

## REPORT- PV-A Plant Design Parameters

WEATHER FILE- SEATTLE BOEING FI WA

## \*\*\* CIRCULATION LOOPS \*\*\*

HEATING DEMAND (MBTU/HR)	COOLING DEMAND (MBTU/HR)	LOOP FLOW (GPM)	TOTAL HEAD ( FT)	SUPPLY UA PRODUCT (BTU/HR-F)	SUPPLY LOSS DT ( F)	RETURN UA PRODUCT (BTU/HR-F)	RETURN LOSS DT ( F)	LOOP VOLUME ( GAL )	FLUID HEAT CAPACITY (BTU/LB-F)
DHW Plant 1 Res Loop (1)									
-1.187	0.000	13.8	23.4	0.0	0.00	0.0	0.00	20.7	1.00
Restaurant DHW Loop									
-0.020	0.000	0.1	23.4	0.0	0.00	0.0	0.00	0.2	1.00
DEFAULT-CHW									
0.000	0.095	17.1	36.6	0.0	0.00	0.0	0.00	25.6	1.00
DEFAULT-CW									
0.000	0.116	22.3	56.9	0.0	0.00	0.0	0.00	0.0	1.00

## \*\*\* PUMPS \*\*\*

ATTACHED TO	FLOW (GPM)	HEAD ( FT)	HEAD SETPOINT ( FT)	CAPACITY CONTROL	POWER (KW)	MECHANICAL EFFICIENCY (FRAC)	MOTOR EFFICIENCY (FRAC)
DEFAULT-CHW-PUMP	1 PUMP(s)						
DEFAULT-CHW PRIMARY LOOP	18.8	62.5	0.0	ONE-SPEED	0.399	0.770	0.720
DEFAULT-CW-PUMP	1 PUMP(s)						
DEFAULT-CW PRIMARY LOOP	24.5	55.9	0.0	ONE-SPEED	0.465	0.770	0.720
Primary CHW Pump	1 PUMP(s)						
Chiller 1	18.7	16.5	0.0	ONE-SPEED	0.126	0.770	0.600
EVAPORATOR (RUN-AROUND)							

## \*\*\* PRIMARY EQUIPMENT \*\*\*

EQUIPMENT TYPE	ATTACHED TO	CAPACITY (MBTU/HR)	FLOW (GPM)	HEAD ( FT)
Chiller 1				
ELEC-SCREW	DEFAULT-CHW	0.095	17.8	15.0
	DEFAULT-CW	0.112	22.3	15.0
CT-1				
OPEN-TWR	DEFAULT-CW	0.113	22.3	20.0
RCC-1				
ELEC DW-HEATER	DHW Plant 1 Res Loop (1)	-0.175	5.6	
RCC-2				
ELEC DW-HEATER	DHW Plant 1 Res Loop (1)	-0.175	5.6	
RCC-3				
ELEC DW-HEATER	DHW Plant 1 Res Loop (1)	-0.175	5.6	

RST DHW Heater			
ELEC DW-HEATER	Restaurant DHW Loop	-0.006	0.1