

REPORT- SV-A System Design Parameters for RTU-1 (Corridor DOAS)

WEATHER FILE- SEATTLE BOEING FI WA

		FLOOR		OUTSIDE	COOLING			HEATING	COOLING	HEATING	HEAT PUMP	
SYSTEM	ALTITUDE	AREA	MAX	AIR	CAPACITY	SENSIBLE	CAPACITY		EIR	EIR	SUPP-HEAT	
TYPE	FACTOR	(SQFT)	PEOPLE	RATIO	(KBTU/HR)	(SHR)	(KBTU/HR)	(BTU/BTU)	(BTU/BTU)	(BTU/BTU)	(KBTU/HR)	
PVVT	1.000	20477.3	0.	1.000	134.000	0.677	-320.000	0.252	0.165	0.000		
FAN	CAPACITY	DIVERSITY	POWER	FAN	STATIC	TOTAL	MECH			MAX FAN	MIN FAN	
TYPE	(CFM)	FACTOR	DEMAND	DELTA-T	PRESSURE	EFF	EFF	FAN	FAN	RATIO	RATIO	
		(FRAC)	(KW)	(F)	(IN-WATER)	(FRAC)	(FRAC)	PLACEMENT	CONTROL	(FRAC)	(FRAC)	
SUPPLY	5500.	1.00	2.959	1.66	0.0	0.00	0.00	DRAW-THRU	CONSTANT	1.00	0.30	
ZONE		SUPPLY	EXHAUST		MINIMUM	OUTSIDE	COOLING	EXTRACTION		HEATING	ADDITION	
NAME		FLOW	FLOW	FAN	FLOW	AIR FLOW	CAPACITY	SENSIBLE	RATE	CAPACITY	RATE	ZONE
		(CFM)	(CFM)	(KW)	(FRAC)	(CFM)	(KBTU/HR)	(FRAC)	(KBTU/HR)	(KBTU/HR)	(KBTU/HR)	MULT
Zn L5 W (G.W12) COR		193.	0.	0.000	1.000	193.	0.00	0.00	1.38	0.00	-9.22	1.
Zn L6 C (G.C14) COR		216.	0.	0.000	1.000	216.	0.00	0.00	1.54	0.00	-10.28	1.
Zn L7 C (G.C14) COR		215.	0.	0.000	1.000	215.	0.00	0.00	1.54	0.00	-10.27	1.
Zn L15 C (G.C10) COR		384.	0.	0.000	1.000	384.	0.00	0.00	2.75	0.00	-18.31	1.
Zn L17 C (M.C25) COR		167.	0.	0.000	1.000	167.	0.00	0.00	1.20	0.00	-7.98	10.
Zn L28 C (G.C7) COR		184.	0.	0.000	1.000	184.	0.00	0.00	1.32	0.00	-8.76	1.
Zn L29 E (G.ENE2) COR		491.	0.	0.000	1.000	491.	0.00	0.00	3.52	0.00	-29.30	1.
Zn L5 C (G.C13) COR		284.	0.	0.000	1.000	284.	0.00	0.00	2.04	0.00	-13.55	1.
Zn L8 C (M.C29) COR		215.	0.	0.000	1.000	215.	0.00	0.00	1.54	0.00	-10.27	6.
Zn L14 C (T.C44) COR		231.	0.	0.000	1.000	231.	0.00	0.00	1.65	0.00	-11.02	1.
Zn L16 C (G.C10) COR		167.	0.	0.000	1.000	167.	0.00	0.00	1.20	0.00	-7.97	1.
Zn L27 C (T.C40) COR		171.	0.	0.000	1.000	171.	0.00	0.00	1.23	0.00	-8.17	1.

REPORT- SV-A System Design Parameters forSF-L4-1 (COR DOAS)

WEATHER FILE- SEATTLE BOEING FI WA

SYSTEM	ALTITUDE	FLOOR	MAX	OUTSIDE	COOLING	SENSIBLE	HEATING	COOLING	HEATING	HEAT PUMP
TYPE	FACTOR	AREA	PEOPLE	AIR	CAPACITY	(SHR)	CAPACITY	EIR	EIR	SUPP-HEAT
		(SQFT)		RATIO	(KBTU/HR)		(KBTU/HR)	(BTU/BTU)	(BTU/BTU)	(KBTU/HR)
PVVT	1.000	2956.7	0.	1.000	73.356	0.634	-166.875	0.243	0.000	0.000

FAN	CAPACITY	DIVERSITY	POWER	FAN	STATIC	TOTAL	MECH			MAX FAN	MIN FAN
TYPE	(CFM)	FACTOR	DEMAND	DELTA-T	PRESSURE	EFF	EFF	FAN	FAN	RATIO	RATIO
		(FRAC)	(KW)	(F)	(IN-WATER)	(FRAC)	(FRAC)	PLACEMENT	CONTROL	(FRAC)	(FRAC)
SUPPLY	1650.	1.00	0.647	1.21	0.0	0.00	0.00	DRAW-THRU	CONSTANT	1.00	0.30

ZONE	SUPPLY	EXHAUST		MINIMUM	OUTSIDE	COOLING		EXTRACTION	HEATING	ADDITION	
NAME	FLOW	FLOW	FAN	FLOW	AIR FLOW	CAPACITY	SENSIBLE	RATE	CAPACITY	RATE	ZONE
	(CFM)	(CFM)	(KW)	(FRAC)	(CFM)	(KBTU/HR)	(FRAC)	(KBTU/HR)	(KBTU/HR)	(KBTU/HR)	MULT
SF-L4 DUMMY ZN	35.	0.	0.000	1.000	35.	0.00	0.00	0.37	0.00	-1.49	1.
Zn P1 C (B.C9) COR	140.	0.	0.000	1.000	140.	0.00	0.00	3.48	0.00	-6.04	1.
Zn P2 C (UB.C14) COR	194.	0.	0.000	1.000	194.	0.00	0.00	4.82	0.00	-8.39	1.
Zn L1 C (G.C8) COR	220.	0.	0.000	1.000	220.	0.00	0.00	5.47	0.00	-9.52	1.
Zn L1 C (G.C10) COR	90.	0.	0.000	1.000	90.	0.00	0.00	2.25	0.00	-3.91	1.
Zn L1 S (G.S16) COR	152.	0.	0.000	1.000	152.	0.00	0.00	3.78	0.00	-6.57	1.
Zn P3 C (BB.C5) COR	194.	0.	0.000	1.000	194.	0.00	0.00	4.82	0.00	-8.38	1.
Zn P4 C (B.C4) COR	63.	0.	0.000	1.000	63.	0.00	0.00	1.57	0.00	-3.39	1.
										-0.67 (BASEBOARDS)	
Zn L2 C (G.C2) COR	173.	0.	0.000	1.000	173.	0.00	0.00	4.30	0.00	-7.48	1.
Zn L3 C (G.C2) COR	179.	0.	0.000	1.000	179.	0.00	0.00	4.45	0.00	-7.73	1.
Zn L4 C (G.C2) COR	209.	0.	0.000	1.000	209.	0.00	0.00	5.20	0.00	-9.04	1.

REPORT- SV-A System Design Parameters for

L1 Retail Split System N

WEATHER FILE- SEATTLE BOEING FI WA

SYSTEM TYPE	ALTITUDE FACTOR	FLOOR AREA	MAX	OUTSIDE	COOLING	SENSIBLE	HEATING	COOLING	HEATING	HEAT PUMP	
		(SQFT)	PEOPLE	AIR	CAPACITY		CAPACITY	EIR	EIR	SUPP-HEAT	
				RATIO	(KBTU/HR)	(SHR)	(KBTU/HR)	(BTU/BTU)	(BTU/BTU)	(KBTU/HR)	
PVVT	1.000	2831.6	47.	0.000	40.205	0.784	-35.630	0.244	0.275	-12.834	
FAN TYPE	CAPACITY (CFM)	DIVERSITY	POWER	FAN	STATIC	TOTAL	MECH	FAN	FAN	MAX FAN	MIN FAN
		FACTOR	DEMAND	DELTA-T	PRESSURE	EFF	EFF			RATIO	RATIO
		(FRAC)	(KW)	(F)	(IN-WATER)	(FRAC)	(FRAC)	PLACEMENT	CONTROL	(FRAC)	(FRAC)
SUPPLY	1588.	1.00	2.747	5.35	0.0	0.50	0.00	DRAW-THRU	CYCLING	1.00	0.30
ZONE NAME		SUPPLY	EXHAUST	FAN	MINIMUM	OUTSIDE	COOLING	EXTRACTION	HEATING	ADDITION	
		FLOW	FLOW								FLOW
		(CFM)	(CFM)	(KW)	(FRAC)	(CFM)	(KBTU/HR)	(FRAC)	(KBTU/HR)	(KBTU/HR)	(KBTU/HR)
Zn L1 N (G.NNW2) RTL		1588.	0.	0.000	0.001	0.	0.00	0.00	34.29	0.00	-15.40

REPORT- SV-A System Design Parameters forL1 Sys1 (PVVT) (G.N14)

WEATHER FILE- SEATTLE BOEING FI WA

SYSTEM	ALTITUDE	FLOOR	MAX	OUTSIDE	COOLING	SENSIBLE	HEATING	COOLING	HEATING	HEAT PUMP
TYPE	FACTOR	AREA	PEOPLE	AIR	CAPACITY	(SHR)	CAPACITY	EIR	EIR	SUPP-HEAT
		(SQFT)		RATIO	(KBTU/HR)		(KBTU/HR)	(BTU/BTU)	(BTU/BTU)	(KBTU/HR)
PVVT	1.000	2636.9	85.	0.502	48.000	0.642	-51.000	0.171	0.172	0.000

FAN	CAPACITY	DIVERSITY	POWER	FAN	STATIC	TOTAL	MECH			MAX FAN	MIN FAN
TYPE	(CFM)	FACTOR	DEMAND	DELTA-T	PRESSURE	EFF	EFF	FAN	FAN	RATIO	RATIO
		(FRAC)	(KW)	(F)	(IN-WATER)	(FRAC)	(FRAC)	PLACEMENT	CONTROL	(FRAC)	(FRAC)
SUPPLY	1270.	1.00	0.240	0.58	0.0	0.50	0.00	DRAW-THRU	SPEED	1.00	0.30

ZONE		SUPPLY	EXHAUST		MINIMUM	OUTSIDE	COOLING		EXTRACTION	HEATING	ADDITION	
NAME		FLOW	FLOW	FAN	FLOW	AIR FLOW	CAPACITY	SENSIBLE	RATE	CAPACITY	RATE	ZONE
		(CFM)	(CFM)	(KW)	(FRAC)	(CFM)	(KBTU/HR)	(FRAC)	(KBTU/HR)	(KBTU/HR)	(KBTU/HR)	MULT
Zn L1 C (G.C4) LOB		123.	0.	0.000	1.000	63.	0.00	0.00	2.33	0.00	-4.42	1.
Zn L1 N (G.N14) LOB		1137.	0.	0.000	1.000	576.	0.00	0.00	21.57	0.00	-40.95	1.
Zn L1 C (G.C5) RR		10.	0.	0.000	1.000	0.	0.00	0.00	0.35	0.00	-0.44	1.

REPORT- SV-A System Design Parameters for

L1 Retail Split System S

WEATHER FILE- SEATTLE BOEING FI WA

SYSTEM	ALTITUDE	FLOOR	MAX	OUTSIDE	COOLING	SENSIBLE	HEATING	COOLING	HEATING	HEAT PUMP
TYPE	FACTOR	AREA	PEOPLE	AIR	CAPACITY	(SHR)	CAPACITY	EIR	EIR	SUPP-HEAT
		(SQFT)		RATIO	(KBTU/HR)		(KBTU/HR)	(BTU/BTU)	(BTU/BTU)	(KBTU/HR)
PVVT	1.000	5434.4	91.	0.000	84.040	0.782	-74.169	0.241	0.273	-10.059

FAN	CAPACITY	DIVERSITY	POWER	FAN	STATIC	TOTAL	MECH			MAX FAN	MIN FAN
TYPE	(CFM)	FACTOR	DEMAND	DELTA-T	PRESSURE	EFF	EFF	FAN	FAN	RATIO	RATIO
		(FRAC)	(KW)	(F)	(IN-WATER)	(FRAC)	(FRAC)	PLACEMENT	CONTROL	(FRAC)	(FRAC)
SUPPLY	3305.	1.00	5.718	5.35	0.0	0.00	0.00	DRAW-THRU	CONSTANT	1.00	0.30

ZONE		SUPPLY	EXHAUST		MINIMUM	OUTSIDE	COOLING		EXTRACTION	HEATING	ADDITION	
NAME		FLOW	FLOW	FAN	FLOW	AIR FLOW	CAPACITY	SENSIBLE	RATE	CAPACITY	RATE	ZONE
		(CFM)	(CFM)	(KW)	(FRAC)	(CFM)	(KBTU/HR)	(FRAC)	(KBTU/HR)	(KBTU/HR)	(KBTU/HR)	MULT
Zn L1 E (G.ENE18) RTL		2970.	0.	0.000	0.001	0.	0.00	0.00	64.14	0.00	-27.70	1.
											-27.70 (BASEBOARDS)	
Zn L2 N (G.NE9) RTL		136.	0.	0.000	1.000	0.	0.00	0.00	2.93	0.00	-16.83	1.
											-12.00 (BASEBOARDS)	
Zn L2 S (G.SE10) RTL		200.	0.	0.000	1.000	0.	0.00	0.00	4.32	0.00	-19.13	1.
											-12.00 (BASEBOARDS)	

REPORT- SV-A System Design Parameters for

L3 Ops Office Elec Heat

WEATHER FILE- SEATTLE BOEING FI WA

SYSTEM	ALTITUDE	FLOOR	MAX	OUTSIDE	COOLING	SENSIBLE	HEATING	COOLING	HEATING	HEAT PUMP
TYPE	FACTOR	AREA	PEOPLE	AIR	CAPACITY	(SHR)	CAPACITY	EIR	EIR	SUPP-HEAT
		(SQFT)		RATIO	(KBTU/HR)		(KBTU/HR)	(BTU/BTU)	(BTU/BTU)	(KBTU/HR)
PTAC	1.000	812.1	3.	0.000	0.000	0.000	0.000	0.173	0.000	0.000

FAN	CAPACITY	DIVERSITY	POWER	FAN	STATIC	TOTAL	MECH			MAX FAN	MIN FAN
TYPE	(CFM)	FACTOR	DEMAND	DELTA-T	PRESSURE	EFF	EFF	FAN	FAN	RATIO	RATIO
		(FRAC)	(KW)	(F)	(IN-WATER)	(FRAC)	(FRAC)	PLACEMENT	CONTROL	(FRAC)	(FRAC)
SUPPLY	44.	0.00	0.000	0.93	0.0	0.00	0.00	BLOW-THRU	CYCLING	0.00	0.00

ZONE		SUPPLY	EXHAUST		MINIMUM	OUTSIDE	COOLING		EXTRACTION	HEATING	ADDITION	
NAME		FLOW	FLOW	FAN	FLOW	AIR FLOW	CAPACITY	SENSIBLE	RATE	CAPACITY	RATE	ZONE
		(CFM)	(CFM)	(KW)	(FRAC)	(CFM)	(KBTU/HR)	(FRAC)	(KBTU/HR)	(KBTU/HR)	(KBTU/HR)	MULT
Zn L3 S (G.S9) OFF		34.	0.	0.010	1.000	0.	1.56	0.64	1.45	-1.74	-13.19	1.
Zn L3 C (G.C10) STO		10.	0.	0.003	1.000	0.	0.39	0.67	0.36	-1.00	-0.68	1.

REPORT- SV-A System Design Parameters for L4 Sys1 (PVVT) (G.C6)

WEATHER FILE- SEATTLE BOEING FI WA

SYSTEM TYPE	ALTITUDE FACTOR	FLOOR	MAX	OUTSIDE	COOLING	SENSIBLE	HEATING	COOLING	HEATING	HEAT PUMP
		AREA		AIR	CAPACITY		CAPACITY	EIR	EIR	SUPP-HEAT
		(SQFT)	PEOPLE	RATIO	(KBTU/HR)	(SHR)	(KBTU/HR)	(BTU/BTU)	(BTU/BTU)	(KBTU/HR)
PVVT	1.000	562.9	4.	0.000	6.000	0.796	-6.700	0.173	0.173	0.000

		DIVERSITY	POWER	FAN	STATIC	TOTAL	MECH			MAX FAN	MIN FAN
FAN	CAPACITY	FACTOR	DEMAND	DELTA-T	PRESSURE	EFF	EFF	FAN	FAN	RATIO	RATIO
TYPE	(CFM)	(FRAC)	(KW)	(F)	(IN-WATER)	(FRAC)	(FRAC)	PLACEMENT	CONTROL	(FRAC)	(FRAC)
SUPPLY	233.	1.00	0.044	0.58	0.0	0.00	0.00	DRAW-THRU	CYCLING	1.00	0.30

ZONE NAME	SUPPLY	EXHAUST	FAN	MINIMUM	OUTSIDE	COOLING	EXTRACTION		HEATING	ADDITION	ZONE
	FLOW	FLOW		FLOW	AIR FLOW	CAPACITY	SENSIBLE	RATE	CAPACITY	RATE	
	(CFM)	(CFM)		(FRAC)	(CFM)	(KBTU/HR)	(FRAC)	(KBTU/HR)	(KBTU/HR)	(KBTU/HR)	
Zn L4 C (G.C6) RR	233.	0.	0.000	1.000	0.	0.00	0.00	4.44	0.00	-8.25	1.

REPORT- SV-A System Design Parameters for L4 Sys1 (PVVT) (G.W8)

WEATHER FILE- SEATTLE BOEING FI WA

SYSTEM TYPE	ALTITUDE FACTOR	FLOOR	MAX PEOPLE	OUTSIDE	COOLING	SENSIBLE (SHR)	HEATING	COOLING	HEATING	HEAT PUMP
		AREA (SQFT)		AIR RATIO	CAPACITY (KBTU/HR)		CAPACITY (KBTU/HR)	EIR (BTU/BTU)	EIR (BTU/BTU)	SUPP-HEAT (KBTU/HR)
PVVT	1.000	1197.3	8.	0.000	36.000	0.836	-42.000	0.296	0.173	0.000

		DIVERSITY	POWER	FAN	STATIC	TOTAL	MECH			MAX FAN	MIN FAN
FAN	CAPACITY	FACTOR	DEMAND	DELTA-T	PRESSURE	EFF	EFF	FAN	FAN	RATIO	RATIO
TYPE	(CFM)	(FRAC)	(KW)	(F)	(IN-WATER)	(FRAC)	(FRAC)	PLACEMENT	CONTROL	(FRAC)	(FRAC)
SUPPLY	1316.	1.00	0.249	0.58	0.0	0.50	0.00	DRAW-THRU	CYCLING	1.00	0.30

ZONE	SUPPLY FLOW	EXHAUST FLOW	FAN	MINIMUM FLOW	OUTSIDE AIR FLOW	COOLING CAPACITY	EXTRACTION SENSIBLE	HEATING CAPACITY	ADDITION RATE	ZONE
NAME	(CFM)	(CFM)	(KW)	(FRAC)	(CFM)	(KBTU/HR)	(FRAC)	(KBTU/HR)	(KBTU/HR)	MULT
Zn L4 W (G.W8) OFF	1316.	0.	0.000	1.000	0.	0.00	0.00	28.15	0.00	-46.62 1.

REPORT- SV-A System Design Parameters for L4 Sys1 (PVVT) (G.S9)

WEATHER FILE- SEATTLE BOEING FI WA

SYSTEM		ALTITUDE	FLOOR AREA	MAX	OUTSIDE	COOLING	HEATING		COOLING	HEATING	HEAT PUMP		
TYPE		FACTOR	(SQFT)	PEOPLE	AIR RATIO	CAPACITY (KBTU/HR)	SENSIBLE (SHR)	CAPACITY (KBTU/HR)	(BTU/BTU)	EIR (BTU/BTU)	SUPP-HEAT (KBTU/HR)		
PVVT		1.000	2458.5	17.	0.000	66.000	0.908	-72.000	0.294	0.172	0.000		
FAN		CAPACITY	DIVERSITY	POWER	FAN	STATIC	TOTAL	MECH			MAX FAN	MIN FAN	
TYPE		(CFM)	FACTOR (FRAC)	DEMAND (KW)	DELTA-T (F)	PRESSURE (IN-WATER)	EFF (FRAC)	EFF (FRAC)	FAN PLACEMENT	FAN CONTROL	RATIO (FRAC)	RATIO (FRAC)	
SUPPLY		1498.	1.00	0.283	0.58	0.0	0.50	0.00	DRAW-THRU	CYCLING	1.00	0.30	
ZONE		SUPPLY		EXHAUST	MINIMUM		OUTSIDE	COOLING	EXTRACTION		HEATING	ADDITION	
NAME		FLOW (CFM)		FLOW (CFM)	FAN (KW)	FLOW (FRAC)	AIR FLOW (CFM)	CAPACITY (KBTU/HR)	SENSIBLE (FRAC)	RATE (KBTU/HR)	CAPACITY (KBTU/HR)	RATE (KBTU/HR)	ZONE MULT
Zn L4 S (G.S9) OFF		1498.		0.	0.000	1.000	0.	0.00	0.00	32.06	0.00	-53.09	1.

REPORT- SV-A System Design Parameters for L4 Sys1 (PVVT) (G.E10)

WEATHER FILE- SEATTLE BOEING FI WA

SYSTEM		ALTITUDE	FLOOR AREA	MAX	OUTSIDE	COOLING	SENSIBLE		HEATING	COOLING	HEATING	HEAT PUMP	
TYPE		FACTOR	(SQFT)	PEOPLE	AIR RATIO	CAPACITY (KBTU/HR)	(SHR)		CAPACITY (KBTU/HR)	EIR (BTU/BTU)	EIR (BTU/BTU)	SUPP-HEAT (KBTU/HR)	
PVVT		1.000	1197.7	8.	0.000	33.000	0.884		-39.000	0.172	0.173	0.000	
FAN		CAPACITY	DIVERSITY	POWER	FAN	STATIC	TOTAL	MECH			MAX FAN	MIN FAN	
TYPE		(CFM)	FACTOR (FRAC)	DEMAND (KW)	DELTA-T (F)	PRESSURE (IN-WATER)	EFF (FRAC)	EFF (FRAC)	FAN PLACEMENT	FAN CONTROL	RATIO (FRAC)	RATIO (FRAC)	
SUPPLY		857.	1.00	0.162	0.58	0.0	0.50	0.00	DRAW-THRU	CYCLING	1.00	0.30	
ZONE			SUPPLY	EXHAUST		MINIMUM	OUTSIDE	COOLING	EXTRACTION		HEATING	ADDITION	
NAME			FLOW (CFM)	FLOW (CFM)	FAN (KW)	FLOW (FRAC)	AIR FLOW (CFM)	CAPACITY (KBTU/HR)	SENSIBLE (FRAC)	RATE (KBTU/HR)	CAPACITY (KBTU/HR)	RATE (KBTU/HR)	ZONE MULT
Zn L4 E (G.E10) OFF			857.	0.	0.000	1.000	0.	0.00	0.00	18.35	0.00	-30.39	1.

REPORT- SV-A System Design Parameters for L4 Sys1 (PVVT) (G.N11)

WEATHER FILE- SEATTLE BOEING FI WA

SYSTEM		ALTITUDE	FLOOR AREA	MAX	OUTSIDE AIR	COOLING CAPACITY	SENSIBLE	HEATING CAPACITY	COOLING EIR	HEATING EIR	HEAT PUMP	
TYPE		FACTOR	(SQFT)	PEOPLE	RATIO	(KBTU/HR)	(SHR)	(KBTU/HR)	(BTU/BTU)	(BTU/BTU)	SUPP-HEAT	
PVVT		1.000	2234.4	16.	0.000	36.000	0.829	-42.000	0.172	0.173	0.000	
FAN	CAPACITY	DIVERSITY	POWER	FAN	STATIC	TOTAL	MECH			MAX FAN	MIN FAN	
TYPE	(CFM)	FACTOR	DEMAND	DELTA-T	PRESSURE	EFF	EFF	FAN	FAN	RATIO	RATIO	
		(FRAC)	(KW)	(F)	(IN-WATER)	(FRAC)	(FRAC)	PLACEMENT	CONTROL	(FRAC)	(FRAC)	
SUPPLY		1188.	1.00	0.225	0.58	0.0	0.50	0.00	DRAW-THRU	CYCLING	1.00	0.30
ZONE		SUPPLY	EXHAUST		MINIMUM	OUTSIDE	COOLING		EXTRACTION	HEATING	ADDITION	
NAME		FLOW	FLOW	FAN	FLOW	AIR FLOW	CAPACITY	SENSIBLE	RATE	CAPACITY	RATE	ZONE
		(CFM)	(CFM)	(KW)	(FRAC)	(CFM)	(KBTU/HR)	(FRAC)	(KBTU/HR)	(KBTU/HR)	(KBTU/HR)	MULT
Zn L4 N (G.N11)	OFF	1188.	0.	0.000	1.000	0.	0.00	0.00	25.42	0.00	-42.10	1.

REPORT- SV-A System Design Parameters for L4 Sys1 (PVVT) (G.C12)

WEATHER FILE- SEATTLE BOEING FI WA

SYSTEM		ALTITUDE	FLOOR AREA	MAX	OUTSIDE	COOLING	SENSIBLE		HEATING	COOLING	HEATING	HEAT PUMP	
TYPE		FACTOR	(SQFT)	PEOPLE	AIR RATIO	CAPACITY (KBTU/HR)	(SHR)		CAPACITY (KBTU/HR)	EIR (BTU/BTU)	EIR (BTU/BTU)	SUPP-HEAT (KBTU/HR)	
PVVT		1.000	5388.9	38.	0.000	63.000	0.818		-69.000	0.171	0.172	0.000	
FAN		CAPACITY	DIVERSITY	POWER	FAN	STATIC	TOTAL	MECH			MAX FAN	MIN FAN	
TYPE		(CFM)	FACTOR (FRAC)	DEMAND (KW)	DELTA-T (F)	PRESSURE (IN-WATER)	EFF (FRAC)	EFF (FRAC)	FAN PLACEMENT	FAN CONTROL	RATIO (FRAC)	RATIO (FRAC)	
SUPPLY		2031.	1.00	0.384	0.58	0.0	0.50	0.00	DRAW-THRU	CYCLING	1.00	0.30	
ZONE			SUPPLY	EXHAUST		MINIMUM	OUTSIDE	COOLING	EXTRACTION		HEATING	ADDITION	
NAME			FLOW (CFM)	FLOW (CFM)	FAN (KW)	FLOW (FRAC)	AIR FLOW (CFM)	CAPACITY (KBTU/HR)	SENSIBLE (FRAC)	RATE (KBTU/HR)	CAPACITY (KBTU/HR)	RATE (KBTU/HR)	ZONE MULT
Zn L4 C (G.C12) OFF			2031.	0.	0.000	1.000	0.	0.00	0.00	43.46	0.00	-71.98	1.

REPORT- SV-A System Design Parameters for L4 Sys1 (PVVT) (G.C13)

WEATHER FILE- SEATTLE BOEING FI WA

SYSTEM		ALTITUDE	FLOOR AREA	MAX	OUTSIDE	COOLING	SENSIBLE		HEATING	COOLING	HEATING	HEAT PUMP	
TYPE		FACTOR	(SQFT)	PEOPLE	AIR RATIO	CAPACITY (KBTU/HR)	(SHR)		CAPACITY (KBTU/HR)	EIR (BTU/BTU)	EIR (BTU/BTU)	SUPP-HEAT (KBTU/HR)	
PVVT		1.000	3915.1	27.	0.000	48.000	0.823		-54.000	0.171	0.172	0.000	
FAN		CAPACITY	DIVERSITY	POWER	FAN	STATIC	TOTAL	MECH			MAX FAN	MIN FAN	
TYPE		(CFM)	FACTOR (FRAC)	DEMAND (KW)	DELTA-T (F)	PRESSURE (IN-WATER)	EFF (FRAC)	EFF (FRAC)	FAN PLACEMENT	FAN CONTROL	RATIO (FRAC)	RATIO (FRAC)	
SUPPLY		1518.	1.00	0.287	0.58	0.0	0.50	0.00	DRAW-THRU	CYCLING	1.00	0.30	
ZONE			SUPPLY	EXHAUST		MINIMUM	OUTSIDE	COOLING	EXTRACTION		HEATING	ADDITION	
NAME			FLOW (CFM)	FLOW (CFM)	FAN (KW)	FLOW (FRAC)	AIR FLOW (CFM)	CAPACITY (KBTU/HR)	SENSIBLE (FRAC)	RATE (KBTU/HR)	CAPACITY (KBTU/HR)	RATE (KBTU/HR)	ZONE MULT
Zn	L4 C (G.C13) OFF		1518.	0.	0.000	1.000	0.	0.00	0.00	32.49	0.00	-53.80	1.

REPORT- SV-A System Design Parameters for L5 Sys1 (PVVT) (G.W6)

WEATHER FILE- SEATTLE BOEING FI WA

SYSTEM		ALTITUDE	FLOOR AREA	MAX	OUTSIDE	COOLING	SENSIBLE		HEATING	COOLING	HEATING	HEAT PUMP	
TYPE		FACTOR	(SQFT)	PEOPLE	AIR RATIO	CAPACITY (KBTU/HR)	(SHR)		CAPACITY (KBTU/HR)	EIR (BTU/BTU)	EIR (BTU/BTU)	SUPP-HEAT (KBTU/HR)	
PVVT		1.000	1411.5	3.	0.000	24.000	0.888		-27.000	0.172	0.173	0.000	
FAN		CAPACITY	DIVERSITY	POWER	FAN	STATIC	TOTAL	MECH			MAX FAN	MIN FAN	
TYPE		(CFM)	FACTOR (FRAC)	DEMAND (KW)	DELTA-T (F)	PRESSURE (IN-WATER)	EFF (FRAC)	EFF (FRAC)	FAN PLACEMENT	FAN CONTROL	RATIO (FRAC)	RATIO (FRAC)	
SUPPLY		662.	1.00	0.125	0.58	0.0	0.50	0.00	DRAW-THRU	CYCLING	1.00	0.30	
ZONE			SUPPLY	EXHAUST		MINIMUM	OUTSIDE	COOLING	EXTRACTION		HEATING	ADDITION	
NAME			FLOW (CFM)	FLOW (CFM)	FAN (KW)	FLOW (FRAC)	AIR FLOW (CFM)	CAPACITY (KBTU/HR)	SENSIBLE (FRAC)	RATE (KBTU/HR)	CAPACITY (KBTU/HR)	RATE (KBTU/HR)	ZONE MULT
Zn L5 W (G.W6)	APT1		662.	85.	0.017	1.000	0.	0.00	0.00	14.16	0.00	-23.46	1.

REPORT- SV-A System Design Parameters for L5 Sys1 (PVVT) (G.S7)								WEATHER FILE- SEATTLE BOEING FI WA			
SYSTEM	ALTITUDE	FLOOR	MAX	OUTSIDE	COOLING		HEATING	COOLING	HEATING	HEAT PUMP	
TYPE	FACTOR	AREA	PEOPLE	AIR	CAPACITY	SENSIBLE	CAPACITY	EIR	EIR	SUPP-HEAT	
		(SQFT)		RATIO	(KBTU/HR)	(SHR)	(KBTU/HR)	(BTU/BTU)	(BTU/BTU)	(KBTU/HR)	
PVVT	1.000	4144.8	8.	0.000	36.000	0.933	-39.000	0.172	0.173	0.000	
		DIVERSITY	POWER	FAN	STATIC	TOTAL	MECH			MAX FAN	MIN FAN
FAN	CAPACITY	FACTOR	DEMAND	DELTA-T	PRESSURE	EFF	EFF	FAN	FAN	RATIO	RATIO
TYPE	(CFM)	(FRAC)	(KW)	(F)	(IN-WATER)	(FRAC)	(FRAC)	PLACEMENT	CONTROL	(FRAC)	(FRAC)
SUPPLY	834.	1.00	0.158	0.58	0.0	0.50	0.00	DRAW-THRU	CYCLING	1.00	0.30
ZONE		SUPPLY	EXHAUST		MINIMUM	OUTSIDE	COOLING		EXTRACTION	HEATING	ADDITION
NAME		FLOW	FLOW	FAN	FLOW	AIR FLOW	CAPACITY	SENSIBLE	RATE	CAPACITY	RATE
		(CFM)	(CFM)	(KW)	(FRAC)	(CFM)	(KBTU/HR)	(FRAC)	(KBTU/HR)	(KBTU/HR)	(KBTU/HR)
Zn L5 S (G.S7) APT3		834.	249.	0.049	1.000	0.	0.00	0.00	17.85	0.00	-29.56

REPORT- SV-A System Design Parameters for L5 Sys1 (PVVT) (G.ESE8)

WEATHER FILE- SEATTLE BOEING FI WA

SYSTEM		ALTITUDE	FLOOR AREA	MAX	OUTSIDE	COOLING	SENSIBLE		HEATING	COOLING	HEATING	HEAT PUMP	
TYPE		FACTOR	(SQFT)	PEOPLE	AIR RATIO	CAPACITY (KBTU/HR)	(SHR)		CAPACITY (KBTU/HR)	EIR (BTU/BTU)	EIR (BTU/BTU)	SUPP-HEAT (KBTU/HR)	
PVVT		1.000	1518.1	3.	0.000	21.000	0.901		-21.000	0.172	0.173	0.000	
FAN		CAPACITY	DIVERSITY	POWER	FAN	STATIC	TOTAL	MECH			MAX FAN	MIN FAN	
TYPE		(CFM)	FACTOR (FRAC)	DEMAND (KW)	DELTA-T (F)	PRESSURE (IN-WATER)	EFF (FRAC)	EFF (FRAC)	FAN PLACEMENT	FAN CONTROL	RATIO (FRAC)	RATIO (FRAC)	
SUPPLY		578.	1.00	0.109	0.58	0.0	0.50	0.00	DRAW-THRU	CYCLING	1.00	0.30	
ZONE		SUPPLY		EXHAUST	MINIMUM		OUTSIDE	COOLING	EXTRACTION		HEATING	ADDITION	
NAME		FLOW (CFM)		FLOW (CFM)	FAN (KW)	FLOW (FRAC)	AIR FLOW (CFM)	CAPACITY (KBTU/HR)	SENSIBLE (FRAC)	RATE (KBTU/HR)	CAPACITY (KBTU/HR)	RATE (KBTU/HR)	ZONE MULT
Zn L5 E (G.ESE8) APT1		578.		91.	0.018	1.000	0.	0.00	0.00	12.36	0.00	-20.48	1.

REPORT- SV-A System Design Parameters for L5 Sys1 (PVVT) (G.ENE9)

WEATHER FILE- SEATTLE BOEING FI WA

SYSTEM		ALTITUDE	FLOOR AREA	MAX	OUTSIDE	COOLING	SENSIBLE		HEATING	COOLING	HEATING	HEAT PUMP	
TYPE		FACTOR	(SQFT)	PEOPLE	AIR RATIO	CAPACITY (KBTU/HR)	(SHR)		CAPACITY (KBTU/HR)	EIR (BTU/BTU)	EIR (BTU/BTU)	SUPP-HEAT (KBTU/HR)	
PVVT		1.000	1445.8	3.	0.000	18.000	0.958		-18.000	0.173	0.173	0.000	
FAN		CAPACITY	DIVERSITY	POWER	FAN	STATIC	TOTAL	MECH			MAX FAN	MIN FAN	
TYPE		(CFM)	FACTOR (FRAC)	DEMAND (KW)	DELTA-T (F)	PRESSURE (IN-WATER)	EFF (FRAC)	EFF (FRAC)	FAN PLACEMENT	FAN CONTROL	RATIO (FRAC)	RATIO (FRAC)	
SUPPLY		340.	1.00	0.064	0.58	0.0	0.50	0.00	DRAW-THRU	CYCLING	1.00	0.30	
ZONE			SUPPLY	EXHAUST		MINIMUM	OUTSIDE	COOLING	EXTRACTION		HEATING	ADDITION	
NAME			FLOW (CFM)	FLOW (CFM)	FAN (KW)	FLOW (FRAC)	AIR FLOW (CFM)	CAPACITY (KBTU/HR)	SENSIBLE (FRAC)	RATE (KBTU/HR)	CAPACITY (KBTU/HR)	RATE (KBTU/HR)	ZONE MULT
Zn L5 E (G.ENE9) APT1			340.	87.	0.017	1.000	0.	0.00	0.00	7.28	0.00	-12.06	1.

REPORT- SV-A System Design Parameters for L5 Sys1 (PVVT) (G.W10)

WEATHER FILE- SEATTLE BOEING FI WA

SYSTEM		ALTITUDE	FLOOR AREA	MAX	OUTSIDE	COOLING	HEATING		COOLING	HEATING	HEAT PUMP		
TYPE		FACTOR	(SQFT)	PEOPLE	AIR RATIO	CAPACITY (KBTU/HR)	SENSIBLE (SHR)	CAPACITY (KBTU/HR)	(BTU/BTU)	EIR (BTU/BTU)	SUPP-HEAT (KBTU/HR)		
PVVT		1.000	1353.9	3.	0.000	21.000	0.865	-24.000	0.172	0.173	0.000		
FAN		CAPACITY	DIVERSITY	POWER	FAN	STATIC	TOTAL	MECH			MAX FAN	MIN FAN	
TYPE		(CFM)	FACTOR (FRAC)	DEMAND (KW)	DELTA-T (F)	PRESSURE (IN-WATER)	EFF (FRAC)	EFF (FRAC)	FAN PLACEMENT	FAN CONTROL	RATIO (FRAC)	RATIO (FRAC)	
SUPPLY		656.	1.00	0.124	0.58	0.0	0.50	0.00	DRAW-THRU	CYCLING	1.00	0.30	
ZONE		SUPPLY		EXHAUST	MINIMUM		OUTSIDE	COOLING	EXTRACTION		HEATING	ADDITION	
NAME		FLOW (CFM)		FLOW (CFM)	FAN (KW)	FLOW (FRAC)	AIR FLOW (CFM)	CAPACITY (KBTU/HR)	SENSIBLE (FRAC)	RATE (KBTU/HR)	CAPACITY (KBTU/HR)	RATE (KBTU/HR)	ZONE MULT
Zn L5 W (G.W10) APT1		656.		81.	0.016	1.000	0.	0.00	0.00	14.04	0.00	-23.26	1.

REPORT- SV-A System Design Parameters for L5 Sys1 (PVVT) (G.N11)

WEATHER FILE- SEATTLE BOEING FI WA

SYSTEM		ALTITUDE	FLOOR AREA	MAX	OUTSIDE	COOLING	HEATING		COOLING	HEATING	HEAT PUMP		
TYPE		FACTOR	(SQFT)	PEOPLE	AIR RATIO	CAPACITY (KBTU/HR)	SENSIBLE (SHR)	CAPACITY (KBTU/HR)	(BTU/BTU)	EIR (BTU/BTU)	SUPP-HEAT (KBTU/HR)		
PVVT		1.000	3993.7	7.	0.000	27.000	0.844	-30.000	0.172	0.173	0.000		
FAN		CAPACITY	DIVERSITY	POWER	FAN	STATIC	TOTAL	MECH			MAX FAN	MIN FAN	
TYPE		(CFM)	FACTOR (FRAC)	DEMAND (KW)	DELTA-T (F)	PRESSURE (IN-WATER)	EFF (FRAC)	EFF (FRAC)	FAN PLACEMENT	FAN CONTROL	RATIO (FRAC)	RATIO (FRAC)	
SUPPLY		837.	1.00	0.158	0.58	0.0	0.50	0.00	DRAW-THRU	CYCLING	1.00	0.30	
ZONE			SUPPLY	EXHAUST		MINIMUM	OUTSIDE	COOLING	EXTRACTION		HEATING	ADDITION	
NAME			FLOW (CFM)	FLOW (CFM)	FAN (KW)	FLOW (FRAC)	AIR FLOW (CFM)	CAPACITY (KBTU/HR)	SENSIBLE (FRAC)	RATE (KBTU/HR)	CAPACITY (KBTU/HR)	RATE (KBTU/HR)	ZONE MULT
Zn L5 N (G.N11) APT3			837.	240.	0.047	1.000	0.	0.00	0.00	17.91	0.00	-29.66	1.

REPORT- SV-A System Design Parameters for L6 Sys1 (PVVT) (G.WSW5)

WEATHER FILE- SEATTLE BOEING FI WA

SYSTEM		ALTITUDE	FLOOR	MAX	OUTSIDE	COOLING	SENSIBLE		HEATING	COOLING	HEATING	HEAT PUMP
TYPE		FACTOR	AREA	PEOPLE	AIR	CAPACITY	(SHR)		CAPACITY	EIR	EIR	SUPP-HEAT
			(SQFT)		RATIO	(KBTU/HR)			(KBTU/HR)	(BTU/BTU)	(BTU/BTU)	(KBTU/HR)
PVVT		1.000	956.7	2.	0.000	15.000	0.877		-15.000	0.173	0.173	0.000
FAN		CAPACITY	DIVERSITY	POWER	FAN	STATIC	TOTAL	MECH			MAX FAN	MIN FAN
TYPE		(CFM)	FACTOR	DEMAND	DELTA-T	PRESSURE	EFF	EFF	FAN	FAN	RATIO	RATIO
			(FRAC)	(KW)	(F)	(IN-WATER)	(FRAC)	(FRAC)	PLACEMENT	CONTROL	(FRAC)	(FRAC)
SUPPLY		438.	1.00	0.083	0.58	0.0	0.50	0.00	DRAW-THRU	CYCLING	1.00	0.30
ZONE			SUPPLY	EXHAUST		MINIMUM	OUTSIDE	COOLING	EXTRACTION		HEATING	ADDITION
NAME			FLOW	FLOW	FAN	FLOW	AIR FLOW	CAPACITY	SENSIBLE	RATE	CAPACITY	RATE
			(CFM)	(CFM)	(KW)	(FRAC)	(CFM)	(KBTU/HR)	(FRAC)	(KBTU/HR)	(KBTU/HR)	(KBTU/HR)
Zn L6 W (G.WSW5) APT1			438.	58.	0.011	1.000	0.	0.00	0.00	9.37	0.00	-15.53
												1.

REPORT- SV-A System Design Parameters for L6 Sys1 (PVVT) (G.S6)

WEATHER FILE- SEATTLE BOEING FI WA

SYSTEM TYPE	ALTITUDE FACTOR	FLOOR	MAX PEOPLE	OUTSIDE	COOLING	SENSIBLE (SHR)	HEATING	COOLING	HEATING	HEAT PUMP
		AREA		AIR	CAPACITY		CAPACITY	EIR	EIR	SUPP-HEAT
		(SQFT)		RATIO	(KBTU/HR)		(KBTU/HR)	(BTU/BTU)	(BTU/BTU)	(KBTU/HR)
PVVT	1.000	2069.4	4.	0.000	15.000	0.855	-21.000	0.173	0.173	0.000

		DIVERSITY	POWER	FAN	STATIC	TOTAL	MECH			MAX FAN	MIN FAN
FAN	CAPACITY	FACTOR	DEMAND	DELTA-T	PRESSURE	EFF	EFF	FAN	FAN	RATIO	RATIO
TYPE	(CFM)	(FRAC)	(KW)	(F)	(IN-WATER)	(FRAC)	(FRAC)	PLACEMENT	CONTROL	(FRAC)	(FRAC)
SUPPLY	523.	1.00	0.099	0.58	0.0	0.50	0.00	DRAW-THRU	CYCLING	1.00	0.30

ZONE	SUPPLY FLOW	EXHAUST FLOW	FAN	MINIMUM FLOW	OUTSIDE AIR FLOW	COOLING CAPACITY	EXTRACTION SENSIBLE	HEATING CAPACITY	ADDITION RATE	ZONE	
NAME	(CFM)	(CFM)	(KW)	(FRAC)	(CFM)	(KBTU/HR)	(FRAC)	(KBTU/HR)	(KBTU/HR)	MULT	
Zn L6 S (G.S6) APT3	523.	124.	0.024	1.000	0.	0.00	0.00	11.18	0.00	-18.52	1.

REPORT- SV-A System Design Parameters for L6 Sys1 (PVVT) (G.ESE7)

WEATHER FILE- SEATTLE BOEING FI WA

SYSTEM		ALTITUDE	FLOOR AREA	MAX	OUTSIDE	COOLING	HEATING		COOLING	HEATING	HEAT PUMP		
TYPE		FACTOR	(SQFT)	PEOPLE	AIR RATIO	CAPACITY (KBTU/HR)	SENSIBLE (SHR)	CAPACITY (KBTU/HR)	(BTU/BTU)	EIR (BTU/BTU)	SUPP-HEAT (KBTU/HR)		
PVVT		1.000	1233.6	2.	0.000	12.000	0.908	-15.000	0.173	0.173	0.000		
FAN		CAPACITY	DIVERSITY	POWER	FAN	STATIC	TOTAL	MECH			MAX FAN	MIN FAN	
TYPE		(CFM)	FACTOR (FRAC)	DEMAND (KW)	DELTA-T (F)	PRESSURE (IN-WATER)	EFF (FRAC)	EFF (FRAC)	FAN PLACEMENT	FAN CONTROL	RATIO (FRAC)	RATIO (FRAC)	
SUPPLY		314.	1.00	0.059	0.58	0.0	0.50	0.00	DRAW-THRU	CYCLING	1.00	0.30	
ZONE			SUPPLY	EXHAUST		MINIMUM	OUTSIDE	COOLING	EXTRACTION		HEATING	ADDITION	
NAME			FLOW (CFM)	FLOW (CFM)	FAN (KW)	FLOW (FRAC)	AIR FLOW (CFM)	CAPACITY (KBTU/HR)	SENSIBLE (FRAC)	RATE (KBTU/HR)	CAPACITY (KBTU/HR)	RATE (KBTU/HR)	ZONE MULT
Zn L6 E (G.ESE7) APT1			314.	74.	0.015	1.000	0.	0.00	0.00	6.72	0.00	-11.12	1.

REPORT- SV-A System Design Parameters for L6 Sys1 (PVVT) (G.W8)

WEATHER FILE- SEATTLE BOEING FI WA

SYSTEM		ALTITUDE	FLOOR AREA	MAX	OUTSIDE	COOLING	HEATING		COOLING	HEATING	HEAT PUMP		
TYPE		FACTOR	(SQFT)	PEOPLE	AIR RATIO	CAPACITY (KBTU/HR)	SENSIBLE (SHR)	CAPACITY (KBTU/HR)	(BTU/BTU)	EIR (BTU/BTU)	SUPP-HEAT (KBTU/HR)		
PVVT		1.000	640.8	1.	0.000	9.000	0.870	-9.000	0.173	0.173	0.000		
FAN		CAPACITY	DIVERSITY	POWER	FAN	STATIC	TOTAL	MECH			MAX FAN	MIN FAN	
TYPE		(CFM)	FACTOR (FRAC)	DEMAND (KW)	DELTA-T (F)	PRESSURE (IN-WATER)	EFF (FRAC)	EFF (FRAC)	FAN PLACEMENT	FAN CONTROL	RATIO (FRAC)	RATIO (FRAC)	
SUPPLY		271.	1.00	0.051	0.58	0.0	0.50	0.00	DRAW-THRU	CYCLING	1.00	0.30	
ZONE			SUPPLY	EXHAUST		MINIMUM	OUTSIDE	COOLING	EXTRACTION		HEATING	ADDITION	
NAME			FLOW (CFM)	FLOW (CFM)	FAN (KW)	FLOW (FRAC)	AIR FLOW (CFM)	CAPACITY (KBTU/HR)	SENSIBLE (FRAC)	RATE (KBTU/HR)	CAPACITY (KBTU/HR)	RATE (KBTU/HR)	ZONE MULT
Zn L6 W (G.W8) APT1			271.	39.	0.008	1.000	0.	0.00	0.00	5.79	0.00	-9.59	1.

REPORT- SV-A System Design Parameters for L6 Sys1 (PVVT) (G.NW9)

WEATHER FILE- SEATTLE BOEING FI WA

SYSTEM		ALTITUDE	FLOOR AREA	MAX	OUTSIDE	COOLING	SENSIBLE		HEATING	COOLING	HEATING	HEAT PUMP	
TYPE		FACTOR	(SQFT)	PEOPLE	AIR RATIO	CAPACITY (KBTU/HR)	(SHR)		CAPACITY (KBTU/HR)	EIR (BTU/BTU)	EIR (BTU/BTU)	SUPP-HEAT (KBTU/HR)	
PVVT		1.000	925.4	2.	0.000	9.000	0.815		-12.000	0.173	0.173	0.000	
FAN		CAPACITY	DIVERSITY	POWER	FAN	STATIC	TOTAL	MECH			MAX FAN	MIN FAN	
TYPE		(CFM)	FACTOR (FRAC)	DEMAND (KW)	DELTA-T (F)	PRESSURE (IN-WATER)	EFF (FRAC)	EFF (FRAC)	FAN PLACEMENT	FAN CONTROL	RATIO (FRAC)	RATIO (FRAC)	
SUPPLY		384.	1.00	0.073	0.58	0.0	0.50	0.00	DRAW-THRU	CYCLING	1.00	0.30	
ZONE			SUPPLY	EXHAUST		MINIMUM	OUTSIDE	COOLING	EXTRACTION		HEATING	ADDITION	
NAME			FLOW (CFM)	FLOW (CFM)	FAN (KW)	FLOW (FRAC)	AIR FLOW (CFM)	CAPACITY (KBTU/HR)	SENSIBLE (FRAC)	RATE (KBTU/HR)	CAPACITY (KBTU/HR)	RATE (KBTU/HR)	ZONE MULT
Zn L6 N (G.NW9) APT1			384.	56.	0.011	1.000	0.	0.00	0.00	6.88	0.00	-13.61	1.

REPORT- SV-A System Design Parameters for L6 Sys1 (PVVT) (G.NE10)

WEATHER FILE- SEATTLE BOEING FI WA

SYSTEM		ALTITUDE	FLOOR AREA	MAX	OUTSIDE	COOLING	HEATING		COOLING	HEATING	HEAT PUMP		
TYPE		FACTOR	(SQFT)	PEOPLE	AIR RATIO	CAPACITY (KBTU/HR)	SENSIBLE (SHR)	CAPACITY (KBTU/HR)	(BTU/BTU)	EIR (BTU/BTU)	SUPP-HEAT (KBTU/HR)		
PVVT		1.000	749.0	1.	0.000	6.000	0.867	-6.700	0.173	0.173	0.000		
FAN		CAPACITY	DIVERSITY	POWER	FAN	STATIC	TOTAL	MECH			MAX FAN	MIN FAN	
TYPE		(CFM)	FACTOR (FRAC)	DEMAND (KW)	DELTA-T (F)	PRESSURE (IN-WATER)	EFF (FRAC)	EFF (FRAC)	FAN PLACEMENT	FAN CONTROL	RATIO (FRAC)	RATIO (FRAC)	
SUPPLY		164.	1.00	0.031	0.58	0.0	0.50	0.00	DRAW-THRU	CYCLING	1.00	0.30	
ZONE			SUPPLY	EXHAUST		MINIMUM	OUTSIDE	COOLING	EXTRACTION		HEATING	ADDITION	
NAME			FLOW (CFM)	FLOW (CFM)	FAN (KW)	FLOW (FRAC)	AIR FLOW (CFM)	CAPACITY (KBTU/HR)	SENSIBLE (FRAC)	RATE (KBTU/HR)	CAPACITY (KBTU/HR)	RATE (KBTU/HR)	ZONE MULT
Zn L6 N (G.NE10) APT1			164.	45.	0.009	1.000	0.	0.00	0.00	3.51	0.00	-5.81	1.

REPORT- SV-A System Design Parameters for L6 Sys1 (PVVT) (G.NW11)

WEATHER FILE- SEATTLE BOEING FI WA

SYSTEM		ALTITUDE	FLOOR AREA	MAX	OUTSIDE	COOLING	HEATING		COOLING	HEATING	HEAT PUMP		
TYPE		FACTOR	(SQFT)	PEOPLE	AIR RATIO	CAPACITY (KBTU/HR)	SENSIBLE (SHR)	CAPACITY (KBTU/HR)	(BTU/BTU)	EIR (BTU/BTU)	SUPP-HEAT (KBTU/HR)		
PVVT		1.000	711.4	1.	0.000	6.000	0.853	-6.700	0.173	0.173	0.000		
FAN		CAPACITY	DIVERSITY	POWER	FAN	STATIC	TOTAL	MECH			MAX FAN	MIN FAN	
TYPE		(CFM)	FACTOR (FRAC)	DEMAND (KW)	DELTA-T (F)	PRESSURE (IN-WATER)	EFF (FRAC)	EFF (FRAC)	FAN PLACEMENT	FAN CONTROL	RATIO (FRAC)	RATIO (FRAC)	
SUPPLY		183.	1.00	0.035	0.58	0.0	0.50	0.00	DRAW-THRU	CYCLING	1.00	0.30	
ZONE			SUPPLY	EXHAUST		MINIMUM	OUTSIDE	COOLING	EXTRACTION		HEATING	ADDITION	
NAME			FLOW (CFM)	FLOW (CFM)	FAN (KW)	FLOW (FRAC)	AIR FLOW (CFM)	CAPACITY (KBTU/HR)	SENSIBLE (FRAC)	RATE (KBTU/HR)	CAPACITY (KBTU/HR)	RATE (KBTU/HR)	ZONE MULT
Zn L6 N (G.NW11)		APT1	183.	43.	0.008	1.000	0.	0.00	0.00	3.92	0.00	-6.49	1.

REPORT- SV-A System Design Parameters for L6 Sys1 (PVVT) (G.NE12)

WEATHER FILE- SEATTLE BOEING FI WA

SYSTEM		ALTITUDE	FLOOR AREA	MAX	OUTSIDE	COOLING	SENSIBLE		HEATING	COOLING	HEATING	HEAT PUMP	
TYPE		FACTOR	(SQFT)	PEOPLE	AIR RATIO	CAPACITY (KBTU/HR)	(SHR)		CAPACITY (KBTU/HR)	EIR (BTU/BTU)	EIR (BTU/BTU)	SUPP-HEAT (KBTU/HR)	
PVVT		1.000	1265.9	2.	0.000	9.000	0.859		-9.000	0.173	0.173	0.000	
FAN		CAPACITY	DIVERSITY	POWER	FAN	STATIC	TOTAL	MECH			MAX FAN	MIN FAN	
TYPE		(CFM)	FACTOR (FRAC)	DEMAND (KW)	DELTA-T (F)	PRESSURE (IN-WATER)	EFF (FRAC)	EFF (FRAC)	FAN PLACEMENT	FAN CONTROL	RATIO (FRAC)	RATIO (FRAC)	
SUPPLY		253.	1.00	0.048	0.58	0.0	0.50	0.00	DRAW-THRU	CYCLING	1.00	0.30	
ZONE			SUPPLY	EXHAUST		MINIMUM	OUTSIDE	COOLING	EXTRACTION		HEATING	ADDITION	
NAME			FLOW (CFM)	FLOW (CFM)	FAN (KW)	FLOW (FRAC)	AIR FLOW (CFM)	CAPACITY (KBTU/HR)	SENSIBLE (FRAC)	RATE (KBTU/HR)	CAPACITY (KBTU/HR)	RATE (KBTU/HR)	ZONE MULT
Zn L6 N (G.NE12) APT1			253.	76.	0.015	1.000	0.	0.00	0.00	5.41	0.00	-8.95	1.

REPORT- SV-A System Design Parameters for L6 Sys1 (PVVT) (G.ESE13)

WEATHER FILE- SEATTLE BOEING FI WA

SYSTEM		ALTITUDE	FLOOR AREA	MAX	OUTSIDE	COOLING	HEATING		COOLING	HEATING	HEAT PUMP		
TYPE		FACTOR	(SQFT)	PEOPLE	AIR RATIO	CAPACITY (KBTU/HR)	SENSIBLE (SHR)	CAPACITY (KBTU/HR)	(BTU/BTU)	EIR (BTU/BTU)	SUPP-HEAT (KBTU/HR)		
PVVT		1.000	679.6	1.	0.000	6.000	0.946	-6.700	0.173	0.173	0.000		
FAN		CAPACITY	DIVERSITY	POWER	FAN	STATIC	TOTAL	MECH			MAX FAN	MIN FAN	
TYPE		(CFM)	FACTOR (FRAC)	DEMAND (KW)	DELTA-T (F)	PRESSURE (IN-WATER)	EFF (FRAC)	EFF (FRAC)	FAN PLACEMENT	FAN CONTROL	RATIO (FRAC)	RATIO (FRAC)	
SUPPLY		111.	1.00	0.021	0.58	0.0	0.50	0.00	DRAW-THRU	CYCLING	1.00	0.30	
ZONE			SUPPLY	EXHAUST		MINIMUM	OUTSIDE	COOLING	EXTRACTION		HEATING	ADDITION	
NAME			FLOW (CFM)	FLOW (CFM)	FAN (KW)	FLOW (FRAC)	AIR FLOW (CFM)	CAPACITY (KBTU/HR)	SENSIBLE (FRAC)	RATE (KBTU/HR)	CAPACITY (KBTU/HR)	RATE (KBTU/HR)	ZONE MULT
Zn L6 E (G.ESE13) APT1			111.	41.	0.008	1.000	0.	0.00	0.00	2.37	0.00	-3.92	1.

REPORT- SV-A System Design Parameters for L7 Sys1 (PVVT) (G.WSW5)								WEATHER FILE- SEATTLE BOEING FI WA			
SYSTEM	ALTITUDE	FLOOR	MAX	OUTSIDE	COOLING	SENSIBLE	HEATING	COOLING	HEATING	HEAT PUMP	
TYPE	FACTOR	AREA	PEOPLE	AIR	CAPACITY	(SHR)	CAPACITY	EIR	EIR	SUPP-HEAT	
		(SQFT)		RATIO	(KBTU/HR)		(KBTU/HR)	(BTU/BTU)	(BTU/BTU)	(KBTU/HR)	
PVVT	1.000	956.7	2.	0.000	15.000	0.875	-15.000	0.173	0.173	0.000	
		DIVERSITY	POWER	FAN	STATIC	TOTAL	MECH		MAX FAN	MIN FAN	
FAN	CAPACITY	FACTOR	DEMAND	DELTA-T	PRESSURE	EFF	EFF	FAN	FAN	RATIO	
TYPE	(CFM)	(FRAC)	(KW)	(F)	(IN-WATER)	(FRAC)	(FRAC)	PLACEMENT	CONTROL	(FRAC)	
SUPPLY	442.	1.00	0.084	0.58	0.0	0.50	0.00	DRAW-THRU	CYCLING	1.00	
										0.30	
			SUPPLY	EXHAUST		MINIMUM	OUTSIDE	COOLING	EXTRACTION	HEATING	ADDITION
ZONE			FLOW	FLOW	FAN	FLOW	AIR FLOW	CAPACITY	SENSIBLE	RATE	CAPACITY
NAME			(CFM)	(CFM)	(KW)	(FRAC)	(CFM)	(KBTU/HR)	(FRAC)	(KBTU/HR)	(KBTU/HR)
Zn L7 W (G.WSW5) APT1			442.	58.	0.011	1.000	0.	0.00	0.00	9.47	0.00
											-15.68

REPORT- SV-A System Design Parameters for L7 Sys1 (PVVT) (G.S6)								WEATHER FILE- SEATTLE BOEING FI WA			
SYSTEM	ALTITUDE	FLOOR	MAX	OUTSIDE	COOLING	SENSIBLE	HEATING	COOLING	HEATING	HEAT PUMP	
TYPE	FACTOR	AREA	PEOPLE	AIR	CAPACITY	(SHR)	CAPACITY	EIR	EIR	SUPP-HEAT	
		(SQFT)		RATIO	(KBTU/HR)		(KBTU/HR)	(BTU/BTU)	(BTU/BTU)	(KBTU/HR)	
PVVT	1.000	2069.4	4.	0.000	18.000	0.884	-21.000	0.173	0.173	0.000	
FAN	CAPACITY	DIVERSITY	POWER	FAN	STATIC	TOTAL	MECH		MAX FAN	MIN FAN	
TYPE	(CFM)	FACTOR	DEMAND	DELTA-T	PRESSURE	EFF	EFF	FAN	FAN	RATIO	RATIO
		(FRAC)	(KW)	(F)	(IN-WATER)	(FRAC)	(FRAC)	PLACEMENT	CONTROL	(FRAC)	(FRAC)
SUPPLY	533.	1.00	0.101	0.58	0.0	0.50	0.00	DRAW-THRU	CYCLING	1.00	0.30
ZONE		SUPPLY	EXHAUST		MINIMUM	OUTSIDE	COOLING		EXTRACTION	HEATING	ADDITION
NAME		FLOW	FLOW	FAN	FLOW	AIR FLOW	CAPACITY	SENSIBLE	RATE	CAPACITY	RATE
		(CFM)	(CFM)	(KW)	(FRAC)	(CFM)	(KBTU/HR)	(FRAC)	(KBTU/HR)	(KBTU/HR)	(KBTU/HR)
Zn L7 S (G.S6) APT3		533.	124.	0.024	1.000	0.	0.00	0.00	11.40	0.00	-18.88

REPORT- SV-A System Design Parameters for L7 Sys1 (PVVT) (G.ESE7)

WEATHER FILE- SEATTLE BOEING FI WA

SYSTEM		ALTITUDE	FLOOR AREA	MAX	OUTSIDE	COOLING	HEATING		COOLING	HEATING	HEAT PUMP		
TYPE		FACTOR	(SQFT)	PEOPLE	AIR RATIO	CAPACITY (KBTU/HR)	SENSIBLE (SHR)	CAPACITY (KBTU/HR)	(BTU/BTU)	EIR (BTU/BTU)	SUPP-HEAT (KBTU/HR)		
PVVT		1.000	1233.6	2.	0.000	12.000	0.903	-15.000	0.173	0.173	0.000		
FAN		CAPACITY	DIVERSITY	POWER	FAN	STATIC	TOTAL	MECH			MAX FAN	MIN FAN	
TYPE		(CFM)	FACTOR (FRAC)	DEMAND (KW)	DELTA-T (F)	PRESSURE (IN-WATER)	EFF (FRAC)	EFF (FRAC)	FAN PLACEMENT	FAN CONTROL	RATIO (FRAC)	RATIO (FRAC)	
SUPPLY		321.	1.00	0.061	0.58	0.0	0.50	0.00	DRAW-THRU	CYCLING	1.00	0.30	
ZONE			SUPPLY	EXHAUST		MINIMUM	OUTSIDE	COOLING	EXTRACTION		HEATING	ADDITION	
NAME			FLOW (CFM)	FLOW (CFM)	FAN (KW)	FLOW (FRAC)	AIR FLOW (CFM)	CAPACITY (KBTU/HR)	SENSIBLE (FRAC)	RATE (KBTU/HR)	CAPACITY (KBTU/HR)	RATE (KBTU/HR)	ZONE MULT
Zn L7 E (G.ESE7) APT1			321.	74.	0.015	1.000	0.	0.00	0.00	6.86	0.00	-11.36	1.

REPORT- SV-A System Design Parameters for L7 Sys1 (PVVT) (G.W8)

WEATHER FILE- SEATTLE BOEING FI WA

SYSTEM		ALTITUDE	FLOOR AREA	MAX	OUTSIDE	COOLING	HEATING		COOLING	HEATING	HEAT PUMP		
TYPE		FACTOR	(SQFT)	PEOPLE	AIR RATIO	CAPACITY (KBTU/HR)	SENSIBLE (SHR)	CAPACITY (KBTU/HR)	(BTU/BTU)	EIR (BTU/BTU)	SUPP-HEAT (KBTU/HR)		
PVVT		1.000	640.8	1.	0.000	6.000	0.813	-9.000	0.173	0.173	0.000		
FAN		CAPACITY	DIVERSITY	POWER	FAN	STATIC	TOTAL	MECH			MAX FAN	MIN FAN	
TYPE		(CFM)	FACTOR (FRAC)	DEMAND (KW)	DELTA-T (F)	PRESSURE (IN-WATER)	EFF (FRAC)	EFF (FRAC)	FAN PLACEMENT	FAN CONTROL	RATIO (FRAC)	RATIO (FRAC)	
SUPPLY		259.	1.00	0.049	0.58	0.0	0.50	0.00	DRAW-THRU	CYCLING	1.00	0.30	
ZONE			SUPPLY	EXHAUST		MINIMUM	OUTSIDE	COOLING	EXTRACTION		HEATING	ADDITION	
NAME			FLOW (CFM)	FLOW (CFM)	FAN (KW)	FLOW (FRAC)	AIR FLOW (CFM)	CAPACITY (KBTU/HR)	SENSIBLE (FRAC)	RATE (KBTU/HR)	CAPACITY (KBTU/HR)	RATE (KBTU/HR)	ZONE MULT
Zn	L7 W (G.W8) APT1		259.	39.	0.008	1.000	0.	0.00	0.00	4.57	0.00	-9.19	1.

REPORT- SV-A System Design Parameters for L7 Sys1 (PVVT) (G.NW9)

WEATHER FILE- SEATTLE BOEING FI WA

SYSTEM		ALTITUDE	FLOOR AREA	MAX	OUTSIDE	COOLING	HEATING		COOLING	HEATING	HEAT PUMP		
TYPE		FACTOR	(SQFT)	PEOPLE	AIR RATIO	CAPACITY (KBTU/HR)	SENSIBLE (SHR)	CAPACITY (KBTU/HR)	(BTU/BTU)	EIR (BTU/BTU)	SUPP-HEAT (KBTU/HR)		
PVVT		1.000	938.6	2.	0.000	12.000	0.852	-12.000	0.173	0.173	0.000		
FAN		CAPACITY	DIVERSITY	POWER	FAN	STATIC	TOTAL	MECH			MAX FAN	MIN FAN	
TYPE		(CFM)	FACTOR (FRAC)	DEMAND (KW)	DELTA-T (F)	PRESSURE (IN-WATER)	EFF (FRAC)	EFF (FRAC)	FAN PLACEMENT	FAN CONTROL	RATIO (FRAC)	RATIO (FRAC)	
SUPPLY		400.	1.00	0.076	0.58	0.0	0.50	0.00	DRAW-THRU	CYCLING	1.00	0.30	
ZONE			SUPPLY	EXHAUST		MINIMUM	OUTSIDE	COOLING	EXTRACTION		HEATING	ADDITION	
NAME			FLOW (CFM)	FLOW (CFM)	FAN (KW)	FLOW (FRAC)	AIR FLOW (CFM)	CAPACITY (KBTU/HR)	SENSIBLE (FRAC)	RATE (KBTU/HR)	CAPACITY (KBTU/HR)	RATE (KBTU/HR)	ZONE MULT
Zn L7 N (G.NW9) APT1			400.	56.	0.011	1.000	0.	0.00	0.00	8.56	0.00	-14.18	1.

REPORT- SV-A System Design Parameters for L7 Sys1 (PVVT) (G.NE10)

WEATHER FILE- SEATTLE BOEING FI WA

SYSTEM		ALTITUDE	FLOOR AREA	MAX	OUTSIDE	COOLING	HEATING		COOLING	HEATING	HEAT PUMP	
TYPE		FACTOR	(SQFT)	PEOPLE	AIR RATIO	CAPACITY (KBTU/HR)	SENSIBLE (SHR)	CAPACITY (KBTU/HR)	EIR (BTU/BTU)	EIR (BTU/BTU)	SUPP-HEAT (KBTU/HR)	
PVVT		1.000	681.8	1.	0.000	6.000	0.870	-6.700	0.173	0.173	0.000	
FAN	CAPACITY	DIVERSITY	POWER	FAN	STATIC	TOTAL	MECH			MAX FAN	MIN FAN	
TYPE	(CFM)	FACTOR (FRAC)	DEMAND (KW)	DELTA-T (F)	PRESSURE (IN-WATER)	EFF (FRAC)	EFF (FRAC)	FAN PLACEMENT	FAN CONTROL	RATIO (FRAC)	RATIO (FRAC)	
SUPPLY		165.	1.00	0.031	0.58	0.0	0.50	0.00	DRAW-THRU	CYCLING	1.00	0.30
ZONE		SUPPLY	EXHAUST		MINIMUM	OUTSIDE	COOLING	EXTRACTION		HEATING	ADDITION	
NAME		FLOW (CFM)	FLOW (CFM)	FAN (KW)	FLOW (FRAC)	AIR FLOW (CFM)	CAPACITY (KBTU/HR)	SENSIBLE (FRAC)	RATE (KBTU/HR)	CAPACITY (KBTU/HR)	RATE (KBTU/HR)	ZONE MULT
Zn L7 N (G.NE10)	APT1	165.	41.	0.008	1.000	0.	0.00	0.00	3.53	0.00	-5.84	1.

REPORT- SV-A System Design Parameters for L7 Sys1 (PVVT) (G.NW11)

WEATHER FILE- SEATTLE BOEING FI WA

SYSTEM		ALTITUDE	FLOOR AREA	MAX	OUTSIDE	COOLING	HEATING		COOLING	HEATING	HEAT PUMP		
TYPE		FACTOR	(SQFT)	PEOPLE	AIR RATIO	CAPACITY (KBTU/HR)	SENSIBLE (SHR)	CAPACITY (KBTU/HR)	(BTU/BTU)	EIR (BTU/BTU)	SUPP-HEAT (KBTU/HR)		
PVVT		1.000	711.4	1.	0.000	6.000	0.851	-6.700	0.173	0.173	0.000		
FAN		CAPACITY	DIVERSITY	POWER	FAN	STATIC	TOTAL	MECH			MAX FAN	MIN FAN	
TYPE		(CFM)	FACTOR (FRAC)	DEMAND (KW)	DELTA-T (F)	PRESSURE (IN-WATER)	EFF (FRAC)	EFF (FRAC)	FAN PLACEMENT	FAN CONTROL	RATIO (FRAC)	RATIO (FRAC)	
SUPPLY		186.	1.00	0.035	0.58	0.0	0.50	0.00	DRAW-THRU	CYCLING	1.00	0.30	
ZONE			SUPPLY	EXHAUST		MINIMUM	OUTSIDE	COOLING	EXTRACTION		HEATING	ADDITION	
NAME			FLOW (CFM)	FLOW (CFM)	FAN (KW)	FLOW (FRAC)	AIR FLOW (CFM)	CAPACITY (KBTU/HR)	SENSIBLE (FRAC)	RATE (KBTU/HR)	CAPACITY (KBTU/HR)	RATE (KBTU/HR)	ZONE MULT
Zn L7 N (G.NW11)		APT1	186.	43.	0.008	1.000	0.	0.00	0.00	3.98	0.00	-6.59	1.

REPORT- SV-A System Design Parameters for L7 Sys1 (PVVT) (G.NE12)

WEATHER FILE- SEATTLE BOEING FI WA

SYSTEM		ALTITUDE	FLOOR AREA	MAX	OUTSIDE	COOLING	SENSIBLE		HEATING	COOLING	HEATING	HEAT PUMP	
TYPE		FACTOR	(SQFT)	PEOPLE	AIR RATIO	CAPACITY (KBTU/HR)	(SHR)		CAPACITY (KBTU/HR)	EIR (BTU/BTU)	EIR (BTU/BTU)	SUPP-HEAT (KBTU/HR)	
PVVT		1.000	1265.9	2.	0.000	9.000	0.847		-12.000	0.173	0.173	0.000	
FAN		CAPACITY	DIVERSITY	POWER	FAN	STATIC	TOTAL	MECH			MAX FAN	MIN FAN	
TYPE		(CFM)	FACTOR (FRAC)	DEMAND (KW)	DELTA-T (F)	PRESSURE (IN-WATER)	EFF (FRAC)	EFF (FRAC)	FAN PLACEMENT	FAN CONTROL	RATIO (FRAC)	RATIO (FRAC)	
SUPPLY		276.	1.00	0.052	0.58	0.0	0.50	0.00	DRAW-THRU	CYCLING	1.00	0.30	
ZONE			SUPPLY	EXHAUST		MINIMUM	OUTSIDE	COOLING	EXTRACTION		HEATING	ADDITION	
NAME			FLOW (CFM)	FLOW (CFM)	FAN (KW)	FLOW (FRAC)	AIR FLOW (CFM)	CAPACITY (KBTU/HR)	SENSIBLE (FRAC)	RATE (KBTU/HR)	CAPACITY (KBTU/HR)	RATE (KBTU/HR)	ZONE MULT
Zn L7 N (G.NE12) APT1			276.	76.	0.015	1.000	0.	0.00	0.00	5.90	0.00	-9.77	1.

REPORT- SV-A System Design Parameters for L7 Sys1 (PVVT) (G.ESE13)

WEATHER FILE- SEATTLE BOEING FI WA

SYSTEM		ALTITUDE	FLOOR AREA	MAX	OUTSIDE	COOLING	HEATING		COOLING	HEATING	HEAT PUMP		
TYPE		FACTOR	(SQFT)	PEOPLE	AIR RATIO	CAPACITY (KBTU/HR)	SENSIBLE (SHR)	CAPACITY (KBTU/HR)	(BTU/BTU)	EIR (BTU/BTU)	SUPP-HEAT (KBTU/HR)		
PVVT		1.000	679.6	1.	0.000	6.000	0.936	-6.700	0.173	0.173	0.000		
FAN		CAPACITY	DIVERSITY	POWER	FAN	STATIC	TOTAL	MECH			MAX FAN	MIN FAN	
TYPE		(CFM)	FACTOR (FRAC)	DEMAND (KW)	DELTA-T (F)	PRESSURE (IN-WATER)	EFF (FRAC)	EFF (FRAC)	FAN PLACEMENT	FAN CONTROL	RATIO (FRAC)	RATIO (FRAC)	
SUPPLY		116.	1.00	0.022	0.58	0.0	0.50	0.00	DRAW-THRU	CYCLING	1.00	0.30	
ZONE			SUPPLY	EXHAUST		MINIMUM	OUTSIDE	COOLING	EXTRACTION		HEATING	ADDITION	
NAME			FLOW (CFM)	FLOW (CFM)	FAN (KW)	FLOW (FRAC)	AIR FLOW (CFM)	CAPACITY (KBTU/HR)	SENSIBLE (FRAC)	RATE (KBTU/HR)	CAPACITY (KBTU/HR)	RATE (KBTU/HR)	ZONE MULT
Zn L7 E (G.ESE13) APT1			116.	41.	0.008	1.000	0.	0.00	0.00	2.48	0.00	-4.11	1.

REPORT- SV-A System Design Parameters for L8 Sys1 (PVVT) (M.WSW20)

WEATHER FILE- SEATTLE BOEING FI WA

SYSTEM		ALTITUDE	FLOOR AREA	MAX	OUTSIDE	COOLING	HEATING		COOLING	HEATING	HEAT PUMP		
TYPE		FACTOR	(SQFT)	PEOPLE	AIR RATIO	CAPACITY (KBTU/HR)	SENSIBLE (SHR)	CAPACITY (KBTU/HR)	(BTU/BTU)	EIR (BTU/BTU)	SUPP-HEAT (KBTU/HR)		
PVVT		1.000	5740.4	11.	0.000	93.000	0.866	-105.000	0.170	0.171	0.000		
FAN		CAPACITY	DIVERSITY	POWER	FAN	STATIC	TOTAL	MECH			MAX FAN	MIN FAN	
TYPE		(CFM)	FACTOR (FRAC)	DEMAND (KW)	DELTA-T (F)	PRESSURE (IN-WATER)	EFF (FRAC)	EFF (FRAC)	FAN PLACEMENT	FAN CONTROL	RATIO (FRAC)	RATIO (FRAC)	
SUPPLY		2908.	1.00	0.550	0.58	0.0	0.50	0.00	DRAW-THRU	CYCLING	1.00	0.30	
ZONE		SUPPLY		EXHAUST	MINIMUM		OUTSIDE	COOLING	EXTRACTION		HEATING	ADDITION	
NAME		FLOW (CFM)		FLOW (CFM)	FAN (KW)	FLOW (FRAC)	AIR FLOW (CFM)	CAPACITY (KBTU/HR)	SENSIBLE (FRAC)	RATE (KBTU/HR)	CAPACITY (KBTU/HR)	RATE (KBTU/HR)	ZONE MULT
Zn L8 W (M.WSW20) APT1		485.		58.	0.011	1.000	0.	0.00	0.00	10.37	0.00	-17.18	6.

REPORT- SV-A System Design Parameters for L8 Sys1 (PVVT) (M.S21)

WEATHER FILE- SEATTLE BOEING FI WA

SYSTEM		ALTITUDE	FLOOR AREA	MAX	OUTSIDE	COOLING	SENSIBLE		HEATING	COOLING	HEATING	HEAT PUMP	
TYPE		FACTOR	(SQFT)	PEOPLE	AIR RATIO	CAPACITY (KBTU/HR)	(SHR)		CAPACITY (KBTU/HR)	EIR (BTU/BTU)	EIR (BTU/BTU)	SUPP-HEAT (KBTU/HR)	
PVVT		1.000	12416.1	23.	0.000	120.000	0.884		-135.000	0.169	0.171	0.000	
FAN		CAPACITY	DIVERSITY	POWER	FAN	STATIC	TOTAL	MECH			MAX FAN	MIN FAN	
TYPE		(CFM)	FACTOR (FRAC)	DEMAND (KW)	DELTA-T (F)	PRESSURE (IN-WATER)	EFF (FRAC)	EFF (FRAC)	FAN PLACEMENT	FAN CONTROL	RATIO (FRAC)	RATIO (FRAC)	
SUPPLY		3581.	1.00	0.677	0.58	0.0	0.50	0.00	DRAW-THRU	CYCLING	1.00	0.30	
ZONE		SUPPLY		EXHAUST	MINIMUM		OUTSIDE	COOLING	EXTRACTION		HEATING	ADDITION	
NAME		FLOW (CFM)		FLOW (CFM)	FAN (KW)	FLOW (FRAC)	AIR FLOW (CFM)	CAPACITY (KBTU/HR)	SENSIBLE (FRAC)	RATE (KBTU/HR)	CAPACITY (KBTU/HR)	RATE (KBTU/HR)	ZONE MULT
Zn L8 S (M.S21) APT3		597.		124.	0.024	1.000	0.	0.00	0.00	12.77	0.00	-21.15	6.

REPORT- SV-A System Design Parameters for L8 Sys1 (PVVT) (M.ESE22)

WEATHER FILE- SEATTLE BOEING FI WA

SYSTEM		ALTITUDE	FLOOR	MAX	OUTSIDE	COOLING	HEATING		COOLING	HEATING	HEAT PUMP	
TYPE		FACTOR	AREA	PEOPLE	AIR	CAPACITY	SENSIBLE	CAPACITY	EIR	EIR	SUPP-HEAT	
			(SQFT)		RATIO	(KBTU/HR)	(SHR)	(KBTU/HR)	(BTU/BTU)	(BTU/BTU)	(KBTU/HR)	
PVVT		1.000	7401.4	14.	0.000	81.000	0.901	-90.000	0.170	0.172	0.000	
FAN		CAPACITY	DIVERSITY	POWER	FAN	STATIC	TOTAL	MECH			MAX FAN	MIN FAN
TYPE		(CFM)	FACTOR	DEMAND	DELTA-T	PRESSURE	EFF	EFF	FAN	FAN	RATIO	RATIO
			(FRAC)	(KW)	(F)	(IN-WATER)	(FRAC)	(FRAC)	PLACEMENT	CONTROL	(FRAC)	(FRAC)
SUPPLY		2203.	1.00	0.416	0.58	0.0	0.50	0.00	DRAW-THRU	CYCLING	1.00	0.30
ZONE			SUPPLY	EXHAUST		MINIMUM	OUTSIDE	COOLING	EXTRACTION		HEATING	ADDITION
NAME			FLOW	FLOW	FAN	FLOW	AIR FLOW	CAPACITY	SENSIBLE	RATE	CAPACITY	RATE
			(CFM)	(CFM)	(KW)	(FRAC)	(CFM)	(KBTU/HR)	(FRAC)	(KBTU/HR)	(KBTU/HR)	(KBTU/HR)
Zn L8 E (M.ESE22) APT1			367.	74.	0.015	1.000	0.	0.00	0.00	7.86	0.00	-13.01
												6.

REPORT- SV-A System Design Parameters for L8 Sys1 (PVVT) (M.W23)							WEATHER FILE- SEATTLE BOEING FI WA				
SYSTEM	ALTITUDE	FLOOR	MAX	OUTSIDE	COOLING		HEATING	COOLING	HEATING	HEAT PUMP	
TYPE	FACTOR	AREA	PEOPLE	AIR	CAPACITY	SENSIBLE	CAPACITY	EIR	EIR	SUPP-HEAT	
		(SQFT)		RATIO	(KBTU/HR)	(SHR)	(KBTU/HR)	(BTU/BTU)	(BTU/BTU)	(KBTU/HR)	
PVVT	1.000	3844.9	7.	0.000	51.000	0.853	-57.000	0.171	0.172	0.000	
FAN	CAPACITY	DIVERSITY	POWER	FAN	STATIC	TOTAL	MECH		MAX FAN	MIN FAN	
TYPE	(CFM)	FACTOR	DEMAND	DELTA-T	PRESSURE	EFF	EFF	FAN	FAN	RATIO	
		(FRAC)	(KW)	(F)	(IN-WATER)	(FRAC)	(FRAC)	PLACEMENT	CONTROL	(FRAC)	
SUPPLY	1704.	1.00	0.322	0.58	0.0	0.50	0.00	DRAW-THRU	CYCLING	1.00	
										0.30	
ZONE		SUPPLY	EXHAUST		MINIMUM	OUTSIDE	COOLING		EXTRACTION	HEATING	
NAME		FLOW	FLOW	FAN	FLOW	AIR FLOW	CAPACITY	SENSIBLE	RATE	CAPACITY	
		(CFM)	(CFM)	(KW)	(FRAC)	(CFM)	(KBTU/HR)	(FRAC)	(KBTU/HR)	(KBTU/HR)	
Zn L8 W (M.W23) APT1		284.	39.	0.008	1.000	0.	0.00	0.00	6.08	0.00	
										-10.07	

REPORT- SV-A System Design Parameters for L8 Sys1 (PVVT) (M.NW24)

WEATHER FILE- SEATTLE BOEING FI WA

SYSTEM		ALTITUDE	FLOOR AREA	MAX	OUTSIDE AIR	COOLING CAPACITY	SENSIBLE	HEATING CAPACITY	COOLING EIR	HEATING EIR	HEAT PUMP	
TYPE		FACTOR	(SQFT)	PEOPLE	RATIO	(KBTU/HR)	(SHR)	(KBTU/HR)	(BTU/BTU)	(BTU/BTU)	SUPP-HEAT	
PVVT		1.000	5631.6	11.	0.000	72.000	0.838	-81.000	0.170	0.172	0.000	
FAN	CAPACITY	DIVERSITY	POWER	FAN	STATIC	TOTAL	MECH			MAX FAN	MIN FAN	
TYPE	(CFM)	FACTOR	DEMAND	DELTA-T	PRESSURE	EFF	EFF	FAN	FAN	RATIO	RATIO	
SUPPLY		2647.	1.00	0.500	0.58	0.0	0.50	0.00	DRAW-THRU	CYCLING	1.00	0.30
ZONE		SUPPLY	EXHAUST		MINIMUM	OUTSIDE	COOLING		EXTRACTION	HEATING	ADDITION	
NAME		FLOW	FLOW	FAN	FLOW	AIR FLOW	CAPACITY	SENSIBLE	RATE	CAPACITY	RATE	ZONE
		(CFM)	(CFM)	(KW)	(FRAC)	(CFM)	(KBTU/HR)	(FRAC)	(KBTU/HR)	(KBTU/HR)	(KBTU/HR)	MULT
Zn L8 N (M.NW24) APT1		441.	56.	0.011	1.000	0.	0.00	0.00	9.44	0.00	-15.63	6.

REPORT- SV-A System Design Parameters for L8 Sys1 (PVVT) (M.NE25)

WEATHER FILE- SEATTLE BOEING FI WA

SYSTEM		ALTITUDE	FLOOR AREA	MAX	OUTSIDE	COOLING	HEATING		COOLING	HEATING	HEAT PUMP		
TYPE		FACTOR	(SQFT)	PEOPLE	AIR RATIO	CAPACITY (KBTU/HR)	SENSIBLE (SHR)	CAPACITY (KBTU/HR)	(BTU/BTU)	EIR (BTU/BTU)	SUPP-HEAT (KBTU/HR)		
PVVT		1.000	4090.5	8.	0.000	36.000	0.848	-39.000	0.172	0.173	0.000		
FAN		CAPACITY	DIVERSITY	POWER	FAN	STATIC	TOTAL	MECH			MAX FAN	MIN FAN	
TYPE		(CFM)	FACTOR (FRAC)	DEMAND (KW)	DELTA-T (F)	PRESSURE (IN-WATER)	EFF (FRAC)	EFF (FRAC)	FAN PLACEMENT	FAN CONTROL	RATIO (FRAC)	RATIO (FRAC)	
SUPPLY		1147.	1.00	0.217	0.58	0.0	0.50	0.00	DRAW-THRU	CYCLING	1.00	0.30	
ZONE			SUPPLY	EXHAUST		MINIMUM	OUTSIDE	COOLING	EXTRACTION		HEATING	ADDITION	
NAME			FLOW (CFM)	FLOW (CFM)	FAN (KW)	FLOW (FRAC)	AIR FLOW (CFM)	CAPACITY (KBTU/HR)	SENSIBLE (FRAC)	RATE (KBTU/HR)	CAPACITY (KBTU/HR)	RATE (KBTU/HR)	ZONE MULT
Zn L8 N (M.NE25) APT1			191.	41.	0.008	1.000	0.	0.00	0.00	4.09	0.00	-6.77	6.

REPORT- SV-A System Design Parameters for L8 Sys1 (PVVT) (M.NW26)

WEATHER FILE- SEATTLE BOEING FI WA

SYSTEM TYPE	ALTITUDE FACTOR	FLOOR	MAX PEOPLE	OUTSIDE	COOLING	SENSIBLE (SHR)	HEATING	COOLING	HEATING	HEAT PUMP
		AREA		AIR	CAPACITY		CAPACITY	EIR	EIR	SUPP-HEAT
		(SQFT)		RATIO	(KBTU/HR)		(KBTU/HR)	(BTU/BTU)	(BTU/BTU)	(KBTU/HR)
PVVT	1.000	4268.2	8.	0.000	45.000	0.854	-51.000	0.172	0.172	0.000

		DIVERSITY	POWER	FAN	STATIC	TOTAL	MECH			MAX FAN	MIN FAN
FAN	CAPACITY	FACTOR	DEMAND	DELTA-T	PRESSURE	EFF	EFF	FAN	FAN	RATIO	RATIO
TYPE	(CFM)	(FRAC)	(KW)	(F)	(IN-WATER)	(FRAC)	(FRAC)	PLACEMENT	CONTROL	(FRAC)	(FRAC)
SUPPLY	1429.	1.00	0.270	0.58	0.0	0.50	0.00	DRAW-THRU	CYCLING	1.00	0.30

ZONE NAME	SUPPLY	EXHAUST	FAN	MINIMUM	OUTSIDE	COOLING	EXTRACTION		HEATING	ADDITION	ZONE
	FLOW	FLOW		FLOW	AIR FLOW	CAPACITY	SENSIBLE	RATE	CAPACITY	RATE	
	(CFM)	(CFM)		(FRAC)	(CFM)	(KBTU/HR)					
Zn L8 N (M.NW26) APT1	238.	43.	0.008	1.000	0.	0.00	0.00	5.09	0.00	-8.44	6.

REPORT- SV-A System Design Parameters for

L8 Sys1 (PVVT) (M.NE27)

WEATHER FILE- SEATTLE BOEING FI WA

SYSTEM TYPE	ALTITUDE FACTOR	FLOOR AREA	MAX	OUTSIDE	COOLING	SENSIBLE	HEATING	COOLING	HEATING	HEAT PUMP		
		(SQFT)	PEOPLE	AIR RATIO	CAPACITY (KBTU/HR)		CAPACITY (KBTU/HR)	EIR (BTU/BTU)	EIR (BTU/BTU)	SUPP-HEAT (KBTU/HR)		
PVVT	1.000	7595.5	14.	0.000	66.000	0.908	-72.000	0.171	0.172	0.000		
FAN TYPE	CAPACITY (CFM)	DIVERSITY	POWER	FAN	STATIC	TOTAL	MECH	FAN PLACEMENT	FAN CONTROL	MAX FAN	MIN FAN	
		FACTOR (FRAC)	DEMAND (KW)	DELTA-T (F)	PRESSURE (IN-WATER)	EFF (FRAC)	EFF (FRAC)			RATIO (FRAC)	RATIO (FRAC)	
SUPPLY	1711.	1.00	0.323	0.58	0.0	0.50	0.00	DRAW-THRU	CYCLING	1.00	0.30	
ZONE NAME		SUPPLY	EXHAUST	FAN	MINIMUM	OUTSIDE	COOLING	SENSIBLE	EXTRACTION	HEATING	ADDITION	
		FLOW (CFM)	FLOW (CFM)		FLOW (KW)	FLOW (FRAC)	AIR FLOW (CFM)			CAPACITY (KBTU/HR)	(FRAC)	RATE (KBTU/HR)
Zn L8 N (M.NE27) APT1		285.	76.	0.015	1.000	0.	0.00	0.00	6.10	0.00	-10.11	6.

REPORT- SV-A System Design Parameters for L8 Sys1 (PVVT) (M.ESE28)

WEATHER FILE- SEATTLE BOEING FI WA

SYSTEM		ALTITUDE	FLOOR AREA	MAX	OUTSIDE	COOLING	SENSIBLE		HEATING	COOLING	HEATING	HEAT PUMP	
TYPE		FACTOR	(SQFT)	PEOPLE	AIR RATIO	CAPACITY (KBTU/HR)	(SHR)		CAPACITY (KBTU/HR)	EIR (BTU/BTU)	EIR (BTU/BTU)	SUPP-HEAT (KBTU/HR)	
PVVT		1.000	4077.3	8.	0.000	33.000	0.923		-36.000	0.172	0.173	0.000	
FAN		CAPACITY	DIVERSITY	POWER	FAN	STATIC	TOTAL	MECH			MAX FAN	MIN FAN	
TYPE		(CFM)	FACTOR (FRAC)	DEMAND (KW)	DELTA-T (F)	PRESSURE (IN-WATER)	EFF (FRAC)	EFF (FRAC)	FAN PLACEMENT	FAN CONTROL	RATIO (FRAC)	RATIO (FRAC)	
SUPPLY		793.	1.00	0.150	0.58	0.0	0.50	0.00	DRAW-THRU	CYCLING	1.00	0.30	
ZONE			SUPPLY	EXHAUST		MINIMUM	OUTSIDE	COOLING	EXTRACTION		HEATING	ADDITION	
NAME			FLOW (CFM)	FLOW (CFM)	FAN (KW)	FLOW (FRAC)	AIR FLOW (CFM)	CAPACITY (KBTU/HR)	SENSIBLE (FRAC)	RATE (KBTU/HR)	CAPACITY (KBTU/HR)	RATE (KBTU/HR)	ZONE MULT
Zn L8 E (M.ESE28) APT1			132.	41.	0.008	1.000	0.	0.00	0.00	2.83	0.00	-4.68	6.

REPORT- SV-A System Design Parameters for L14 Sys1 (PVVT) (T.WSW35)

WEATHER FILE- SEATTLE BOEING FI WA

SYSTEM		ALTITUDE	FLOOR	MAX	OUTSIDE	COOLING	HEATING		COOLING	HEATING	HEAT PUMP	
TYPE		FACTOR	AREA	PEOPLE	AIR	CAPACITY	SENSIBLE	CAPACITY	EIR	EIR	SUPP-HEAT	
			(SQFT)		RATIO	(KBTU/HR)	(SHR)	(KBTU/HR)	(BTU/BTU)	(BTU/BTU)	(KBTU/HR)	
PVVT		1.000	956.7	2.	0.000	18.000	0.879	-18.000	0.173	0.173	0.000	
FAN		CAPACITY	DIVERSITY	POWER	FAN	STATIC	TOTAL	MECH			MAX FAN	MIN FAN
TYPE		(CFM)	FACTOR	DEMAND	DELTA-T	PRESSURE	EFF	EFF	FAN	FAN	RATIO	RATIO
			(FRAC)	(KW)	(F)	(IN-WATER)	(FRAC)	(FRAC)	PLACEMENT	CONTROL	(FRAC)	(FRAC)
SUPPLY		545.	1.00	0.103	0.58	0.0	0.50	0.00	DRAW-THRU	CYCLING	1.00	0.30
ZONE		SUPPLY		EXHAUST	MINIMUM		OUTSIDE	COOLING	EXTRACTION		HEATING	ADDITION
NAME		FLOW		FLOW	FAN	FLOW	AIR FLOW	CAPACITY	SENSIBLE	RATE	CAPACITY	RATE
		(CFM)		(CFM)	(KW)	(FRAC)	(CFM)	(KBTU/HR)	(FRAC)	(KBTU/HR)	(KBTU/HR)	(KBTU/HR)
												ZONE
												MULT
Zn L14 W (T.WSW35)		APT1		545.	58.	0.011	1.000	0.	0.00	0.00	11.66	0.00
												-19.31
												1.

REPORT- SV-A System Design Parameters for L14 Sys1 (PVVT) (T.S36)

WEATHER FILE- SEATTLE BOEING FI WA

SYSTEM TYPE	ALTITUDE FACTOR	FLOOR	MAX	OUTSIDE	COOLING	SENSIBLE	HEATING	COOLING	HEATING	HEAT PUMP
		AREA		AIR	CAPACITY		CAPACITY	EIR	EIR	SUPP-HEAT
		(SQFT)	PEOPLE	RATIO	(KBTU/HR)	(SHR)	(KBTU/HR)	(BTU/BTU)	(BTU/BTU)	(KBTU/HR)
PVVT	1.000	2069.4	4.	0.000	24.000	0.882	-27.000	0.172	0.173	0.000

		DIVERSITY	POWER	FAN	STATIC	TOTAL	MECH			MAX FAN	MIN FAN
FAN	CAPACITY	FACTOR	DEMAND	DELTA-T	PRESSURE	EFF	EFF	FAN	FAN	RATIO	RATIO
TYPE	(CFM)	(FRAC)	(KW)	(F)	(IN-WATER)	(FRAC)	(FRAC)	PLACEMENT	CONTROL	(FRAC)	(FRAC)
SUPPLY	731.	1.00	0.138	0.58	0.0	0.50	0.00	DRAW-THRU	CYCLING	1.00	0.30

ZONE	SUPPLY FLOW	EXHAUST FLOW	FAN	MINIMUM FLOW	OUTSIDE AIR FLOW	COOLING CAPACITY	EXTRACTION SENSIBLE RATE	HEATING CAPACITY	ADDITION RATE	ZONE
NAME	(CFM)	(CFM)	(KW)	(FRAC)	(CFM)	(KBTU/HR)	(FRAC) (KBTU/HR)	(KBTU/HR)	(KBTU/HR)	MULT
Zn L14 S (T.S36) APT3	731.	124.	0.024	1.000	0.	0.00	0.00 15.64	0.00	-25.90	1.

REPORT- SV-A System Design Parameters for L14 Sys1 (PVVT) (T.ESE37)

WEATHER FILE- SEATTLE BOEING FI WA

SYSTEM		ALTITUDE	FLOOR	MAX	OUTSIDE	COOLING	HEATING		COOLING	HEATING	HEAT PUMP	
TYPE		FACTOR	AREA	PEOPLE	AIR	CAPACITY	SENSIBLE	CAPACITY	EIR	EIR	SUPP-HEAT	
			(SQFT)		RATIO	(KBTU/HR)	(SHR)	(KBTU/HR)	(BTU/BTU)	(BTU/BTU)	(KBTU/HR)	
PVVT		1.000	1233.6	2.	0.000	18.000	0.881	-21.000	0.173	0.173	0.000	
FAN		CAPACITY	DIVERSITY	POWER	FAN	STATIC	TOTAL	MECH			MAX FAN	MIN FAN
TYPE		(CFM)	FACTOR	DEMAND	DELTA-T	PRESSURE	EFF	EFF	FAN	FAN	RATIO	RATIO
			(FRAC)	(KW)	(F)	(IN-WATER)	(FRAC)	(FRAC)	PLACEMENT	CONTROL	(FRAC)	(FRAC)
SUPPLY		556.	1.00	0.105	0.58	0.0	0.50	0.00	DRAW-THRU	CYCLING	1.00	0.30
ZONE			SUPPLY	EXHAUST		MINIMUM	OUTSIDE	COOLING	EXTRACTION		HEATING	ADDITION
NAME			FLOW	FLOW	FAN	FLOW	AIR FLOW	CAPACITY	SENSIBLE	RATE	CAPACITY	RATE
			(CFM)	(CFM)	(KW)	(FRAC)	(CFM)	(KBTU/HR)	(FRAC)	(KBTU/HR)	(KBTU/HR)	(KBTU/HR)
Zn L14 E (T.ESE37) APT1			556.	74.	0.015	1.000	0.	0.00	0.00	11.89	0.00	-19.70
												1.

REPORT- SV-A System Design Parameters for L14 Sys1 (PVVT) (T.W38)

WEATHER FILE- SEATTLE BOEING FI WA

SYSTEM		ALTITUDE	FLOOR AREA	MAX	OUTSIDE	COOLING	HEATING		COOLING	HEATING	HEAT PUMP		
TYPE		FACTOR	(SQFT)	PEOPLE	AIR RATIO	CAPACITY (KBTU/HR)	SENSIBLE (SHR)	CAPACITY (KBTU/HR)	(BTU/BTU)	EIR (BTU/BTU)	SUPP-HEAT (KBTU/HR)		
PVVT		1.000	640.8	1.	0.000	9.000	0.851	-9.000	0.173	0.173	0.000		
FAN		CAPACITY	DIVERSITY	POWER	FAN	STATIC	TOTAL	MECH			MAX FAN	MIN FAN	
TYPE		(CFM)	FACTOR (FRAC)	DEMAND (KW)	DELTA-T (F)	PRESSURE (IN-WATER)	EFF (FRAC)	EFF (FRAC)	FAN PLACEMENT	FAN CONTROL	RATIO (FRAC)	RATIO (FRAC)	
SUPPLY		317.	1.00	0.060	0.58	0.0	0.50	0.00	DRAW-THRU	CYCLING	1.00	0.30	
ZONE			SUPPLY	EXHAUST		MINIMUM	OUTSIDE	COOLING	EXTRACTION		HEATING	ADDITION	
NAME			FLOW (CFM)	FLOW (CFM)	FAN (KW)	FLOW (FRAC)	AIR FLOW (CFM)	CAPACITY (KBTU/HR)	SENSIBLE (FRAC)	RATE (KBTU/HR)	CAPACITY (KBTU/HR)	RATE (KBTU/HR)	ZONE MULT
Zn L14 W (T.W38) APT1			317.	39.	0.008	1.000	0.	0.00	0.00	6.78	0.00	-11.23	1.

REPORT- SV-A System Design Parameters for L14 Sys1 (PVVT) (T.NW39)

WEATHER FILE- SEATTLE BOEING FI WA

SYSTEM		ALTITUDE	FLOOR AREA	MAX	OUTSIDE	COOLING	HEATING		COOLING	HEATING	HEAT PUMP		
TYPE		FACTOR	(SQFT)	PEOPLE	AIR RATIO	CAPACITY (KBTU/HR)	SENSIBLE (SHR)	CAPACITY (KBTU/HR)	(BTU/BTU)	EIR (BTU/BTU)	SUPP-HEAT (KBTU/HR)		
PVVT		1.000	938.6	2.	0.000	12.000	0.826	-15.000	0.173	0.173	0.000		
FAN		CAPACITY	DIVERSITY	POWER	FAN	STATIC	TOTAL	MECH			MAX FAN	MIN FAN	
TYPE		(CFM)	FACTOR (FRAC)	DEMAND (KW)	DELTA-T (F)	PRESSURE (IN-WATER)	EFF (FRAC)	EFF (FRAC)	FAN PLACEMENT	FAN CONTROL	RATIO (FRAC)	RATIO (FRAC)	
SUPPLY		486.	1.00	0.092	0.58	0.0	0.50	0.00	DRAW-THRU	CYCLING	1.00	0.30	
ZONE		SUPPLY		EXHAUST	MINIMUM		OUTSIDE	COOLING	EXTRACTION		HEATING	ADDITION	
NAME		FLOW (CFM)		FLOW (CFM)	FAN (KW)	FLOW (FRAC)	AIR FLOW (CFM)	CAPACITY (KBTU/HR)	SENSIBLE (FRAC)	RATE (KBTU/HR)	CAPACITY (KBTU/HR)	RATE (KBTU/HR)	ZONE MULT
Zn L14 N (T.NW39) APT1		486.		56.	0.011	1.000	0.	0.00	0.00	9.35	0.00	-17.24	1.

REPORT- SV-A System Design Parameters for L14 Sys1 (PVVT) (T.NE40)

WEATHER FILE- SEATTLE BOEING FI WA

SYSTEM TYPE	ALTITUDE FACTOR	FLOOR	MAX PEOPLE	OUTSIDE	COOLING	SENSIBLE (SHR)	HEATING	COOLING	HEATING	HEAT PUMP
		AREA (SQFT)		AIR RATIO	CAPACITY (KBTU/HR)		CAPACITY (KBTU/HR)	EIR (BTU/BTU)	EIR (BTU/BTU)	SUPP-HEAT (KBTU/HR)
PVVT	1.000	681.8	1.	0.000	6.000	0.847	-6.700	0.173	0.173	0.000

		DIVERSITY	POWER	FAN	STATIC	TOTAL	MECH			MAX FAN	MIN FAN
FAN	CAPACITY	FACTOR	DEMAND	DELTA-T	PRESSURE	EFF	EFF	FAN	FAN	RATIO	RATIO
TYPE	(CFM)	(FRAC)	(KW)	(F)	(IN-WATER)	(FRAC)	(FRAC)	PLACEMENT	CONTROL	(FRAC)	(FRAC)
SUPPLY	192.	1.00	0.036	0.58	0.0	0.50	0.00	DRAW-THRU	CYCLING	1.00	0.30

ZONE	SUPPLY FLOW	EXHAUST FLOW	FAN	MINIMUM FLOW	OUTSIDE AIR FLOW	COOLING CAPACITY	EXTRACTION SENSIBLE	HEATING CAPACITY	ADDITION RATE	ZONE	
NAME	(CFM)	(CFM)	(KW)	(FRAC)	(CFM)	(KBTU/HR)	(FRAC)	(KBTU/HR)	(KBTU/HR)	MULT	
Zn L14 N (T.NE40) APT1	192.	41.	0.008	1.000	0.	0.00	0.00	4.10	0.00	-6.80	1.

REPORT- SV-A System Design Parameters for L14 Sys1 (PVVT) (T.NW41)

WEATHER FILE- SEATTLE BOEING FI WA

SYSTEM TYPE	ALTITUDE FACTOR	FLOOR	MAX PEOPLE	OUTSIDE	COOLING	SENSIBLE	HEATING	COOLING	HEATING	HEAT PUMP
		AREA		AIR	CAPACITY		CAPACITY	EIR	EIR	SUPP-HEAT
		(SQFT)		RATIO	(KBTU/HR)	(SHR)	(KBTU/HR)	(BTU/BTU)	(BTU/BTU)	(KBTU/HR)
PVVT	1.000	711.4	1.	0.000	6.000	0.819	-9.000	0.173	0.173	0.000

		DIVERSITY	POWER	FAN	STATIC	TOTAL	MECH			MAX FAN	MIN FAN
FAN	CAPACITY	FACTOR	DEMAND	DELTA-T	PRESSURE	EFF	EFF	FAN	FAN	RATIO	RATIO
TYPE	(CFM)	(FRAC)	(KW)	(F)	(IN-WATER)	(FRAC)	(FRAC)	PLACEMENT	CONTROL	(FRAC)	(FRAC)
SUPPLY	239.	1.00	0.045	0.58	0.0	0.50	0.00	DRAW-THRU	CYCLING	1.00	0.30

ZONE	SUPPLY FLOW	EXHAUST FLOW	FAN	MINIMUM FLOW	OUTSIDE AIR FLOW	COOLING CAPACITY	EXTRACTION SENSIBLE	HEATING CAPACITY	ADDITION RATE	ZONE	
NAME	(CFM)	(CFM)	(KW)	(FRAC)	(CFM)	(KBTU/HR)	(FRAC)	(KBTU/HR)	(KBTU/HR)	MULT	
Zn L14 N (T.NW41) APT1	239.	43.	0.008	1.000	0.	0.00	0.00	4.62	0.00	-8.46	1.

REPORT- SV-A System Design Parameters for

L14 Syst (PVVT) (T.NE42)

WEATHER FILE- SEATTLE BOEING FI WA

SYSTEM TYPE	ALTITUDE FACTOR	FLOOR AREA (SQFT)	MAX PEOPLE	OUTSIDE AIR RATIO	COOLING CAPACITY (KBTU/HR)	SENSIBLE (SHR)	HEATING CAPACITY (KBTU/HR)	COOLING EIR (BTU/BTU)	HEATING EIR (BTU/BTU)	HEAT PUMP SUPP-HEAT (KBTU/HR)		
PVVT	1.000	1265.9	2.	0.000	12.000	0.849	-15.000	0.173	0.173	0.000		
FAN TYPE	CAPACITY (CFM)	DIVERSITY FACTOR (FRAC)	POWER DEMAND (KW)	FAN DELTA-T (F)	STATIC PRESSURE (IN-WATER)	TOTAL EFF (FRAC)	MECH EFF (FRAC)	FAN PLACEMENT	FAN CONTROL	MAX FAN RATIO (FRAC)	MIN FAN RATIO (FRAC)	
SUPPLY	442.	1.00	0.084	0.58	0.0	0.50	0.00	DRAW-THRU	CYCLING	1.00	0.30	
ZONE NAME		SUPPLY FLOW (CFM)	EXHAUST FLOW (CFM)	FAN (KW)	MINIMUM FLOW (FRAC)	OUTSIDE AIR FLOW (CFM)	COOLING CAPACITY (KBTU/HR)	SENSIBLE (FRAC)	EXTRACTION RATE (KBTU/HR)	HEATING CAPACITY (KBTU/HR)	ADDITION RATE (KBTU/HR)	ZONE MULT
Zn L14 N (T.NE42) APT1		442.	76.	0.015	1.000	0.	0.00	0.00	9.47	0.00	-15.68	1.

REPORT- SV-A System Design Parameters for L14 Sys1 (PVVT) (T.ESE43)

WEATHER FILE- SEATTLE BOEING FI WA

SYSTEM TYPE	ALTITUDE FACTOR	FLOOR AREA	MAX PEOPLE	OUTSIDE	COOLING	SENSIBLE	HEATING	COOLING	HEATING	HEAT PUMP		
		(SQFT)		AIR	CAPACITY		CAPACITY	EIR	EIR	SUPP-HEAT		
				RATIO	(KBTU/HR)	(SHR)	(KBTU/HR)	(BTU/BTU)	(BTU/BTU)	(KBTU/HR)		
PVVT	1.000	679.6	1.	0.000	6.000	0.843	-9.000	0.173	0.173	0.000		
FAN TYPE	CAPACITY (CFM)	DIVERSITY	POWER	FAN	STATIC	TOTAL	MECH	FAN	FAN	MAX FAN	MIN FAN	
		FACTOR (FRAC)	DEMAND (KW)	DELTA-T (F)	PRESSURE (IN-WATER)	EFF (FRAC)	EFF (FRAC)			RATIO (FRAC)	RATIO (FRAC)	
SUPPLY	221.	1.00	0.042	0.58	0.0	0.50	0.00	DRAW-THRU	CYCLING	1.00	0.30	
ZONE NAME		SUPPLY	EXHAUST	FAN	MINIMUM	OUTSIDE	COOLING	EXTRACTION	HEATING	ADDITION		
		FLOW (CFM)	FLOW (CFM)		FLOW (FRAC)	AIR FLOW (CFM)	CAPACITY (KBTU/HR)				SENSIBLE (FRAC)	RATE (KBTU/HR)
Zn L14 E (T.ESE43) APT1		221.	41.	0.008	1.000	0.	0.00	0.00	4.73	0.00	-7.83	1.

REPORT- SV-A System Design Parameters for

L15 Syst (PVVT) (G.SW5)

WEATHER FILE- SEATTLE BOEING FI WA

SYSTEM TYPE	ALTITUDE FACTOR	FLOOR AREA	MAX PEOPLE	OUTSIDE	COOLING	SENSIBLE	HEATING	COOLING	HEATING	HEAT PUMP			
		(SQFT)		AIR	CAPACITY		CAPACITY	EIR	EIR	SUPP-HEAT			
				RATIO	(KBTU/HR)	(SHR)	(KBTU/HR)	(BTU/BTU)	(BTU/BTU)	(KBTU/HR)			
PVVT	1.000	1302.8	2.	0.000	21.000	0.882	-21.000	0.172	0.173	0.000			
FAN TYPE	CAPACITY (CFM)	DIVERSITY	POWER	FAN	STATIC	TOTAL	MECH	FAN	FAN	MAX FAN	MIN FAN		
		FACTOR	DEMAND	DELTA-T	PRESSURE	EFF	EFF			RATIO	RATIO		
		(FRAC)	(KW)	(F)	(IN-WATER)	(FRAC)	(FRAC)	PLACEMENT	CONTROL	(FRAC)	(FRAC)		
SUPPLY	597.	1.00	0.113	0.58	0.0	0.50	0.00	DRAW-THRU	CYCLING	1.00	0.30		
ZONE NAME			SUPPLY	EXHAUST	FAN	MINIMUM	OUTSIDE	COOLING	EXTRACTION	HEATING	ADDITION		
			FLOW	FLOW		FLOW	AIR FLOW	CAPACITY		SENSIBLE	RATE	CAPACITY	RATE
			(CFM)	(CFM)	(KW)	(FRAC)	(CFM)	(KBTU/HR)	(FRAC)	(KBTU/HR)	(KBTU/HR)	(KBTU/HR)	MULT
Zn L15 S (G.SW5) APT1			597.	78.	0.015	1.000	0.	0.00	0.00	12.77	0.00	-21.15	1.

REPORT- SV-A System Design Parameters for L15 Sys1 (PVVT) (G.W6)								WEATHER FILE- SEATTLE BOEING FI WA			
SYSTEM	ALTITUDE	FLOOR	MAX	OUTSIDE	COOLING	SENSIBLE	HEATING	COOLING	HEATING	HEAT PUMP	
TYPE	FACTOR	AREA	PEOPLE	AIR	CAPACITY	(SHR)	CAPACITY	EIR	EIR	SUPP-HEAT	
		(SQFT)		RATIO	(KBTU/HR)		(KBTU/HR)	(BTU/BTU)	(BTU/BTU)	(KBTU/HR)	
PVVT	1.000	640.8	1.	0.000	9.000	0.853	-9.000	0.173	0.173	0.000	
FAN	CAPACITY	DIVERSITY	POWER	FAN	STATIC	TOTAL	MECH		MAX FAN	MIN FAN	
TYPE	(CFM)	FACTOR	DEMAND	DELTA-T	PRESSURE	EFF	EFF	FAN	FAN	RATIO	
		(FRAC)	(KW)	(F)	(IN-WATER)	(FRAC)	(FRAC)	PLACEMENT	CONTROL	(FRAC)	
SUPPLY	301.	1.00	0.057	0.58	0.0	0.50	0.00	DRAW-THRU	CYCLING	1.00	
										0.30	
ZONE		SUPPLY	EXHAUST		MINIMUM	OUTSIDE	COOLING		EXTRACTION	HEATING	ADDITION
NAME		FLOW	FLOW	FAN	FLOW	AIR FLOW	CAPACITY	SENSIBLE	RATE	CAPACITY	RATE
		(CFM)	(CFM)	(KW)	(FRAC)	(CFM)	(KBTU/HR)	(FRAC)	(KBTU/HR)	(KBTU/HR)	(KBTU/HR)
Zn L15 W (G.W6) APT1		301.	39.	0.008	1.000	0.	0.00	0.00	6.44	0.00	-10.67

REPORT- SV-A System Design Parameters for L15 Sys1 (PVVT) (G.NW7)

WEATHER FILE- SEATTLE BOEING FI WA

SYSTEM		ALTITUDE	FLOOR AREA	MAX	OUTSIDE	COOLING	HEATING		COOLING	HEATING	HEAT PUMP		
TYPE		FACTOR	(SQFT)	PEOPLE	AIR RATIO	CAPACITY (KBTU/HR)	SENSIBLE (SHR)	CAPACITY (KBTU/HR)	(BTU/BTU)	EIR (BTU/BTU)	SUPP-HEAT (KBTU/HR)		
PVVT		1.000	937.6	2.	0.000	12.000	0.834	-15.000	0.173	0.173	0.000		
FAN		CAPACITY	DIVERSITY	POWER	FAN	STATIC	TOTAL	MECH			MAX FAN	MIN FAN	
TYPE		(CFM)	FACTOR (FRAC)	DEMAND (KW)	DELTA-T (F)	PRESSURE (IN-WATER)	EFF (FRAC)	EFF (FRAC)	FAN PLACEMENT	FAN CONTROL	RATIO (FRAC)	RATIO (FRAC)	
SUPPLY		456.	1.00	0.086	0.58	0.0	0.50	0.00	DRAW-THRU	CYCLING	1.00	0.30	
ZONE		SUPPLY		EXHAUST	MINIMUM		OUTSIDE	COOLING	EXTRACTION		HEATING	ADDITION	
NAME		FLOW (CFM)		FLOW (CFM)	FAN (KW)	FLOW (FRAC)	AIR FLOW (CFM)	CAPACITY (KBTU/HR)	SENSIBLE (FRAC)	RATE (KBTU/HR)	CAPACITY (KBTU/HR)	RATE (KBTU/HR)	ZONE MULT
Zn L15 N (G.NW7) APT1		456.		56.	0.011	1.000	0.	0.00	0.00	9.47	0.00	-16.16	1.

REPORT- SV-A System Design Parameters for L15 Sys1 (PVVT) (G.NE8)

WEATHER FILE- SEATTLE BOEING FI WA

SYSTEM TYPE	ALTITUDE FACTOR	FLOOR	MAX	OUTSIDE	COOLING	SENSIBLE	HEATING	COOLING	HEATING	HEAT PUMP
		AREA		AIR	CAPACITY		CAPACITY	EIR	EIR	SUPP-HEAT
		(SQFT)	PEOPLE	RATIO	(KBTU/HR)	(SHR)	(KBTU/HR)	(BTU/BTU)	(BTU/BTU)	(KBTU/HR)
PVVT	1.000	543.9	5.	0.000	24.000	1.000	-27.000	0.173	0.173	0.000

		DIVERSITY	POWER	FAN	STATIC	TOTAL	MECH			MAX FAN	MIN FAN
FAN	CAPACITY	FACTOR	DEMAND	DELTA-T	PRESSURE	EFF	EFF	FAN	FAN	RATIO	RATIO
TYPE	(CFM)	(FRAC)	(KW)	(F)	(IN-WATER)	(FRAC)	(FRAC)	PLACEMENT	CONTROL	(FRAC)	(FRAC)
SUPPLY	199.	1.00	0.038	0.58	0.0	0.50	0.00	DRAW-THRU	CYCLING	1.00	0.30

ZONE	SUPPLY FLOW	EXHAUST FLOW	FAN	MINIMUM FLOW	OUTSIDE AIR FLOW	COOLING CAPACITY	EXTRACTION SENSIBLE	HEATING CAPACITY	ADDITION RATE	ZONE	
NAME	(CFM)	(CFM)	(KW)	(FRAC)	(CFM)	(KBTU/HR)	(FRAC)	(KBTU/HR)	(KBTU/HR)	MULT	
Zn L15 N (G.NE8) AMN	199.	0.	0.000	1.000	0.	0.00	0.00	4.27	0.00	-7.07	1.

REPORT- SV-A System Design Parameters for

L15 Syst (PVVT) (G.NE9)

WEATHER FILE- SEATTLE BOEING FI WA

SYSTEM TYPE	ALTITUDE FACTOR	FLOOR AREA	MAX	OUTSIDE	COOLING	SENSIBLE	HEATING	COOLING	HEATING	HEAT PUMP	
		(SQFT)	PEOPLE	AIR	CAPACITY		CAPACITY	EIR	EIR	SUPP-HEAT	
				RATIO	(KBTU/HR)	(SHR)	(KBTU/HR)	(BTU/BTU)	(BTU/BTU)	(KBTU/HR)	
PVVT	1.000	1484.8	15.	0.000	21.000	0.874	-24.000	0.172	0.173	0.000	
FAN TYPE	CAPACITY (CFM)	DIVERSITY	POWER	FAN	STATIC	TOTAL	MECH	FAN	FAN	MAX FAN	MIN FAN
		FACTOR	DEMAND	DELTA-T	PRESSURE	EFF	EFF			RATIO	RATIO
		(FRAC)	(KW)	(F)	(IN-WATER)	(FRAC)	(FRAC)	PLACEMENT	CONTROL	(FRAC)	(FRAC)
SUPPLY	643.	1.00	0.121	0.58	0.0	0.50	0.00	DRAW-THRU	CYCLING	1.00	0.30
ZONE NAME		SUPPLY	EXHAUST	FAN	MINIMUM	OUTSIDE	COOLING	EXTRACTION	HEATING	ADDITION	
		FLOW	FLOW								FLOW
		(CFM)	(CFM)	(KW)	(FRAC)	(CFM)	(KBTU/HR)	(FRAC)	(KBTU/HR)	(KBTU/HR)	(KBTU/HR)
Zn L15 N (G.NE9) AMN		643.	0.	0.000	1.000	0.	0.00	0.00	13.75	0.00	-22.77

REPORT- SV-A System Design Parameters for L15 Sys1 (PVVT) (G.SSE12)								WEATHER FILE- SEATTLE BOEING FI WA			
SYSTEM	ALTITUDE	FLOOR	MAX	OUTSIDE	COOLING		HEATING	COOLING	HEATING	HEAT PUMP	
TYPE	FACTOR	AREA	PEOPLE	AIR	CAPACITY	SENSIBLE	CAPACITY	EIR	EIR	SUPP-HEAT	
		(SQFT)		RATIO	(KBTU/HR)	(SHR)	(KBTU/HR)	(BTU/BTU)	(BTU/BTU)	(KBTU/HR)	
PVVT	1.000	1375.0	14.	0.000	48.000	1.000	-54.000	0.173	0.173	0.000	
		DIVERSITY	POWER	FAN	STATIC	TOTAL	MECH				
FAN	CAPACITY	FACTOR	DEMAND	DELTA-T	PRESSURE	EFF	EFF	FAN	FAN	MAX FAN	MIN FAN
TYPE	(CFM)	(FRAC)	(KW)	(F)	(IN-WATER)	(FRAC)	(FRAC)	PLACEMENT	CONTROL	RATIO	RATIO
										(FRAC)	(FRAC)
SUPPLY	696.	1.00	0.132	0.58	0.0	0.50	0.00	DRAW-THRU	CYCLING	1.00	0.30
ZONE		SUPPLY	EXHAUST		MINIMUM	OUTSIDE	COOLING		EXTRACTION	HEATING	ADDITION
NAME		FLOW	FLOW	FAN	FLOW	AIR FLOW	CAPACITY	SENSIBLE	RATE	CAPACITY	RATE
		(CFM)	(CFM)	(KW)	(FRAC)	(CFM)	(KBTU/HR)	(FRAC)	(KBTU/HR)	(KBTU/HR)	(KBTU/HR)
Zn L15 S (G.SSE12) FIT		696.	0.	0.000	1.000	0.	0.00	0.00	14.89	0.00	-24.66

REPORT- SV-A System Design Parameters for L16 Sys1 (PVVT) (G.SW5)

WEATHER FILE- SEATTLE BOEING FI WA

SYSTEM		ALTITUDE	FLOOR	MAX	OUTSIDE	COOLING	SENSIBLE		HEATING	COOLING	HEATING	HEAT PUMP
TYPE		FACTOR	AREA	PEOPLE	AIR	CAPACITY	(SHR)		CAPACITY	EIR	EIR	SUPP-HEAT
			(SQFT)		RATIO	(KBTU/HR)			(KBTU/HR)	(BTU/BTU)	(BTU/BTU)	(KBTU/HR)
PVVT		1.000	1361.3	3.	0.000	18.000	0.860		-21.000	0.173	0.173	0.000
FAN	CAPACITY	DIVERSITY	POWER	FAN	STATIC	TOTAL	MECH				MAX FAN	MIN FAN
TYPE	(CFM)	FACTOR	DEMAND	DELTA-T	PRESSURE	EFF	EFF	FAN	FAN		RATIO	RATIO
		(FRAC)	(KW)	(F)	(IN-WATER)	(FRAC)	(FRAC)	PLACEMENT	CONTROL		(FRAC)	(FRAC)
SUPPLY		572.	1.00	0.108	0.58	0.0	0.50	0.00	DRAW-THRU	CYCLING	1.00	0.30
ZONE			SUPPLY	EXHAUST		MINIMUM	OUTSIDE	COOLING		EXTRACTION	HEATING	ADDITION
NAME			FLOW	FLOW	FAN	FLOW	AIR FLOW	CAPACITY	SENSIBLE	RATE	CAPACITY	RATE
			(CFM)	(CFM)	(KW)	(FRAC)	(CFM)	(KBTU/HR)	(FRAC)	(KBTU/HR)	(KBTU/HR)	(KBTU/HR)
Zn L16 S (G.SW5) APT1			572.	82.	0.016	1.000	0.	0.00	0.00	12.23	0.00	-20.26
												1.

REPORT- SV-A System Design Parameters for L16 Sys1 (PVVT) (G.W6)

WEATHER FILE- SEATTLE BOEING FI WA

SYSTEM		ALTITUDE	FLOOR AREA	MAX	OUTSIDE	COOLING	HEATING		COOLING	HEATING	HEAT PUMP		
TYPE		FACTOR	(SQFT)	PEOPLE	AIR RATIO	CAPACITY (KBTU/HR)	SENSIBLE (SHR)	CAPACITY (KBTU/HR)	(BTU/BTU)	EIR (BTU/BTU)	SUPP-HEAT (KBTU/HR)		
PVVT		1.000	640.8	1.	0.000	9.000	0.870	-9.000	0.173	0.173	0.000		
FAN		CAPACITY	DIVERSITY	POWER	FAN	STATIC	TOTAL	MECH			MAX FAN	MIN FAN	
TYPE		(CFM)	FACTOR (FRAC)	DEMAND (KW)	DELTA-T (F)	PRESSURE (IN-WATER)	EFF (FRAC)	EFF (FRAC)	FAN PLACEMENT	FAN CONTROL	RATIO (FRAC)	RATIO (FRAC)	
SUPPLY		270.	1.00	0.051	0.58	0.0	0.50	0.00	DRAW-THRU	CYCLING	1.00	0.30	
ZONE			SUPPLY	EXHAUST		MINIMUM	OUTSIDE	COOLING	EXTRACTION		HEATING	ADDITION	
NAME			FLOW (CFM)	FLOW (CFM)	FAN (KW)	FLOW (FRAC)	AIR FLOW (CFM)	CAPACITY (KBTU/HR)	SENSIBLE (FRAC)	RATE (KBTU/HR)	CAPACITY (KBTU/HR)	RATE (KBTU/HR)	ZONE MULT
Zn L16 W (G.W6) APT1			270.	39.	0.008	1.000	0.	0.00	0.00	5.79	0.00	-9.58	1.

REPORT- SV-A System Design Parameters for L16 Sys1 (PVVT) (G.NW7)

WEATHER FILE- SEATTLE BOEING FI WA

SYSTEM		ALTITUDE	FLOOR AREA	MAX	OUTSIDE	COOLING	HEATING		COOLING	HEATING	HEAT PUMP		
TYPE		FACTOR	(SQFT)	PEOPLE	AIR RATIO	CAPACITY (KBTU/HR)	SENSIBLE (SHR)	CAPACITY (KBTU/HR)	(BTU/BTU)	EIR (BTU/BTU)	SUPP-HEAT (KBTU/HR)		
PVVT		1.000	939.7	2.	0.000	12.000	0.845	-12.000	0.173	0.173	0.000		
FAN		CAPACITY	DIVERSITY	POWER	FAN	STATIC	TOTAL	MECH			MAX FAN	MIN FAN	
TYPE		(CFM)	FACTOR (FRAC)	DEMAND (KW)	DELTA-T (F)	PRESSURE (IN-WATER)	EFF (FRAC)	EFF (FRAC)	FAN PLACEMENT	FAN CONTROL	RATIO (FRAC)	RATIO (FRAC)	
SUPPLY		420.	1.00	0.079	0.58	0.0	0.50	0.00	DRAW-THRU	CYCLING	1.00	0.30	
ZONE			SUPPLY	EXHAUST		MINIMUM	OUTSIDE	COOLING	EXTRACTION		HEATING	ADDITION	
NAME			FLOW (CFM)	FLOW (CFM)	FAN (KW)	FLOW (FRAC)	AIR FLOW (CFM)	CAPACITY (KBTU/HR)	SENSIBLE (FRAC)	RATE (KBTU/HR)	CAPACITY (KBTU/HR)	RATE (KBTU/HR)	ZONE MULT
Zn L16 N (G.NW7) APT1			420.	56.	0.011	1.000	0.	0.00	0.00	8.99	0.00	-14.90	1.

REPORT- SV-A System Design Parameters for L16 Sys1 (PVVT) (G.NE8)

WEATHER FILE- SEATTLE BOEING FI WA

SYSTEM		ALTITUDE	FLOOR AREA	MAX	OUTSIDE	COOLING	HEATING		COOLING	HEATING	HEAT PUMP		
TYPE		FACTOR	(SQFT)	PEOPLE	AIR RATIO	CAPACITY (KBTU/HR)	SENSIBLE (SHR)	CAPACITY (KBTU/HR)	(BTU/BTU)	EIR (BTU/BTU)	SUPP-HEAT (KBTU/HR)		
PVVT		1.000	676.2	1.	0.000	6.000	0.857	-6.700	0.173	0.173	0.000		
FAN		CAPACITY	DIVERSITY	POWER	FAN	STATIC	TOTAL	MECH			MAX FAN	MIN FAN	
TYPE		(CFM)	FACTOR (FRAC)	DEMAND (KW)	DELTA-T (F)	PRESSURE (IN-WATER)	EFF (FRAC)	EFF (FRAC)	FAN PLACEMENT	FAN CONTROL	RATIO (FRAC)	RATIO (FRAC)	
SUPPLY		179.	1.00	0.034	0.58	0.0	0.50	0.00	DRAW-THRU	CYCLING	1.00	0.30	
ZONE			SUPPLY	EXHAUST		MINIMUM	OUTSIDE	COOLING	EXTRACTION		HEATING	ADDITION	
NAME			FLOW (CFM)	FLOW (CFM)	FAN (KW)	FLOW (FRAC)	AIR FLOW (CFM)	CAPACITY (KBTU/HR)	SENSIBLE (FRAC)	RATE (KBTU/HR)	CAPACITY (KBTU/HR)	RATE (KBTU/HR)	ZONE MULT
Zn L16 N (G.NE8) APT1			179.	41.	0.008	1.000	0.	0.00	0.00	3.82	0.00	-6.33	1.

REPORT- SV-A System Design Parameters for L16 Sys1 (PVVT) (G.NNE9)

WEATHER FILE- SEATTLE BOEING FI WA

SYSTEM		ALTITUDE	FLOOR AREA	MAX	OUTSIDE	COOLING	HEATING		COOLING	HEATING	HEAT PUMP		
TYPE		FACTOR	(SQFT)	PEOPLE	AIR RATIO	CAPACITY (KBTU/HR)	SENSIBLE (SHR)	CAPACITY (KBTU/HR)	(BTU/BTU)	EIR (BTU/BTU)	SUPP-HEAT (KBTU/HR)		
PVVT		1.000	1195.4	2.	0.000	12.000	0.845	-15.000	0.173	0.173	0.000		
FAN		CAPACITY	DIVERSITY	POWER	FAN	STATIC	TOTAL	MECH			MAX FAN	MIN FAN	
TYPE		(CFM)	FACTOR (FRAC)	DEMAND (KW)	DELTA-T (F)	PRESSURE (IN-WATER)	EFF (FRAC)	EFF (FRAC)	FAN PLACEMENT	FAN CONTROL	RATIO (FRAC)	RATIO (FRAC)	
SUPPLY		401.	1.00	0.076	0.58	0.0	0.50	0.00	DRAW-THRU	CYCLING	1.00	0.30	
ZONE		SUPPLY		EXHAUST	MINIMUM		OUTSIDE	COOLING	EXTRACTION		HEATING	ADDITION	
NAME		FLOW (CFM)		FLOW (CFM)	FAN (KW)	FLOW (FRAC)	AIR FLOW (CFM)	CAPACITY (KBTU/HR)	SENSIBLE (FRAC)	RATE (KBTU/HR)	CAPACITY (KBTU/HR)	RATE (KBTU/HR)	ZONE MULT
Zn L16 N (G.NNE9) APT1		401.		72.	0.014	1.000	0.	0.00	0.00	8.58	0.00	-14.21	1.

REPORT- SV-A System Design Parameters for L16 Sys1 (PVVT) (G.S12)

WEATHER FILE- SEATTLE BOEING FI WA

SYSTEM		ALTITUDE	FLOOR AREA	MAX	OUTSIDE	COOLING	HEATING		COOLING	HEATING	HEAT PUMP		
TYPE		FACTOR	(SQFT)	PEOPLE	AIR RATIO	CAPACITY (KBTU/HR)	SENSIBLE (SHR)	CAPACITY (KBTU/HR)	(BTU/BTU)	EIR (BTU/BTU)	SUPP-HEAT (KBTU/HR)		
PVVT		1.000	766.1	1.	0.000	9.000	0.911	-9.000	0.173	0.173	0.000		
FAN		CAPACITY	DIVERSITY	POWER	FAN	STATIC	TOTAL	MECH			MAX FAN	MIN FAN	
TYPE		(CFM)	FACTOR (FRAC)	DEMAND (KW)	DELTA-T (F)	PRESSURE (IN-WATER)	EFF (FRAC)	EFF (FRAC)	FAN PLACEMENT	FAN CONTROL	RATIO (FRAC)	RATIO (FRAC)	
SUPPLY		234.	1.00	0.044	0.58	0.0	0.50	0.00	DRAW-THRU	CYCLING	1.00	0.30	
ZONE			SUPPLY	EXHAUST		MINIMUM	OUTSIDE	COOLING	EXTRACTION		HEATING	ADDITION	
NAME			FLOW (CFM)	FLOW (CFM)	FAN (KW)	FLOW (FRAC)	AIR FLOW (CFM)	CAPACITY (KBTU/HR)	SENSIBLE (FRAC)	RATE (KBTU/HR)	CAPACITY (KBTU/HR)	RATE (KBTU/HR)	ZONE MULT
Zn L16 S (G.S12) APT1			234.	46.	0.009	1.000	0.	0.00	0.00	5.02	0.00	-8.31	1.

REPORT- SV-A System Design Parameters for L16 Sys1 (PVVT) (G.SE13)

WEATHER FILE- SEATTLE BOEING FI WA

SYSTEM		ALTITUDE	FLOOR AREA	MAX	OUTSIDE	COOLING	HEATING		COOLING	HEATING	HEAT PUMP		
TYPE		FACTOR	(SQFT)	PEOPLE	AIR RATIO	CAPACITY (KBTU/HR)	SENSIBLE (SHR)	CAPACITY (KBTU/HR)	(BTU/BTU)	EIR (BTU/BTU)	SUPP-HEAT (KBTU/HR)		
PVVT		1.000	898.6	2.	0.000	12.000	0.897	-12.000	0.173	0.173	0.000		
FAN		CAPACITY	DIVERSITY	POWER	FAN	STATIC	TOTAL	MECH			MAX FAN	MIN FAN	
TYPE		(CFM)	FACTOR (FRAC)	DEMAND (KW)	DELTA-T (F)	PRESSURE (IN-WATER)	EFF (FRAC)	EFF (FRAC)	FAN PLACEMENT	FAN CONTROL	RATIO (FRAC)	RATIO (FRAC)	
SUPPLY		337.	1.00	0.064	0.58	0.0	0.50	0.00	DRAW-THRU	CYCLING	1.00	0.30	
ZONE			SUPPLY	EXHAUST		MINIMUM	OUTSIDE	COOLING	EXTRACTION		HEATING	ADDITION	
NAME			FLOW (CFM)	FLOW (CFM)	FAN (KW)	FLOW (FRAC)	AIR FLOW (CFM)	CAPACITY (KBTU/HR)	SENSIBLE (FRAC)	RATE (KBTU/HR)	CAPACITY (KBTU/HR)	RATE (KBTU/HR)	ZONE MULT
Zn L16 S (G.SE13) APT1			337.	54.	0.011	1.000	0.	0.00	0.00	7.22	0.00	-11.95	1.

REPORT- SV-A System Design Parameters for L16 Sys1 (PVVT) (G.ENE14)

WEATHER FILE- SEATTLE BOEING FI WA

SYSTEM		ALTITUDE	FLOOR AREA	MAX	OUTSIDE	COOLING	HEATING		COOLING	HEATING	HEAT PUMP		
TYPE		FACTOR	(SQFT)	PEOPLE	AIR RATIO	CAPACITY (KBTU/HR)	SENSIBLE (SHR)	CAPACITY (KBTU/HR)	(BTU/BTU)	EIR (BTU/BTU)	SUPP-HEAT (KBTU/HR)		
PVVT		1.000	452.6	1.	0.000	6.000	0.850	-6.700	0.173	0.173	0.000		
FAN		CAPACITY	DIVERSITY	POWER	FAN	STATIC	TOTAL	MECH			MAX FAN	MIN FAN	
TYPE		(CFM)	FACTOR (FRAC)	DEMAND (KW)	DELTA-T (F)	PRESSURE (IN-WATER)	EFF (FRAC)	EFF (FRAC)	FAN PLACEMENT	FAN CONTROL	RATIO (FRAC)	RATIO (FRAC)	
SUPPLY		216.	1.00	0.041	0.58	0.0	0.50	0.00	DRAW-THRU	CYCLING	1.00	0.30	
ZONE		SUPPLY		EXHAUST	MINIMUM		OUTSIDE	COOLING	EXTRACTION		HEATING	ADDITION	
NAME		FLOW (CFM)		FLOW (CFM)	FAN (KW)	FLOW (FRAC)	AIR FLOW (CFM)	CAPACITY (KBTU/HR)	SENSIBLE (FRAC)	RATE (KBTU/HR)	CAPACITY (KBTU/HR)	RATE (KBTU/HR)	ZONE MULT
Zn L16 E (G.ENE14) APT1		216.		27.	0.005	1.000	0.	0.00	0.00	4.61	0.00	-7.64	1.

REPORT- SV-A System Design Parameters for L17 Sys1 (PVVT) (M.SW20)

WEATHER FILE- SEATTLE BOEING FI WA

SYSTEM		ALTITUDE	FLOOR AREA	MAX	OUTSIDE	COOLING	HEATING		COOLING	HEATING	HEAT PUMP		
TYPE		FACTOR	(SQFT)	PEOPLE	AIR RATIO	CAPACITY (KBTU/HR)	SENSIBLE (SHR)	CAPACITY (KBTU/HR)	(BTU/BTU)	EIR (BTU/BTU)	SUPP-HEAT (KBTU/HR)		
PVVT		1.000	13613.1	26.	0.000	195.000	0.864	-219.000	0.166	0.169	0.000		
FAN		CAPACITY	DIVERSITY	POWER	FAN	STATIC	TOTAL	MECH			MAX FAN	MIN FAN	
TYPE		(CFM)	FACTOR (FRAC)	DEMAND (KW)	DELTA-T (F)	PRESSURE (IN-WATER)	EFF (FRAC)	EFF (FRAC)	FAN PLACEMENT	FAN CONTROL	RATIO (FRAC)	RATIO (FRAC)	
SUPPLY		6084.	1.00	1.150	0.58	0.0	0.50	0.00	DRAW-THRU	CYCLING	1.00	0.30	
ZONE		SUPPLY		EXHAUST	MINIMUM		OUTSIDE	COOLING	EXTRACTION		HEATING	ADDITION	
NAME		FLOW (CFM)		FLOW (CFM)	FAN (KW)	FLOW (FRAC)	AIR FLOW (CFM)	CAPACITY (KBTU/HR)	SENSIBLE (FRAC)	RATE (KBTU/HR)	CAPACITY (KBTU/HR)	RATE (KBTU/HR)	ZONE MULT
Zn L17 S (M.SW20) APT1		608.		82.	0.016	1.000	0.	0.00	0.00	13.02	0.00	-21.56	10.

REPORT- SV-A System Design Parameters for

L17 Syst (PVVT) (M.W21)

WEATHER FILE- SEATTLE BOEING FI WA

SYSTEM TYPE	ALTITUDE FACTOR	FLOOR AREA (SQFT)	MAX PEOPLE	OUTSIDE AIR RATIO	COOLING CAPACITY (KBTU/HR)	SENSIBLE (SHR)	HEATING CAPACITY (KBTU/HR)	COOLING EIR (BTU/BTU)	HEATING EIR (BTU/BTU)	HEAT PUMP SUPP-HEAT (KBTU/HR)			
PVVT	1.000	6408.2	12.	0.000	84.000	0.846	-96.000	0.170	0.171	0.000			
FAN TYPE	CAPACITY (CFM)	DIVERSITY FACTOR (FRAC)	POWER DEMAND (KW)	FAN DELTA-T (F)	STATIC PRESSURE (IN-WATER)	TOTAL EFF (FRAC)	MECH EFF (FRAC)	FAN PLACEMENT	FAN CONTROL	MAX FAN RATIO (FRAC)	MIN FAN RATIO (FRAC)		
SUPPLY	2928.	1.00	0.553	0.58	0.0	0.50	0.00	DRAW-THRU	CYCLING	1.00	0.30		
ZONE NAME	SUPPLY FLOW (CFM)		EXHAUST FLOW (CFM)		FAN (KW)	MINIMUM FLOW (FRAC)	OUTSIDE AIR FLOW (CFM)	COOLING CAPACITY (KBTU/HR)	SENSIBLE (FRAC)	EXTRACTION RATE (KBTU/HR)	HEATING CAPACITY (KBTU/HR)	ADDITION RATE (KBTU/HR)	ZONE MULT
Zn L17 W (M.W21) APT1	293.		39.		0.008	1.000	0.	0.00	0.00	6.26	0.00	-10.38	10.

REPORT- SV-A System Design Parameters for L17 Sys1 (PVVT) (M.NW22)								WEATHER FILE- SEATTLE BOEING FI WA			
SYSTEM	ALTITUDE	FLOOR	MAX	OUTSIDE	COOLING	SENSIBLE	HEATING	COOLING	HEATING	HEAT PUMP	
TYPE	FACTOR	AREA	PEOPLE	AIR	CAPACITY	(SHR)	CAPACITY	EIR	EIR	SUPP-HEAT	
		(SQFT)		RATIO	(KBTU/HR)		(KBTU/HR)	(BTU/BTU)	(BTU/BTU)	(KBTU/HR)	
PVVT	1.000	9397.0	18.	0.000	126.000	0.840	-141.000	0.168	0.170	0.000	
		DIVERSITY	POWER	FAN	STATIC	TOTAL	MECH		MAX FAN	MIN FAN	
FAN	CAPACITY	FACTOR	DEMAND	DELTA-T	PRESSURE	EFF	EFF	FAN	FAN	RATIO	RATIO
TYPE	(CFM)	(FRAC)	(KW)	(F)	(IN-WATER)	(FRAC)	(FRAC)	PLACEMENT	CONTROL	(FRAC)	(FRAC)
SUPPLY	4593.	1.00	0.868	0.58	0.0	0.50	0.00	DRAW-THRU	CYCLING	1.00	0.30
ZONE		SUPPLY	EXHAUST		MINIMUM	OUTSIDE	COOLING		EXTRACTION	HEATING	ADDITION
NAME		FLOW	FLOW	FAN	FLOW	AIR FLOW	CAPACITY	SENSIBLE	RATE	CAPACITY	RATE
		(CFM)	(CFM)	(KW)	(FRAC)	(CFM)	(KBTU/HR)	(FRAC)	(KBTU/HR)	(KBTU/HR)	(KBTU/HR)
Zn L17 N (M.NW22) APT1		459.	56.	0.011	1.000	0.	0.00	0.00	9.83	0.00	-16.28
											10.

REPORT- SV-A System Design Parameters for L17 Sys1 (PVVT) (M.NE23)

WEATHER FILE- SEATTLE BOEING FI WA

SYSTEM		ALTITUDE	FLOOR AREA	MAX	OUTSIDE	COOLING	HEATING		COOLING	HEATING	HEAT PUMP		
TYPE		FACTOR	(SQFT)	PEOPLE	AIR RATIO	CAPACITY (KBTU/HR)	SENSIBLE (SHR)	CAPACITY (KBTU/HR)	(BTU/BTU)	EIR (BTU/BTU)	SUPP-HEAT (KBTU/HR)		
PVVT		1.000	6761.5	13.	0.000	66.000	0.851	-72.000	0.171	0.172	0.000		
FAN		CAPACITY	DIVERSITY	POWER	FAN	STATIC	TOTAL	MECH			MAX FAN	MIN FAN	
TYPE		(CFM)	FACTOR (FRAC)	DEMAND (KW)	DELTA-T (F)	PRESSURE (IN-WATER)	EFF (FRAC)	EFF (FRAC)	FAN PLACEMENT	FAN CONTROL	RATIO (FRAC)	RATIO (FRAC)	
SUPPLY		2094.	1.00	0.396	0.58	0.0	0.50	0.00	DRAW-THRU	CYCLING	1.00	0.30	
ZONE		SUPPLY		EXHAUST	MINIMUM		OUTSIDE	COOLING	EXTRACTION		HEATING	ADDITION	
NAME		FLOW (CFM)		FLOW (CFM)	FAN (KW)	FLOW (FRAC)	AIR FLOW (CFM)	CAPACITY (KBTU/HR)	SENSIBLE (FRAC)	RATE (KBTU/HR)	CAPACITY (KBTU/HR)	RATE (KBTU/HR)	ZONE MULT
Zn L17 N (M.NE23) APT1		209.		41.	0.008	1.000	0.	0.00	0.00	4.48	0.00	-7.42	10.

REPORT- SV-A System Design Parameters for

L17 Syst (PVVT) (M.NNE24)

WEATHER FILE- SEATTLE BOEING FI WA

SYSTEM TYPE	ALTITUDE FACTOR	FLOOR AREA (SQFT)	MAX PEOPLE	OUTSIDE AIR RATIO	COOLING CAPACITY (KBTU/HR)	SENSIBLE (SHR)	HEATING CAPACITY (KBTU/HR)	COOLING EIR (BTU/BTU)	HEATING EIR (BTU/BTU)	HEAT PUMP SUPP-HEAT (KBTU/HR)		
PVVT	1.000	11953.6	22.	0.000	153.000	0.868	-171.000	0.167	0.170	0.000		
FAN TYPE	CAPACITY (CFM)	DIVERSITY FACTOR (FRAC)	POWER DEMAND (KW)	FAN DELTA-T (F)	STATIC PRESSURE (IN-WATER)	TOTAL EFF (FRAC)	MECH EFF (FRAC)	FAN PLACEMENT	FAN CONTROL	MAX FAN RATIO (FRAC)	MIN FAN RATIO (FRAC)	
SUPPLY	4903.	1.00	0.927	0.58	0.0	0.50	0.00	DRAW-THRU	CYCLING	1.00	0.30	
ZONE NAME		SUPPLY FLOW (CFM)	EXHAUST FLOW (CFM)	FAN (KW)	MINIMUM FLOW (FRAC)	OUTSIDE AIR FLOW (CFM)	COOLING CAPACITY (KBTU/HR)	SENSIBLE (FRAC)	EXTRACTION RATE (KBTU/HR)	HEATING CAPACITY (KBTU/HR)	ADDITION RATE (KBTU/HR)	ZONE MULT
Zn L17 N (M.NNE24) APT1		490.	72.	0.014	1.000	0.	0.00	0.00	10.49	0.00	-17.37	10.

REPORT- SV-A System Design Parameters for L17 Sys1 (PVVT) (M.S27)

WEATHER FILE- SEATTLE BOEING FI WA

SYSTEM		ALTITUDE	FLOOR AREA	MAX	OUTSIDE	COOLING	SENSIBLE		HEATING	COOLING	HEATING	HEAT PUMP	
TYPE		FACTOR	(SQFT)	PEOPLE	AIR RATIO	CAPACITY (KBTU/HR)	(SHR)		CAPACITY (KBTU/HR)	EIR (BTU/BTU)	EIR (BTU/BTU)	SUPP-HEAT (KBTU/HR)	
PVVT		1.000	7661.5	14.	0.000	81.000	0.875		-93.000	0.170	0.172	0.000	
FAN		CAPACITY	DIVERSITY	POWER	FAN	STATIC	TOTAL	MECH			MAX FAN	MIN FAN	
TYPE		(CFM)	FACTOR (FRAC)	DEMAND (KW)	DELTA-T (F)	PRESSURE (IN-WATER)	EFF (FRAC)	EFF (FRAC)	FAN PLACEMENT	FAN CONTROL	RATIO (FRAC)	RATIO (FRAC)	
SUPPLY		2542.	1.00	0.480	0.58	0.0	0.50	0.00	DRAW-THRU	CYCLING	1.00	0.30	
ZONE			SUPPLY	EXHAUST		MINIMUM	OUTSIDE	COOLING	EXTRACTION		HEATING	ADDITION	
NAME			FLOW (CFM)	FLOW (CFM)	FAN (KW)	FLOW (FRAC)	AIR FLOW (CFM)	CAPACITY (KBTU/HR)	SENSIBLE (FRAC)	RATE (KBTU/HR)	CAPACITY (KBTU/HR)	RATE (KBTU/HR)	ZONE MULT
Zn L17 S (M.S27) APT1			254.	46.	0.009	1.000	0.	0.00	0.00	5.44	0.00	-9.01	10.

REPORT- SV-A System Design Parameters for L17 Sys1 (PVVT) (M.SE28)

WEATHER FILE- SEATTLE BOEING FI WA

SYSTEM		ALTITUDE	FLOOR AREA	MAX	OUTSIDE	COOLING	SENSIBLE		HEATING	COOLING	HEATING	HEAT PUMP	
TYPE		FACTOR	(SQFT)	PEOPLE	AIR RATIO	CAPACITY (KBTU/HR)	(SHR)		CAPACITY (KBTU/HR)	EIR (BTU/BTU)	EIR (BTU/BTU)	SUPP-HEAT (KBTU/HR)	
PVVT		1.000	8986.5	17.	0.000	126.000	0.892		-141.000	0.168	0.170	0.000	
FAN		CAPACITY	DIVERSITY	POWER	FAN	STATIC	TOTAL	MECH			MAX FAN	MIN FAN	
TYPE		(CFM)	FACTOR (FRAC)	DEMAND (KW)	DELTA-T (F)	PRESSURE (IN-WATER)	EFF (FRAC)	EFF (FRAC)	FAN PLACEMENT	FAN CONTROL	RATIO (FRAC)	RATIO (FRAC)	
SUPPLY		3639.	1.00	0.688	0.58	0.0	0.50	0.00	DRAW-THRU	CYCLING	1.00	0.30	
ZONE		SUPPLY		EXHAUST	MINIMUM		OUTSIDE	COOLING	EXTRACTION		HEATING	ADDITION	
NAME		FLOW (CFM)		FLOW (CFM)	FAN (KW)	FLOW (FRAC)	AIR FLOW (CFM)	CAPACITY (KBTU/HR)	SENSIBLE (FRAC)	RATE (KBTU/HR)	CAPACITY (KBTU/HR)	RATE (KBTU/HR)	ZONE MULT
Zn L17 S (M.SE28) APT1		364.		54.	0.011	1.000	0.	0.00	0.00	7.79	0.00	-12.89	10.

REPORT- SV-A System Design Parameters for L17 Sys1 (PVVT) (M.ENE29)								WEATHER FILE- SEATTLE BOEING FI WA			
SYSTEM	ALTITUDE	FLOOR	MAX	OUTSIDE	COOLING	SENSIBLE	HEATING	COOLING	HEATING	HEAT PUMP	
TYPE	FACTOR	AREA	PEOPLE	AIR	CAPACITY	(SHR)	CAPACITY	EIR	EIR	SUPP-HEAT	
		(SQFT)		RATIO	(KBTU/HR)		(KBTU/HR)	(BTU/BTU)	(BTU/BTU)	(KBTU/HR)	
PVVT	1.000	4525.5	8.	0.000	72.000	0.860	-81.000	0.170	0.172	0.000	
FAN	CAPACITY	DIVERSITY	POWER	FAN	STATIC	TOTAL	MECH				
TYPE	(CFM)	FACTOR	DEMAND	DELTA-T	PRESSURE	EFF	EFF	FAN	FAN	MAX FAN	
		(FRAC)	(KW)	(F)	(IN-WATER)	(FRAC)	(FRAC)	PLACEMENT	CONTROL	RATIO	
										RATIO	
SUPPLY	2447.	1.00	0.462	0.58	0.0	0.50	0.00	DRAW-THRU	CYCLING	1.00	
										0.30	
ZONE			SUPPLY	EXHAUST		MINIMUM	OUTSIDE	COOLING	EXTRACTION	HEATING	ADDITION
NAME			FLOW	FLOW	FAN	FLOW	AIR FLOW	CAPACITY	SENSIBLE	RATE	CAPACITY
			(CFM)	(CFM)	(KW)	(FRAC)	(CFM)	(KBTU/HR)	(FRAC)	(KBTU/HR)	(KBTU/HR)
											(KBTU/HR)
Zn L17 E (M.ENE29) APT1			245.	27.	0.005	1.000	0.	0.00	0.00	5.23	0.00
											-8.67
											10.

REPORT- SV-A System Design Parameters for L27 Sys1 (PVVT) (T.SW35)								WEATHER FILE- SEATTLE BOEING FI WA			
SYSTEM	ALTITUDE	FLOOR	MAX	OUTSIDE	COOLING	SENSIBLE	HEATING	COOLING	HEATING	HEAT PUMP	
TYPE	FACTOR	AREA	PEOPLE	AIR	CAPACITY	(SHR)	CAPACITY	EIR	EIR	SUPP-HEAT	
		(SQFT)		RATIO	(KBTU/HR)		(KBTU/HR)	(BTU/BTU)	(BTU/BTU)	(KBTU/HR)	
PVVT	1.000	1361.3	3.	0.000	21.000	0.877	-24.000	0.172	0.173	0.000	
		DIVERSITY	POWER	FAN	STATIC	TOTAL	MECH		MAX FAN	MIN FAN	
FAN	CAPACITY	FACTOR	DEMAND	DELTA-T	PRESSURE	EFF	EFF	FAN	FAN	RATIO	RATIO
TYPE	(CFM)	(FRAC)	(KW)	(F)	(IN-WATER)	(FRAC)	(FRAC)	PLACEMENT	CONTROL	(FRAC)	(FRAC)
SUPPLY	633.	1.00	0.120	0.58	0.0	0.50	0.00	DRAW-THRU	CYCLING	1.00	0.30
			SUPPLY	EXHAUST		MINIMUM	OUTSIDE	COOLING	EXTRACTION	HEATING	ADDITION
ZONE			FLOW	FLOW	FAN	FLOW	AIR FLOW	CAPACITY	SENSIBLE	RATE	CAPACITY
NAME			(CFM)	(CFM)	(KW)	(FRAC)	(CFM)	(KBTU/HR)	(FRAC)	(KBTU/HR)	(KBTU/HR)
											(KBTU/HR)
Zn L27 S (T.SW35) APT1		633.	82.	0.016	1.000	0.	0.00	0.00	13.54	0.00	-22.42

REPORT- SV-A System Design Parameters for L27 Sys1 (PVVT) (T.W36)

WEATHER FILE- SEATTLE BOEING FI WA

SYSTEM		ALTITUDE	FLOOR AREA	MAX	OUTSIDE	COOLING	HEATING		COOLING	HEATING	HEAT PUMP		
TYPE		FACTOR	(SQFT)	PEOPLE	AIR RATIO	CAPACITY (KBTU/HR)	SENSIBLE (SHR)	CAPACITY (KBTU/HR)	(BTU/BTU)	EIR (BTU/BTU)	SUPP-HEAT (KBTU/HR)		
PVVT		1.000	640.8	1.	0.000	9.000	0.853	-9.000	0.173	0.173	0.000		
FAN		CAPACITY	DIVERSITY	POWER	FAN	STATIC	TOTAL	MECH			MAX FAN	MIN FAN	
TYPE		(CFM)	FACTOR (FRAC)	DEMAND (KW)	DELTA-T (F)	PRESSURE (IN-WATER)	EFF (FRAC)	EFF (FRAC)	FAN PLACEMENT	FAN CONTROL	RATIO (FRAC)	RATIO (FRAC)	
SUPPLY		314.	1.00	0.059	0.58	0.0	0.50	0.00	DRAW-THRU	CYCLING	1.00	0.30	
ZONE			SUPPLY	EXHAUST		MINIMUM	OUTSIDE	COOLING	EXTRACTION		HEATING	ADDITION	
NAME			FLOW (CFM)	FLOW (CFM)	FAN (KW)	FLOW (FRAC)	AIR FLOW (CFM)	CAPACITY (KBTU/HR)	SENSIBLE (FRAC)	RATE (KBTU/HR)	CAPACITY (KBTU/HR)	RATE (KBTU/HR)	ZONE MULT
Zn L27 W (T.W36) APT1			314.	39.	0.008	1.000	0.	0.00	0.00	6.71	0.00	-11.11	1.

REPORT- SV-A System Design Parameters for L27 Sys1 (PVVT) (T.NW37)

WEATHER FILE- SEATTLE BOEING FI WA

SYSTEM TYPE	ALTITUDE FACTOR	FLOOR	MAX	OUTSIDE	COOLING	SENSIBLE	HEATING	COOLING	HEATING	HEAT PUMP
		AREA		AIR	CAPACITY		CAPACITY	EIR	EIR	SUPP-HEAT
		(SQFT)	PEOPLE	RATIO	(KBTU/HR)	(SHR)	(KBTU/HR)	(BTU/BTU)	(BTU/BTU)	(KBTU/HR)
PVVT	1.000	939.7	2.	0.000	15.000	0.857	-15.000	0.173	0.173	0.000

		DIVERSITY	POWER	FAN	STATIC	TOTAL	MECH			MAX FAN	MIN FAN
FAN	CAPACITY	FACTOR	DEMAND	DELTA-T	PRESSURE	EFF	EFF	FAN	FAN	RATIO	RATIO
TYPE	(CFM)	(FRAC)	(KW)	(F)	(IN-WATER)	(FRAC)	(FRAC)	PLACEMENT	CONTROL	(FRAC)	(FRAC)
SUPPLY	498.	1.00	0.094	0.58	0.0	0.50	0.00	DRAW-THRU	CYCLING	1.00	0.30

ZONE	SUPPLY FLOW	EXHAUST FLOW	FAN	MINIMUM FLOW	OUTSIDE AIR FLOW	COOLING CAPACITY	EXTRACTION SENSIBLE	HEATING CAPACITY	ADDITION RATE	ZONE	
NAME	(CFM)	(CFM)	(KW)	(FRAC)	(CFM)	(KBTU/HR)	(FRAC)	(KBTU/HR)	(KBTU/HR)	MULT	
Zn L27 N (T.NW37) APT1	498.	56.	0.011	1.000	0.	0.00	0.00	10.65	0.00	-17.64	1.

REPORT- SV-A System Design Parameters for L27 Sys1 (PVVT) (T.NE38)

WEATHER FILE- SEATTLE BOEING FI WA

SYSTEM TYPE	ALTITUDE FACTOR	FLOOR	MAX	OUTSIDE	COOLING	SENSIBLE	HEATING	COOLING	HEATING	HEAT PUMP
		AREA		AIR	CAPACITY		CAPACITY	EIR	EIR	SUPP-HEAT
		(SQFT)	PEOPLE	RATIO	(KBTU/HR)	(SHR)	(KBTU/HR)	(BTU/BTU)	(BTU/BTU)	(KBTU/HR)
PVVT	1.000	676.2	1.	0.000	6.000	0.847	-6.700	0.173	0.173	0.000

		DIVERSITY	POWER	FAN	STATIC	TOTAL	MECH			MAX FAN	MIN FAN
FAN	CAPACITY	FACTOR	DEMAND	DELTA-T	PRESSURE	EFF	EFF	FAN	FAN	RATIO	RATIO
TYPE	(CFM)	(FRAC)	(KW)	(F)	(IN-WATER)	(FRAC)	(FRAC)	PLACEMENT	CONTROL	(FRAC)	(FRAC)
SUPPLY	193.	1.00	0.036	0.58	0.0	0.50	0.00	DRAW-THRU	CYCLING	1.00	0.30

ZONE	SUPPLY FLOW	EXHAUST FLOW	FAN	MINIMUM FLOW	OUTSIDE AIR FLOW	COOLING CAPACITY	EXTRACTION SENSIBLE	HEATING CAPACITY	ADDITION RATE	ZONE	
NAME	(CFM)	(CFM)	(KW)	(FRAC)	(CFM)	(KBTU/HR)	(FRAC)	(KBTU/HR)	(KBTU/HR)	MULT	
Zn L27 N (T.NE38) APT1	193.	41.	0.008	1.000	0.	0.00	0.00	4.13	0.00	-6.84	1.

REPORT- SV-A System Design Parameters for L27 Sys1 (PVVT) (T.NNE39)								WEATHER FILE- SEATTLE BOEING FI WA			
SYSTEM TYPE	ALTITUDE FACTOR	FLOOR AREA	MAX PEOPLE	OUTSIDE	COOLING	SENSIBLE	HEATING	COOLING	HEATING	HEAT PUMP SUPP-HEAT	
		(SQFT)		AIR RATIO	CAPACITY (KBTU/HR)		CAPACITY (KBTU/HR)	EIR (BTU/BTU)	EIR (BTU/BTU)		
PVVT	1.000	1195.4	2.	0.000	12.000	0.838	-15.000	0.173	0.173	0.000	
FAN TYPE	CAPACITY (CFM)	DIVERSITY FACTOR	POWER DEMAND	FAN DELTA-T	STATIC PRESSURE	TOTAL EFF	MECH EFF	FAN PLACEMENT	FAN CONTROL	MAX FAN	MIN FAN
		(FRAC)	(KW)	(F)	(IN-WATER)	(FRAC)	(FRAC)			RATIO (FRAC)	RATIO (FRAC)
SUPPLY	421.	1.00	0.080	0.58	0.0	0.50	0.00	DRAW-THRU	CYCLING	1.00	0.30
ZONE NAME		SUPPLY FLOW	EXHAUST FLOW	FAN (KW)	MINIMUM FLOW	OUTSIDE AIR FLOW	COOLING CAPACITY	EXTRACTION SENSIBLE	HEATING RATE	ADDITION CAPACITY	
		(CFM)	(CFM)		(FRAC)	(CFM)	(KBTU/HR)		(FRAC)	(KBTU/HR)	
Zn L27 N (T.NNE39) APT1		421.	72.	0.014	1.000	0.	0.00	0.00	9.02	0.00	-14.94

REPORT- SV-A System Design Parameters for L27 Sys1 (PVVT) (T.S42)

WEATHER FILE- SEATTLE BOEING FI WA

SYSTEM		ALTITUDE	FLOOR AREA	MAX	OUTSIDE	COOLING	HEATING		COOLING	HEATING	HEAT PUMP		
TYPE		FACTOR	(SQFT)	PEOPLE	AIR RATIO	CAPACITY (KBTU/HR)	SENSIBLE (SHR)	CAPACITY (KBTU/HR)	(BTU/BTU)	EIR (BTU/BTU)	SUPP-HEAT (KBTU/HR)		
PVVT		1.000	766.1	1.	0.000	9.000	0.881	-9.000	0.173	0.173	0.000		
FAN		CAPACITY	DIVERSITY	POWER	FAN	STATIC	TOTAL	MECH			MAX FAN	MIN FAN	
TYPE		(CFM)	FACTOR (FRAC)	DEMAND (KW)	DELTA-T (F)	PRESSURE (IN-WATER)	EFF (FRAC)	EFF (FRAC)	FAN PLACEMENT	FAN CONTROL	RATIO (FRAC)	RATIO (FRAC)	
SUPPLY		274.	1.00	0.052	0.58	0.0	0.50	0.00	DRAW-THRU	CYCLING	1.00	0.30	
ZONE			SUPPLY	EXHAUST		MINIMUM	OUTSIDE	COOLING	EXTRACTION		HEATING	ADDITION	
NAME			FLOW (CFM)	FLOW (CFM)	FAN (KW)	FLOW (FRAC)	AIR FLOW (CFM)	CAPACITY (KBTU/HR)	SENSIBLE (FRAC)	RATE (KBTU/HR)	CAPACITY (KBTU/HR)	RATE (KBTU/HR)	ZONE MULT
Zn L27 S (T.S42) APT1			274.	46.	0.009	1.000	0.	0.00	0.00	5.87	0.00	-9.72	1.

REPORT- SV-A System Design Parameters for

L27 Syst (PVVT) (T.SE43)

WEATHER FILE- SEATTLE BOEING FI WA

SYSTEM TYPE	ALTITUDE FACTOR	FLOOR AREA	MAX PEOPLE	OUTSIDE	COOLING	SENSIBLE	HEATING	COOLING	HEATING	HEAT PUMP			
		(SQFT)		AIR	CAPACITY		CAPACITY	EIR	EIR	SUPP-HEAT			
				RATIO	(KBTU/HR)	(SHR)	(KBTU/HR)	(BTU/BTU)	(BTU/BTU)	(KBTU/HR)			
PVVT	1.000	898.6	2.	0.000	15.000	0.906	-15.000	0.173	0.173	0.000			
FAN TYPE	CAPACITY (CFM)	DIVERSITY	POWER	FAN	STATIC	TOTAL	MECH	FAN	FAN	MAX FAN	MIN FAN		
		FACTOR	DEMAND	DELTA-T	PRESSURE	EFF	EFF			RATIO	RATIO		
		(FRAC)	(KW)	(F)	(IN-WATER)	(FRAC)	(FRAC)	PLACEMENT	CONTROL	(FRAC)	(FRAC)		
SUPPLY	406.	1.00	0.077	0.58	0.0	0.50	0.00	DRAW-THRU	CYCLING	1.00	0.30		
ZONE NAME			SUPPLY	EXHAUST	FAN	MINIMUM	OUTSIDE	COOLING	EXTRACTION	HEATING	ADDITION		
			FLOW	FLOW		FLOW	AIR FLOW	CAPACITY		SENSIBLE	RATE	CAPACITY	RATE
			(CFM)	(CFM)	(KW)	(FRAC)	(CFM)	(KBTU/HR)	(FRAC)	(KBTU/HR)	(KBTU/HR)	(KBTU/HR)	MULT
Zn L27 S (T.SE43) APT1			406.	54.	0.011	1.000	0.	0.00	0.00	8.69	0.00	-14.39	1.

REPORT- SV-A System Design Parameters for L27 Sys1 (PVVT) (T.ENE44)								WEATHER FILE- SEATTLE BOEING FI WA					
SYSTEM	ALTITUDE	FLOOR	MAX	OUTSIDE	COOLING		HEATING	COOLING	HEATING	HEAT PUMP			
TYPE	FACTOR	AREA	PEOPLE	AIR	CAPACITY	SENSIBLE	CAPACITY	EIR	EIR	SUPP-HEAT			
		(SQFT)		RATIO	(KBTU/HR)	(SHR)	(KBTU/HR)	(BTU/BTU)	(BTU/BTU)	(KBTU/HR)			
PVVT	1.000	452.6	1.	0.000	9.000	0.881	-9.000	0.173	0.173	0.000			
		DIVERSITY	POWER	FAN	STATIC	TOTAL	MECH			MAX FAN	MIN FAN		
FAN	CAPACITY	FACTOR	DEMAND	DELTA-T	PRESSURE	EFF	EFF	FAN	FAN	RATIO	RATIO		
TYPE	(CFM)	(FRAC)	(KW)	(F)	(IN-WATER)	(FRAC)	(FRAC)	PLACEMENT	CONTROL	(FRAC)	(FRAC)		
SUPPLY	274.	1.00	0.052	0.58	0.0	0.50	0.00	DRAW-THRU	CYCLING	1.00	0.30		
			SUPPLY	EXHAUST		MINIMUM	OUTSIDE	COOLING		EXTRACTION	HEATING	ADDITION	
ZONE			FLOW	FLOW	FAN	FLOW	AIR FLOW	CAPACITY	SENSIBLE	RATE	CAPACITY	RATE	ZONE
NAME			(CFM)	(CFM)	(KW)	(FRAC)	(CFM)	(KBTU/HR)	(FRAC)	(KBTU/HR)	(KBTU/HR)	(KBTU/HR)	MULT
Zn L27 E (T.ENE44) APT1			274.	27.	0.005	1.000	0.	0.00	0.00	5.87	0.00	-9.72	1.

REPORT- SV-A System Design Parameters for L28 Sys1 (PVVT) (G.SW5)								WEATHER FILE- SEATTLE BOEING FI WA			
SYSTEM	ALTITUDE	FLOOR	MAX	OUTSIDE	COOLING		HEATING	COOLING	HEATING	HEAT PUMP	
TYPE	FACTOR	AREA	PEOPLE	AIR	CAPACITY	SENSIBLE	CAPACITY	EIR	EIR	SUPP-HEAT	
		(SQFT)		RATIO	(KBTU/HR)	(SHR)	(KBTU/HR)	(BTU/BTU)	(BTU/BTU)	(KBTU/HR)	
PVVT	1.000	1879.8	4.	0.000	27.000	0.849	-33.000	0.172	0.173	0.000	
		DIVERSITY	POWER	FAN	STATIC	TOTAL	MECH			MAX FAN	MIN FAN
FAN	CAPACITY	FACTOR	DEMAND	DELTA-T	PRESSURE	EFF	EFF	FAN	FAN	RATIO	RATIO
TYPE	(CFM)	(FRAC)	(KW)	(F)	(IN-WATER)	(FRAC)	(FRAC)	PLACEMENT	CONTROL	(FRAC)	(FRAC)
SUPPLY	934.	1.00	0.177	0.58	0.0	0.50	0.00	DRAW-THRU	CYCLING	1.00	0.30
ZONE		SUPPLY	EXHAUST		MINIMUM	OUTSIDE	COOLING		EXTRACTION	HEATING	ADDITION
NAME		FLOW	FLOW	FAN	FLOW	AIR FLOW	CAPACITY	SENSIBLE	RATE	CAPACITY	RATE
		(CFM)	(CFM)	(KW)	(FRAC)	(CFM)	(KBTU/HR)	(FRAC)	(KBTU/HR)	(KBTU/HR)	(KBTU/HR)
Zn L28 S (G.SW5) APT1		934.	113.	0.022	1.000	0.	0.00	0.00	19.99	0.00	-33.12

REPORT- SV-A System Design Parameters for L28 Sys1 (PVVT) (G.NE6)

WEATHER FILE- SEATTLE BOEING FI WA

SYSTEM TYPE	ALTITUDE FACTOR	FLOOR	MAX	OUTSIDE	COOLING	SENSIBLE	HEATING	COOLING	HEATING	HEAT PUMP
		AREA		AIR	CAPACITY		CAPACITY	EIR	EIR	SUPP-HEAT
		(SQFT)	PEOPLE	RATIO	(KBTU/HR)	(SHR)	(KBTU/HR)	(BTU/BTU)	(BTU/BTU)	(KBTU/HR)
PVVT	1.000	1544.3	3.	0.000	21.000	0.879	-21.000	0.172	0.173	0.000

		DIVERSITY	POWER	FAN	STATIC	TOTAL	MECH			MAX FAN	MIN FAN
FAN	CAPACITY	FACTOR	DEMAND	DELTA-T	PRESSURE	EFF	EFF	FAN	FAN	RATIO	RATIO
TYPE	(CFM)	(FRAC)	(KW)	(F)	(IN-WATER)	(FRAC)	(FRAC)	PLACEMENT	CONTROL	(FRAC)	(FRAC)
SUPPLY	648.	1.00	0.122	0.58	0.0	0.50	0.00	DRAW-THRU	CYCLING	1.00	0.30

ZONE NAME	SUPPLY	EXHAUST		MINIMUM	OUTSIDE	COOLING	EXTRACTION		HEATING	ADDITION	
	FLOW	FLOW	FAN	FLOW	AIR FLOW	CAPACITY	SENSIBLE	RATE	CAPACITY	RATE	ZONE
	(CFM)	(CFM)	(KW)	(FRAC)	(CFM)	(KBTU/HR)	(FRAC)	(KBTU/HR)	(KBTU/HR)	(KBTU/HR)	MULT
Zn L28 N (G.NE6) APT1	648.	93.	0.018	1.000	0.	0.00	0.00	13.86	0.00	-22.95	1.

REPORT- SV-A System Design Parameters for L28 Sys1 (PVVT) (G.SSE9)

WEATHER FILE- SEATTLE BOEING FI WA

SYSTEM		ALTITUDE	FLOOR AREA	MAX	OUTSIDE	COOLING	SENSIBLE		HEATING	COOLING	HEATING	HEAT PUMP	
TYPE		FACTOR	(SQFT)	PEOPLE	AIR RATIO	CAPACITY (KBTU/HR)	(SHR)		CAPACITY (KBTU/HR)	EIR (BTU/BTU)	EIR (BTU/BTU)	SUPP-HEAT (KBTU/HR)	
PVVT		1.000	1601.0	3.	0.000	24.000	0.874		-30.000	0.172	0.173	0.000	
FAN		CAPACITY	DIVERSITY	POWER	FAN	STATIC	TOTAL	MECH			MAX FAN	MIN FAN	
TYPE		(CFM)	FACTOR (FRAC)	DEMAND (KW)	DELTA-T (F)	PRESSURE (IN-WATER)	EFF (FRAC)	EFF (FRAC)	FAN PLACEMENT	FAN CONTROL	RATIO (FRAC)	RATIO (FRAC)	
SUPPLY		771.	1.00	0.146	0.58	0.0	0.50	0.00	DRAW-THRU	CYCLING	1.00	0.30	
ZONE			SUPPLY	EXHAUST		MINIMUM	OUTSIDE	COOLING	EXTRACTION		HEATING	ADDITION	
NAME			FLOW (CFM)	FLOW (CFM)	FAN (KW)	FLOW (FRAC)	AIR FLOW (CFM)	CAPACITY (KBTU/HR)	SENSIBLE (FRAC)	RATE (KBTU/HR)	CAPACITY (KBTU/HR)	RATE (KBTU/HR)	ZONE MULT
Zn L28 S (G.SSE9) APT1			771.	96.	0.019	1.000	0.	0.00	0.00	16.49	0.00	-27.32	1.

REPORT- SV-A System Design Parameters for L28 Sys1 (PVVT) (G.N10)

WEATHER FILE- SEATTLE BOEING FI WA

SYSTEM		ALTITUDE	FLOOR AREA	MAX	OUTSIDE	COOLING	SENSIBLE		HEATING	COOLING	HEATING	HEAT PUMP	
TYPE		FACTOR	(SQFT)	PEOPLE	AIR RATIO	CAPACITY (KBTU/HR)	(SHR)		CAPACITY (KBTU/HR)	EIR (BTU/BTU)	EIR (BTU/BTU)	SUPP-HEAT (KBTU/HR)	
PVVT		1.000	1631.5	3.	0.000	21.000	0.842		-24.000	0.172	0.173	0.000	
FAN		CAPACITY	DIVERSITY	POWER	FAN	STATIC	TOTAL	MECH			MAX FAN	MIN FAN	
TYPE		(CFM)	FACTOR (FRAC)	DEMAND (KW)	DELTA-T (F)	PRESSURE (IN-WATER)	EFF (FRAC)	EFF (FRAC)	FAN PLACEMENT	FAN CONTROL	RATIO (FRAC)	RATIO (FRAC)	
SUPPLY		754.	1.00	0.142	0.58	0.0	0.50	0.00	DRAW-THRU	CYCLING	1.00	0.30	
ZONE			SUPPLY	EXHAUST		MINIMUM	OUTSIDE	COOLING	EXTRACTION		HEATING	ADDITION	
NAME			FLOW (CFM)	FLOW (CFM)	FAN (KW)	FLOW (FRAC)	AIR FLOW (CFM)	CAPACITY (KBTU/HR)	SENSIBLE (FRAC)	RATE (KBTU/HR)	CAPACITY (KBTU/HR)	RATE (KBTU/HR)	ZONE MULT
Zn L28 N (G.N10) APT1			754.	98.	0.019	1.000	0.	0.00	0.00	16.13	0.00	-26.72	1.

REPORT- SV-A System Design Parameters for L29 Sys1 (PVVT) (G.SW5)

WEATHER FILE- SEATTLE BOEING FI WA

SYSTEM		ALTITUDE	FLOOR AREA	MAX	OUTSIDE	COOLING	HEATING		COOLING	HEATING	HEAT PUMP		
TYPE		FACTOR	(SQFT)	PEOPLE	AIR RATIO	CAPACITY (KBTU/HR)	SENSIBLE (SHR)	CAPACITY (KBTU/HR)	(BTU/BTU)	EIR (BTU/BTU)	SUPP-HEAT (KBTU/HR)		
PVVT		1.000	1035.2	10.	0.000	30.000	0.872	-34.000	0.173	0.173	0.000		
FAN		CAPACITY	DIVERSITY	POWER	FAN	STATIC	TOTAL	MECH			MAX FAN	MIN FAN	
TYPE		(CFM)	FACTOR (FRAC)	DEMAND (KW)	DELTA-T (F)	PRESSURE (IN-WATER)	EFF (FRAC)	EFF (FRAC)	FAN PLACEMENT	FAN CONTROL	RATIO (FRAC)	RATIO (FRAC)	
SUPPLY		885.	1.00	0.167	0.58	0.0	0.50	0.00	DRAW-THRU	CONSTANT	1.00	0.30	
ZONE		SUPPLY		EXHAUST	MINIMUM		OUTSIDE	COOLING	EXTRACTION		HEATING	ADDITION	
NAME		FLOW (CFM)		FLOW (CFM)	FAN (KW)	FLOW (FRAC)	AIR FLOW (CFM)	CAPACITY (KBTU/HR)	SENSIBLE (FRAC)	RATE (KBTU/HR)	CAPACITY (KBTU/HR)	RATE (KBTU/HR)	ZONE MULT
Zn L29 S (G.SW5) AMN		885.		0.	0.000	1.000	0.	0.00	0.00	18.93	0.00	-31.35	1.

REPORT- SV-A System Design Parameters for

L29 Syst (PVVT) (G.N9)

WEATHER FILE- SEATTLE BOEING FI WA

SYSTEM TYPE	ALTITUDE FACTOR	FLOOR AREA	MAX	OUTSIDE	COOLING	SENSIBLE	HEATING	COOLING	HEATING	HEAT PUMP		
		(SQFT)	PEOPLE	AIR RATIO	CAPACITY (KBTU/HR)		CAPACITY (KBTU/HR)	EIR (BTU/BTU)	EIR (BTU/BTU)	SUPP-HEAT (KBTU/HR)		
PVVT	1.000	674.1	22.	0.139	24.000	0.722	-27.000	0.173	0.173	0.000		
FAN TYPE	CAPACITY (CFM)	DIVERSITY	POWER	FAN	STATIC	TOTAL	MECH	FAN PLACEMENT	FAN CONTROL	MAX FAN	MIN FAN	
		FACTOR (FRAC)	DEMAND (KW)	DELTA-T (F)	PRESSURE (IN-WATER)	EFF (FRAC)	EFF (FRAC)			RATIO (FRAC)	RATIO (FRAC)	
SUPPLY	1215.	1.00	0.230	0.58	0.0	0.50	0.00	DRAW-THRU	CONSTANT	1.00	0.30	
ZONE NAME		SUPPLY	EXHAUST	FAN	MINIMUM	OUTSIDE	COOLING	SENSIBLE	EXTRACTION	HEATING	ADDITION	
		FLOW (CFM)	FLOW (CFM)		FLOW (FRAC)	AIR FLOW (CFM)	CAPACITY (KBTU/HR)			RATE (KBTU/HR)	CAPACITY (KBTU/HR)	RATE (KBTU/HR)
Zn L29 N (G.N9) RST		1215.	2000.	0.880	1.000	169.	0.00	0.00	14.45	0.00	-31.88	1

REPORT- SV-A System Design Parameters for

Elec Room VRF

WEATHER FILE- SEATTLE BOEING FI WA

SYSTEM	ALTITUDE	FLOOR	MAX	OUTSIDE	COOLING	SENSIBLE	HEATING	COOLING	HEATING	HEAT PUMP
TYPE	FACTOR	AREA	PEOPLE	AIR	CAPACITY	(SHR)	CAPACITY	EIR	EIR	SUPP-HEAT
		(SQFT)		RATIO	(KBTU/HR)		(KBTU/HR)	(BTU/BTU)	(BTU/BTU)	(KBTU/HR)
PVVT	1.000	2664.2	0.	0.000	180.000	0.740	-7.437	0.173	0.370	0.000

FAN	CAPACITY	DIVERSITY	POWER	FAN	STATIC	TOTAL	MECH			MAX FAN	MIN FAN
TYPE	(CFM)	FACTOR	DEMAND	DELTA-T	PRESSURE	EFF	EFF	FAN	FAN	RATIO	RATIO
		(FRAC)	(KW)	(F)	(IN-WATER)	(FRAC)	(FRAC)	PLACEMENT	CONTROL	(FRAC)	(FRAC)
SUPPLY	4147.	1.00	0.716	0.53	0.0	0.00	0.00	DRAW-THRU	CYCLING	1.00	0.30

ZONE		SUPPLY	EXHAUST		MINIMUM	OUTSIDE	COOLING		EXTRACTION	HEATING	ADDITION	
NAME		FLOW	FLOW	FAN	FLOW	AIR FLOW	CAPACITY	SENSIBLE	RATE	CAPACITY	RATE	ZONE
		(CFM)	(CFM)	(KW)	(FRAC)	(CFM)	(KBTU/HR)	(FRAC)	(KBTU/HR)	(KBTU/HR)	(KBTU/HR)	MULT
Zn L5 C (G.C5) ELEC		167.	0.	0.000	1.000	0.	0.00	0.00	4.43	0.00	-0.59	1.
Zn L4 C (G.C7) ELEC		164.	0.	0.000	1.000	0.	0.00	0.00	4.36	0.00	-0.58	1.
Zn L6 N (G.N4) ELEC		163.	0.	0.000	1.000	0.	0.00	0.00	4.33	0.00	-0.58	1.
Zn L7 N (G.N4) ELEC		161.	0.	0.000	1.000	0.	0.00	0.00	4.26	0.00	-0.57	1.
Zn L8 N (M.N19) ELEC		164.	0.	0.000	1.000	0.	0.00	0.00	4.35	0.00	-0.58	6.
Zn L14 N (T.N34) ELEC		171.	0.	0.000	1.000	0.	0.00	0.00	4.53	0.00	-0.60	1.
Zn L15 N (G.N4) ELEC		169.	0.	0.000	1.000	0.	0.00	0.00	4.47	0.00	-0.60	1.
Zn L16 N (G.N4) ELEC		163.	0.	0.000	1.000	0.	0.00	0.00	4.33	0.00	-0.58	1.
Zn L17 N (M.N19) ELEC		166.	0.	0.000	1.000	0.	0.00	0.00	4.41	0.00	-0.59	10.
Zn L27 N (T.N34) ELEC		171.	0.	0.000	1.000	0.	0.00	0.00	4.54	0.00	-0.60	1.
Zn L28 N (G.N4) ELEC		170.	0.	0.000	1.000	0.	0.00	0.00	4.49	0.00	-0.60	1.

REPORT- SV-A System Design Parameters for Freeze Protect WEATHER FILE- SEATTLE BOEING FI WA

SYSTEM	ALTITUDE	FLOOR	MAX	OUTSIDE	COOLING	SENSIBLE	HEATING	COOLING	HEATING	HEAT PUMP
TYPE	FACTOR	AREA	PEOPLE	AIR	CAPACITY	(SHR)	CAPACITY	EIR	EIR	SUPP-HEAT
		(SQFT)		RATIO	(KBTU/HR)		(KBTU/HR)	(BTU/BTU)	(BTU/BTU)	(KBTU/HR)
PTAC	1.000	128764.8	0.	0.000	0.000	0.000	0.000	0.166	0.000	0.000

FAN	CAPACITY	DIVERSITY	POWER	FAN	STATIC	TOTAL	MECH	FAN	FAN	MAX FAN	MIN FAN
TYPE	(CFM)	FACTOR	DEMAND	DELTA-T	PRESSURE	EFF	EFF	PLACEMENT	CONTROL	RATIO	RATIO
		(FRAC)	(KW)	(F)	(IN-WATER)	(FRAC)	(FRAC)			(FRAC)	(FRAC)
SUPPLY	1743.	0.00	0.001	2.51	0.0	0.00	0.00	BLOW-THRU	CYCLING	0.00	0.00

ZONE	SUPPLY	EXHAUST		MINIMUM	OUTSIDE	COOLING	EXTRACTION	HEATING	ADDITION	
NAME	FLOW	FLOW	FAN	FLOW	AIR FLOW	CAPACITY	SENSIBLE	RATE	CAPACITY	RATE
	(CFM)	(CFM)	(KW)	(FRAC)	(CFM)	(KBTU/HR)	(FRAC)	(KBTU/HR)	(KBTU/HR)	(KBTU/HR)
Zn L5 C (G.C14) STO	10.	0.	0.008	1.000	0.	0.40	0.60	0.36	-0.65	-0.68
Zn L16 C (G.C15) STO	10.	0.	0.008	1.000	0.	0.40	0.60	0.36	-0.65	-0.68
Zn L17 C (M.C30) STO	10.	0.	0.008	1.000	0.	0.40	0.60	0.36	-0.65	-0.68
Zn L27 C (T.C45) STO	10.	0.	0.008	1.000	0.	0.40	0.60	0.36	-0.65	-0.68
Zn L29 S (G.SE7) RR	32.	0.	0.026	1.000	0.	1.32	0.60	1.21	-2.07	-2.16
Zn L1 N (G.NW1) STR	49.	0.	0.040	1.000	0.	1.99	0.60	1.84	-3.16	-3.30
Zn L1 C (G.C6) STR	10.	0.	0.008	1.000	0.	0.40	0.60	0.36	-0.65	-0.68
Zn L1 C (G.C17) STR	10.	0.	0.008	1.000	0.	0.40	0.60	0.36	-0.65	-0.68
Zn P1 W (B.WNW3) STR	37.	0.	0.030	1.000	0.	1.47	0.60	1.33	-2.37	-2.37
Zn P1 C (B.C5) STR	10.	0.	0.008	1.000	0.	0.40	0.60	0.36	-0.65	-0.68
Zn P3 W (BB.WNW2) STR	32.	0.	0.026	1.000	0.	1.28	0.60	1.15	-2.06	-2.06
Zn P3 C (BB.C3) STR	10.	0.	0.008	1.000	0.	0.40	0.60	0.36	-0.65	-0.68
Zn P2 W (UB.WNW11) STR	31.	0.	0.025	1.000	0.	1.25	0.60	1.13	-2.02	-2.02
Zn P2 C (UB.C12) STR	10.	0.	0.008	1.000	0.	0.40	0.60	0.36	-0.65	-0.68
Zn P4 W (B.WNW2) STR	28.	0.	0.023	1.000	0.	1.14	0.60	1.03	-1.84	-1.84
Zn L2 C (G.C1) STR	10.	0.	0.008	1.000	0.	0.40	0.60	0.36	-0.65	-0.68
Zn L2 C (G.C4) STR	10.	0.	0.008	1.000	0.	0.40	0.60	0.36	-0.65	-0.68
Zn L3 C (G.C1) STR	10.	0.	0.008	1.000	0.	0.40	0.60	0.36	-0.65	-0.68
Zn L3 C (G.C4) STR	10.	0.	0.008	1.000	0.	0.40	0.60	0.36	-0.65	-0.68
Zn L4 C (G.C1) STR	10.	0.	0.008	1.000	0.	0.40	0.60	0.36	-0.65	-0.68
Zn L4 C (G.C4) STR	10.	0.	0.008	1.000	0.	0.40	0.60	0.36	-0.65	-0.68
Zn L5 C (G.C1) STR	10.	0.	0.008	1.000	0.	0.40	0.60	0.36	-0.65	-0.68
Zn L5 C (G.C3) STR	10.	0.	0.008	1.000	0.	0.40	0.60	0.36	-0.65	-0.68
Zn L6 C (G.C1) STR	10.	0.	0.008	1.000	0.	0.40	0.60	0.36	-0.65	-0.68
Zn L6 C (G.C15) STR	10.	0.	0.008	1.000	0.	0.40	0.60	0.36	-0.65	-0.68
Zn L7 C (G.C1) STR	10.	0.	0.008	1.000	0.	0.40	0.60	0.36	-0.65	-0.68
Zn L7 C (G.C15) STR	10.	0.	0.008	1.000	0.	0.40	0.60	0.36	-0.65	-0.68
Zn L8 C (M.C16) STR	10.	0.	0.008	1.000	0.	0.40	0.60	0.36	-0.65	-0.68
Zn L8 C (M.C30) STR	10.	0.	0.008	1.000	0.	0.40	0.60	0.36	-0.65	-0.68
Zn L14 C (T.C31) STR	10.	0.	0.008	1.000	0.	0.40	0.60	0.36	-0.65	-0.68

REPORT- SV-A System Design Parameters for	Freeze Protect						WEATHER FILE- SEATTLE BOEING FI WA					
(CONTINUED)												
Zn L14 C (T.C45) STR	10.	0.	0.008	1.000	0.	0.40	0.60	0.36	-0.65	-0.68	1.	
Zn L15 C (G.C1) STR	10.	0.	0.008	1.000	0.	0.40	0.60	0.36	-0.65	-0.68	1.	
Zn L15 C (G.C11) STR	10.	0.	0.008	1.000	0.	0.40	0.60	0.36	-0.65	-0.68	1.	
Zn L16 C (G.C1) STR	10.	0.	0.008	1.000	0.	0.40	0.60	0.36	-0.65	-0.68	1.	
Zn L16 C (G.C11) STR	10.	0.	0.008	1.000	0.	0.40	0.60	0.36	-0.65	-0.68	1.	
Zn L17 C (M.C16) STR	10.	0.	0.008	1.000	0.	0.40	0.60	0.36	-0.65	-0.68	10.	
Zn L17 C (M.C26) STR	10.	0.	0.008	1.000	0.	0.40	0.60	0.36	-0.65	-0.68	10.	
Zn L27 C (T.C31) STR	10.	0.	0.008	1.000	0.	0.40	0.60	0.36	-0.65	-0.68	1.	
Zn L27 C (T.C41) STR	10.	0.	0.008	1.000	0.	0.40	0.60	0.36	-0.65	-0.68	1.	
Zn L28 C (G.C1) STR	10.	0.	0.008	1.000	0.	0.40	0.60	0.36	-0.65	-0.68	1.	
Zn L28 C (G.C8) STR	10.	0.	0.008	1.000	0.	0.40	0.60	0.36	-0.65	-0.68	1.	
Zn L29 W (G.WNW1) STR	39.	0.	0.032	1.000	0.	1.58	0.60	1.49	-2.55	-2.66	1.	
Zn L29 E (G.E6) STR	71.	0.	0.058	1.000	0.	2.89	0.60	2.70	-4.62	-4.82	1.	
Zn P1 W (B.W2) MECH	37.	0.	0.030	1.000	0.	1.49	0.60	1.35	-2.40	-2.41	1.	
Zn P1 N (B.N4) MECH	10.	0.	0.008	1.000	0.	0.40	0.60	0.36	-0.65	-0.68	1.	
Zn P1 S (B.SE7) MECH	42.	0.	0.034	1.000	0.	1.66	0.60	1.50	-2.69	-2.69	1.	
Zn P3 S (BB.SW1) MECH	47.	0.	0.038	1.000	0.	1.89	0.60	1.71	-3.05	-3.06	1.	
Zn P2 S (UB.SW10) MECH	42.	0.	0.034	1.000	0.	1.67	0.60	1.51	-2.69	-2.69	1.	
Zn P4 S (B.SW1) MECH	46.	0.	0.038	1.000	0.	1.86	0.60	1.68	-2.99	-3.00	1.	
Zn L28 C (G.C11) MECH	10.	0.	0.008	1.000	0.	0.40	0.60	0.36	-0.65	-0.68	1.	
Zn L29 N (G.NNW8) MECH	74.	0.	0.060	1.000	0.	3.00	0.60	2.80	-4.79	-5.00	1.	
Zn P1 C (B.C10) ELV	10.	0.	0.008	1.000	0.	0.40	0.60	0.36	-0.65	-0.68	1.	
Zn L4 C (G.C3) ELV	10.	0.	0.008	1.000	0.	0.40	0.60	0.36	-0.65	-0.68	1.	
Zn L1 C (G.C9) ELV	10.	0.	0.008	1.000	0.	0.40	0.60	0.36	-0.65	-0.68	1.	
Zn P3 C (BB.C6) ELV	10.	0.	0.008	1.000	0.	0.40	0.60	0.36	-0.65	-0.68	1.	
Zn P2 C (UB.C15) ELV	10.	0.	0.008	1.000	0.	0.40	0.60	0.36	-0.65	-0.68	1.	
Zn P4 S (B.SSE5) ELV	10.	0.	0.008	1.000	0.	0.40	0.60	0.36	-0.65	-0.68	1.	
Zn L2 C (G.C3) ELV	10.	0.	0.008	1.000	0.	0.40	0.60	0.36	-0.65	-0.68	1.	
Zn L3 C (G.C3) ELV	10.	0.	0.008	1.000	0.	0.40	0.60	0.36	-0.65	-0.68	1.	
Zn L5 C (G.C2) ELV	10.	0.	0.008	1.000	0.	0.40	0.60	0.36	-0.65	-0.68	1.	
Zn L6 C (G.C2) ELV	10.	0.	0.008	1.000	0.	0.40	0.60	0.36	-0.65	-0.68	1.	
Zn L7 C (G.C2) ELV	10.	0.	0.008	1.000	0.	0.40	0.60	0.36	-0.65	-0.68	1.	
Zn L8 C (M.C17) ELV	10.	0.	0.008	1.000	0.	0.40	0.60	0.36	-0.65	-0.68	6.	
Zn L14 C (T.C32) ELV	10.	0.	0.008	1.000	0.	0.40	0.60	0.36	-0.65	-0.68	1.	
Zn L15 C (G.C2) ELV	10.	0.	0.008	1.000	0.	0.40	0.60	0.36	-0.65	-0.68	1.	
Zn L16 C (G.C2) ELV	10.	0.	0.008	1.000	0.	0.40	0.60	0.36	-0.65	-0.68	1.	
Zn L17 C (M.C17) ELV	10.	0.	0.008	1.000	0.	0.40	0.60	0.36	-0.65	-0.68	10.	
Zn L27 C (T.C32) ELV	10.	0.	0.008	1.000	0.	0.40	0.60	0.36	-0.65	-0.68	1.	
Zn L28 C (G.C2) ELV	10.	0.	0.008	1.000	0.	0.40	0.60	0.36	-0.65	-0.68	1.	
Zn L29 S (G.S3) ELV	56.	0.	0.046	1.000	0.	2.30	0.60	2.13	-3.64	-3.80	1.	
Zn P3 C (BB.C4) STO	10.	0.	0.008	1.000	0.	0.40	0.60	0.36	-0.65	-0.68	1.	
Zn P2 C (UB.C13) STO	10.	0.	0.008	1.000	0.	0.40	0.60	0.36	-0.65	-0.68	1.	
Zn L1 C (G.C7) TRSH	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	0.00	1.	
Zn L1 S (G.S12) TRSH	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	0.00	1.	

REPORT- SV-A System Design Parameters for		Freeze Protect		WEATHER FILE- SEATTLE BOEING FI WA							
				(CONTINUED)							
Zn P1 C (B.C8) TRSH	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	0.00	1.
Zn L2 C (G.C6) TRSH	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	0.00	1.
Zn L3 C (G.C6) TRSH	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	0.00	1.
Zn L4 C (G.C5) TRSH	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	0.00	1.
Zn L5 C (G.C4) TRSH	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	0.00	1.
Zn L6 C (G.C3) TRSH	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	0.00	1.
Zn L7 C (G.C3) TRSH	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	0.00	1.
Zn L8 C (M.C18) TRSH	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	0.00	6.
Zn L14 C (T.C33) TRSH	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	0.00	1.
Zn L15 C (G.C3) TRSH	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	0.00	1.
Zn L16 C (G.C3) TRSH	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	0.00	1.
Zn L17 C (M.C18) TRSH	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	0.00	10.
Zn L27 C (T.C33) TRSH	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	0.00	1.
Zn L28 C (G.C3) TRSH	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	0.00	1.
Zn L29 C (G.C4) TRSH	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	0.00	1.
Zn L1 S (G.S13) ELEC	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	0.00	1.
Zn P1 S (B.SW1) ELEC	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	0.00	1.
Zn P1 S (B.S6) ELEC	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	0.00	1.
Zn L1 S (G.SW3) PKG	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	0.00	1.
Zn L1 S (G.S11) PKG	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	0.00	1.
Zn L1 S (G.S19) PKG	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	0.00	1.
Zn P1 W (B.WSW11) PKG	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	0.00	1.
Zn P1 N (B.NNE12) PKG	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	0.00	1.
Zn P1 S (B.SE13) PKG	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	0.00	1.
Zn P3 W (BB.W7) PKG	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	0.00	1.
Zn P3 N (BB.NNE8) PKG	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	0.00	1.
Zn P3 S (BB.SSE9) PKG	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	0.00	1.
Zn P2 W (UB.W16) PKG	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	0.00	1.
Zn P2 N (UB.NNE17) PKG	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	0.00	1.
Zn P2 S (UB.SSE18) PKG	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	0.00	1.
Zn P4 N (B.N6) PKG	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	0.00	1.
Zn L2 E (G.E5) PKG	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	0.00	1.
Zn L2 S (G.SSW7) PKG	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	0.00	1.
Zn L2 N (G.NNW8) PKG	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	0.00	1.
Zn L3 E (G.E5) PKG	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	0.00	1.
Zn L3 S (G.S7) PKG	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	0.00	1.
Zn L3 N (G.NW8) PKG	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	0.00	1.
Zn P4 N (B.NE3) STO	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	0.00	1.
L30 Zn (G.1) MECH	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	0.00	1.
Zn L1 N (G.NW15) VEST	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	0.00	1.

REPORT- SV-A System Design Parameters for						SYS11 RTL DOAS					WEATHER FILE- SEATTLE BOEING FI WA			
SYSTEM	ALTITUDE	FLOOR	MAX	OUTSIDE	COOLING	SENSIBLE	HEATING	COOLING	HEATING	HEAT PUMP				
TYPE	FACTOR	AREA	PEOPLE	AIR	CAPACITY	(SHR)	CAPACITY	EIR	EIR	SUPP-HEAT				
		(SQFT)		RATIO	(KBTU/HR)		(KBTU/HR)	(BTU/BTU)	(BTU/BTU)	(KBTU/HR)				
PVVT	1.000	1.0	0.	1.000	91.866	0.601	-100.210	0.241	0.221	0.000				
FAN	CAPACITY	DIVERSITY	POWER	FAN	STATIC	TOTAL	MECH			MAX FAN	MIN FAN			
TYPE	(CFM)	FACTOR	DEMAND	DELTA-T	PRESSURE	EFF	EFF	FAN	FAN	RATIO	RATIO			
		(FRAC)	(KW)	(F)	(IN-WATER)	(FRAC)	(FRAC)	PLACEMENT	CONTROL	(FRAC)	(FRAC)			
SUPPLY	1922.	1.00	1.559	2.51	0.0	0.00	0.00	DRAW-THRU	CONSTANT	1.00	0.30			
ZONE			SUPPLY	EXHAUST			MINIMUM	OUTSIDE	COOLING			EXTRACTION	HEATING	ADDITION
NAME			FLOW	FLOW	FAN	FLOW	FLOW	AIR FLOW	CAPACITY	SENSIBLE	RATE	CAPACITY	CAPACITY	RATE ZONE
			(CFM)	(CFM)	(KW)	(FRAC)	(CFM)	(CFM)	(KBTU/HR)	(FRAC)	(KBTU/HR)	(KBTU/HR)	(KBTU/HR)	(KBTU/HR) MULT
RTL DOAS DUMMY ZN			1922.	0.	0.000	1.000	1922.	0.00	0.00	0.00	20.76	0.00	-83.02	1.

REPORT- SV-A System Design Parameters for						SYS11 Office DOAS					WEATHER FILE- SEATTLE BOEING FI WA			
SYSTEM	ALTITUDE	FLOOR	MAX	OUTSIDE	COOLING	SENSIBLE	HEATING	COOLING	HEATING	HEAT PUMP				
TYPE	FACTOR	AREA	PEOPLE	AIR	CAPACITY	(SHR)	CAPACITY	EIR	EIR	SUPP-HEAT				
		(SQFT)		RATIO	(KBTU/HR)		(KBTU/HR)	(BTU/BTU)	(BTU/BTU)	(KBTU/HR)				
PVVT	1.000	1.0	0.	1.000	68.463	0.601	-74.813	0.243	0.222	0.000				
FAN	CAPACITY	DIVERSITY	POWER	FAN	STATIC	TOTAL	MECH			MAX FAN	MIN FAN			
TYPE	(CFM)	FACTOR	DEMAND	DELTA-T	PRESSURE	EFF	EFF	FAN	FAN	RATIO	RATIO			
		(FRAC)	(KW)	(F)	(IN-WATER)	(FRAC)	(FRAC)	PLACEMENT	CONTROL	(FRAC)	(FRAC)			
SUPPLY	1432.	1.00	1.162	2.51	0.0	0.00	0.00	DRAW-THRU	CONSTANT	1.00	0.30			
ZONE			SUPPLY	EXHAUST			MINIMUM	OUTSIDE	COOLING			EXTRACTION	HEATING	ADDITION
NAME			FLOW	FLOW	FAN	FLOW	FLOW	AIR FLOW	CAPACITY	SENSIBLE	RATE	CAPACITY	CAPACITY	RATE ZONE
			(CFM)	(CFM)	(KW)	(FRAC)	(CFM)	(CFM)	(KBTU/HR)	(FRAC)	(KBTU/HR)	(KBTU/HR)	(KBTU/HR)	(KBTU/HR) MULT
OFF DOAS DUMMY ZN			1432.	0.	0.000	1.000	1432.	0.00	0.00	15.47	0.00	-61.87	1.	

REPORT- SV-A System Design Parameters for L15 Amenity ERV

WEATHER FILE- SEATTLE BOEING FI WA

SYSTEM TYPE	ALTITUDE FACTOR	FLOOR	MAX	OUTSIDE	COOLING	SENSIBLE	HEATING	COOLING	HEATING	HEAT PUMP
		AREA		AIR	CAPACITY		CAPACITY	EIR	EIR	SUPP-HEAT
		(SQFT)	PEOPLE	RATIO	(KBTU/HR)	(SHR)	(KBTU/HR)	(BTU/BTU)	(BTU/BTU)	(KBTU/HR)
PVVT	1.000	1.0	0.	1.000	43.021	0.601	-46.611	0.200	0.184	0.000

		DIVERSITY	POWER	FAN	STATIC	TOTAL	MECH			MAX FAN	MIN FAN
FAN	CAPACITY	FACTOR	DEMAND	DELTA-T	PRESSURE	EFF	EFF	FAN	FAN	RATIO	RATIO
TYPE	(CFM)	(FRAC)	(KW)	(F) (IN-WATER)		(FRAC)	(FRAC)	PLACEMENT	CONTROL	(FRAC)	(FRAC)
SUPPLY	900.	1.00	1.041	3.58	0.0	0.00	0.00	DRAW-THRU	CONSTANT	1.00	0.30

ZONE	SUPPLY FLOW	EXHAUST FLOW	FAN	MINIMUM FLOW	OUTSIDE AIR FLOW	COOLING CAPACITY	EXTRACTION SENSIBLE	HEATING CAPACITY	ADDITION RATE	ZONE	
NAME	(CFM)	(CFM)	(KW)	(FRAC)	(CFM)	(KBTU/HR)	(FRAC)	(KBTU/HR)	(KBTU/HR)	MULT	
L15 ERV DUMMY ZN	900.	0.	0.000	1.000	900.	0.00	0.00	9.72	0.00	-38.88	1.