

WATER TO WATER HEAT PUMP SCHEDULE (GEOTHERMAL)																													
UNIT DESIG.	COOLING										HEATING						ELECTRICAL							BASIS OF DESIGN "CLIMATEMASTER"	NOTES				
	MIN EER	MBH TOTAL	MBH REJECT	WATER				KW INPUT	MBH CAPACITY	MBH ABSORP.	WATER				KW INPUT	VOLTS/PH	NO.	R.L.A.	EA	L.R.A.	EA	TOTAL FLA	MIN. CIRCUIT AMP			MAX. FUSE SIZE	GPM SOURCE	GPM LOAD SIDE	COOL/HEAT
				E.W.T. °F SOURCE	L.W.T. °F SOURCE	E.W.T. °F LOAD SIDE	L.W.T. °F LOAD SIDE				E.W.T. °F SOURCE	L.W.T. °F SOURCE	E.W.T. °F LOAD SIDE	L.W.T. °F LOAD SIDE															
HP-1	14.2	103.6	128.5	90	81.13	54	40	7.30	128.2	90.2	60	71.3	110	131.3	11.12	460/3	2		7.80	52		15.6	17.6	25.00	22.5	15/22.5	TMW120	1	
HP-2	14.2	103.6	128.5	90				7.30	128.2	90.2					11.12				7.80	52		15.6	17.6	25.00	22.5	15/22.5	TMW120	1	
HP-3	14.2	103.6	128.5	90				7.30	128.2	90.2					11.12				7.80	52		15.6	17.6	25.00	22.5	15/22.5	TMW120	1	
HP-4	14.2	103.6	128.5	90				7.30	128.2	90.2					11.12				7.80	52		15.6	17.6	25.00	22.5	15/22.5	TMW120	1	
HP-5	14.2	103.6	128.5	90	↓	↓	↓	7.30	128.2	90.2	↓	↓	↓	↓	11.12	↓	↓	↓	7.80	52		15.6	17.6	25.00	22.5	15/22.5	TMW120	1	

NOTES: 1. MANUFACTURER'S MODEL NUMBERS ARE PROVIDED AS BASIS OF DESIGN ONLY AND ARE NOT TO LIMIT SELECTION. PROVIDE SCHEDULED EQUIPMENT OR EQUIPMENT OF EQUAL QUALITY AND CAPACITY.

AIR HANDLING UNIT SCHEDULE				
	AHU-1		AHU-2	
AIRFLOW	CFM	12000	CFM	12000
ESP	IN H2O	3	IN H2O	3
UL LISTED UNIT		YES		YES
INSULATION		1.5 LB		1.5 LB
PANEL WALL TYPE		SOLID DOUBLE WALL		SOLID DOUBLE WALL
SUPPLY FAN VFD		YES, W/ BYPASS		YES, W/ BYPASS
UNIT LENGTH, MAX.	IN.	142	IN.	142
UNIT HEIGHT, MAX.	IN.	45	IN.	45
UNIT WIDTH, MAX.	IN.	80	IN.	80
SUPPLY FAN HP/BHP.	HP/BHP.	10/9.03	HP/BHP.	10/9.03
UNIT OSA (PRETREATED)	CFM	3500	CFM	2500
COOLING COIL				
DRAIN PAN		STAINLESS STEEL		STAINLESS STEEL
SYSTEM TYPE		CHILLED WATER		CHILLED WATER
COIL CASING		STAINLESS STEEL		STAINLESS STEEL
EDB	F	78	F	78
EWB	F	66	F	66
LDB	F	53.4	F	53.4
LWB	F	52.5	F	52.5
SENSIBLE CAPACITY	MBh	239	MBh	239
TOTAL CAPACITY	MBh	300	MBh	300
ENTERING FLUID TEMPERATURE (°F)	F	40	F	40
FLUID TEMPERATURE RISE (°F)	F	14	F	14
STANDARD FLUID FLOW RATE	GPM	44	GPM	44
COIL ROWS				
		6		6
FLUID PRESSURE DROP				
	FT. H2O	10	FT. H2O	10

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2. INSTALL UNIT ON 6" HOUSEKEEPING PAD.

PRECONDITIONED OUTDOOR AIR UNIT SCHEDULE																								
UNIT NUMBER	WEIGHT (lbs.)	ELECTRICAL			NOMINAL CONDITION	INPUT CONDITIONS										RETURN CONDITIONS						MIN EFFICIENCY	DESIGN BASIS MFR & MODEL #	NOTES
		FAN MOTOR HP		OUTSIDE AIR					VENTILATION AIR					ENTERING AIR										
		SUPPLY	EXHAUST	CFM		EXT. STATIC PR. (WC)	DEG.F (db)	DEG.F (wb)	HUM. gr/lb	ENTHALPY (Btu/lb)	DEG.F (db)	DEG.F (wb)	RH gr/lb	ENTHALPY (Btu/lb)	CFM	EXT. STATIC PR. (WC)	DEG.F (db)	REL. HUMIDITY %	HUM. gr/lb	ENTHALPY (Btu/lb)				
ERV1	1390	460V/3ø	5.00	3.00	SUMMER WINTER	3500 3500	0.50 0.50	95 26	78 21.9	117.4 10	42.4 8.6	80.37 59.96	68.06 51.55	83 43.2	32.9 32.3	2950 2950	0.50 0.50	75 70	51.6 48.3	66.7 52.6	28.43 25.00	80%	MICROMETL EVHGEEA4400R0BEFXG-E	1, 2
ERV2	1390	460V/3ø	5.00	3.00	SUMMER WINTER	2500 2500	0.50 0.50	95 26	78 21.9	117.4 10	42.4 8.6	80.37 59.96	68.06 51.55	83 43.2	32.9 32.3	2150 2150	0.50 0.50	75 70	51.6 48.3	66.7 52.6	28.43 25.00	80%	MICROMETL EVHGEEA4400R0BEFXG-E	1, 2

NOTES: 1. PROVIDE EXHAUST AIR CAP ON ROOF.
2. PROVIDE FRESH AIR INTAKE CAP ON EXISTING BATHROOM EXHAUST FAN CURB.
3. MANUFACTURER'S MODEL NUMBERS ARE PROVIDED AS BASIS OF DESIGN ONLY AND ARE NOT TO LIMIT SELECTION. PROVIDE SCHEDULED EQUIPMENT OR EQUIPMENT OF EQUAL QUALITY AND CAPACITY.

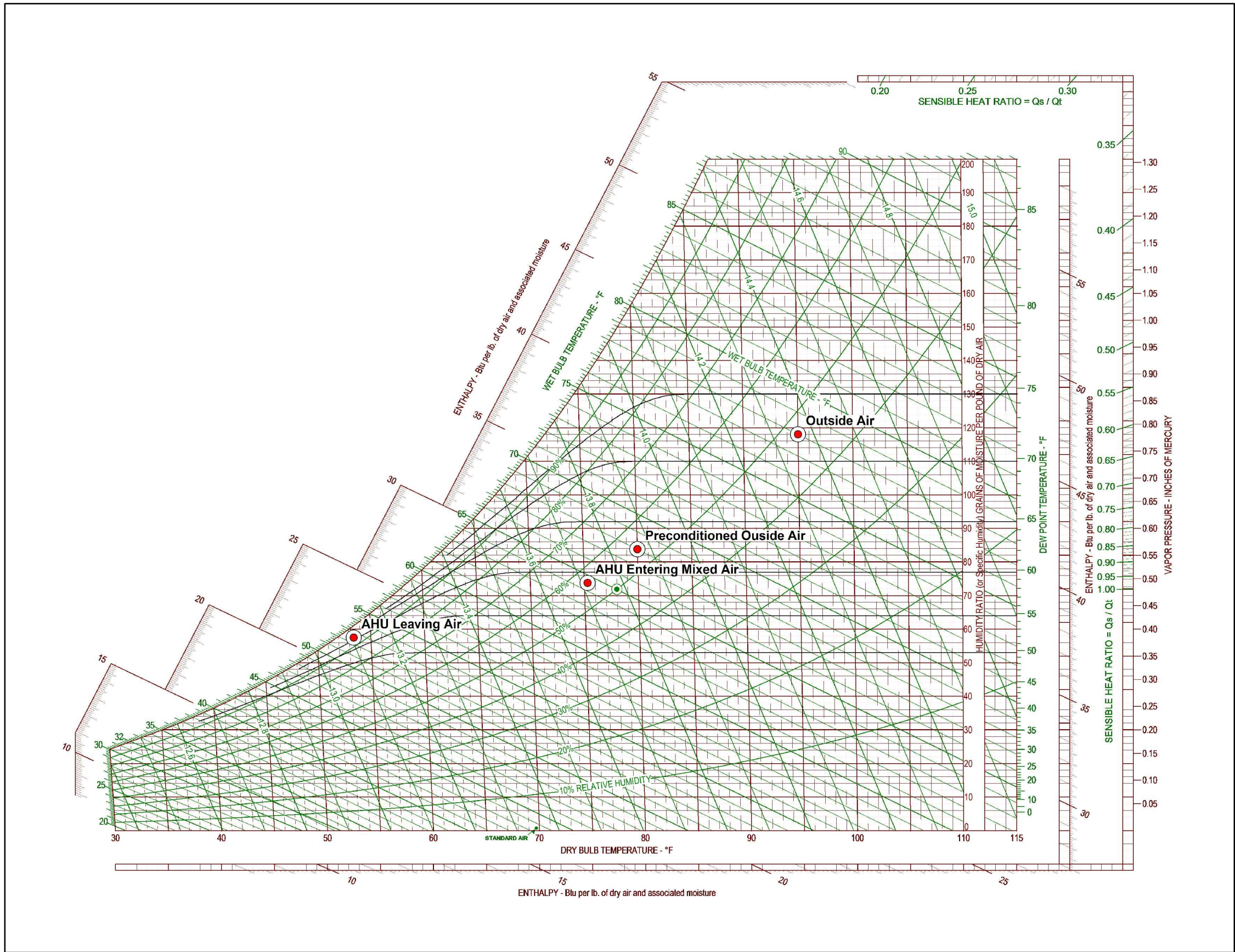
REGISTER, LOUVER & GRILLE SCHEDULE					
MARK	TYPE	SERVICE		BLOW	REMARKS/NOTES
A	SQUARE DIRECTIONAL (LOUVER) FACE CEILING DIFFUSER	SUPPLY	<input checked="" type="checkbox"/>	AS INDICATED	FRAME STYLE TO SUIT CEILING FINISH. FLUSH FOR HARD CEILING. BASIS OF DESIGN: PRICE SPD SERIES
B	SQUARE DIRECTIONAL (LOUVER) FACE CEILING DIFFUSER	SUPPLY	<input checked="" type="checkbox"/>	AS INDICATED	FRAME STYLE TO SUIT CEILING FINISH. 24X24 "JAY-IN" BASIS OF DESIGN: PRICE SPD SERIES
C	SLOT DIFFUSER	SUPPLY	<input type="checkbox"/>	180° PATTERN	SLOT DIFFUSER-ALUMINUM CONSTRUCTION BASIS OF DESIGN: PRICE SUS SERIES
R	REGISTER FIXED ANGLED VANES SURFACE MOUNTED	RETURN/ EXHAUST TRANSFER	<input type="checkbox"/>		RETURN OR EXHAUST REGISTER AS INDICATED-45° ANGLED VANES-ALUMINUM

PUMP SCHEDULE									
NO.	SERVICE	TYPE	QNTY.	GPM	HEAD FT.	MOTOR			REMARKS
						H.P. (MIN)	RPM	VOLT/#	
P1	CHILLED WATER	1 SPEED/1 WINDING	2	96	45	2	1800	460/3	BELL AND GOSSETT SERIES 80, 2.5X2.5X7 213 FRAME
P2	HOT WATER	IN-LINE, CENTRIFUGAL	2	112.5	90	7.5	3600	480/3	BELL AND GOSSETT SERIES 80, 2.5X2.5X7 213 FRAME
P3	GROUND LOOP	IN-LINE, CENTRIFUGAL	2	112.5	80	7.5	1800	480/3	BELL AND GOSSETT SERIES 80, 2.5X2.5X9.5B 213 FRAME
P4	CONDENSER WATER (ALTERNATE BID)	IN-LINE, CENTRIFUGAL	2	112.5	45	3	1750	480/3	BELL AND GOSSETT SERIES 80, 2.5X2.5X7 213 FRAME

NOTE: 1. BASIS OF DESIGN ARMSTRONG DUAL ARM. MANUFACTURER'S MODEL NUMBERS ARE PROVIDED AS BASIS OF DESIGN ONLY AND ARE NOT TO LIMIT SELECTION. PROVIDE SCHEDULED EQUIPMENT OR EQUIPMENT OF EQUAL QUALITY AND CAPACITY.
2. PROVIDE VARIABLE FREQUENCY DRIVE (VFD) AS SPECIFIED.

BOILER SCHEDULE									
ITEM	SERVICE	WATER (TOTAL)			NATURAL GAS (MBUH)		BASIS OF DESIGN	NOTES	
		GPM	°F IN	°F OUT	INPUT	OUTPUT			
1	COND. WATER	47	40	60	500	93.3 (LOW FIRE)	LOCHINVAR MODEL # AWN500PM	1	

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2. PROVIDE WITH CONDENSATE NEUTRALIZATION KIT AND CONCENTRIC VENT KIT.



PSYCHROMETRIC CHART

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