	CONNECT TO EXISTING	OD	OUTSIDE DIMENSION		FUSIBLE SAFETY VALVE
CUH	CABINET UNIT HEATER	P	PUMP		CONTROL VALVE (TWO WAY)
CV	CONTROL VALVE	PC	PLUMBING CONTRACTOR		CONTROL VALVE (THREE WAY)
D	DRAIN	PD	PUMP DISCHARGE		PRESSURE REDUCING VALVE
DIC	DOWN IN CORNER/CHASE	PG	PRESSURE GAUGE		FLOW CONTROL VALVE
DIW	DOWN IN WALL	PRV	PRESSURE REDUCING VALVE		BALL VALVE
DO	DRAW-OFF	R	RETURN		STRAINER
EAT	ENTERING AIR TEMPERATURE	RA	RETURN AIR		INVERTED ECCENTRIC REDUCER
EC	ELECTRICAL CONTRACTOR	RIC	RETURN IN COVER		THERMOSTAT
EF	EXHAUST FAN	RIS	RUBBER-IN-SHEAR		THERMOSTAT WITH GUARD
EG	EXHAUST GRILLE	RR	RETURN REGISTER		CONNECT TO EXISTING
ER	EXHAUST REGISTER	RV	RELIEF VALVE		MANUAL DAMPER
ESP	EXTERNAL STATIC PRESSURE	RWW	RESET WATER VALVE		SUPPLY AIR DUCT
EWB	ENTERING WET BULB	S	SUPPLY		RETURN / EXHAUST AIR DUCT
EWT	ENTERING WATER TEMPERATURE	SA	SUPPLY AIR		
FC	FLEXIBLE CONNECTOR	SFM	SIGHT FLOW MONITOR		
FCV	FLOW CONTROL VALVE	SP	STATIC PRESSURE		
FD	FIRE DAMPER	SR	SUPPLY REGISTER		
FO	FUEL OIL	SV	SAFETY VALVE		
FP	FINNED PIPE	T	THERMOMETER		
FS	FLOW SENSOR	TC	TEMPERATURE CONTROL		
FMS	FLOW MEASURING STATION	TSP	TOTAL STATIC PRESSURE		
FV	FACE VELOCITY	T'STAT	THERMOSTAT		
GC	GENERAL CONTRACTOR	TV	TURNING VANE		
GPH	GALLONS PER HOUR	UC	UNDERCUT		
GPM	GALLONS PER MINUTE	UG	UNDERGROUND		
HC	HEATING COIL	V	VENT		
HRV	HEAT RECOVERY VENTILATOR	VI	VIBRATION ISOLATOR		
HWR	HOT WATER RETURN	WPD	WATER PRESSURE DROP		
HWS	HOT WATER SUPPLY	WTD	WATER TEMPERATURE DROP		
H&V	HEATING & VENTILATING	WTR	WATER TEMPERATURE RISE		
IER	INVERTED ECCENTRIC REDUCER				
L	LOUVER				

project name

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PERMIT SET

revisions

date

January 13, 2015

sheet title

payson

sheet title line 1

sheet title line 2

sheet title line 3

scale

Noted

drawn by

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project number

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