		FLOOR		OUTSI	IDE COOLI	NG		HEATING	COOLING	HEATING	HEAT PUMP	
SYSTEM	ALTITUDE	AREA	MAX		AIR CAPACI	TY SE	NSIBLE	CAPACITY	EIR	EIR	SUPP-HEAT	
TYPE	FACTOR	(SQFT )	PEOPLE	RAT	TIO (KBTU/H	IR)	(SHR)	(KBTU/HR)	(BTU/BTU)	(BTU/BTU)	(KBTU/HR)	
PVVT	1.001	464.0	1.	0.1	102 9.1	26	0.742	-8.214	0.266	0.271	-9.960	
					ama m = a			-				
		DIVERSITY	POWER	FAN	STATIC	TOTAL	MECH	i		MAX FAN	MIN FAN	
FAN	CAPACITY	FACTOR	DEMAND	DELTA-T	PRESSURE	EFF	EFF	F FA	N FAI	N RATIO	RATIO	
TYPE	(CFM )	(FRAC)	(KW)	(F)	(IN-WATER)	(FRAC)	(FRAC)	PLACEMEN	T CONTROL	L (FRAC)	(FRAC)	
SUPPLY	304.	1.00	0.091	0.93	0.9	0.34	0.62	DRAW-THR	U CONSTANT	r 1.00	0.30	

	SUPPLY	EXHAUST		MINIMUM	OUTSIDE	COOLING	E	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) I	MULT
P1B North Perim Zn (B.N11P	304.	0.	0.000	0.740	31.	0.00	0.00	5.02	0.00	-8.59	1.

REPORT- SV-A System Design Parame	eters for P1B (B.N13) APT4 PTHP
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WEATHER	FILE-	SEATTLE	BOEING	FI	WA	

		FLOOR		OUTSI	DE COOLI	NG		HEATING	COOLING	HEATING	HEAT PUMP
SYSTEM	ALTITUDE	AREA	MAX	A	IR CAPACI	TY SE	NSIBLE	CAPACITY	EIR	EIR	SUPP-HEAT
TYPE	FACTOR	(SQFT )	PEOPLE	RAT	IO (KBTU/H	R)	(SHR)	(KBTU/HR)	(BTU/BTU)	(BTU/BTU)	(KBTU/HR)
PVVT	1.001	2465.0	3.	0.1	.07 45.9	50	0.742	-41.355	0.266	0.271	-50.151
		DIVERSITY	POWER	FAN	STATIC	TOTAL	MECH			MAX FAN	MIN FAN
FAN	CAPACITY	FACTOR	DEMAND	DELTA-T	PRESSURE	EFF	EFF	' FAI	I FAI	N RATIO	RATIO
TYPE	(CFM )	(FRAC)	(KW)	(F)	(IN-WATER)	(FRAC)	(FRAC)	PLACEMENT	r controi	(FRAC)	(FRAC)
SUPPLY	1533.	1.00	0.460	0.93	1.2	0.48	0.62	DRAW-THRU	J CONSTANT	1.00	0.30

	SUPPLY	EXHAUST		MINIMUM	OUTSIDE	COOLING	I	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
P1B North Perim Zn (B.N13P	1533.	0.	0.000	0.732	165.	0.00	0.00	28.66	0.00	-42.81	1.

		FLOOR		OUTSI	IDE COOLI	NG		HEATING	COOLING	HEATING	HEAT PUMP	
SYSTEM	ALTITUDE	AREA	MAX	I	AIR CAPACI	TY SE	ENSIBLE	CAPACITY	EIR	EIR	SUPP-HEAT	
TYPE	FACTOR	(SQFT )	PEOPLE	RAT	TIO (KBTU/H	IR)	(SHR)	(KBTU/HR)	(BTU/BTU)	(BTU/BTU)	(KBTU/HR)	
PVVT	1.001	705.0	1.	0.1	13.8	147	0.742	-12.462	0.266	0.271	-15.113	
		DIVERSITY	POWER	FAN	STATIC	TOTAL	MECH	I		MAX FAN	MIN FAN	
FAN	CAPACITY	FACTOR	DEMAND	DELTA-T	PRESSURE	EFF	EFF	FA	N FAI	N RATIO	RATIO	
TYPE	(CFM )	(FRAC)	(KW)	(F)	(IN-WATER)	(FRAC)	(FRAC)	PLACEMEN	T CONTROL	L (FRAC)	(FRAC)	
SUPPLY	462.	1.00	0.138	0.93	1.0	0.40	0.62	DRAW-THR	U CONSTAN	г 1.00	0.30	

	SUPPLY	EXHAUST		MINIMUM	OUTSIDE	COOLING	E	XTRACTION	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	
P1R NE Perim Zn (R NE14) 1	462.	0	0.000	0 740	47	0 00	0 00	6 57	0 00	-13 04	1	

REPORT- SV-A System Design Parameters for  $\,$  L1A (G.E19) APT2 PTHP

WEATHER FILE- SEATTLE BOEING FI WA

				,							
		FLOOR		OUTS	DE COOLI	NG		HEATING	COOLING	HEATING	HEAT PUMP
SYSTEM	ALTITUDE	AREA	MAX	. I	AIR CAPACI	TY SE	NSIBLE	CAPACITY	EIR	EIR	SUPP-HEAT
TYPE	FACTOR	(SQFT )	PEOPLE	RAT	TIO (KBTU/H	IR)	(SHR)	(KBTU/HR)	(BTU/BTU)	(BTU/BTU)	(KBTU/HR)
PVVT	1.001	1033.8	1.	0.1	128 16.1	.41	0.742	-14.527	0.266	0.271	-17.616
		DIVERSITY	POWER	FAN	STATIC	TOTAL	MECH	I		MAX FAN	MIN FAN
FAN	CAPACITY	FACTOR	DEMAND	DELTA-T	PRESSURE	EFF	EFF	FA	N FAI	N RATIO	RATIO
TYPE	(CFM )	(FRAC)	(KW)	(F)	(IN-WATER)	(FRAC)	(FRAC)	PLACEMEN	T CONTROL	L (FRAC)	(FRAC)
SUPPLY	538.	1.00	0.161	0.93	1.0	0.40	0.62	DRAW-THR	U CONSTAN	г 1.00	0.30

	SUPPLY	EXHAUST		MINIMUM	OUTSIDE	COOLING	E	EXTRACTION	HEATING	ADDITION	
ZONE	FLOW	FLOW	FAN	FLOW	AIR FLOW	CAPACITY	SENSIBLE	RATE	CAPACITY	RATE ZO	ONE
NAME	(CFM )	(CFM )	(KW)	(FRAC)	(CFM )	(KBTU/HR)	(FRAC)	(KBTU/HR)	(KBTU/HR)	(KBTU/HR) MU	JLT
LlA East Perim Zn (G.E19)T	538.	0.	0.000	0.703	69.	0.00	0.00	10.22	0.00	-14.42	1.

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REPORT-	SV-A	System	Design	Parameters	Ior	LIA	(G.NNE24)	APTI P	THP

	- SEATT		

				(,								
		FLOOR		OUTS	DE COOLI	NG		HEATING	COOLING	HEATING	HEAT PUMP	
SYSTEM	ALTITUDE	AREA	MAX		AIR CAPACI	TY SE	ENSIBLE	CAPACITY	EIR	EIR	SUPP-HEAT	
TYPE	FACTOR	(SQFT )	PEOPLE	RAT	TIO (KBTU/H	IR)	(SHR)	(KBTU/HR)	BTU/BTU)	(BTU/BTU)	(KBTU/HR)	
PVVT	1.001	749.2	1.	0.1	158 9.4	84	0.742	-8.536	0.266	0.271	-10.351	
		DIVERSITY	POWER	FAN	STATIC	TOTAL	MECH	1		MAX FAN	MIN FAN	
FAN	CAPACITY	FACTOR	DEMAND	DELTA-T	PRESSURE	EFF			J FAI			
r AIN	CAPACITY	FACTOR	DEMAND	DEPIY-1	PRESSURE	EFF	EFF	r Ar	N PAI	N KAIIU	RAIIU	
TYPE	(CFM )	(FRAC)	(KW)	(F)	(IN-WATER)	(FRAC)	(FRAC)	PLACEMENT	CONTROI	(FRAC)	(FRAC)	
	216	1 00	0.005	0.00	0.0	0.04					0.20	
SUPPLY	316.	1.00	0.095	0.93	0.9	0.34	0.62	DRAW-THRU	J CONSTANT	1.00	0.30	

<sup>\*\*\*</sup> THE ABOVE CHARACTERISTICS ARE FOR EACH OF: 1 AIR HANDLERS

	SUPPLY	EXHAUST		MINIMUM	OUTSIDE	COOLING	E	XTRACTION	HEATING	ADDITION	
ZONE	FLOW	FLOW	FAN	FLOW	AIR FLOW	CAPACITY	SENSIBLE	RATE	CAPACITY	RATE Z	ONE
NAME	(CFM )	(CFM )	(KW)	(FRAC)	(CFM )	(KBTU/HR)	(FRAC)	(KBTU/HR)	(KBTU/HR)	(KBTU/HR) M	ULT
L1A NNE Perim Zn (G.NNE24P	316.	0.	0.000	0.662	50.	0.00	0.00	8.30	0.00	-7.98	1.

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		FLOOR		OUTSI	DE COOLI	NG		HEATING	COOLING	HEATING	HEAT PUMP	
SYSTEM	ALTITUDE	AREA	MAX	. I	AIR CAPACI	TY SE	ENSIBLE	CAPACITY	EIR	EIR	SUPP-HEAT	
TYPE	FACTOR	(SQFT )	PEOPLE	RAT	CIO (KBTU/H	IR)	(SHR)	(KBTU/HR)	(BTU/BTU)	(BTU/BTU)	(KBTU/HR)	
PVVT	1.001	493.5	1.	0.1	.21 8.1	.36	0.742	-7.322	0.266	0.271	-6.803	
		DIVERSITY	POWER	FAN	STATIC	TOTAL	MECH	1		MAX FAN	MIN FAN	
FAN	CAPACITY	FACTOR	DEMAND	DELTA-T	PRESSURE	EFF			N FAI			
TYPE	(CFM )	(FRAC)	(KW)	(F)	(IN-WATER)	(FRAC)	(FRAC)	) PLACEMEN	r control	L (FRAC)	(FRAC)	
SUPPLY	271.	1.00	0.081	0.94	0.9	0.34	0.62	DRAW-THR	U CONSTANT	г 1.00	0.30	
DOFFIII	2/1.	1.00	0.001	0.04	0.5	0.59	0.02	2 DIGM THE	CONDIAN.	1.00	0.50	

	SUPPLY	EXHAUST		MINIMUM	OUTSIDE	COOLING	I	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
L1A WNW Perim Zn (G.WNW27P	271.	0.	0.000	0.506	33.	0.00	0.00	8.25	0.00	-5.22	1.

REPORT- SV-A System Design Parameters for  $\,$  L1A (G.N28) APT3 PTHP

WEATHER FILE- SEATTLE BOEING FI WA

		5		,								
		FLOOR		OUTSI	DE COOLI	NG		HEATING	COOLING	HEATING	HEAT PUMP	
SYSTEM	ALTITUDE	AREA	MAX	. A	AIR CAPACI	TY SE	NSIBLE	CAPACITY	EIR	EIR	SUPP-HEAT	
TYPE	FACTOR	(SQFT )	PEOPLE	RAT	CIO (KBTU/H	R)	(SHR)	(KBTU/HR)	(BTU/BTU)	(BTU/BTU)	(KBTU/HR)	
PVVT	1.001	1326.0	2.	0.1	.34 19.8	29	0.742	-17.846	0.266	0.271	-14.704	
			D.011PD		ama m = a		·					
		DIVERSITY	POWER	FAN	STATIC	TOTAL	MECH	Į.		MAX FAN	MIN FAN	
FAN	CAPACITY	FACTOR	DEMAND	DELTA-T	PRESSURE	EFF	EFF	FA	n fai	N RATIO	RATIO	
TYPE	(CFM )	(FRAC)	(KW)	(F)	(IN-WATER)	(FRAC)	(FRAC)	PLACEMEN	T CONTROL	L (FRAC)	(FRAC)	
SUPPLY	661.	1.00	0.198	0.94	1.0	0.41	0.62	DRAW-THR	U CONSTANT	г 1.00	0.30	

	SUPPLY	EXHAUST		MINIMUM	OUTSIDE	COOLING	I	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
L1A North Perim Zn (G.N28P	661.	0.	0.000	0.414	89.	0.00	0.00	20.11	0.00	-10.39	1.

		FLOOR		OUTSI	DE COOLI	NG		HEATING	COOLING	HEATING	HEAT PUMP	
SYSTEM	ALTITUDE	AREA	MAX	. A	AIR CAPACI	TY SE	NSIBLE	CAPACITY	EIR	EIR	SUPP-HEAT	
TYPE	FACTOR	(SQFT )	PEOPLE	RAT	CIO (KBTU/H	R)	(SHR)	(KBTU/HR)	(BTU/BTU)	(BTU/BTU)	(KBTU/HR)	
PVVT	1.001	2580.0	3.	0.1	.40 36.8	72	0.742	-33.185	0.266	0.271	-21.043	
FVVI	1.001	2500.0	٥.	0.1	.40 50.0	72	0.742	33.103	0.200	0.271	21.043	
		DIVERSITY	POWER	FAN	STATIC	TOTAL	MECH	I		MAX FAN	MIN FAN	
FAN	CAPACITY	FACTOR	DEMAND	DELTA-T	PRESSURE	EFF	EFF	r F	an fai	N RATIO	RATIO	
TYPE	(CFM )	(FRAC)	(KW)	(F)	(IN-WATER)	(FRAC)	(FRAC)	PLACEME	NT CONTROL	L (FRAC)	(FRAC)	
SUPPLY	1230.	1.00	0.369	0.94	1.2	0.47	0.62	DRAW-THI	RU CONSTAN	r 1.00	0.30	

	SUPPLY	EXHAUST		MINIMUM	OUTSIDE	COOLING	I	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
L1B North Perim Zn (G.N5)T	1230.	0.	0.000	0.269	172.	0.00	0.00	37.36	0.00	-12.53	1.

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		FLOOR		OUTSI	IDE COOLI	NG		HEATING	COOLING	HEATING	HEAT PUMP	
SYSTEM	ALTITUDE	AREA	MAX	. I	AIR CAPACI	TY SE	NSIBLE	CAPACITY	EIR	EIR	SUPP-HEAT	
TYPE	FACTOR	(SQFT )	PEOPLE	RAT	TIO (KBTU/H	IR)	(SHR)	(KBTU/HR)	(BTU/BTU)	(BTU/BTU)	(KBTU/HR)	
PVVT	1.001	668.0	1.	0.1	146 9.1	.43	0.742	-8.229	0.266	0.271	-8.537	
		DIVERSITY	POWER	FAN	STATIC	TOTAL	MECH	ł		MAX FAN	MIN FAN	
FAN	CAPACITY	FACTOR	DEMAND	DELTA-T	PRESSURE	EFF	EFF	F FA	n FAI	N RATIO	RATIO	
TYPE	(CFM )	(FRAC)	(KW)	(F)	(IN-WATER)	(FRAC)	(FRAC)	PLACEMEN	T CONTROL	L (FRAC)	(FRAC)	
SUPPLY	305.	1.00	0.091	0.94	0.9	0.34	0.62	DRAW-THR	U CONSTANT	T 1.00	0.30	

	SUPPLY	EXHAUST		MINIMUM	OUTSIDE	COOLING	E	XTRACTION	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
L1B East Perim Zn (G.E6) 1	305.	0.	0.000	0.551	45.	0.00	0.00	9.54	0.00	-6.39	1.

REPORT-	SV-A	System	Design	Parameters	for	L1B	(G.W7)	APT1	PTHP
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WEATHER	FILE-	SEATTLE	BOEING	FΙ	WA	

		FLOOR		OUTSI	DE COOLI	NG		HEATING	COOLING	HEATING	HEAT PUMP
SYSTEM	ALTITUDE	AREA	MAX		IR CAPACI	TY SE	NSIBLE	CAPACITY	EIR	EIR	SUPP-HEAT
TYPE	FACTOR	(SQFT )	PEOPLE	RAT	CIO (KBTU/H	R)	(SHR)	(KBTU/HR)	(BTU/BTU)	(BTU/BTU)	(KBTU/HR)
PVVT	1.001	765.0	1.	0.1	.18 12.9	79	0.742	-11.681	0.266	0.271	-14.165
		DIVERSITY	POWER	FAN	STATIC	TOTAL	MECH	I		MAX FAN	MIN FAN
FAN	CAPACITY	FACTOR	DEMAND	DELTA-T	PRESSURE	EFF	EFF	F.F.F.F	AN FAI	N RATIO	RATIO
TYPE	(CFM )	(FRAC)	(KW)	(F)	(IN-WATER)	(FRAC)	(FRAC)	PLACEMEN	NT CONTROL	L (FRAC)	(FRAC)
SUPPLY	433.	1.00	0.130	0.93	1.0	0.40	0.62	DRAW-THE	RU CONSTANT	r 1.00	0.30
TYPE	(CFM )	FACTOR (FRAC)	DEMAND (KW)	DELTA-T (F)	PRESSURE (IN-WATER)	EFF (FRAC)	EFF (FRAC)	FA PLACEMEN	NT CONTROL	N RATIO L (FRAC)	) F

<sup>\*\*\*</sup> THE ABOVE CHARACTERISTICS ARE FOR EACH OF: 1 AIR HANDLERS

	SUPPLY	EXHAUST		MINIMUM	OUTSIDE	COOLING	E	EXTRACTION	HEATING	ADDITION	
ZONE	FLOW	FLOW	FAN	FLOW	AIR FLOW	CAPACITY	SENSIBLE	RATE	CAPACITY	RATE 2	ZONE
NAME	(CFM )	(CFM )	(KW)	(FRAC)	(CFM )	(KBTU/HR)	(FRAC)	(KBTU/HR)	(KBTU/HR)	(KBTU/HR) N	MULT
L1B West Perim Zn (G.W7) 1	433.	0.	0.000	0.717	51.	0.00	0.00	10.25	0.00	-11.81	1.

		FLOOR		OUTSI	DE COOLI	NG		HEATING	COOLING	HEATING	HEAT PUMP	
SYSTEM	ALTITUDE	AREA	MAX	I	AIR CAPACI	TY SE	NSIBLE	CAPACITY	EIR	EIR	SUPP-HEAT	
TYPE	FACTOR	(SQFT )	PEOPLE	RAT	CIO (KBTU/H	IR)	(SHR)	(KBTU/HR)	(BTU/BTU)	(BTU/BTU)	(KBTU/HR)	
PVVT	1.001	654.5	1.	0.1	.06 12.3	84	0.742	-11.146	0.266	0.271	-13.516	
		DIVERSITY	POWER	FAN	STATIC	TOTAL	MECH	I		MAX FAN	MIN FAN	
FAN	CAPACITY	FACTOR	DEMAND	DELTA-T	PRESSURE	EFF	EFF	r FA	AN FAI	N RATIO	RATIO	
TYPE	(CFM )	(FRAC)	(KW)	(F)	(IN-WATER)	(FRAC)	(FRAC)	PLACEMEN	NT CONTROL	L (FRAC)	(FRAC)	
SUPPLY	413.	1.00	0.124	0.93	1.0	0.37	0.62	DRAW-THE	RU CONSTANT	г 1.00	0.30	

	SUPPLY	EXHAUST		MINIMUM	OUTSIDE	COOLING	E	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) I	MULT
L1B West Perim Zn (G.W8) 1	413.	0.	0.000	0.734	44.	0.00	0.00	6.65	0.00	-11.54	1.

REPORT-	SV-A	System	Design	Parameters	for	L1B	(G.E9)	APT1	PTHP
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WEATHER FILE- SEATTLE BOEING FI V	MEAIHER	WA
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		FLOOR		OUTS	DE COOLI	NG		HEATING	COOLING	HEATING	HEAT PUMP
SYSTEM	ALTITUDE	AREA	MAX		AIR CAPACI	TY SE	NSIBLE	CAPACITY	EIR	EIR	SUPP-HEAT
TYPE	FACTOR	(SQFT )	PEOPLE	RAT	TIO (KBTU/H	IR)	(SHR)	(KBTU/HR)	(BTU/BTU)	(BTU/BTU)	(KBTU/HR)
PVVT	1.001	713.5	1.	0.1	12.7	81	0.742	-11.503	0.266	0.271	-13.949
		DIVERSITY	POWER	FAN	STATIC	TOTAL	MECH	ı		MAX FAN	MIN FAN
FAN	CAPACITY	FACTOR	DEMAND	DELTA-T	PRESSURE	EFF			AN FAI		
TYPE	(CFM )	(FRAC)	(KW)	(F)	(IN-WATER)	(FRAC)	(FRAC)	PLACEMEN	NT CONTROL	L (FRAC)	(FRAC)
SUPPLY	426.	1.00	0.128	0.93	1.0	0.40	0.62	DRAW-THE	RU CONSTANT	r 1.00	0.30

	SUPPLY	EXHAUST		MINIMUM	OUTSIDE	COOLING	E	EXTRACTION	HEATING	ADDITION	
ZONE	FLOW	FLOW	FAN	FLOW	AIR FLOW	CAPACITY	SENSIBLE	RATE	CAPACITY	RATE 2	ZONE
NAME	(CFM )	(CFM )	(KW)	(FRAC)	(CFM )	(KBTU/HR)	(FRAC)	(KBTU/HR)	(KBTU/HR)	(KBTU/HR) M	MULT
L1B East Perim Zn (G.E9) 1	426.	0.	0.000	0.726	48.	0.00	0.00	7.54	0.00	-11.78	1.

REPORT- SV-A	System Design	Parameters :	for LIB	(G E10)	APT1 PTHP

		WEATHER	FILE-	SEATTLE	BOEING	FΙ	WA
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		FLOOR		OUTSI	IDE COOLI	NG		HEATING	COOLING	HEATING	HEAT PUMP	
SYSTEM	ALTITUDE	AREA	MAX	I	AIR CAPACI	TY SE	NSIBLE	CAPACITY	EIR	EIR	SUPP-HEAT	
TYPE	FACTOR	(SQFT )	PEOPLE	RAT	TIO (KBTU/H	IR)	(SHR)	(KBTU/HR)	(BTU/BTU)	(BTU/BTU)	(KBTU/HR)	
PVVT	1.001	519.0	1.	0.0	12.7	25	0.742	-11.452	0.266	0.271	-13.888	
		DIVERSITY	POWER	FAN	STATIC	TOTAL	MECH	I		MAX FAN	MIN FAN	
FAN	CAPACITY	FACTOR	DEMAND	DELTA-T	PRESSURE	EFF	EFF	FA FA	n FAI	N RATIO	RATIO	
TYPE	(CFM )	(FRAC)	(KW)	(F)	(IN-WATER)	(FRAC)	(FRAC)	PLACEMEN	T CONTROL	L (FRAC)	(FRAC)	
SUPPLY	424.	1.00	0.127	0.93	1.0	0.37	0.62	DRAW-THR	U CONSTANT	r 1.00	0.30	

<sup>\*\*\*</sup> THE ABOVE CHARACTERISTICS ARE FOR EACH OF: 1 AIR HANDLERS

	SUPPLY	EXHAUST		MINIMUM	OUTSIDE	COOLING	E	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
L1B East Perim Zn (G E10)T	424.	0	0 000	0 766	35	0 00	0 00	11 61	0 00	-12 38	1

REPORT- SV-A System Design Parameters for  $\,$  L1B (G.S11) APT5 PTHP

WEATHER FILE- SEATTLE BOEING FI WA

		FLOOR		OUTSI	IDE COOLI	NG		HEATING	COOLING	HEATING	HEAT PUMP	
SYSTEM	ALTITUDE	AREA	MAX		AIR CAPACI	TY SE	NSIBLE	CAPACITY	EIR	EIR	SUPP-HEAT	
TYPE	FACTOR	(SQFT )	PEOPLE	RAT	TIO (KBTU/H	IR)	(SHR)	(KBTU/HR)	BTU/BTU)	(BTU/BTU)	(KBTU/HR)	
PVVT	1.001	1978.0	3.	0.1	101 39.3	62	0.742	-35.426	0.266	0.271	-42.961	
		DIVERSITY	POWER	FAN	STATIC	TOTAL	MECH	[		MAX FAN	MIN FAN	
FAN	CAPACITY	FACTOR	DEMAND	DELTA-T	PRESSURE	EFF	EFF	' FAI	I FAI	N RATIO	RATIO	
TYPE	(CFM )	(FRAC)	(KW)	(F)	(IN-WATER)	(FRAC)	(FRAC)	PLACEMENT	CONTROL	L (FRAC)	(FRAC)	
SUPPLY	1313.	1.00	0.394	0.93	1.2	0.48	0.62	DRAW-THRU	J CONSTANT	г 1.00	0.30	

	SUPPLY	EXHAUST		MINIMUM	OUTSIDE	COOLING	I	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
L1B South Perim Zn (G.S11P	1313.	0.	0.000	0.741	132.	0.00	0.00	36.41	0.00	-36.95	1.

REPORT- SV-A	System	Design	Parameters	for	L1B	(G.E29)	APT1	PTHP
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		WEATHER	FILE-	SEATTLE	BOEING	FI	WA
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REPORT- SV		Design Para	meters for	штр (с	, APII				MEAINI		AIILE BOEING	, LT
		FLOOR		OUTSI	DE COOLI	NG		HEATING	COOLING	HEATING	HEAT PUMP	
SYSTEM	ALTITUDE	AREA	MAX	. I	AIR CAPACI	TY SE	NSIBLE	CAPACITY	EIR	EIR	SUPP-HEAT	
TYPE	FACTOR	(SQFT )	PEOPLE	RAT	CIO (KBTU/H	R)	(SHR)	(KBTU/HR)	(BTU/BTU)	(BTU/BTU)	(KBTU/HR)	
PVVT	1.001	429.5	1.	0.1	.05 8.1	62	0.742	-7.346	0.266	0.271	-6.717	
		DIVERSITY	POWER	FAN	STATIC	TOTAL	MECH	H		MAX FAN	MIN FAN	
FAN	CAPACITY	FACTOR	DEMAND	DELTA-T	PRESSURE	EFF	EFF	F FA	AN FAI	N RATIO	RATIO	
TYPE	(CFM )	(FRAC)	(KW)	(F)	(IN-WATER)	(FRAC)	(FRAC)	) PLACEMEN	NT CONTROL	L (FRAC)	(FRAC)	
SUPPLY	272.	1.00	0.082	0.94	0.9	0.34	0.62	2 DRAW-THE	RU CONSTANT	г 1.00	0.30	

	SUPPLY	EXHAUST		MINIMUM	OUTSIDE	COOLING	E	XTRACTION	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
L1B East Perim Zn (G.E29)T	272.	0.	0.000	0.518	29.	0.00	0.00	7.72	0.00	-5.36	1.

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				,							
		FLOOR		OUTS	DE COOLI	NG		HEATING	COOLING	HEATING	HEAT PUMP
SYSTEM	ALTITUDE	AREA	MAX	. I	AIR CAPACI	TY SE	ENSIBLE	CAPACITY	EIR	EIR	SUPP-HEAT
TYPE	FACTOR	(SQFT )	PEOPLE	RAT	rio (KBTU/H	IR)	(SHR)	(KBTU/HR)	BTU/BTU)	(BTU/BTU)	(KBTU/HR)
PVVT	1.001	1947.8	2.	0.2	225 17.3	37	0.742	-15.604	0.266	0.271	-14.425
		DIVERSITY	POWER	FAN	STATIC	TOTAI	_ MECH	I		MAX FAN	MIN FAN
FAN	CAPACITY	FACTOR	DEMAND	DELTA-T	PRESSURE	EFF	eff.	FAN	I FAI	N RATIO	RATIO
TYPE	(CFM )	(FRAC)	(KW)	(F)	(IN-WATER)	(FRAC)	(FRAC)	PLACEMENT	CONTROL	L (FRAC)	(FRAC)
SUPPLY	578.	1.00	0.173	0.94	1.0	0.40	0.62	DRAW-THRU	J CONSTANT	г 1.00	0.30

	SUPPLY	EXHAUST		MINIMUM	OUTSIDE	COOLING	E	EXTRACTION	HEATING	ADDITION	
ZONE	FLOW	FLOW	FAN	FLOW	AIR FLOW	CAPACITY	SENSIBLE	RATE	CAPACITY	RATE Z	ONE
NAME	(CFM )	(CFM )	(KW)	(FRAC)	(CFM )	(KBTU/HR)	(FRAC)	(KBTU/HR)	(KBTU/HR)	(KBTU/HR) M	ULT
I.2A East Perim Zn (G E14)T	578.	0	0 000	0 364	130.	0 00	0 00	16 00	0.00	-8 00	1

REPORT- SV-A System Design Parameters for  $\,$  L2A (G.WNW18) APT1 PTHP

WEATHER FILE- SEATTLE BOEING FI WA

				,								
		FLOOR		OUTS	DE COOLI	NG		HEATING	COOLING	HEATING	HEAT PUMP	
SYSTEM	ALTITUDE	AREA	MAX	. I	AIR CAPACI	TY SE	ENSIBLE	CAPACITY	EIR	EIR	SUPP-HEAT	
TYPE	FACTOR	(SQFT )	PEOPLE	RAT	TIO (KBTU/H	IR)	(SHR)	(KBTU/HR)	(BTU/BTU)	(BTU/BTU)	(KBTU/HR)	
PVVT	1.001	1270.5	2.	0.1	142 17.8	181	0.742	-16.093	0.266	0.271	-14.235	
		DIVERSITY	POWER	FAN	STATIC	TOTAL	_ MECH	I		MAX FAN	MIN FAN	
FAN	CAPACITY	FACTOR	DEMAND	DELTA-T	PRESSURE	EFF	eff.	FA FA	N FAI	N RATIO	RATIO	
TYPE	(CFM )	(FRAC)	(KW)	(F)	(IN-WATER)	(FRAC)	(FRAC)	PLACEMEN	T CONTRO	L (FRAC)	(FRAC)	
SUPPLY	596.	1.00	0.179	0.94	1.0	0.40	0.62	DRAW-THR	U CONSTAN	г 1.00	0.30	

	SUPPLY	EXHAUST		MINIMUM	OUTSIDE	COOLING	I	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) I	MULT
L2A WNW Perim Zn (G.WNW18P	596.	0.	0.000	0.446	85.	0.00	0.00	17.56	0.00	-10.11	1.

REPORT-	SV-A	System	Design	Parameters	for	T.2A	(G.N19)	APT2	PTHP

WEATHER FILE- SEATTLE BOEING F	EING FI W	ATTLE B	- 5	FILE-	WEATHER	
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REFORT SY	A System								WEATHER FIDE SEATTLE BOEING FI WA				
		FLOOR		OUTSIDE COOLING				HEATING	COOLING	HEATING	HEATING HEAT PUMP		
SYSTEM	ALTITUDE	AREA	MAX	. I	AIR CAPACI	TY SE	NSIBLE	CAPACITY	EIR	EIR	SUPP-HEAT		
TYPE	FACTOR	(SQFT )	PEOPLE	RAT	TIO (KBTU/H	R)	(SHR)	(KBTU/HR)	(BTU/BTU)	(BTU/BTU)	(KBTU/HR)		
PVVT	1.001	1039.0	1.	0.1	148 14.0	59	0.742	-12.653	0.266	0.271	-8.854		
		DIVERSITY	POWER	FAN	STATIC	TOTAL	MECH	I		MAX FAN	MIN FAN		
FAN	CAPACITY	FACTOR	DEMAND	DELTA-T	PRESSURE	EFF	EFF	FA	N FAN	N RATIO	RATIO		
TYPE	(CFM )	(FRAC)	(KW)	(F)	(IN-WATER)	(FRAC)	(FRAC)	PLACEMEN	T CONTROI	L (FRAC)	(FRAC)		
SUPPLY	469.	1.00	0.141	0.94	1.0	0.40	0.62	DRAW-THR	U CONSTANT	г 1.00	0.30		

	SUPPLY	EXHAUST		MINIMUM	OUTSIDE	COOLING	E	XTRACTION	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	
I.2A North Perim Zn (G N19P	469	0	0 000	0 305	69	0 00	0 00	13 84	0 00	-5 43 1	

REPORT-	SV-A	System	Design	Parameters	for	L2B	(G.N4)	APT4	PTHP
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MEVLHEB	FILE-	SEATTLE	BOETNG	FТ	TAT Z

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		FLOOR		OUTS	DE COOLI	NG		HEATING	COOLING	HEATING	HEAT PUMP	
SYSTEM	ALTITUDE	AREA	MAX	. I	AIR CAPACI	TY SE	NSIBLE	CAPACITY	EIR	EIR	SUPP-HEAT	
TYPE	FACTOR	(SQFT )	PEOPLE	RAT	rio (KBTU/H	IR)	(SHR)	(KBTU/HR)	(BTU/BTU)	(BTU/BTU)	(KBTU/HR)	
PVVT	1.001	2928.0	4.	0.1	155 37.6	93	0.742	-33.923	0.266	0.271	-21.957	
		DIVERSITY	POWER	FAN	STATIC	TOTAL	MECH	I.		MAX FAN	MIN FAN	
FAN	CAPACITY	FACTOR	DEMAND	DELTA-T	PRESSURE	EFF	EFF	F FA	AN FAI	N RATIO	RATIO	
TYPE	(CFM )	(FRAC)	(KW)	(F)	(IN-WATER)	(FRAC)	(FRAC)	PLACEMEN	NT CONTROL	L (FRAC)	(FRAC)	
SUPPLY	1257.	1.00	0.377	0.94	1.2	0.47	0.62	2 DRAW-THE	RU CONSTANT	г 1.00	0.30	

	SUPPLY	EXHAUST		MINIMUM	OUTSIDE	COOLING	E	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
L2B North Perim Zn (G.N4)T	1257.	0.	0.000	0.257	195.	0.00	0.00	36.87	0.00	-12.26	1.

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REPORT- S	SV-A	System	Design	Parameters	ior	L2B	(G.E5)	APTI	PTHP

WEATHER	FILE-	SEATTLE	BOEING	FΙ	WA	

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		FLOOR		OUTSIDE COOLING				HEATING	COOLING	HEATING	HEAT PUMP
SYSTEM	ALTITUDE	AREA	MAX		AIR CAPACI	TY SE	NSIBLE	CAPACITY	EIR	EIR	SUPP-HEAT
TYPE	FACTOR	(SQFT )	PEOPLE	RAT	CIO (KBTU/H	R)	(SHR)	(KBTU/HR)	(BTU/BTU)	(BTU/BTU)	(KBTU/HR)
PVVT	1.001	984.0	1.	0.1	.18 16.6	56	0.742	-14.990	0.266	0.271	-12.151
								_			
		DIVERSITY	POWER	FAN	STATIC	TOTAL	MECH	I		MAX FAN	MIN FAN
FAN	CAPACITY	FACTOR	DEMAND	DELTA-T	PRESSURE	EFF	EFF	' FA	n fai	N RATIO	RATIO
TYPE	(CFM )	(FRAC)	(KW)	(F)	(IN-WATER)	(FRAC)	(FRAC)	PLACEMEN	T CONTROL	L (FRAC)	(FRAC)
SUPPLY	556.	1.00	0.167	0.94	1.0	0.40	0.62	DRAW-THR	U CONSTAN	r 1.00	0.30

<sup>\*\*\*</sup> THE ABOVE CHARACTERISTICS ARE FOR EACH OF: 1 AIR HANDLERS

	SUPPLY	EXHAUST		MINIMUM	OUTSIDE	COOLING	E	XTRACTION	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	
I.2B Fact Derim Zn (G F5) 1	556	0	0 000	0 425	66	0 00	0 00	15 81	0 00	-8 97 1	

KEFORT SV					AFII F				WEATH	SK FIDE SE	ATIBE BOEING	, r.
		FLOOR		OUTSI	DE COOLI	NG		HEATING	COOLING	HEATING	HEAT PUMP	
SYSTEM	ALTITUDE	AREA	MAX	. A	IR CAPACI	TY SE	NSIBLE	CAPACITY	EIR	EIR	SUPP-HEAT	
TYPE	FACTOR	(SQFT )	PEOPLE	RAT	'IO (KBTU/H	R)	(SHR)	(KBTU/HR)	(BTU/BTU)	(BTU/BTU)	(KBTU/HR)	
PVVT	1.001	765.0	1.	0.1	.80 8.5	25	0.742	-7.672	0.266	0.271	-8.002	
		DIVERSITY	POWER	FAN	STATIC	TOTAL	MECH	I		MAX FAN	MIN FAN	
FAN	CAPACITY	FACTOR	DEMAND	DELTA-T	PRESSURE	EFF	EFF	, FAI	N FAI	N RATIO	RATIO	
TYPE	(CFM )	(FRAC)	(KW)	(F)	(IN-WATER)	(FRAC)	(FRAC)	PLACEMEN'	r control	L (FRAC)	(FRAC)	
SUPPLY	284.	1.00	0.085	0.94	0.9	0.34	0.62	DRAW-THR	J CONSTANT	г 1.00	0.30	

	SUPPLY	EXHAUST		MINIMUM	OUTSIDE	COOLING	E	XTRACTION	HEATING	ADDITION	
ZONE	FLOW	FLOW	FAN	FLOW	AIR FLOW	CAPACITY	SENSIBLE	RATE	CAPACITY	RATE ZONE	i
NAME	(CFM )	(CFM )	(KW)	(FRAC)	(CFM )	(KBTU/HR)	(FRAC)	(KBTU/HR)	(KBTU/HR)	(KBTU/HR) MULT	
I.2R West Derim Zn (G W6) 1	284	0	0 000	0 510	51	0 00	0 00	8 13	0 00	-5 51 1	

REPORT-	SV-A	System	Design	Parameters	for	L2B	(G.W7)	APT1	PTHP
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	WEA	THER	FILE-	SEATTLE	BOEING	FΙ	WA
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		FLOOR		OUTSI	IDE COOLI	NG		HEATING	COOLING	HEATING	HEAT PUMP	
SYSTEM	ALTITUDE	AREA	MAX	. A	AIR CAPACI	TY SE	NSIBLE	CAPACITY	EIR	EIR	SUPP-HEAT	
TYPE	FACTOR	(SQFT )	PEOPLE	RAT	TIO (KBTU/H	IR)	(SHR)	(KBTU/HR)	(BTU/BTU)	(BTU/BTU)	(KBTU/HR)	
PVVT	1.001	654.5	1.	0.2	234 5.5	86	0.742	-5.028	0.266	0.271	-3.124	
								_				
		DIVERSITY	POWER	FAN	STATIC	TOTAL	MECH	I		MAX FAN	MIN FAN	
FAN	CAPACITY	FACTOR	DEMAND	DELTA-T	PRESSURE	EFF	EFF	' FA	N FAI	N RATIO	RATIO	
TYPE	(CFM )	(FRAC)	(KW)	(F)	(IN-WATER)	(FRAC)	(FRAC)	PLACEMEN	T CONTROI	L (FRAC)	(FRAC)	
SUPPLY	186.	1.00	0.056	0.94	0.8	0.30	0.62	DRAW-THR	U CONSTANT	1.00	0.30	

	SUPPLY	EXHAUST		MINIMUM	OUTSIDE	COOLING	E	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
L2B West Perim Zn (G.W7) 1	186.	0.	0.000	0.234	44.	0.00	0.00	4.52	0.00	-0.95	1.

REFORT BY	, H Dybeck											J I I W21
		FLOOR		OUTSI	IDE COOLI	NG		HEATING	COOLING	HEATING	HEAT PUMP	
SYSTEM	ALTITUDE	AREA	MAX	I	AIR CAPACI	TY SE	NSIBLE	CAPACITY	EIR	EIR	SUPP-HEAT	
TYPE	FACTOR	(SQFT )	PEOPLE	RAT	TIO (KBTU/H	IR)	(SHR)	(KBTU/HR)	(BTU/BTU)	(BTU/BTU)	(KBTU/HR)	
PVVT	1.001	628.5	1.	0.2	206 6.1	14	0.742	-5.503	0.266	0.271	-3.367	
		DIVERSITY	POWER	FAN	STATIC	TOTAL	MECH	I		MAX FAN	MIN FAN	
FAN	CAPACITY	FACTOR	DEMAND	DELTA-T	PRESSURE	EFF	EFF	F FA	an fai	N RATIO	RATIO	
TYPE	(CFM )	(FRAC)	(KW)	(F)	(IN-WATER)	(FRAC)	(FRAC)	PLACEMEN	T CONTROL	L (FRAC)	(FRAC)	
SUPPLY	204.	1.00	0.061	0.94	0.8	0.30	0.62	DRAW-THR	U CONSTANT	r 1.00	0.30	

	SUPPLY	EXHAUST		MINIMUM	OUTSIDE	COOLING	E	XTRACTION	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
L2B East Perim Zn (G.E8) 1	204.	0.	0.000	0.206	42.	0.00	0.00	5.62	0.00	-1.28	1.

		FLOOR		OUTS	DE COOLI	NG		HEATING	COOLING	HEATING	HEAT PUMP	
SYSTEM	ALTITUDE	AREA	MAX	. I	AIR CAPACI	TY SE	NSIBLE	CAPACITY	EIR	EIR	SUPP-HEAT	
TYPE	FACTOR	(SQFT )	PEOPLE	RAT	TIO (KBTU/H	IR)	(SHR)	(KBTU/HR)	(BTU/BTU)	(BTU/BTU)	(KBTU/HR)	
PVVT	1.001	558.0	1.	0.1	10.8	315	0.742	-9.733	0.266	0.271	-8.071	
		DIVERSITY	POWER	FAN	STATIC	TOTAL	MECH	H.		MAX FAN	MIN FAN	
FAN	CAPACITY	FACTOR	DEMAND	DELTA-T	PRESSURE	EFF	EFF	F FA	N FAI	N RATIO	RATIO	
TYPE	(CFM )	(FRAC)	(KW)	(F)	(IN-WATER)	(FRAC)	(FRAC)	) PLACEMEN	T CONTRO	L (FRAC)	(FRAC)	
SUPPLY	361.	1.00	0.108	0.94	1.0	0.37	0.62	2 DRAW-THR	U CONSTAN	T 1.00	0.30	

	SUPPLY	EXHAUST		MINIMUM	OUTSIDE	COOLING	I	EXTRACTION	HEATING	ADDITION	
ZONE	FLOW	FLOW	FAN	FLOW	AIR FLOW	CAPACITY	SENSIBLE	RATE	CAPACITY	RATE 2	ZONE
NAME	(CFM )	(CFM )	(KW)	(FRAC)	(CFM )	(KBTU/HR)	(FRAC)	(KBTU/HR)	(KBTU/HR)	(KBTU/HR) N	MULT
L2B East Perim Zn (G.E9) 1	361.	0.	0.000	0.459	37.	0.00	0.00	10.46	0.00	-6.29	1.

REPORT- SV-A System Design Parameter	s for	L2B	(G.S10)	APT6	PTHP
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MEATHER	FILE-	SEATTLE	BOETNG	$\Delta W$ TH

CEFORI SV				AF10				WEATHI	SK FIDE SE		,	
		FLOOR		OUTSI	DE COOLI	NG		HEATING	COOLING	HEATING	HEAT PUMP	
SYSTEM	ALTITUDE	AREA	MAX	. I	AIR CAPACI	TY SEI	NSIBLE	CAPACITY	EIR	EIR	SUPP-HEAT	
TYPE	FACTOR	(SQFT )	PEOPLE	RAT	CIO (KBTU/H	R)	(SHR)	(KBTU/HR)	(BTU/BTU)	(BTU/BTU)	(KBTU/HR)	
PVVT	1.001	2721.0	3.	0.1	.24 43.9	41	0.742	-39.547	0.266	0.271	-21.589	
		DIVERSITY	POWER	FAN	STATIC	TOTAL	MECH	I		MAX FAN	MIN FAN	
FAN	CAPACITY	FACTOR	DEMAND	DELTA-T	PRESSURE	EFF	EFF	FA FA	AN FAI	N RATIO	RATIO	
TYPE	(CFM )	(FRAC)	(KW)	(F)	(IN-WATER)	(FRAC)	(FRAC)	PLACEMEN	T CONTROI	L (FRAC)	(FRAC)	
SUPPLY	1466.	1.00	0.439	0.94	1.2	0.48	0.62	DRAW-THE	RU CONSTANT	Γ 1.00	0.30	

	SUPPLY	EXHAUST		MINIMUM	OUTSIDE	COOLING	I	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
L2B South Perim Zn (G.S10P	1466.	0.	0.000	0.227	182.	0.00	0.00	44.30	0.00	-12.60	1.

REPORT- SV-A System Design Param	eters for L2B (G.E23) APT1 PTHP
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esign Parame	ters for	L2B (G.E2	3) APT1 PTH	P		WEATH	ER FILE- SE	CATTLE BOEING	3 FI WA
FLOOR		OUTSIDE	COOLING		HEATING	COOLING	HEATING	HEAT PUMP	
AREA	MAX	AIR	CAPACITY	SENSIBLE	CAPACITY	EIR	EIR	SUPP-HEAT	
(SQFT )	PEOPLE	RATIO	(KBTU/HR)	(SHR)	(KBTU/HR)	(BTU/BTU)	(BTU/BTU)	(KBTU/HR)	

ALTITUDE	AREA	MAX	AIR	CAPACIT	Y SEN	NSIBLE	CAPACITY	EIR	EIR	SUPP-HEAT	
FACTOR	(SQFT )	PEOPLE	RATIC	(KBTU/HR	.)	(SHR)	(KBTU/HR)	(BTU/BTU)	(BTU/BTU)	(KBTU/HR)	
1.001	714.0	1.	0.107	13.34	7	0.742	-12.013	0.266	0.271	-10.504	
	DIVERSITY	POWER	FAN	STATIC	TOTAL	MECH	I		MAX FAN	MIN FAN	
CAPACITY	FACTOR	DEMAND	DELTA-T	PRESSURE	EFF	EFF	, FA	n fan	RATIO	RATIO	
(CFM )	(FRAC)	(KW)	(F) (I	N-WATER)	(FRAC)	(FRAC)	PLACEMEN	T CONTROL	(FRAC)	(FRAC)	
								U CONSTANT	1.00	0.30	
	FACTOR  1.001  CAPACITY (CFM )	FACTOR (SQFT )  1.001 714.0  DIVERSITY CAPACITY FACTOR (CFM ) (FRAC)	FACTOR (SQFT) PEOPLE  1.001 714.0 1.  DIVERSITY POWER CAPACITY FACTOR DEMAND (KW)	FACTOR (SQFT ) PEOPLE RATIO  1.001 714.0 1. 0.107  DIVERSITY POWER FAN CAPACITY FACTOR DEMAND DELTA-T (CFM ) (FRAC) (KW) (F) (I	FACTOR (SQFT ) PEOPLE RATIO (KBTU/HR  1.001 714.0 1. 0.107 13.34  DIVERSITY POWER FAN STATIC CAPACITY FACTOR DEMAND DELTA-T PRESSURE (CFM ) (FRAC) (KW) (F) (IN-WATER)	FACTOR (SQFT ) PEOPLE RATIO (RBTU/HR)  1.001 714.0 1. 0.107 13.347  DIVERSITY POWER FAN STATIC TOTAL CAPACITY FACTOR DEMAND DELTA-T PRESSURE EFF (CFM ) (FRAC) (KW) (F) (IN-WATER) (FRAC)	FACTOR (SQFT ) PEOPLE RATIO (KBTU/HR) (SHR)  1.001 714.0 1. 0.107 13.347 0.742  DIVERSITY POWER FAN STATIC TOTAL MECK- CAPACITY FACTOR DEMAND DELTA-T PRESSURE EFF EFF (CFM ) (FRAC) (KW) (F) (IN-WATER) (FRAC) (FRAC)	FACTOR (SQFT ) PEOPLE RATIO (KBTU/HR) (SHR) (KBTU/HR)  1.001 714.0 1. 0.107 13.347 0.742 -12.013  DIVERSITY POWER FAN STATIC TOTAL MECH CAPACITY FACTOR DEMAND DELTA-T PRESSURE EFF EFF FA (CFM ) (FRAC) (KW) (F) (IN-WATER) (FRAC) (FRAC) PLACEMEN	FACTOR (SQFT ) PEOPLE RATIO (KBTU/HR) (SHR) (KBTU/HR) (BTU/BTU)  1.001 714.0 1. 0.107 13.347 0.742 -12.013 0.266  DIVERSITY POWER FAN STATIC TOTAL MECH CAPACITY FACTOR DEMAND DELTA-T PRESSURE EFF EFF FAN FAN (CFM ) (FRAC) (KW) (F) (IN-WATER) (FRAC) (FRAC) PLACEMENT CONTROL	FACTOR (SQFT ) PEOPLE RATIO (KBTU/HR) (SHR) (KBTU/HR) (BTU/BTU) (BTU/BTU)  1.001 714.0 1. 0.107 13.347 0.742 -12.013 0.266 0.271  DIVERSITY POWER FAN STATIC TOTAL MECH MAX FAN CAPACITY FACTOR DEMAND DELTA-T PRESSURE EFF EFF FAN FAN RATIO (CFM ) (FRAC) (KW) (F) (IN-WATER) (FRAC) (FRAC) PLACEMENT CONTROL (FRAC)	FACTOR (SQFT ) PEOPLE RATIO (RBTU/HR) (SHR) (KBTU/HR) (BTU/BTU) (BTU/BTU) (KBTU/HR)  1.001 714.0 1. 0.107 13.347 0.742 -12.013 0.266 0.271 -10.504  DIVERSITY POWER FAN STATIC TOTAL MECH MAX FAN MIN FAN CAPACITY FACTOR DEMAND DELTA-T PRESSURE EFF EFF FAN FAN RATIO RATIO (CFM ) (FRAC) (KW) (F) (IN-WATER) (FRAC) (FRAC) PLACEMENT CONTROL (FRAC) (FRAC)

	SUPPLY	EXHAUST		MINIMUM	OUTSIDE	COOLING	I	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) I	MULT
L2B East Perim Zn (G.E23)T	445.	0.	0.000	0.486	48.	0.00	0.00	13.08	0.00	-8.23	1.

REPORT- SV-A System Design Parameters for L3A (G.E13) APT4 PTHP

WEATHER FILE- SEATTLE BOEING FI WA

		FLOOR		OUTSI	IDE COOLI	NG		HEATING	COOLING	HEATING	HEAT PUMP	
SYSTEM	ALTITUDE	AREA	MAX	I	AIR CAPACI	TY SE	ENSIBLE	CAPACITY	EIR	EIR	SUPP-HEAT	
TYPE	FACTOR	(SQFT )	PEOPLE	RAT	TIO (KBTU/H	IR)	(SHR)	(KBTU/HR)	(BTU/BTU)	(BTU/BTU)	(KBTU/HR)	
PVVT	1.001	2229.8	3.	0.2	206 21.6	808	0.742	-19.447	0.266	0.271	-12.684	
		DIVERSITY	POWER	FAN	STATIC	TOTAL	MECH	I		MAX FAN	MIN FAN	
FAN	CAPACITY	FACTOR	DEMAND	DELTA-T	PRESSURE	EFF	eff.	FA:	n FAI	N RATIO	RATIO	
TYPE	(CFM )	(FRAC)	(KW)	(F)	(IN-WATER)	(FRAC)	(FRAC)	PLACEMEN	r control	L (FRAC)	(FRAC)	
SUPPLY	721.	1.00	0.216	0.94	1.0	0.41	0.62	DRAW-THR	U CONSTANT	г 1.00	0.30	

	SUPPLY	EXHAUST		MINIMUM	OUTSIDE	COOLING	E	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
L3A East Perim Zn (G.E13)T	721.	0.	0.000	0.206	149.	0.00	0.00	18.53	0.00	-5.26	1.

REPORT-	SV-A	System I	Design	Parameters	for	L3A	(G.NW17)	APT1	PTHP
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WEATHER	FILE-	SEATTLE	BOEING	FΙ	WA	

		FLOOR		OUTSI	DE COOLI	NG		HEATING	COOLING	HEATING	HEAT PUMP	
SYSTEM	ALTITUDE	AREA	MAX	A	IR CAPACI	TY SE	NSIBLE	CAPACITY	EIR	EIR	SUPP-HEAT	
TYPE	FACTOR	(SQFT )	PEOPLE	RAT	IO (KBTU/H	R)	(SHR)	(KBTU/HR)	(BTU/BTU)	(BTU/BTU)	(KBTU/HR)	
PVVT	1.001	915.5	1.	0.1	.56 11.7	13	0.742	-10.542	0.266	0.271	-8.513	
		DIVERSITY	POWER	FAN	STATIC	TOTAL	MECH	I.		MAX FAN	MIN FAN	
FAN	CAPACITY	FACTOR	DEMAND	DELTA-T	PRESSURE	EFF	EFF	F FA	N FAI	N RATIO	RATIO	
TYPE	(CFM )	(FRAC)	(KW)	(F)	(IN-WATER)	(FRAC)	(FRAC)	PLACEMEN	T CONTROL	L (FRAC)	(FRAC)	
SUPPLY	391.	1.00	0.117	0.94	1.0	0.37	0.62	DRAW-THR	U CONSTANT	r 1.00	0.30	

	SUPPLY	EXHAUST		MINIMUM	OUTSIDE	COOLING	E	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
L3A NW Perim Zn (G.NW17) 1	391.	0.	0.000	0.372	61.	0.00	0.00	11.16	0.00	-5.51	1.

REPORT-	SV-A	System	Design	Parameters	for	L3A	(G.N18)	APT3	PTHP
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	WEATHER	R FILE-	SEA	TTLE	BOEING	FI	WA	
ING	COOLING	HEATIN	G	HEAT	PUMP			
YTI	EIR	EI	R	SUPP-	HEAT			
HR)	(BTII/BTII)	(BTII/BTII	)	(KRTI	I/HR)			

		FLOOR		OUTSI	DE COOLI	NG		HEATING	COOLING	HEATING	HEAT PUMP	
SYSTEM	ALTITUDE	AREA	MAX	K A	IR CAPACI	TY SEI	NSIBLE	CAPACITY	EIR	EIR	SUPP-HEAT	
TYPE	FACTOR	(SQFT )	PEOPLE	E RAT	IO (KBTU/H	R)	(SHR)	(KBTU/HR)	(BTU/BTU)	(BTU/BTU)	(KBTU/HR)	
PVVT	1.001	1566.5	2.	0.1	58 19.8	03	0.742	-17.823	0.266	0.271	-11.521	
		DIVERSITY	POWER	FAN	STATIC	TOTAL	MECH	I		MAX FAN	MIN FAN	
FAN	CAPACITY	FACTOR	DEMAND	DELTA-T	PRESSURE	EFF	EFF	FA	N FA	N RATIO	RATIO	
TYPE	(CFM )	(FRAC)	(KW)	(F)	(IN-WATER)	(FRAC)	(FRAC)	PLACEMEN	T CONTRO	L (FRAC)	(FRAC)	
SUPPLY	661.	1.00	0.198	0.94	1.0	0.41	0.62	DRAW-THR	U CONSTAN	г 1.00	0.30	

	SUPPLY	EXHAUST		MINIMUM	OUTSIDE	COOLING	I	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
L3A North Perim Zn (G.N18P	661.	0.	0.000	0.253	105.	0.00	0.00	18.95	0.00	-6.33	1.

REPORT- SV-	System	Design	Parameters	for	L3A	(G.W21)	APT4	PTHP
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WEATHER	FILE-	SEATTLE	BOEING	FI	WA	

		FLOOR		OUTSI	DE COOLI	NG		HEATING	COOLING	HEATING	HEAT PUMP
SYSTEM	ALTITUDE	AREA	MAX	. A	AIR CAPACI	TY SE	NSIBLE	CAPACITY	EIR	EIR	SUPP-HEAT
TYPE	FACTOR	(SQFT )	PEOPLE	RAT	CIO (KBTU/H	R)	(SHR)	(KBTU/HR)	(BTU/BTU)	(BTU/BTU)	(KBTU/HR)
PVVT	1.001	2478.2	3.	0.2	22.8	92	0.742	-20.603	0.266	0.271	-16.572
		DIVERSITY	POWER	FAN	STATIC	TOTAL	MECH	I		MAX FAN	MIN FAN
FAN	CAPACITY	FACTOR	DEMAND	DELTA-T	PRESSURE	EFF	EFF	FA	n fai	N RATIO	RATIO
TYPE	(CFM )	(FRAC)	(KW)	(F)	(IN-WATER)	(FRAC)	(FRAC)	PLACEMEN	T CONTROL	L (FRAC)	(FRAC)
SUPPLY	764.	1.00	0.229	0.94	1.0	0.41	0.62	DRAW-THR	U CONSTANT	1.00	0.30

<sup>\*\*\*</sup> THE ABOVE CHARACTERISTICS ARE FOR EACH OF: 1 AIR HANDLERS

	SUPPLY	EXHAUST		MINIMUM	OUTSIDE	COOLING	E	XTRACTION	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	
I.3A West Perim Zn (G W21)T	764	0	0 000	0 288	165	0 00	0 00	19 03	0 00	-8 35 1	

		FLOOR		OUTSI	DE COOLI	NG		HEATING	COOLING	HEATING	HEAT PUMP	
SYSTEM	ALTITUDE	AREA	MAX	I	AIR CAPACI	TY SE	NSIBLE	CAPACITY	EIR	EIR	SUPP-HEAT	
TYPE	FACTOR	(SQFT )	PEOPLE	RAT	CIO (KBTU/H	IR)	(SHR)	(KBTU/HR)	(BTU/BTU)	(BTU/BTU)	(KBTU/HR)	
PVVT	1.001	944.2	1.	0.1	.21 15.6	65	0.742	-14.098	0.266	0.271	-8.250	
		DIVERSITY	POWER	FAN	STATIC	TOTAL	MECH	I		MAX FAN	MIN FAN	
FAN	CAPACITY	FACTOR	DEMAND	DELTA-T	PRESSURE	EFF	EFF	F.F.F	AN FAI	N RATIO	RATIO	
TYPE	(CFM )	(FRAC)	(KW)	(F)	(IN-WATER)	(FRAC)	(FRAC)	PLACEMEN	T CONTROL	L (FRAC)	(FRAC)	
SUPPLY	523.	1.00	0.157	0.94	1.0	0.40	0.62	DRAW-THE	RU CONSTANT	г 1.00	0.30	

	SUPPLY	EXHAUST		MINIMUM	OUTSIDE	COOLING	E	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) I	MULT
L3A SW Perim Zn (G.SW22) 1	523.	0.	0.000	0.259	63.	0.00	0.00	15.22	0.00	-5.14	1.

REPORT-	SV-A	System	Design	Parameters	for	L3A	(G.S24)	APT3 I	PTHP
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WEATHE	E- SEA	TTLE B	OEING	FΙ	WA

SYSTEM TYPE	ALTITUDE FACTOR	FLOOR AREA (SQFT )	MAX PEOPLE		IR CAPACI	TY SE	NSIBLE (SHR)	HEATING CAPACITY (KBTU/HR) (	COOLING EIR BTU/BTU)	HEATING EIR (BTU/BTU)	HEAT PUMP SUPP-HEAT (KBTU/HR)
PVVT	1.001	1832.5	2.	0.1	21 30.3	24	0.742	-27.292	0.266	0.271	-13.646
FAN TYPE	CAPACITY (CFM )	DIVERSITY FACTOR (FRAC)	POWER DEMAND (KW)	FAN DELTA-T (F)	STATIC PRESSURE (IN-WATER)	TOTAL EFF (FRAC)		FAN			MIN FAN RATIO (FRAC)
SUPPLY	1012.	1.00	0.303	0.94	1.2	0.47	0.62	DRAW-THRU	CONSTANT	1.00	0.30

<sup>\*\*\*</sup> THE ABOVE CHARACTERISTICS ARE FOR EACH OF: 1 AIR HANDLERS

	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
L3A South Perim Zn (G.S24P	1012.	0.	0.000	0.187	122.	0.00	0.00	29.29	0.00	-7.16	1.

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		FLOOR		OUTSI	DE COOLI	NG		HEATING	COOLING	HEATING	HEAT PUMP	
SYSTEM	ALTITUDE	AREA	MAX		AIR CAPACI	TY SE	NSIBLE	CAPACITY	EIR	EIR	SUPP-HEAT	
TYPE	FACTOR	(SQFT )	PEOPLE	RAT	CIO (KBTU/H	R)	(SHR)	(KBTU/HR)	(BTU/BTU)	(BTU/BTU)	(KBTU/HR)	
PVVT	1.001	2928.0	4.	0.1	.64 35.8	27	0.742	-32.244	0.266	0.271	-20.391	
		DIVERSITY	POWER	FAN	STATIC	TOTAL	MECH	I		MAX FAN	MIN FAN	
FAN	CAPACITY	FACTOR	DEMAND	DELTA-T	PRESSURE	EFF	EFF	FA FA	N FAI	N RATIO	RATIO	
TYPE	(CFM )	(FRAC)	(KW)	(F)	(IN-WATER)	(FRAC)	(FRAC)	PLACEMEN	T CONTROI	(FRAC)	(FRAC)	
SUPPLY	1195.	1.00	0.358	0.94	1.2	0.47	0.62	DRAW-THR	U CONSTANT	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
L3B North Perim Zn (G.N4)T	1195.	0.	0.000	0.236	195.	0.00	0.00	34.11	0.00	-10.68	1.

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		FLOOR		OUTSI	IDE COOLI	NG		HEATING	COOLING	HEATING	HEAT PUMP	
SYSTEM	ALTITUDE	AREA	MAX	I	AIR CAPACI	TY SE	NSIBLE	CAPACITY	EIR	EIR	SUPP-HEAT	
TYPE	FACTOR	(SQFT )	PEOPLE	RAT	rio (KBTU/H	R)	(SHR)	(KBTU/HR)	(BTU/BTU)	(BTU/BTU)	(KBTU/HR)	
PVVT	1.001	984.0	1.	0.1	125 15.7	95	0.742	-14.215	0.266	0.271	-10.515	
		DIVERSITY	POWER	FAN	STATIC	TOTAL	MECH	I		MAX FAN	MIN FAN	
FAN	CAPACITY	FACTOR	DEMAND	DELTA-T	PRESSURE	EFF	EFF	r FA	AN FAI	N RATIO	RATIO	
TYPE	(CFM )	(FRAC)	(KW)	(F)	(IN-WATER)	(FRAC)	(FRAC)	PLACEMEN	NT CONTROL	L (FRAC)	(FRAC)	
SUPPLY	527.	1.00	0.158	0.94	1.0	0.40	0.62	DRAW-THE	RU CONSTAN	r 1.00	0.30	

	SUPPLY	EXHAUST		MINIMUM	OUTSIDE	COOLING	E	EXTRACTION	HEATING	ADDITION	
ZONE	FLOW	FLOW	FAN	FLOW	AIR FLOW	CAPACITY	SENSIBLE	RATE	CAPACITY	RATE ZOI	NE
NAME	(CFM )	(CFM )	(KW)	(FRAC)	(CFM )	(KBTU/HR)	(FRAC)	(KBTU/HR)	(KBTU/HR)	(KBTU/HR) MUI	LT
L3B East Perim Zn (G.E5) 1	527.	0.	0.000	0.365	66.	0.00	0.00	14.78	0.00	-7.30	1.

		FLOOR		OUTSI	DE COOLI	NG		HEATING	COOLING	HEATING	HEAT PUMP	
SYSTEM	ALTITUDE	AREA	MAX	. A	AIR CAPACI	TY SE	NSIBLE	CAPACITY	EIR	EIR	SUPP-HEAT	
TYPE	FACTOR	(SQFT )	PEOPLE	RAT	CIO (KBTU/H	R)	(SHR)	(KBTU/HR)	(BTU/BTU)	(BTU/BTU)	(KBTU/HR)	
PVVT	1.001	765.0	1.	0.1	.86 8.2	28	0.742	-7.405	0.266	0.271	-7.187	
		DIVERSITY	POWER	FAN	STATIC	TOTAL	MECH	I		MAX FAN	MIN FAN	
FAN	CAPACITY	FACTOR	DEMAND	DELTA-T	PRESSURE	EFF	EFF	, FAI	N FAI	N RATIO	RATIO	
TYPE	(CFM )	(FRAC)	(KW)	(F)	(IN-WATER)	(FRAC)	(FRAC)	PLACEMEN'	r control	L (FRAC)	(FRAC)	
SUPPLY	274.	1.00	0.082	0.94	0.9	0.34	0.62	DRAW-THR	U CONSTANT	г 1.00	0.30	

	SUPPLY	EXHAUST		MINIMUM	OUTSIDE	COOLING	E	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
L3B West Perim Zn (G.W6) 1	274.	0.	0.000	0.449	51.	0.00	0.00	7.68	0.00	-4.68	1.

		FLOOR		OUTSI	IDE COOLI	NG		HEATING	COOLING	HEATING	HEAT PUMP
SYSTEM	ALTITUDE	AREA	MAX	. I	AIR CAPACI	TY SE	NSIBLE	CAPACITY	EIR	EIR	SUPP-HEAT
TYPE	FACTOR	(SQFT )	PEOPLE	RAT	TIO (KBTU/H	R)	(SHR)	(KBTU/HR)	(BTU/BTU)	(BTU/BTU)	(KBTU/HR)
PVVT	1.001	654.5	1.	0.2	233 5.6	21	0.742	-5.059	0.266	0.271	-3.507
		DIVERSITY	POWER	FAN	STATIC	TOTAL	MECH	I		MAX FAN	MIN FAN
FAN	CAPACITY	FACTOR	DEMAND	DELTA-T	PRESSURE	EFF	EFF	F F	AN FAI	N RATIO	RATIO
TYPE	(CFM )	(FRAC)	(KW)	(F)	(IN-WATER)	(FRAC)	(FRAC)	PLACEMEN	NT CONTROL	L (FRAC)	(FRAC)
SUPPLY	188.	1.00	0.056	0.94	0.8	0.30	0.62	DRAW-TH	RU CONSTAN	r 1.00	0.30

	SUPPLY	EXHAUST		MINIMUM	OUTSIDE	COOLING	E	EXTRACTION	HEATING	ADDITION	
ZONE	FLOW	FLOW	FAN	FLOW	AIR FLOW	CAPACITY	SENSIBLE	RATE	CAPACITY	RATE ZO	ONE
NAME	(CFM )	(CFM )	(KW)	(FRAC)	(CFM )	(KBTU/HR)	(FRAC)	(KBTU/HR)	(KBTU/HR)	(KBTU/HR) MU	JLT
L3B West Perim Zn (G.W7) 1	188.	0.	0.000	0.233	44.	0.00	0.00	4.43	0.00	-1.33	1.

		FLOOR		OUTSI	DE COOLI	NG		HEATING	COOLING	HEATING	HEAT PUMP
SYSTEM	ALTITUDE	AREA	MAX	. I	AIR CAPACI	TY SE	NSIBLE	CAPACITY	EIR	EIR	SUPP-HEAT
TYPE	FACTOR	(SQFT )	PEOPLE	RAT	CIO (KBTU/H	IR)	(SHR)	(KBTU/HR)	(BTU/BTU)	(BTU/BTU)	(KBTU/HR)
PVVT	1.001	628.5	1.	0.2	206 6.1	.09	0.742	-5.498	0.266	0.271	-3.612
		DIVERSITY	POWER	FAN	STATIC	TOTAL	MECH	I		MAX FAN	MIN FAN
FAN	CAPACITY	FACTOR	DEMAND	DELTA-T	PRESSURE	EFF	EFF	F FA	N FAI	N RATIO	RATIO
TYPE	(CFM )	(FRAC)	(KW)	(F)	(IN-WATER)	(FRAC)	(FRAC)	PLACEMEN	T CONTROL	L (FRAC)	(FRAC)
SUPPLY	204.	1.00	0.061	0.94	0.8	0.30	0.62	DRAW-THR	U CONSTANT	г 1.00	0.30

	SUPPLY	EXHAUST		MINIMUM	OUTSIDE	COOLING	E	EXTRACTION	HEATING	ADDITION	
ZONE	FLOW	FLOW	FAN	FLOW	AIR FLOW	CAPACITY	SENSIBLE	RATE	CAPACITY	RATE ZON	ΛE
NAME	(CFM )	(CFM )	(KW)	(FRAC)	(CFM )	(KBTU/HR)	(FRAC)	(KBTU/HR)	(KBTU/HR)	(KBTU/HR) MUI	ΔT
L3B East Perim Zn (G.E8) 1	204.	0.	0.000	0.206	42.	0.00	0.00	5.45	0.00	-1.52 1	1.

		FLOOR		OUTSI	IDE COOLI	NG		HEATING	COOLING	HEATING	HEAT PUMP	
SYSTEM	ALTITUDE	AREA	MAX	. I	AIR CAPACI	TY SE	ENSIBLE	CAPACITY	EIR	EIR	SUPP-HEAT	
TYPE	FACTOR	(SQFT )	PEOPLE	RAT	TIO (KBTU/H	IR)	(SHR)	(KBTU/HR)	(BTU/BTU)	(BTU/BTU)	(KBTU/HR)	
PVVT	1.001	789.0	1.	0.1	11.2	21	0.742	-12.799	0.266	0.271	-9.505	
		DIVERSITY	POWER	FAN	STATIC	TOTAL	MECH	I		MAX FAN	MIN FAN	
FAN	CAPACITY	FACTOR	DEMAND	DELTA-T	PRESSURE	EFF	EFF	FA FA	N FAI	N RATIO	RATIO	
TYPE	(CFM )	(FRAC)	(KW)	(F)	(IN-WATER)	(FRAC)	(FRAC)	PLACEMEN	T CONTROL	L (FRAC)	(FRAC)	
SUPPLY	474.	1.00	0.142	0.94	1.0	0.40	0.62	DRAW-THR	U CONSTAN	г 1.00	0.30	

	SUPPLY	EXHAUST		MINIMUM	OUTSIDE	COOLING	I	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
					= 0						
L3B East Perim Zn (G.E9) 1	474.	0.	0.000	0.386	53.	0.00	0.00	12.93	0.00	-6.95	1.

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		FLOOR		OUTSI	DE COOLI	NG		HEATING	COOLING	HEATING	HEAT PUMP	
SYSTEM	ALTITUDE	AREA	MAX	. I	AIR CAPACI	TY SE	NSIBLE	CAPACITY	EIR	EIR	SUPP-HEAT	
TYPE	FACTOR	(SQFT )	PEOPLE	RAT	TIO (KBTU/H	R)	(SHR)	(KBTU/HR)	(BTU/BTU)	(BTU/BTU)	(KBTU/HR)	
PVVT	1.001	3981.5	5.	0.1	.33 59.6	79	0.742	-53.711	0.266	0.271	-28.118	
		DIVERSITY	POWER	FAN	STATIC	TOTAL	MECH	I		MAX FAN	MIN FAN	
FAN	CAPACITY	FACTOR	DEMAND	DELTA-T	PRESSURE	EFF	EFF	F FA	N FAI	N RATIO	RATIO	
TYPE	(CFM )	(FRAC)	(KW)	(F)	(IN-WATER)	(FRAC)	(FRAC)	PLACEMEN	T CONTROL	L (FRAC)	(FRAC)	
SUPPLY	1991.	1.00	0.597	0.94	1.3	0.51	0.62	DRAW-THR	U CONSTAN	r 1.00	0.30	

	SUPPLY	EXHAUST		MINIMUM	OUTSIDE	COOLING	I	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
L3B South Perim Zn (G.S10P	1991.	0.	0.000	0.198	266.	0.00	0.00	56.58	0.00	-14.91	1.

REPORT- SV-A Sys	em Design E	Parameters f	for L3B	(G.E19)	APT1 PTH	ΗP
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WEATHER	FILE-	SEATTLE	BOEING	FΙ	WA	
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		FLOOR		OUTS	DE COOLI	NG		HEATING	COOLING	HEATING	HEAT PUMP	
SYSTEM	ALTITUDE	AREA	MAX	I	AIR CAPACI	TY SE	NSIBLE	CAPACITY	EIR	EIR	SUPP-HEAT	
TYPE	FACTOR	(SQFT )	PEOPLE	RAT	rio (KBTU/H	IR)	(SHR)	(KBTU/HR)	(BTU/BTU)	(BTU/BTU)	(KBTU/HR)	
PVVT	1.001	714.0	1.	0.1	112 12.8	10	0.742	-11.529	0.266	0.271	-8.987	
		DIVERSITY	POWER	FAN	STATIC	TOTAL	MECH	I.		MAX FAN	MIN FAN	
FAN	CAPACITY	FACTOR	DEMAND	DELTA-T	PRESSURE	EFF	EFF	F FA	AN FAI	N RATIO	RATIO	
TYPE	(CFM )	(FRAC)	(KW)	(F)	(IN-WATER)	(FRAC)	(FRAC)	PLACEMEN	NT CONTROL	(FRAC)	(FRAC)	
SUPPLY	427.	1.00	0.128	0.94	1.0	0.40	0.62	2 DRAW-THE	RU CONSTANT	1.00	0.30	

	SUPPLY	EXHAUST		MINIMUM	OUTSIDE	COOLING	E	XTRACTION	HEATING	ADDITION	
ZONE	FLOW	FLOW	FAN	FLOW	AIR FLOW	CAPACITY	SENSIBLE	RATE	CAPACITY	RATE Z	ONE
NAME	(CFM )	(CFM )	(KW)	(FRAC)	(CFM )	(KBTU/HR)	(FRAC)	(KBTU/HR)	(KBTU/HR)	(KBTU/HR) MU	ULT
L3B East Perim Zn (G.E19)T	427.	0.	0.000	0.412	48.	0.00	0.00	11.62	0.00	-6.68	1.

REPORT- SV-	A System	Design	Parameters	for	L4A	(G.E13)	APT4	PTHP
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WEATHER FILE- SEATTLE BOEING FI WA	LE- SEATTLE BOEING	WEATHER FILE- SEATTLE	FI WA
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	FLOOR		OUTSI	DE COOLI	NG		HEATING	COOLING	HEATING	HEAT PUMP
ALTITUDE	AREA	MAX	Z Z	IR CAPACI	TY SE	NSIBLE	CAPACITY	EIR	EIR	SUPP-HEAT
FACTOR	(SQFT )	PEOPLE	RAT	CIO (KBTU/H	R)	(SHR)	(KBTU/HR)	(BTU/BTU)	(BTU/BTU)	(KBTU/HR)
1.001	2229.8	3.	0.2	204 21.9	16	0.742	-19.725	0.266	0.271	-12.310
	DIVERSITY	POWER	FAN	STATIC	TOTAL	MECH	I		MAX FAN	MIN FAN
CAPACITY	FACTOR	DEMAND	DELTA-T	PRESSURE	EFF	' EFF	FAI	N FAI	N RATIO	RATIO
(CFM )	(FRAC)	(KW)	(F)	(IN-WATER)	(FRAC)	(FRAC)	PLACEMEN'	r control	L (FRAC)	(FRAC)
731.	1.00	0.219	0.94	1.0	0.41	0.62	DRAW-THR	U CONSTANT	г 1.00	0.30
	FACTOR  1.001  CAPACITY (CFM )	ALTITUDE AREA FACTOR (SQFT )  1.001 2229.8  DIVERSITY FACTOR (CFM ) (FRAC)	ALTITUDE AREA MAY FACTOR (SQFT ) PEOPLE  1.001 2229.8 3.  DIVERSITY POWER CAPACITY FACTOR DEMAND (CFM ) (FRAC) (KW)	ALTITUDE AREA MAX F FACTOR (SQFT ) PEOPLE RAT  1.001 2229.8 3. 0.2  DIVERSITY POWER FAN CAPACITY FACTOR DEMAND DELTA-T (CFM ) (FRAC) (KW) (F)	ALTITUDE AREA MAX AIR CAPACI FACTOR (SQFT ) PEOPLE RATIO (KBTU/H 1.001 2229.8 3. 0.204 21.9  DIVERSITY POWER FAN STATIC CAPACITY FACTOR DEMAND DELTA-T PRESSURE (CFM ) (FRAC) (KW) (F) (IN-WATER)	ALTITUDE AREA MAX AIR CAPACITY SE FACTOR (SQFT) PEOPLE RATIO (KBTU/HR)  1.001 2229.8 3. 0.204 21.916  DIVERSITY POWER FAN STATIC TOTAL CAPACITY FACTOR DEMAND DELTA-T PRESSURE EFF (CFM) (FRAC) (KW) (F) (IN-WATER) (FRAC)	ALTITUDE AREA MAX AIR CAPACITY SENSIBLE FACTOR (SQFT) PEOPLE RATIO (KBTU/HR) (SHR)  1.001 2229.8 3. 0.204 21.916 0.742  DIVERSITY POWER FAN STATIC TOTAL MECH CAPACITY FACTOR DEMAND DELTA-T PRESSURE EFF EFF (CFM) (FRAC) (KW) (F) (IN-WATER) (FRAC) (FRAC)	ALTITUDE AREA MAX AIR CAPACITY SENSIBLE CAPACITY FACTOR (SQFT ) PEOPLE RATIO (KBTU/HR) (SHR) (KBTU/HR)  1.001 2229.8 3. 0.204 21.916 0.742 -19.725  DIVERSITY POWER FAN STATIC TOTAL MECH CAPACITY FACTOR DEMAND DELTA-T PRESSURE EFF EFF FALCE (CFM ) (FRAC) (KW) (F) (IN-WATER) (FRAC) (FRAC) PLACEMENT	ALTITUDE AREA MAX AIR CAPACITY SENSIBLE CAPACITY EIR FACTOR (SQFT) PEOPLE RATIO (KBTU/HR) (SHR) (KBTU/HR) (BTU/BTU)  1.001 2229.8 3. 0.204 21.916 0.742 -19.725 0.266  DIVERSITY POWER FAN STATIC TOTAL MECH CAPACITY FACTOR DEMAND DELTA-T PRESSURE EFF EFF FAN FAI (CFM ) (FRAC) (KW) (F) (IN-WATER) (FRAC) (FRAC) PLACEMENT CONTROL	ALTITUDE AREA MAX AIR CAPACITY SENSIBLE CAPACITY EIR ER FACTOR (SQFT) PEOPLE RATIO (KBTU/HR) (SHR) (KBTU/HR) (BTU/BTU) (BTU/BTU)  1.001 2229.8 3. 0.204 21.916 0.742 -19.725 0.266 0.271  DIVERSITY POWER FAN STATIC TOTAL MECH MAX FAN CAPACITY FACTOR DEMAND DELTA-T PRESSURE EFF EFF FAN FAN RATIO (CFM ) (FRAC) (KW) (F) (IN-WATER) (FRAC) (FRAC) PLACEMENT CONTROL (FRAC)

<sup>\*\*\*</sup> THE ABOVE CHARACTERISTICS ARE FOR EACH OF: 1 AIR HANDLERS

	SUPPLY	EXHAUST		MINIMUM	OUTSIDE	COOLING	I	EXTRACTION	HEATING	ADDITION	
ZONE	FLOW	FLOW	FAN	FLOW	AIR FLOW	CAPACITY	SENSIBLE	RATE	CAPACITY	RATE 2	ZONE
NAME	(CFM )	(CFM )	(KW)	(FRAC)	(CFM )	(KBTU/HR)	(FRAC)	(KBTU/HR)	(KBTU/HR)	(KBTU/HR) N	MULT
L4A East Perim Zn (G.E13)T	731.	0.	0.000	0.204	149.	0.00	0.00	18.87	0.00	-4.89	1.

REPORT- SV-A	System Design	Parameters	for	L4A	(G.NW17)	APT1 PTHP
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	WEATHER	FILE-	SEA	ATTLE		FI	
G	COOLING	HEATIN	1G	HEAT	PUMP		

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		FLOOR		OUTSI	IDE COOLI	NG		HEATING	COOLING	HEATING	HEAT PUMP	
SYSTEM	ALTITUDE	AREA	MAX	Ι	AIR CAPACI	TY SEI	NSIBLE	CAPACITY	EIR	EIR	SUPP-HEAT	
TYPE	FACTOR	(SQFT )	PEOPLE	RAT	TIO (KBTU/H	R)	(SHR)	(KBTU/HR)	(BTU/BTU)	(BTU/BTU)	(KBTU/HR)	
PVVT	1.001	915.5	1.	0.1	157 11.6	82	0.742	-10.513	0.266	0.271	-7.916	
		DILIDDGIMI	DOMED	F7337	GMA MT G	moma r	MEGN			MAN 57.	MIN DAN	
		DIVERSITY	POWER	FAN	STATIC	TOTAL	MECH			MAX FAN	MIN FAN	
FAN	CAPACITY	FACTOR	DEMAND	DELTA-T	PRESSURE	EFF	EFF	FA	n fal	N RATIO	RATIO	
TYPE	(CFM )	(FRAC)	(KW)	(F)	(IN-WATER)	(FRAC)	(FRAC)	PLACEMEN	T CONTRO	L (FRAC)	(FRAC)	
SUPPLY	390.	1.00	0.117	0.94	1.0	0.37	0.62	DRAW-THR	U CONSTAN'	T 1.00	0.30	

	SUPPLY	EXHAUST		MINIMUM	OUTSIDE	COOLING	E	XTRACTION	HEATING	ADDITION	
ZONE	FLOW	FLOW	FAN	FLOW	AIR FLOW	CAPACITY	SENSIBLE	RATE	CAPACITY	RATE ZO	NE
NAME	(CFM )	(CFM )	(KW)	(FRAC)	(CFM )	(KBTU/HR)	(FRAC)	(KBTU/HR)	(KBTU/HR)	(KBTU/HR) MU	LT
L4A NW Perim Zn (G.NW17) 1	390.	0.	0.000	0.332	61.	0.00	0.00	11.44	0.00	-4.90	1.

		FLOOR		OUTSI	IDE COOLI	NG		HEATING	COOLING	HEATING	HEAT PUMP	
SYSTEM	ALTITUDE	AREA	MAX	I	AIR CAPACI	TY SE	NSIBLE	CAPACITY	EIR	EIR	SUPP-HEAT	
TYPE	FACTOR	(SQFT )	PEOPLE	RAT	TIO (KBTU/H	IR)	(SHR)	(KBTU/HR)	(BTU/BTU)	(BTU/BTU)	(KBTU/HR)	
PVVT	1.001	1566.5	2.	0.1	19.9	47	0.742	-17.953	0.266	0.271	-11.115	
		DIVERSITY	POWER	FAN	STATIC	TOTAL	MECH	I		MAX FAN	MIN FAN	
FAN	CAPACITY	FACTOR	DEMAND	DELTA-T	PRESSURE	EFF	EFF	FA:	N FAI	N RATIO	RATIO	
TYPE	(CFM )	(FRAC)	(KW)	(F)	(IN-WATER)	(FRAC)	(FRAC)	PLACEMEN	T CONTROL	L (FRAC)	(FRAC)	
SUPPLY	665.	1.00	0.199	0.94	1.0	0.41	0.62	DRAW-THR	U CONSTANT	г 1.00	0.30	

	SUPPLY	EXHAUST		MINIMUM	OUTSIDE	COOLING	E	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	
I.4A North Perim Zn (G N18P	665	0	0 000	0 235	105	0 00	0 00	19 12	0 00	-5 92 1	

REPORT- SV-	A System	Design	Parameters	for	L4A	(G.W21)	APT4	PTHP
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	WEATHER				BOEING		
д	COOLING	HEATIN	1G	HEAT	PUMP	 	_

		FLOOR		OUTSI	DE COOLI	NG		HEATING	COOLING	HEATING	HEAT PUMP
SYSTEM	ALTITUDE	AREA	MAX	ζ Δ	IR CAPACI	TY SE	NSIBLE	CAPACITY	EIR	EIR	SUPP-HEAT
TYPE	FACTOR	(SQFT )	PEOPLE	E RAT	CIO (KBTU/H	R)	(SHR)	(KBTU/HR)	(BTU/BTU)	(BTU/BTU)	(KBTU/HR)
PVVT	1.001	2478.2	3.	. 0.2	22.8	24	0.742	-20.541	0.266	0.271	-14.614
		DIVERSITY	POWER	FAN	STATIC	TOTAL	MECH	I		MAX FAN	MIN FAN
FAN	CAPACITY	FACTOR	DEMAND	DELTA-T	PRESSURE	EFF	EFF	, FAI	I FAI	N RATIO	RATIO
TYPE	(CFM )	(FRAC)	(KW)	(F)	(IN-WATER)	(FRAC)	(FRAC)	PLACEMEN'	r controi	L (FRAC)	(FRAC)
SUPPLY	761.	1.00	0.228	0.94	1.0	0.41	0.62	DRAW-THRU	J CONSTANT	г 1.00	0.30

	SUPPLY	EXHAUST		MINIMUM	OUTSIDE	COOLING	E	EXTRACTION	HEATING	ADDITION	
ZONE	FLOW	FLOW	FAN	FLOW	AIR FLOW	CAPACITY	SENSIBLE	RATE	CAPACITY	RATE Z	ONE
NAME	(CFM )	(CFM )	(KW)	(FRAC)	(CFM )	(KBTU/HR)	(FRAC)	(KBTU/HR)	(KBTU/HR)	(KBTU/HR) M	ULT
L4A West Perim Zn (G.W21)T	761.	0.	0.000	0.220	165.	0.00	0.00	18.82	0.00	-6.36	1.

REPORT-	SV-A	System	Design	Parameters	for	L4A	(G.SW22)	APT1	PTHP
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WEATHER	FILE-	SEATTLE	BOEING	FΙ	WA	

		FLOOR		OUTSI	DE COOLI	NG		HEATING	COOLING	HEATING	HEAT PUMP
SYSTEM	ALTITUDE	AREA	MAX	. A	IR CAPACI	TY SE	NSIBLE	CAPACITY	EIR	EIR	SUPP-HEAT
TYPE	FACTOR	(SQFT )	PEOPLE	RAT	IO (KBTU/H	IR)	(SHR)	(KBTU/HR)	(BTU/BTU)	(BTU/BTU)	(KBTU/HR)
PVVT	1.001	944.2	1.	0.1	.20 15.7	55	0.742	-14.179	0.266	0.271	-7.841
		DIVERSITY	POWER	FAN	STATIC	TOTAL	MECH			MAX FAN	MIN FAN
FAN	CAPACITY	FACTOR	DEMAND	DELTA-T	PRESSURE	EFF	EFF	FAI	n fai	N RATIO	RATIO
TYPE	(CFM )	(FRAC)	(KW)	(F)	(IN-WATER)	(FRAC)	(FRAC)	PLACEMEN'	T CONTROL	L (FRAC)	(FRAC)
SUPPLY	526.	1.00	0.158	0.94	1.0	0.40	0.62	DRAW-THR	U CONSTANT	r 1.00	0.30

	SUPPLY	EXHAUST		MINIMUM	OUTSIDE	COOLING	E	EXTRACTION	HEATING	ADDITION	
ZONE	FLOW	FLOW	FAN	FLOW	AIR FLOW	CAPACITY	SENSIBLE	RATE	CAPACITY	RATE ZON	ΙE
NAME	(CFM )	(CFM )	(KW)	(FRAC)	(CFM )	(KBTU/HR)	(FRAC)	(KBTU/HR)	(KBTU/HR)	(KBTU/HR) MUL	Т
L4A SW Perim Zn (G.SW22) 1	526.	0.	0.000	0.237	63.	0.00	0.00	15.35	0.00	-4.72 1	

REPORT- SV-A	System	Design	Parameters	for	L4A	(G.S24)	APT3	PTHP
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		FLOOR		OUTSI	IDE COOLI	NG		HEATING	COOLING	HEATING	HEAT PUMP	
SYSTEM	ALTITUDE	AREA	MAX	I	AIR CAPACI	TY SEI	NSIBLE	CAPACITY	EIR	EIR	SUPP-HEAT	
TYPE	FACTOR	(SQFT )	PEOPLE	RAT	rio (KBTU/H	IR)	(SHR)	(KBTU/HR)	(BTU/BTU)	(BTU/BTU)	(KBTU/HR)	
PVVT	1.001	1832.5	2.	0.1	123 29.7	11	0.742	-26.740	0.266	0.271	-13.370	
		DIVERSITY	POWER	FAN	STATIC	TOTAL	MECH	]		MAX FAN	MIN FAN	
FAN	CAPACITY	FACTOR	DEMAND	DELTA-T	PRESSURE	EFF	EFF	' FA	N FAN	RATIO	RATIO	
TYPE	(CFM )	(FRAC)	(KW)	(F)	(IN-WATER)	(FRAC)	(FRAC)	PLACEMEN	T CONTROL	(FRAC)	(FRAC)	
SUPPLY	991.	1.00	0.297	0.94	1.2	0.47	0.62	DRAW-THR	U CONSTANT	1.00	0.30	

	SUPPLY	EXHAUST		MINIMUM	OUTSIDE	COOLING	E	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
L4A South Perim Zn (G.S24P	991.	0.	0.000	0.155	122.	0.00	0.00	28.76	0.00	-5.80	1.

		FLOOR		OUTSI	DE COOLI	NG		HEATING	COOLING	HEATING	HEAT PUMP	
SYSTEM	ALTITUDE	AREA	MAX	I	AIR CAPACI	TY SE	NSIBLE	CAPACITY	EIR	EIR	SUPP-HEAT	
TYPE	FACTOR	(SQFT )	PEOPLE	RAT	CIO (KBTU/H	IR)	(SHR)	(KBTU/HR)	(BTU/BTU)	(BTU/BTU)	(KBTU/HR)	
PVVT	1.001	2928.0	4.	0.1	.62 36.1	.06	0.742	-32.495	0.266	0.271	-19.727	
		DIVERSITY	POWER	FAN	STATIC	TOTAL	MECH	I		MAX FAN	MIN FAN	
FAN	CAPACITY	FACTOR	DEMAND	DELTA-T	PRESSURE	EFF	EFF	F.F.F	N FAI	N RATIO	RATIO	
TYPE	(CFM )	(FRAC)	(KW)	(F)	(IN-WATER)	(FRAC)	(FRAC)	PLACEMEN	IT CONTROL	(FRAC)	(FRAC)	
SUPPLY	1204.	1.00	0.361	0.94	1.2	0.47	0.62	2 DRAW-THE	U CONSTANT	1.00	0.30	

	SUPPLY	EXHAUST		MINIMUM	OUTSIDE	COOLING	I	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
L4B North Perim Zn (G.N4)T	1204.	0.	0.000	0.219	195.	0.00	0.00	34.43	0.00	-10.00	1.

		FLOOR		OUTS	DE COOLI	NG		HEATING	COOLING	HEATING	HEAT PUMP
SYSTEM	ALTITUDE	AREA	MAX	. I	AIR CAPACI	TY SE	NSIBLE	CAPACITY	EIR	EIR	SUPP-HEAT
TYPE	FACTOR	(SQFT )	PEOPLE	RAT	TIO (KBTU/H	IR)	(SHR)	(KBTU/HR)	(BTU/BTU)	(BTU/BTU)	(KBTU/HR)
PVVT	1.001	984.0	1.	0.1	16.0	18	0.742	-14.416	0.266	0.271	-10.100
		DIVERSITY	POWER	FAN	STATIC	TOTAL	MECH	ī		MAX FAN	MIN FAN
FAN	CAPACITY	FACTOR	DEMAND	DELTA-T	PRESSURE	EFF			n FAI		
TYPE	(CFM )	(FRAC)	(KW)	(F)	(IN-WATER)	(FRAC)	(FRAC)	PLACEMEN	T CONTROL	L (FRAC)	(FRAC)
	=0.4										
SUPPLY	534.	1.00	0.160	0.94	1.0	0.40	0.62	DRAW-THR	U CONSTANT	г 1.00	0.30

	SUPPLY	EXHAUST		MINIMUM	OUTSIDE	COOLING	I	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
L4B East Perim Zn (G.E5) 1	534.	0.	0.000	0.340	66.	0.00	0.00	15.05	0.00	-6.88	1.

REPORT- SV-A System Design Parameters for  $\,$  L4B (G.W6) APT1 PTHP  $\,$ 

WEATHER FILE- SEATTLE BOEING FI WA

		FLOOR		OUTSI	DE COOLI	NG		HEATING	COOLING	HEATING	HEAT PUMP
SYSTEM	ALTITUDE	AREA	MAX	. A	IR CAPACI	TY SE	NSIBLE	CAPACITY	EIR	EIR	SUPP-HEAT
TYPE	FACTOR	(SQFT )	PEOPLE	RAT	IO (KBTU/H	R)	(SHR)	(KBTU/HR)	(BTU/BTU)	(BTU/BTU)	(KBTU/HR)
PVVT	1.001	765.0	1.	0.1	83 8.3	51	0.742	-7.516	0.266	0.271	-6.831
		DIVERSITY	POWER	FAN	STATIC	TOTAL	MECH	I		MAX FAN	MIN FAN
FAN	CAPACITY	FACTOR	DEMAND	DELTA-T	PRESSURE	EFF	' EFF	' FAI	N FAI	N RATIO	RATIO
TYPE	(CFM )	(FRAC)	(KW)	(F)	(IN-WATER)	(FRAC)	(FRAC)	PLACEMENT	r controi	L (FRAC)	(FRAC)
SUPPLY	279.	1.00	0.084	0.94	0.9	0.34	0.62	DRAW-THRU	J CONSTANT	г 1.00	0.30

	SUPPLY	EXHAUST		MINIMUM	OUTSIDE	COOLING	E	EXTRACTION	HEATING	ADDITION	
ZONE	FLOW	FLOW	FAN	FLOW	AIR FLOW	CAPACITY	SENSIBLE	RATE	CAPACITY	RATE Z	ONE
NAME	(CFM )	(CFM )	(KW)	(FRAC)	(CFM )	(KBTU/HR)	(FRAC)	(KBTU/HR)	(KBTU/HR)	(KBTU/HR) M	ULT
I.4B West Perim 7n (G W6) 1	279	0	0 000	0 408	51	0 00	0 00	7 83	0.00	-4 32	1

		FLOOR		OUTSI	IDE COOLI	NG		HEATING	COOLING	HEATING	HEAT PUMP
SYSTEM	ALTITUDE	AREA	MAX	. I	AIR CAPACI	TY SE	NSIBLE	CAPACITY	EIR	EIR	SUPP-HEAT
TYPE	FACTOR	(SQFT )	PEOPLE	RAT	TIO (KBTU/H	R)	(SHR)	(KBTU/HR)	(BTU/BTU)	(BTU/BTU)	(KBTU/HR)
PVVT	1.001	654.5	1.	0.2	232 5.6	56	0.742	-5.091	0.266	0.271	-3.396
		DIVERSITY	POWER	FAN	STATIC	TOTAL	MECH	I		MAX FAN	MIN FAN
FAN	CAPACITY	FACTOR	DEMAND	DELTA-T	PRESSURE	EFF	EFF	F F	AN FAI	N RATIO	RATIO
TYPE	(CFM )	(FRAC)	(KW)	(F)	(IN-WATER)	(FRAC)	(FRAC)	PLACEMEN	NT CONTROL	L (FRAC)	(FRAC)
SUPPLY	189.	1.00	0.057	0.94	0.8	0.30	0.62	DRAW-THI	RU CONSTAN	r 1.00	0.30

	SUPPLY	EXHAUST		MINIMUM	OUTSIDE	COOLING	E	XTRACTION	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	
L4R West Perim Zn (G W7) 1	189	0	0 000	0 232	44	0 00	0 00	4 45	0 00	-1 22 1	

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		FLOOR		OUTSI	DE COOLI	NG		HEATING	COOLING	HEATING	HEAT PUMP	
SYSTEM	ALTITUDE	AREA	MAX	. I	AIR CAPACI	TY SE	NSIBLE	CAPACITY	EIR	EIR	SUPP-HEAT	
TYPE	FACTOR	(SQFT )	PEOPLE	RAT	TIO (KBTU/H	IR)	(SHR)	(KBTU/HR)	(BTU/BTU)	(BTU/BTU)	(KBTU/HR)	
PVVT	1.001	628.5	1.	0.2	202 6.2	25	0.742	-5.603	0.266	0.271	-3.499	
		DIVERSITY	POWER	FAN	STATIC	TOTAL	MECH	ł		MAX FAN	MIN FAN	
FAN	CAPACITY	FACTOR	DEMAND	DELTA-T	PRESSURE	EFF	EFF	F FA	N FAI	N RATIO	RATIO	
TYPE	(CFM )	(FRAC)	(KW)	(F)	(IN-WATER)	(FRAC)	(FRAC)	PLACEMEN	T CONTROL	L (FRAC)	(FRAC)	
SUPPLY	208.	1.00	0.062	0.94	0.8	0.30	0.62	DRAW-THR	U CONSTANT	г 1.00	0.30	

	SUPPLY	EXHAUST		MINIMUM	OUTSIDE	COOLING	E	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
L4B East Perim Zn (G.E8) 1	208.	0.	0.000	0.202	42.	0.00	0.00	5.57	0.00	-1.41	1.

REPORT-	SV-A	System	Design	Parameters	for	L4B	(G.E9)	APT1 PTH	ΗP
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	SEATTLE		

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		FLOOR		OUTSI	DE COOLI	NG		HEATING	COOLING	HEATING	HEAT PUMP	
SYSTEM	ALTITUDE	AREA	MAX		AIR CAPACI	TY SE	NSIBLE	CAPACITY	EIR	EIR	SUPP-HEAT	
TYPE	FACTOR	(SQFT )	PEOPLE	RAT	TIO (KBTU/H	R)	(SHR)	(KBTU/HR) (	BTU/BTU)	(BTU/BTU)	(KBTU/HR)	
PVVT	1.001	789.0	1.	0.1	110 14.2	91	0.742	-12.862	0.266	0.271	-8.758	
		DIVERSITY	POWER	FAN	STATIC	TOTAL	MECH			MAX FAN	MIN FAN	
FAN	CAPACITY	FACTOR	DEMAND	DELTA-T	PRESSURE	EFF	EFF	' FAN	I FAI	N RATIO	RATIO	
TYPE	(CFM )	(FRAC)	(KW)	(F)	(IN-WATER)	(FRAC)	(FRAC)	PLACEMENT	CONTROL	L (FRAC)	(FRAC)	
SUPPLY	477.	1.00	0.143	0.94	1.0	0.40	0.62	DRAW-THRU	J CONSTAN	г 1.00	0.30	

	SUPPLY	EXHAUST		MINIMUM	OUTSIDE	COOLING	E	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
											_
L4B East Perim Zn (G.E9) 1	477.	0.	0.000	0.342	53.	0.00	0.00	12.23	0.00	-6.19	1.

REPORT- SV-F	System Des	gn Parameters	for L4B	(G.S10)	APT7 PTHP
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WEATHER	FILE-	SEATTLE	BOEING	FΙ	WA	

		FLOOR		OUTSI	DE COOLI	NG		HEATING	COOLING	HEATING	HEAT PUMP
SYSTEM	ALTITUDE	AREA	MAX	. A	AIR CAPACI	TY SE	NSIBLE	CAPACITY	EIR	EIR	SUPP-HEAT
TYPE	FACTOR	(SQFT )	PEOPLE	RAT	CIO (KBTU/H	IR)	(SHR)	(KBTU/HR)	(BTU/BTU)	(BTU/BTU)	(KBTU/HR)
PVVT	1.001	3981.5	5.	0.1	.35 58.8	58	0.742	-52.972	0.266	0.271	-26.486
		DIVERSITY	POWER	FAN	STATIC	TOTAL	MECH	I		MAX FAN	MIN FAN
FAN	CAPACITY	FACTOR	DEMAND	DELTA-T	PRESSURE	EFF	EFF	FA	n fai	N RATIO	RATIO
TYPE	(CFM )	(FRAC)	(KW)	(F)	(IN-WATER)	(FRAC)	(FRAC)	PLACEMEN	T CONTROL	L (FRAC)	(FRAC)
SUPPLY	1963.	1.00	0.589	0.94	1.3	0.51	0.62	DRAW-THR	U CONSTANT	г 1.00	0.30

<sup>\*\*\*</sup> THE ABOVE CHARACTERISTICS ARE FOR EACH OF: 1 AIR HANDLERS

	SUPPLY	EXHAUST		MINIMUM	OUTSIDE	COOLING	I	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
L4B South Perim Zn (G.S10P	1963.	0.	0.000	0.169	266.	0.00	0.00	55.90	0.00	-12.55	1.

DEDODT-	C17_7	Syctom	Decian	Parameters	for	T.4D	(C F10)	APT1 PT	UD
KEPOKI-	5 V - A	System	Desidii	Parameters	TOT	L4B	(G.EI9)	APII PI	пР

MEVLIED	RTI.R.	SEATTLE	PORTNO	RΤ	TaT 7\
WEATHER	r illi-	SEALILE	BOLING	rт	WA

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		FLOOR		OUTS	IDE COOLI	NG		HEATING	COOLING	HEATING	HEAT PUMP	
SYSTEM	ALTITUDE	AREA	MAX	. 1	AIR CAPACI	TY SE	NSIBLE	CAPACITY	EIR	EIR	SUPP-HEAT	
TYPE	FACTOR	(SQFT )	PEOPLE	RAT	rio (KBTU/H	IR)	(SHR)	(KBTU/HR)	(BTU/BTU)	(BTU/BTU)	(KBTU/HR)	
PVVT	1.001	714.0	1.	0.1	106 13.4	80	0.742	-12.132	0.266	0.271	-8.612	
		DIVERSITY	POWER	FAN	STATIC	TOTAL	MECH	I		MAX FAN	MIN FAN	
FAN	CAPACITY	FACTOR	DEMAND	DELTA-T	PRESSURE	EFF	EFF	FA	N FAI	N RATIO	RATIO	
TYPE	(CFM )	(FRAC)	(KW)	(F)	(IN-WATER)	(FRAC)	(FRAC)	PLACEMEN	T CONTROI	L (FRAC)	(FRAC)	
SUPPLY	450.	1.00	0.135	0.94	1.0	0.40	0.62	DRAW-THR	U CONSTANT	г 1.00	0.30	

	SUPPLY	EXHAUST		MINIMUM	OUTSIDE	COOLING	E	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	
I.4B East Perim Zn (G E19)T	450	0	0 000	0 369	48	0 00	0 00	12 05	0 00	-6 30 1	

REPORT- SV-	A System	Design	Parameters	for	L5A	(G.E13)	APT4	PTHP
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WEATHER F	FILE-	SEATTLE	BOEING	FI	WA	
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SYSTEM TYPE	ALTITUDE FACTOR	FLOOR AREA (SQFT )	MAX PEOPLE		AIR CAPACI	TY SE	NSIBLE (SHR)	HEATING CAPACITY (KBTU/HR)	COOLING EIR (BTU/BTU)	HEATING EIR (BTU/BTU)	HEAT PUMP SUPP-HEAT (KBTU/HR)	
PVVT	1.001	2229.8	3.	0.2	200 22.3	25	0.742	-20.092	0.266	0.271	-12.314	
FAN TYPE	CAPACITY (CFM )	DIVERSITY FACTOR (FRAC)	POWER DEMAND (KW)	FAN DELTA-T (F)	STATIC PRESSURE (IN-WATER)	TOTAL EFF (FRAC)		' FAI				
SUPPLY	745.	1.00	0.223	0.94	1.0	0.41	0.62	DRAW-THR	U CONSTANT	r 1.00	0.30	

	SUPPLY	EXHAUST		MINIMUM	OUTSIDE	COOLING	E	EXTRACTION	HEATING	ADDITION	
ZONE	FLOW	FLOW	FAN	FLOW	AIR FLOW	CAPACITY	SENSIBLE	RATE	CAPACITY	RATE Z	ONE
NAME	(CFM )	(CFM )	(KW)	(FRAC)	(CFM )	(KBTU/HR)	(FRAC)	(KBTU/HR)	(KBTU/HR)	(KBTU/HR) MU	ULT
I.5A East Perim Zn (G E13)T	745.	0	0 000	0 200	149.	0 00	0 00	19 31	0.00	-4 89	1

DEDODE	O17 7	Creation	Dogian	Parameters	£ 0.00	TEA	(G.NW17)	7 D/D1	DITTID
KEPORI-	5 V - A	System	Desidi	Parameters	TOT	LDA	(G.NWI/)	APII	PIMP

WEATHER	 ~	 	 	
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SYSTEM TYPE	ALTITUDE FACTOR	FLOOR AREA (SQFT )	MAX PEOPLE		IR CAPACI	TY SE	NSIBLE (SHR)	HEATING CAPACITY (KBTU/HR) (	COOLING EIR BTU/BTU)	HEATING EIR (BTU/BTU)	HEAT PUMP SUPP-HEAT (KBTU/HR)
PVVT	1.001	915.5	1.	0.1	.52 12.0	44	0.742	-10.839	0.266	0.271	-8.298
FAN TYPE	CAPACITY (CFM )	DIVERSITY FACTOR (FRAC)	POWER DEMAND (KW)	FAN DELTA-T (F)	STATIC PRESSURE (IN-WATER)	TOTAL EFF (FRAC)					
SUPPLY	402.	1.00	0.120	0.94	1.0	0.37			CONSTANT		0.30

	SUPPLY	EXHAUST		MINIMUM	OUTSIDE	COOLING	E	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
L5A NW Perim Zn (G.NW17) 1	402.	0.	0.000	0.347	61.	0.00	0.00	12.22	0.00	-5.29	1.

REPORT- SV-A Syste	m Design Parameters	for L5A	(G.N18)	APT3 PTHP
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WEATHER	FILE-	SEATTLE	BOEING	FI	WA
COOLING	HEATIN	IG HEAT	PUMP		

SYSTEM TYPE	ALTITUDE FACTOR	FLOOR AREA (SQFT )	MAX PEOPLE		IR CAPACI	ry sei	NSIBLE (SHR)	HEATING CAPACITY (KBTU/HR) (	COOLING EIR BTU/BTU)	HEATING EIR (BTU/BTU)	HEAT PUMP SUPP-HEAT (KBTU/HR)
PVVT	1.001	1566.5	2.	0.19	54 20.3	51	0.742	-18.316	0.266	0.271	-11.467
FAN	CAPACITY	DIVERSITY FACTOR	POWER DEMAND	FAN DELTA-T	STATIC PRESSURE	TOTAL EFF	MECH EFF		FAN	MAX FAN N RATIO	
TYPE	(CFM )	(FRAC)	(KW)	(F)	(IN-WATER)	(FRAC)	(FRAC)	PLACEMENT	CONTROL	L (FRAC)	(FRAC)
SUPPLY	679.	1.00	0.204	0.94	1.0	0.41	0.62	DRAW-THRU	CONSTANT	г 1.00	0.30

	SUPPLY	EXHAUST		MINIMUM	OUTSIDE	COOLING	E	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
L5A North Perim Zn (G.N18P	679.	0.	0.000	0.244	105.	0.00	0.00	19.95	0.00	-6.28	1.

REPORT- SV-A Syste	m Design Parameters	for L	5A (G.W21)	APT4 PTHP
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WEATHER	FILE-	SEA	 BOEING	 
COOLING	HEATIN	1G	 	 

SYSTEM TYPE	ALTITUDE FACTOR	FLOOR AREA (SQFT )	MAX PEOPLE		IR CAPACI	TY SEI	NSIBLE (SHR)	HEATING CAPACITY (KBTU/HR) (	COOLING EIR BTU/BTU)	HEATING EIR (BTU/BTU)	HEAT PUMP SUPP-HEAT (KBTU/HR)	
PVVT	1.001	2478.2	3.	0.2	22.8	93	0.742	-20.603	0.266	0.271	-14.614	
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				
SUPPLY	764.	1.00	0.229	0.94	1.0	0.41	0.62	DRAW-THRU	CONSTANT	1.00	0.30	

	SUPPLY	EXHAUST		MINIMUM	OUTSIDE	COOLING	E	XTRACTION	HEATING	ADDITION	
ZONE	FLOW	FLOW	FAN	FLOW	AIR FLOW	CAPACITY	SENSIBLE	RATE	CAPACITY	RATE 2	ZONE
NAME	(CFM )	(CFM )	(KW)	(FRAC)	(CFM )	(KBTU/HR)	(FRAC)	(KBTU/HR)	(KBTU/HR)	(KBTU/HR) N	MULT
L5A West Perim Zn (G.W21)T	764.	0.	0.000	0.220	165.	0.00	0.00	18.87	0.00	-6.36	1.

REPORT- S	SV-A	System	Design	Parameters	for	L5A	(G.SW22)	APT1	PTHP
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WEATHER FILE- SEATTLE BOEING FI WA	W	<i>I</i> EATHER	FILE-	SEATTLE	BOEING	FΙ	WA
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		FLOOR		OUTSI	IDE COOLI	NG		HEATING	COOLING	HEATING	HEAT PUMP	
SYSTEM	ALTITUDE	AREA	MAX	I	AIR CAPACI	TY SE	NSIBLE	CAPACITY	EIR	EIR	SUPP-HEAT	
TYPE	FACTOR	(SQFT )	PEOPLE	RAT	TIO (KBTU/H	IR)	(SHR)	(KBTU/HR)	(BTU/BTU)	(BTU/BTU)	(KBTU/HR)	
PVVT	1.001	944.2	1.	0.1	120 15.7	97	0.742	-14.217	0.266	0.271	-7.841	
		DIVERSITY	POWER	FAN	STATIC	TOTAL	MECH	I		MAX FAN	MIN FAN	
FAN	CAPACITY	FACTOR	DEMAND	DELTA-T	PRESSURE	EFF	EFF	FA FA	N FAI	N RATIO	RATIO	
TYPE	(CFM )	(FRAC)	(KW)	(F)	(IN-WATER)	(FRAC)	(FRAC)	PLACEMEN	T CONTROL	L (FRAC)	(FRAC)	
SUPPLY	527.	1.00	0.158	0.94	1.0	0.40	0.62	DRAW-THR	U CONSTAN	r 1.00	0.30	

<sup>\*\*\*</sup> THE ABOVE CHARACTERISTICS ARE FOR EACH OF: 1 AIR HANDLERS

	SUPPLY	EXHAUST		MINIMUM	OUTSIDE	COOLING	E	EXTRACTION	HEATING	ADDITION	
ZONE	FLOW	FLOW	FAN	FLOW	AIR FLOW	CAPACITY	SENSIBLE	RATE	CAPACITY	RATE ZON	ΙE
NAME	(CFM )	(CFM )	(KW)	(FRAC)	(CFM )	(KBTU/HR)	(FRAC)	(KBTU/HR)	(KBTU/HR)	(KBTU/HR) MUL	Т
L5A SW Perim Zn (G.SW22) 1	527.	0.	0.000	0.236	63.	0.00	0.00	15.39	0.00	-4.72 1	

REPORT-	SV-A	System	Design	Parameters	for	L5A	(G.S24)	APT3	PTHP
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WEATHER	FILE-	SEF	TTLE	BOEING	F.T	WA	
COOLING	HEATI	1G	HEAT	PUMP			

		FLOOR		OUTSI	DE COOLI	NG		HEATING	COOLING	HEATING	HEAT PUMP
SYSTEM	ALTITUDE	AREA	MAX	X A	IR CAPACI	TY SE	NSIBLE	CAPACITY	EIR	EIR	SUPP-HEAT
TYPE	FACTOR	(SQFT )	PEOPLE	RAT	IO (KBTU/H	R)	(SHR)	(KBTU/HR)	(BTU/BTU)	(BTU/BTU)	(KBTU/HR)
PVVT	1.001	1832.5	2.	0.1	23 29.7	51	0.742	-26.776	0.266	0.271	-13.388
		DIVERSITY	POWER	FAN	STATIC	TOTAL	MECH			MAX FAN	MIN FAN
FAN	CAPACITY	FACTOR	DEMAND	DELTA-T	PRESSURE	EFF	EFF	' FAI	N FAI	N RATIO	RATIO
TYPE	(CFM )	(FRAC)	(KW)	(F)	(IN-WATER)	(FRAC)	(FRAC)	PLACEMENT	r controi	(FRAC)	(FRAC)
SUPPLY	992.	1.00	0.298	0.94	1.2	0.47	0.62	DRAW-THRU	J CONSTANT	г 1.00	0.30

	SUPPLY	EXHAUST		MINIMUM	OUTSIDE	COOLING	E	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
L5A South Perim Zn (G.S24P	992.	0.	0.000	0.154	122.	0.00	0.00	28.80	0.00	-5.80	1.

REPORT-	SV-A	System	Design	Parameters	for	L5B	(G.N4)	APT4	PTHP
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	SEATTLE		

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		FLOOR		OUTS	IDE COOLI	NG		HEATING	COOLING	HEATING	HEAT PUMP	
SYSTEM	ALTITUDE	AREA	MAX	I	AIR CAPACI	TY SE	NSIBLE	CAPACITY	EIR	EIR	SUPP-HEAT	
TYPE	FACTOR	(SQFT )	PEOPLE	RAT	rio (KBTU/H	IR)	(SHR)	(KBTU/HR)	(BTU/BTU)	(BTU/BTU)	(KBTU/HR)	
PVVT	1.001	2928.0	4.	0.1	162 36.1	.76	0.742	-32.558	0.266	0.271	-19.729	
		DIVERSITY	POWER	FAN	STATIC	TOTAL	MECH	I		MAX FAN	MIN FAN	
FAN	CAPACITY	FACTOR	DEMAND	DELTA-T	PRESSURE	EFF	EFF	FA	N FAI	N RATIO	RATIO	
TYPE	(CFM )	(FRAC)	(KW)	(F)	(IN-WATER)	(FRAC)	(FRAC)	PLACEMEN	T CONTROI	L (FRAC)	(FRAC)	
SUPPLY	1207.	1.00	0.362	0.94	1.2	0.47	0.62	DRAW-THR	U CONSTANT	r 1.00	0.30	

	SUPPLY	EXHAUST		MINIMUM	OUTSIDE	COOLING	E	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
L5B North Perim Zn (G.N4)T	1207.	0.	0.000	0.219	195.	0.00	0.00	34.50	0.00	-10.00	1.

		FLOOR		OUTSI	DE COOLI	NG		HEATING	COOLING	HEATING	HEAT PUMP	
SYSTEM	ALTITUDE	AREA	MAX		AIR CAPACI	TY SE	NSIBLE	CAPACITY	EIR	EIR	SUPP-HEAT	
TYPE	FACTOR	(SQFT )	PEOPLE	RAT	CIO (KBTU/H	IR)	(SHR)	(KBTU/HR)	(BTU/BTU)	(BTU/BTU)	(KBTU/HR)	
PVVT	1.001	984.0	1.	0.1	.19 16.5	15	0.742	-14.863	0.266	0.271	-10.101	
		DIVERSITY	POWER	FAN	STATIC	TOTAL	MECH	I		MAX FAN	MIN FAN	
FAN	CAPACITY	FACTOR	DEMAND	DELTA-T	PRESSURE	EFF	EFF	FA	AN FAI	N RATIO	RATIO	
TYPE	(CFM )	(FRAC)	(KW)	(F)	(IN-WATER)	(FRAC)	(FRAC)	PLACEMEN	T CONTROL	L (FRAC)	(FRAC)	
SUPPLY	551.	1.00	0.165	0.94	1.0	0.40	0.62	DRAW-THE	RU CONSTANT	г 1.00	0.30	

	SUPPLY	EXHAUST		MINIMUM	OUTSIDE	COOLING	I	EXTRACTION	HEATING	ADDITION	
ZONE	FLOW	FLOW	FAN	FLOW	AIR FLOW	CAPACITY	SENSIBLE	RATE	CAPACITY	RATE 2	ZONE
NAME	(CFM )	(CFM )	(KW)	(FRAC)	(CFM )	(KBTU/HR)	(FRAC)	(KBTU/HR)	(KBTU/HR)	(KBTU/HR) N	MULT
L5B East Perim Zn (G.E5) 1	551.	0.	0.000	0.329	66.	0.00	0.00	15.22	0.00	-6.88	1.

		FLOOR		OUTSI	DE COOLI	NG		HEATING	COOLING	HEATING	HEAT PUMP	
SYSTEM	ALTITUDE	AREA	MAX	I	AIR CAPACI	TY SE	NSIBLE	CAPACITY	EIR	EIR	SUPP-HEAT	
TYPE	FACTOR	(SQFT )	PEOPLE	RAT	CIO (KBTU/H	IR)	(SHR)	(KBTU/HR)	(BTU/BTU)	(BTU/BTU)	(KBTU/HR)	
PVVT	1.001	765.0	1.	0.1	.80 8.4	198	0.742	-7.648	0.266	0.271	-6.835	
		DIVERSITY	POWER	FAN	STATIC	TOTAL	MECH	I		MAX FAN	MIN FAN	
FAN	CAPACITY	FACTOR	DEMAND	DELTA-T	PRESSURE	EFF	EFF	r FA	AN FAI	N RATIO	RATIO	
TYPE	(CFM )	(FRAC)	(KW)	(F)	(IN-WATER)	(FRAC)	(FRAC)	PLACEMEN	NT CONTROL	L (FRAC)	(FRAC)	
SUPPLY	283.	1.00	0.085	0.94	0.9	0.34	0.62	DRAW-THE	RU CONSTANT	г 1.00	0.30	

	SUPPLY	EXHAUST		MINIMUM	OUTSIDE	COOLING	I	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) I	MULT
L5B West Perim Zn (G.W6) 1	283.	0.	0.000	0.402	51.	0.00	0.00	7.95	0.00	-4.32	1.

				) dcd						SK FIDE SE		
		FLOOR		OUTSI	IDE COOLI	NG		HEATING	COOLING	HEATING	HEAT PUMP	
SYSTEM	ALTITUDE	AREA	MAX	. I	AIR CAPACI	TY SE	NSIBLE	CAPACITY	EIR	EIR	SUPP-HEAT	
TYPE	FACTOR	(SQFT )	PEOPLE	RAT	TIO (KBTU/H	R)	(SHR)	(KBTU/HR)	(BTU/BTU)	(BTU/BTU)	(KBTU/HR)	
PVVT	1.001	654.5	1.	0.2	230 5.6	94	0.742	-5.124	0.266	0.271	-3.396	
		DIVERSITY	POWER	FAN	STATIC	TOTAL	MECH	I		MAX FAN	MIN FAN	
FAN	CAPACITY	FACTOR	DEMAND	DELTA-T	PRESSURE	EFF	EFF	' FA	n fai	N RATIO	RATIO	
TYPE	(CFM )	(FRAC)	(KW)	(F)	(IN-WATER)	(FRAC)	(FRAC)	PLACEMEN	T CONTROL	L (FRAC)	(FRAC)	
SUPPLY	190.	1.00	0.057	0.94	0.8	0.30	0.62	DRAW-THR	U CONSTANT	г 1.00	0.30	

	SUPPLY	EXHAUST		MINIMUM	OUTSIDE	COOLING	E	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
L5B West Perim Zn (G.W7) 1	190.	0.	0.000	0.230	44.	0.00	0.00	4.48	0.00	-1.22	1.

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		FLOOR		OUTSI	DE COOLI	NG		HEATING	COOLING	HEATING	HEAT PUMP	
SYSTEM	ALTITUDE	AREA	MAX	A	IR CAPACI	TY SE	NSIBLE	CAPACITY	EIR	EIR	SUPP-HEAT	
TYPE	FACTOR	(SQFT )	PEOPLE	RAT	IO (KBTU/H	R)	(SHR)	(KBTU/HR)	(BTU/BTU)	(BTU/BTU)	(KBTU/HR)	
PVVT	1.001	628.5	1.	0.1	.95 6.4	60	0.742	-5.814	0.266	0.271	-3.499	
		DIVERSITY	POWER	FAN	STATIC	TOTAL	MECH	H.		MAX FAN	MIN FAN	
FAN	CAPACITY	FACTOR	DEMAND	DELTA-T	PRESSURE	EFF	EFF	F FA	N FAN	N RATIO	RATIO	
TYPE	(CFM )	(FRAC)	(KW)	(F)	(IN-WATER)	(FRAC)	(FRAC)	PLACEMEN	T CONTROL	(FRAC)	(FRAC)	
SUPPLY	215.	1.00	0.065	0.94	0.9	0.34	0.62	2 DRAW-THR	U CONSTANT	1.00	0.30	

	SUPPLY	EXHAUST		MINIMUM	OUTSIDE	COOLING	E	XTRACTION	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
L5B East Perim Zn (G.E8) 1	215.	0.	0.000	0.195	42.	0.00	0.00	5.89	0.00	-1.41	1.

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		FLOOR		OUTSI	IDE COOLI	NG		HEATING	COOLING	HEATING	HEAT PUMP	
SYSTEM	ALTITUDE	AREA	MAX	I	AIR CAPACI	TY SE	NSIBLE	CAPACITY	EIR	EIR	SUPP-HEAT	
TYPE	FACTOR	(SQFT )	PEOPLE	RAT	TIO (KBTU/H	IR)	(SHR)	(KBTU/HR)	(BTU/BTU)	(BTU/BTU)	(KBTU/HR)	
PVVT	1.001	789.0	1.	0.1	110 14.3	15	0.742	-12.883	0.266	0.271	-8.758	
		DIVERSITY	POWER	FAN	STATIC	TOTAL	MECH	I		MAX FAN	MIN FAN	
FAN	CAPACITY	FACTOR	DEMAND	DELTA-T	PRESSURE	EFF	EFF	FA FA	N FAI	N RATIO	RATIO	
TYPE	(CFM )	(FRAC)	(KW)	(F)	(IN-WATER)	(FRAC)	(FRAC)	PLACEMEN	T CONTROI	(FRAC)	(FRAC)	
SUPPLY	478.	1.00	0.143	0.94	1.0	0.40	0.62	DRAW-THR	U CONSTANT	1.00	0.30	

	SUPPLY	EXHAUST		MINIMUM	OUTSIDE	COOLING	I	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
L5B East Perim Zn (G.E9) 1	478.	0.	0.000	0.342	53.	0.00	0.00	12.26	0.00	-6.19	1.

REPORT- SV-A	System	Design	Parameters	for	L5B	(G.S10)	APT7	PTHP
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WEATHER	FILE-	SEATTLE	BOEING	FΙ	WA	

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		FLOOR		OUTSI	DE COOLI	NG		HEATING	COOLING	HEATING	HEAT PUMP	
SYSTEM	ALTITUDE	AREA	MAX		AIR CAPACI	TY SE	NSIBLE	CAPACITY	EIR	EIR	SUPP-HEAT	
TYPE	FACTOR	(SQFT )	PEOPLE	RAT	CIO (KBTU/H	IR)	(SHR)	(KBTU/HR)	(BTU/BTU)	(BTU/BTU)	(KBTU/HR)	
PVVT	1.001	3981.5	5.	0.1	.35 58.9	01	0.742	-53.011	0.266	0.271	-26.506	
		DIVERSITY	POWER	FAN	STATIC	TOTAL	MECH	I		MAX FAN	MIN FAN	
FAN	CAPACITY	FACTOR	DEMAND	DELTA-T	PRESSURE	EFF	EFF	FA FA	N FAI	N RATIO	RATIO	
TYPE	(CFM )	(FRAC)	(KW)	(F)	(IN-WATER)	(FRAC)	(FRAC)	PLACEMEN	T CONTROL	L (FRAC)	(FRAC)	
SUPPLY	1965.	1.00	0.589	0.94	1.3	0.51	0.62	DRAW-THR	U CONSTAN	г 1.00	0.30	

	SUPPLY	EXHAUST		MINIMUM	OUTSIDE	COOLING	E	EXTRACTION	HEATING	ADDITION	
ZONE	FLOW	FLOW	FAN	FLOW	AIR FLOW	CAPACITY	SENSIBLE	RATE	CAPACITY	RATE 2	ZONE
NAME	(CFM )	(CFM )	(KW)	(FRAC)	(CFM )	(KBTU/HR)	(FRAC)	(KBTU/HR)	(KBTU/HR)	(KBTU/HR) N	MULT
L5B South Perim Zn (G.S10P	1965.	0.	0.000	0.169	266.	0.00	0.00	55.95	0.00	-12.55	1.

REPORT- SV-A System Design Parameters for L5B (G.E19) APT1 PTHP

WEATHER FILE- SEATTLE BOEING FI WA

REPORT S	v-A System	Design Fara	IOI		) APII				mEAINI 		AIILE BOEIN	3 LT W
		FLOOR		OUTSI	DE COOLI	NG		HEATING	COOLING	HEATING	HEAT PUMP	
SYSTEM	ALTITUDE	AREA	MAX	I P	AIR CAPACI	TY SE	NSIBLE	CAPACITY	EIR	EIR	SUPP-HEAT	
TYPE	FACTOR	(SQFT )	PEOPLE	RAT	CIO (KBTU/H	IR)	(SHR)	(KBTU/HR)	(BTU/BTU)	(BTU/BTU)	(KBTU/HR)	
PVVT	1.001	714.0	1.	0.1	.04 13.7	75	0.742	-12.397	0.266	0.271	-8.734	
		DIVERSITY	POWER	FAN	STATIC	TOTAL	MECH	I		MAX FAN	MIN FAN	
FAN	CAPACITY	FACTOR	DEMAND	DELTA-T	PRESSURE	EFF	EFF	FA FA	N FAI	N RATIO	RATIO	
TYPE	(CFM )	(FRAC)	(KW)	(F)	(IN-WATER)	(FRAC)	(FRAC)	PLACEMEN	T CONTROL	L (FRAC)	(FRAC)	
SUPPLY	460.	1.00	0.138	0.94	1.0	0.40	0.62	DRAW-THR	U CONSTANT	r 1.00	0.30	

	SUPPLY	EXHAUST		MINIMUM	OUTSIDE	COOLING	I	EXTRACTION	HEATING	ADDITION	
ZONE	FLOW	FLOW	FAN	FLOW	AIR FLOW	CAPACITY	SENSIBLE	RATE	CAPACITY	RATE ZON	ΝE
NAME	(CFM )	(CFM )	(KW)	(FRAC)	(CFM )	(KBTU/HR)	(FRAC)	(KBTU/HR)	(KBTU/HR)	(KBTU/HR) MUI	LT
L5B East Perim Zn (G.E19)T	460.	0.	0.000	0.368	48.	0.00	0.00	12.02	0.00	-6.42	1.

REPORT- SV-A	System	Design	Parameters	for	L6A	(G.E13)	APT4	PTHP
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	WEATHER	FILE-	SEATTLE	BOEING	FI	WA
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KEFOKI 5	v A System	Design rara	IOI	JOA (C	3.E13/ AF14				WEATH	SK FIDE SE	ATTE BOETN	3 F.I
		FLOOR		OUTSI	IDE COOLI	NG		HEATING	COOLING	HEATING	HEAT PUMP	
SYSTEM	ALTITUDE	AREA	MAX	I	AIR CAPACI	TY SE	NSIBLE	CAPACITY	EIR	EIR	SUPP-HEAT	
TYPE	FACTOR	(SQFT )	PEOPLE	RAT	TIO (KBTU/H	IR)	(SHR)	(KBTU/HR)	(BTU/BTU)	(BTU/BTU)	(KBTU/HR)	
PVVT	1.001	2229.8	3.	0.1	191 23.3	166	0.742	-21.030	0.266	0.271	-13.093	
		DIVERSITY	POWER	FAN	STATIC	TOTAL	MECH			MAX FAN	MIN FAN	
FAN	CAPACITY	FACTOR	DEMAND	DELTA-T	PRESSURE	EFF	EFF	' FAI	N FAI	N RATIO	RATIO	
TYPE	(CFM )	(FRAC)	(KW)	(F)	(IN-WATER)	(FRAC)	(FRAC)	PLACEMEN'	r controi	L (FRAC)	(FRAC)	
SUPPLY	779.	1.00	0.234	0.94	1.0	0.41	0.62	DRAW-THR	I CONSTANT	г 1.00	0.30	

<sup>\*\*\*</sup> THE ABOVE CHARACTERISTICS ARE FOR EACH OF: 1 AIR HANDLERS

	SUPPLY	EXHAUST		MINIMUM	OUTSIDE	COOLING	E	XTRACTION	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
L6A East Perim Zn (G.E13)T	779.	0.	0.000	0.192	149.	0.00	0.00	20.34	0.00	-5.66	1.

PEDODT-	C17_7	System Design	Darameters	for	Τ.67	(C NW17)	APT1 PTHP
KEPOKI-	5 V - A	System Design	Parameters	TOT	LOA	(G.NWI/)	APII PIHP

REPORT- S	V-A System D	esign Param	eters for	L6A (G.NW	17) APT1 PT	HP		WEATH	ER FILE- SE	ATTLE 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)	(KBTU/HR)	
PVVT	1.001	731.2	1.	0.139	10.552	0.742	-9.497	0.266	0.271	-7.738	

PVVT	1.001	731.2	1.	0.1	139 10.5	52	0.742	-9.497	0.266	0.271	-7.738
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	352.	1.00	0.106	0.94	1.0	0.37	0.62	DRAW-THRU	CONSTANT	1.00	0.30

	SUPPLY	EXHAUST		MINIMUM	OUTSIDE	COOLING	I	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
L6A NW Perim Zn (G.NW17) 1	352.	0.	0.000	0.401	49.	0.00	0.00	10.99	0.00	-5.35	1.

REPORT- SV		Design Fara	IOI		API3				mraaw	SK FILE- SE	AIILE BOEING	W
		FLOOR		OUTSI	IDE COOLI	NG		HEATING	COOLING	HEATING	HEAT PUMP	
SYSTEM	ALTITUDE	AREA	MAX	. I	AIR CAPACI	TY SE	NSIBLE	CAPACITY	EIR	EIR	SUPP-HEAT	
TYPE	FACTOR	(SQFT )	PEOPLE	RAT	TIO (KBTU/H	R)	(SHR)	(KBTU/HR)	(BTU/BTU)	(BTU/BTU)	(KBTU/HR)	
PVVT	1.001	1404.0	2.	0.1	137 20.5	21	0.742	-18.469	0.266	0.271	-11.768	
		DIVERSITY	POWER	FAN	STATIC	TOTAL	MECH	I		MAX FAN	MIN FAN	
FAN	CAPACITY	FACTOR	DEMAND	DELTA-T	PRESSURE	EFF	EFF	FAI	ı FAN	N RATIO	RATIO	
TYPE	(CFM )	(FRAC)	(KW)	(F)	(IN-WATER)	(FRAC)	(FRAC)	PLACEMEN'	r controi	(FRAC)	(FRAC)	
SUPPLY	685.	1.00	0.205	0.94	1.0	0.41	0.62	DRAW-THRU	J CONSTANT	1.00	0.30	

	SUPPLY	EXHAUST		MINIMUM	OUTSIDE	COOLING	EXTRACTION		HEATING	ADDITION	
ZONE	FLOW	FLOW	FAN	FLOW	AIR FLOW	CAPACITY	SENSIBLE	RATE	CAPACITY	RATE 2	ZONE
NAME	(CFM )	(CFM )	(KW)	(FRAC)	(CFM )	(KBTU/HR)	(FRAC)	(KBTU/HR)	(KBTU/HR)	(KBTU/HR) N	MULT
L6A North Perim Zn (G.N18P	685.	0.	0.000	0.275	94.	0.00	0.00	20.23	0.00	-7.14	1.

REPORT- SV-	-A System	Design	Parameters	for	L6A	(G.W21)	APT4 PTHP	,
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	SEATTLE		

			LOA (G.WZI) AFIT FINF					WEATHER FIDE SEATTLE BORING FI W				
		FLOOR		OUTSI	DE COOLI	NG		HEATING	COOLING	HEATING	HEAT PUMP	
SYSTEM	ALTITUDE	AREA	MAX		AIR CAPACI	TY SE	NSIBLE	CAPACITY	EIR	EIR	SUPP-HEAT	
TYPE	FACTOR	(SQFT )	PEOPLE	RAT	CIO (KBTU/H	IR)	(SHR)	(KBTU/HR)	(BTU/BTU)	(BTU/BTU)	(KBTU/HR)	
PVVT	1.001	2478.2	3.	0.1	.92 25.8	58	0.742	-23.272	0.266	0.271	-16.194	
		DIVERSITY	POWER	FAN	STATIC	TOTAL	MECH	I		MAX FAN	MIN FAN	
FAN	CAPACITY	FACTOR	DEMAND	DELTA-T	PRESSURE	EFF	EFF	FA	an fan	RATIO	RATIO	
TYPE	(CFM )	(FRAC)	(KW)	(F)	(IN-WATER)	(FRAC)	(FRAC)	PLACEMEN	IT CONTROL	(FRAC)	(FRAC)	
SUPPLY	863.	1.00	0.259	0.94	1.2	0.47	0.62	DRAW-THE	U CONSTANT	1.00	0.30	

	SUPPLY	EXHAUST		MINIMUM	OUTSIDE	COOLING	E	XTRACTION	HEATING	ADDITION	
ZONE	FLOW	FLOW	FAN	FLOW	AIR FLOW	CAPACITY	SENSIBLE	RATE	CAPACITY	RATE ZONE	i
NAME	(CFM )	(CFM )	(KW)	(FRAC)	(CFM )	(KBTU/HR)	(FRAC)	(KBTU/HR)	(KBTU/HR)	(KBTU/HR) MULT	!
I.6A West Derim Zn (G W21)T	863	0	0 000	0 243	165	0 00	0 00	21 77	0 00	-7 96 1	

REPORT- SV-A	System Design	Parameters	for	L6A	(G.SW22)	APT1	PTHP
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		FLOOR		OUTSI	DE COOLI	NG		HEATING	COOLING	HEATING	HEAT PUMP
SYSTEM	ALTITUDE	AREA	MAX	. A	IR CAPACI	TY SE	NSIBLE	CAPACITY	EIR	EIR	SUPP-HEAT
TYPE	FACTOR	(SQFT )	PEOPLE	RAT	'IO (KBTU/H	R)	(SHR)	(KBTU/HR)	(BTU/BTU)	(BTU/BTU)	(KBTU/HR)
PVVT	1.001	944.2	1.	0.1	18 16.0	20	0.742	-14.418	0.266	0.271	-7.954
		DIVERSITY	POWER	FAN	STATIC	TOTAL	MECH			MAX FAN	MIN FAN
FAN	CAPACITY	FACTOR	DEMAND	DELTA-T	PRESSURE	EFF	EFF	' FAI	N FAI	N RATIO	RATIO
TYPE	(CFM )	(FRAC)	(KW)	(F)	(IN-WATER)	(FRAC)	(FRAC)	PLACEMEN'	r control	L (FRAC)	(FRAC)
SUPPLY	534.	1.00	0.160	0.94	1.0	0.40	0.62	DRAW-THR	U CONSTAN	r 1.00	0.30

	SUPPLY	EXHAUST		MINIMUM	OUTSIDE	COOLING	E	XTRACTION	HEATING	ADDITION	
ZONE	FLOW	FLOW	FAN	FLOW	AIR FLOW	CAPACITY	SENSIBLE	RATE	CAPACITY	RATE ZO	ONE
NAME	(CFM )	(CFM )	(KW)	(FRAC)	(CFM )	(KBTU/HR)	(FRAC)	(KBTU/HR)	(KBTU/HR)	(KBTU/HR) MU	ULT
L6A SW Perim Zn (G.SW22) 1	534.	0.	0.000	0.239	63.	0.00	0.00	15.61	0.00	-4.84	1.

REPORT- SV-A System Design Parameters for L6A (G.S24) APT3 PTHP

WEATHER FILE- SEATTLE BOEING FI WA

KEFORT SV	A System				AFI3				WEATH	SK FIDE SE	ATIDE BOEIN	, r.
		FLOOR		OUTSI	IDE COOLI	NG		HEATING	COOLING	HEATING	HEAT PUMP	
SYSTEM	ALTITUDE	AREA	MAX	P	AIR CAPACI	TY SE	NSIBLE	CAPACITY	EIR	EIR	SUPP-HEAT	
TYPE	FACTOR	(SQFT )	PEOPLE	RAT	TIO (KBTU/H	IR)	(SHR)	(KBTU/HR)	(BTU/BTU)	(BTU/BTU)	(KBTU/HR)	
PVVT	1.001	1832.5	2.	0.1	117 31.2	52	0.742	-28.127	0.266	0.271	-14.063	
		DIVERSITY	POWER	FAN	STATIC	TOTAL	MECH	I		MAX FAN	MIN FAN	
FAN	CAPACITY	FACTOR	DEMAND	DELTA-T	PRESSURE	EFF	EFF	r F	AN FAI	N RATIO	RATIO	
TYPE	(CFM )	(FRAC)	(KW)	(F)	(IN-WATER)	(FRAC)	(FRAC)	PLACEMEN	NT CONTROL	L (FRAC)	(FRAC)	
SUPPLY	1043.	1.00	0.313	0.94	1.2	0.47	0.62	DRAW-THI	RU CONSTANT	г 1.00	0.30	

	SUPPLY	EXHAUST		MINIMUM	OUTSIDE	COOLING	E	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
L6A South Perim Zn (G.S24P	1043.	0.	0.000	0.177	122.	0.00	0.00	30.41	0.00	-6.99	1.

REPORT-	SV-A	System	Design	Parameters	for	L6B	(G.N4)	APT4	PTHP
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WEATHER FILE- SEATTLE BOEING FI V	MEAIHER	WA
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		FLOOR		OUTS	DE COOLI	NG		HEATING	COOLING	HEATING	HEAT PUMP	
SYSTEM	ALTITUDE	AREA	MAX		AIR CAPACI	TY SE	NSIBLE	CAPACITY	EIR	EIR	SUPP-HEAT	
TYPE	FACTOR	(SQFT )	PEOPLE	RAT	TIO (KBTU/H	IR)	(SHR)	(KBTU/HR)	(BTU/BTU)	(BTU/BTU)	(KBTU/HR)	
PVVT	1.001	2928.0	4.	0.1	159 36.8	197	0.742	-33.207	0.266	0.271	-20.295	
		DIVERSITY	POWER	FAN	STATIC	TOTAL	MECH	I		MAX FAN	MIN FAN	
FAN	CAPACITY	FACTOR	DEMAND	DELTA-T	PRESSURE	EFF	EFF	FA	N FAI	N RATIO	RATIO	
TYPE	(CFM )	(FRAC)	(KW)	(F)	(IN-WATER)	(FRAC)	(FRAC)	PLACEMEN	T CONTRO	L (FRAC)	(FRAC)	
SUPPLY	1231.	1.00	0.369	0.94	1.2	0.47	0.62	DRAW-THR	U CONSTAN	T 1.00	0.30	

	SUPPLY	EXHAUST		MINIMUM	OUTSIDE	COOLING	I	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
L6B North Perim Zn (G.N4)T	1231.	0.	0.000	0.227	195.	0.00	0.00	35.72	0.00	-10.58	1.

REPORT S		Design Fara	IOI	OD (0	APII P				WEAIRI		AIILE BOEIN	
		FLOOR		OUTSI	DE COOLI	NG		HEATING	COOLING	HEATING	HEAT PUMP	
SYSTEM	ALTITUDE	AREA	MAX	. I	AIR CAPACI	TY SE	NSIBLE	CAPACITY	EIR	EIR	SUPP-HEAT	
TYPE	FACTOR	(SQFT )	PEOPLE	RAT	CIO (KBTU/H	R)	(SHR)	(KBTU/HR)	(BTU/BTU)	(BTU/BTU)	(KBTU/HR)	
PVVT	1.001	984.0	1.	0.1	.15 17.0	71	0.742	-15.364	0.266	0.271	-10.244	
		DIVERSITY	POWER	FAN	STATIC	TOTAL	MECH	I		MAX FAN	MIN FAN	
FAN	CAPACITY	FACTOR	DEMAND	DELTA-T	PRESSURE	EFF	EFF	FAI	n FAi	N RATIO	RATIO	
TYPE	(CFM )	(FRAC)	(KW)	(F)	(IN-WATER)	(FRAC)	(FRAC)	PLACEMEN'	r controi	L (FRAC)	(FRAC)	
SUPPLY	569.	1.00	0.171	0.94	1.0	0.40	0.62	DRAW-THRU	J CONSTANT	r 1.00	0.30	

	SUPPLY	EXHAUST		MINIMUM	OUTSIDE	COOLING	I	EXTRACTION	HEATING	ADDITION	
ZONE	FLOW	FLOW	FAN	FLOW	AIR FLOW	CAPACITY	SENSIBLE	RATE	CAPACITY	RATE ZO	ONE
NAME	(CFM )	(CFM )	(KW)	(FRAC)	(CFM )	(KBTU/HR)	(FRAC)	(KBTU/HR)	(KBTU/HR)	(KBTU/HR) MU	ULT
L6B East Perim Zn (G.E5) 1	569.	0.	0.000	0.325	66.	0.00	0.00	15.31	0.00	-7.03	1.

REPORT- SV-	A System	Design	Parameters	for	L6B	(G.W6)	APT1 PTHE	>
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		WEATHER	FILE-	SEATTLE	BOEING	FΙ	WA
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		FLOOR		OUTS	DE COOLI	NG		HEATING	COOLING	HEATING	HEAT PUMP	
SYSTEM	ALTITUDE	AREA	MAX	. I	AIR CAPACI	TY SE	NSIBLE	CAPACITY	EIR	EIR	SUPP-HEAT	
TYPE	FACTOR	(SQFT )	PEOPLE	RAT	CIO (KBTU/H	R)	(SHR)	(KBTU/HR)	(BTU/BTU)	(BTU/BTU)	(KBTU/HR)	
PVVT	1.001	765.0	1.	0.1	.70 8.9	79	0.742	-8.081	0.266	0.271	-6.844	
		DIVERSITY	POWER	FAN	STATIC	TOTAL	MECH	ł		MAX FAN	MIN FAN	
FAN	CAPACITY	FACTOR	DEMAND	DELTA-T	PRESSURE	EFF	EFF	F F	AN FAI	N RATIO	RATIO	
TYPE	(CFM )	(FRAC)	(KW)	(F)	(IN-WATER)	(FRAC)	(FRAC)	PLACEMEN	NT CONTROL	L (FRAC)	(FRAC)	
SUPPLY	300.	1.00	0.090	0.94	0.9	0.34	0.62	2 DRAW-THI	RU CONSTANT	г 1.00	0.30	

	SUPPLY	EXHAUST		MINIMUM	OUTSIDE	COOLING	E	EXTRACTION	HEATING	ADDITION	
ZONE	FLOW	FLOW	FAN	FLOW	AIR FLOW	CAPACITY	SENSIBLE	RATE	CAPACITY	RATE ZO	NE
NAME	(CFM )	(CFM )	(KW)	(FRAC)	(CFM )	(KBTU/HR)	(FRAC)	(KBTU/HR)	(KBTU/HR)	(KBTU/HR) MU	ЛТ
L6B West Perim Zn (G.W6) 1	300.	0.	0.000	0.381	51.	0.00	0.00	8.34	0.00	-4.33	1.

REPORT- S	SV-A	System	Design	Parameters	for	L6B	(G.W7)	APT1	PTHP
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WEATHER	F.TPE-	SEATTLE	BOEING	FΤ	WA

		FLOOR		OUTSI	IDE COOLI	NG		HEATING	COOLING	HEATING	HEAT PUMP
SYSTEM	ALTITUDE	AREA	MAX	. I	AIR CAPACI	TY SE	NSIBLE	CAPACITY	EIR	EIR	SUPP-HEAT
TYPE	FACTOR	(SQFT )	PEOPLE	RAT	TIO (KBTU/H	IR)	(SHR)	(KBTU/HR)	(BTU/BTU)	(BTU/BTU)	(KBTU/HR)
PVVT	1.001	654.5	1.	0.2	227 5.7	81	0.742	-5.203	0.266	0.271	-3.399
		DIVERSITY	POWER	FAN	STATIC	TOTAL	MECH	ł		MAX FAN	MIN FAN
FAN	CAPACITY	FACTOR	DEMAND	DELTA-T	PRESSURE	EFF	EFF	F FA	N FAI	N RATIO	RATIO
TYPE	(CFM )	(FRAC)	(KW)	(F)	(IN-WATER)	(FRAC)	(FRAC)	PLACEMEN	T CONTROL	L (FRAC)	(FRAC)
SUPPLY	193.	1.00	0.058	0.94	0.8	0.30	0.62	2 DRAW-THR	.U CONSTAN	г 1.00	0.30

	SUPPLY	EXHAUST		MINIMUM	OUTSIDE	COOLING	E	EXTRACTION	HEATING	ADDITION	
ZONE	FLOW	FLOW	FAN	FLOW	AIR FLOW	CAPACITY	SENSIBLE	RATE	CAPACITY	RATE ZOI	NE
NAME	(CFM )	(CFM )	(KW)	(FRAC)	(CFM )	(KBTU/HR)	(FRAC)	(KBTU/HR)	(KBTU/HR)	(KBTU/HR) MUI	LT
I.6B West Perim Zn (G W7) 1	193.	0	0 000	0 227	44	0 00	0 00	4 55	0.00	-1 22	1

REPORT S		Design Fara	IOI	O 001					WEAIRI		AIILE BOEIN	
		FLOOR		OUTSI	IDE COOLI	NG		HEATING	COOLING	HEATING	HEAT PUMP	
SYSTEM	ALTITUDE	AREA	MAX	. A	AIR CAPACI	TY SE	NSIBLE	CAPACITY	EIR	EIR	SUPP-HEAT	
TYPE	FACTOR	(SQFT )	PEOPLE	RAT	TIO (KBTU/H	R)	(SHR)	(KBTU/HR)	(BTU/BTU)	(BTU/BTU)	(KBTU/HR)	
PVVT	1.001	628.5	1.	0.1	L87 6.7	22	0.742	-6.050	0.266	0.271	-3.501	
		DIVERSITY	POWER	FAN	STATIC	TOTAL	MECH	I		MAX FAN	MIN FAN	
FAN	CAPACITY	FACTOR	DEMAND	DELTA-T	PRESSURE	EFF	EFF	FAI	n FAI	N RATIO	RATIO	
TYPE	(CFM )	(FRAC)	(KW)	(F)	(IN-WATER)	(FRAC)	(FRAC)	PLACEMEN'	r controi	L (FRAC)	(FRAC)	
SUPPLY	224.	1.00	0.067	0.94	0.9	0.34	0.62	DRAW-THR	U CONSTANT	г 1.00	0.30	

	SUPPLY	EXHAUST		MINIMUM	OUTSIDE	COOLING	I	EXTRACTION	HEATING	ADDITION	
ZONE	FLOW	FLOW	FAN	FLOW	AIR FLOW	CAPACITY	SENSIBLE	RATE	CAPACITY	RATE 2	ZONE
NAME	(CFM )	(CFM )	(KW)	(FRAC)	(CFM )	(KBTU/HR)	(FRAC)	(KBTU/HR)	(KBTU/HR)	(KBTU/HR) N	MULT
L6B East Perim Zn (G.E8) 1	224.	0.	0.000	0.187	42.	0.00	0.00	5.73	0.00	-1.41	1.

REPORT-	SV-A	System	Design	Parameters	for	L6B	(G.E9)	APT1	PTHP
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WEATHER F	ILE- SI	EATTLE 1	BOEING	FΙ	WA
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KEPORI- SV	v-A System	Design Para	IOI	(	APII P				WEAINI	SE	AIILE BOEING	, FT A
		FLOOR		OUTSI	IDE COOLI	NG		HEATING	COOLING	HEATING	HEAT PUMP	
SYSTEM	ALTITUDE	AREA	MAX		AIR CAPACI	TY SE	NSIBLE	CAPACITY	EIR	EIR	SUPP-HEAT	
TYPE	FACTOR	(SQFT )	PEOPLE	RAT	TIO (KBTU/H	R)	(SHR)	(KBTU/HR)	(BTU/BTU)	(BTU/BTU)	(KBTU/HR)	
PVVT	1.001	789.0	1.	0.1	108 14.5	69	0.742	-13.112	0.266	0.271	-8.760	
		DIVERSITY	POWER	FAN	STATIC	TOTAL	MECH	I		MAX FAN	MIN FAN	
FAN	CAPACITY	FACTOR	DEMAND	DELTA-T	PRESSURE	EFF	EFF	F FA	N FAI	N RATIO	RATIO	
TYPE	(CFM )	(FRAC)	(KW)	(F)	(IN-WATER)	(FRAC)	(FRAC)	PLACEMEN	T CONTROL	L (FRAC)	(FRAC)	
SUPPLY	486.	1.00	0.146	0.94	1.0	0.40	0.62	2 DRAW-THR	U CONSTANT	г 1.00	0.30	

	SUPPLY	EXHAUST		MINIMUM	OUTSIDE	COOLING	E	XTRACTION	HEATING	ADDITION	
ZONE	FLOW	FLOW	FAN	FLOW	AIR FLOW	CAPACITY	SENSIBLE	RATE	CAPACITY	RATE ZONE	3
NAME	(CFM )	(CFM )	(KW)	(FRAC)	(CFM )	(KBTU/HR)	(FRAC)	(KBTU/HR)	(KBTU/HR)	(KBTU/HR) MULT	
LGR Fast Derim Zn (G F9) 1	486	0	0 000	0 336	53	0 00	0 00	12 66	0 00	-6 19 1	

REPORT- SV-A	A System	Design	Parameters	for	L6B	(G.S10)	APT7	PTHP
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	WEATHER	FILE-	SEATTLE	BOEING	FI	WA
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TELL OIGH DV	11 0/0000	Debign rara		202 (0	,				*********		DD DODIN	J 11 1111
SYSTEM TYPE	ALTITUDE FACTOR	FLOOR AREA (SQFT )	MAX PEOPLE		AIR CAPACI	TY SE	NSIBLE (SHR)	HEATING CAPACITY (KBTU/HR)	COOLING EIR (BTU/BTU)	HEATING EIR (BTU/BTU)	HEAT PUMP SUPP-HEAT (KBTU/HR)	
PVVT	1.001	3981.5	5.	0.1	.35 58.9	81	0.742	-53.083	0.266	0.271	-26.542	
FAN TYPE	CAPACITY (CFM )	DIVERSITY FACTOR (FRAC)	POWER DEMAND (KW)	FAN DELTA-T (F)	STATIC PRESSURE (IN-WATER)	TOTAL EFF (FRAC)		FAN				
SUPPLY	1968.	1.00	0.590	0.94	1.3	0.51	0.62	DRAW-THRU	J CONSTANT	1.00	0.30	

	SUPPLY	EXHAUST		MINIMUM	OUTSIDE	COOLING	E	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
L6B South Perim Zn (G.S10P	1968.	0.	0.000	0.168	266.	0.00	0.00	56.03	0.00	-12.55	1.

REPORT- SV-A System Design Parameters for  $\,$  L6B (G.E19) APT1 PTHP

WEATHER FILE- SEATTLE BOEING FI WA

		FLOOR		OUTSI	IDE COOLI	NG		HEATING	COOLING	HEATING	HEAT PUMP
SYSTEM	ALTITUDE	AREA	MAX	. I	AIR CAPACI	TY SE	NSIBLE	CAPACITY	EIR	EIR	SUPP-HEAT
TYPE	FACTOR	(SQFT )	PEOPLE	RAT	TIO (KBTU/H	IR)	(SHR)	(KBTU/HR)	(BTU/BTU)	(BTU/BTU)	(KBTU/HR)
PVVT	1.001	659.0	1.	0.0	15.0	21	0.742	-13.519	0.266	0.271	-9.256
		DIVERSITY	POWER	FAN	STATIC	TOTAL	MECH	I		MAX FAN	MIN FAN
FAN	CAPACITY	FACTOR	DEMAND	DELTA-T	PRESSURE	EFF	EFF	FA	N FAI	N RATIO	RATIO
TYPE	(CFM )	(FRAC)	(KW)	(F)	(IN-WATER)	(FRAC)	(FRAC)	PLACEMEN	T CONTROL	L (FRAC)	(FRAC)
SUPPLY	501.	1.00	0.150	0.94	1.0	0.40	0.62	DRAW-THR	U CONSTAN	г 1.00	0.30

	SUPPLY	EXHAUST		MINIMUM	OUTSIDE	COOLING	I	EXTRACTION	HEATING	ADDITION	
ZONE	FLOW	FLOW	FAN	FLOW	AIR FLOW	CAPACITY	SENSIBLE	RATE	CAPACITY	RATE 2	ZONE
NAME	(CFM )	(CFM )	(KW)	(FRAC)	(CFM )	(KBTU/HR)	(FRAC)	(KBTU/HR)	(KBTU/HR)	(KBTU/HR) N	MULT
L6B East Perim Zn (G.E19)T	501.	0.	0.000	0.376	44.	0.00	0.00	13.92	0.00	-7.14	1.

REPORT S		Design Fara	IOI	L/A (0	.EI3/ APIZ				WEAIRI		AIILE BOEIN	3 FI W
		FLOOR		OUTSI	DE COOLI	NG		HEATING	COOLING	HEATING	HEAT PUMP	
SYSTEM	ALTITUDE	AREA	MAX	. I	AIR CAPACI	TY SE	NSIBLE	CAPACITY	EIR	EIR	SUPP-HEAT	
TYPE	FACTOR	(SQFT )	PEOPLE	RAT	CIO (KBTU/H	R)	(SHR)	(KBTU/HR)	(BTU/BTU)	(BTU/BTU)	(KBTU/HR)	
PVVT	1.001	956.8	1.	0.1	.80 10.6	41	0.742	-9.577	0.266	0.271	-6.167	
		DIVERSITY	POWER	FAN	STATIC	TOTAL	MECH	I		MAX FAN	MIN FAN	
FAN	CAPACITY	FACTOR	DEMAND	DELTA-T	PRESSURE	EFF	EFE	FA:	n FAI	N RATIO	RATIO	
TYPE	(CFM )	(FRAC)	(KW)	(F)	(IN-WATER)	(FRAC)	(FRAC)	PLACEMEN	r controi	L (FRAC)	(FRAC)	
SUPPLY	355.	1.00	0.106	0.94	1.0	0.37	0.62	DRAW-THR	U CONSTANT	г 1.00	0.30	

	SUPPLY	EXHAUST		MINIMUM	OUTSIDE	COOLING	I	EXTRACTION	HEATING	ADDITION	
ZONE	FLOW	FLOW	FAN	FLOW	AIR FLOW	CAPACITY	SENSIBLE	RATE	CAPACITY	RATE Z	ZONE
NAME	(CFM )	(CFM )	(KW)	(FRAC)	(CFM )	(KBTU/HR)	(FRAC)	(KBTU/HR)	(KBTU/HR)	(KBTU/HR) M	MULT
L7A East Perim Zn (G.E13)T	355.	0.	0.000	0.222	64.	0.00	0.00	9.44	0.00	-2.98	1.

REPORT- SV-A System Design Parameters	for	L7A	(G.W18)	APT2	PTHP
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WEATHER FILE- SEATTLE BOEING F	EING FI W	ATTLE B	- 5	FILE-	WEATHER	
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		FLOOR		OUTSI	IDE COOLI	NG		HEATING	COOLING	HEATING	HEAT PUMP	
SYSTEM	ALTITUDE	AREA	MAX	I	AIR CAPACI	TY SE	ENSIBLE	CAPACITY	EIR	EIR	SUPP-HEAT	
TYPE	FACTOR	(SQFT )	PEOPLE	RAT	TIO (KBTU/H	IR)	(SHR)	(KBTU/HR)	(BTU/BTU)	(BTU/BTU)	(KBTU/HR)	
PVVT	1.001	999.0	1.	0.2	217 9.2	201	0.742	-8.281	0.266	0.271	-6.581	
		DIVERSITY	POWER	FAN	STATIC	TOTAL	MECH	H		MAX FAN	MIN FAN	
FAN	CAPACITY	FACTOR	DEMAND	DELTA-T	PRESSURE	EFF	ef E	F FA	N FAI	N RATIO	RATIO	
TYPE	(CFM )	(FRAC)	(KW)	(F)	(IN-WATER)	(FRAC)	(FRAC	) PLACEMEN	T CONTROL	L (FRAC)	(FRAC)	
SUPPLY	307.	1.00	0.092	0.94	0.9	0.34	0.62	2 DRAW-THR	U CONSTAN	r 1.00	0.30	

<sup>\*\*\*</sup> THE ABOVE CHARACTERISTICS ARE FOR EACH OF: 1 AIR HANDLERS

	SUPPLY	EXHAUST		MINIMUM	OUTSIDE	COOLING	E	EXTRACTION	HEATING	ADDITION	
ZONE	FLOW	FLOW	FAN	FLOW	AIR FLOW	CAPACITY	SENSIBLE	RATE	CAPACITY	RATE ZON	ΙE
NAME	(CFM )	(CFM )	(KW)	(FRAC)	(CFM )	(KBTU/HR)	(FRAC)	(KBTU/HR)	(KBTU/HR)	(KBTU/HR) MUL	Т
L7A West Perim Zn (G.W18)T	307.	0.	0.000	0.281	67.	0.00	0.00	7.73	0.00	-3.26 1	

REPORT- SV-A	System Design	Parameters	for	L7A	(G.SW19)	APT1 PTHP
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WEAT	HEF	L F	TLF	⊴-	SE	:AI	ТĿ	E	BO.	ĽL.	NG		F. T	-	W.	4	

		FLOOR		OUTSI	DE COOLI	NG		HEATING	COOLING	HEATING	HEAT PUMP
SYSTEM	ALTITUDE	AREA	MAX	. A	IR CAPACI	TY SE	NSIBLE	CAPACITY	EIR	EIR	SUPP-HEAT
TYPE	FACTOR	(SQFT )	PEOPLE	RAT	IO (KBTU/H	IR)	(SHR)	(KBTU/HR)	(BTU/BTU)	(BTU/BTU)	(KBTU/HR)
PVVT	1.001	891.8	1.	0.1	.19 14.9	33	0.742	-13.440	0.266	0.271	-7.668
		DIVERSITY	POWER	FAN	STATIC	TOTAL	MECH	I		MAX FAN	MIN FAN
FAN	CAPACITY	FACTOR	DEMAND	DELTA-T	PRESSURE	EFF	EFF	, FAI	N FAI	N RATIO	RATIO
TYPE	(CFM )	(FRAC)	(KW)	(F)	(IN-WATER)	(FRAC)	(FRAC)	PLACEMEN'	r controi	L (FRAC)	(FRAC)
SUPPLY	498.	1.00	0.149	0.94	1.0	0.40	0.62	DRAW-THR	J CONSTANT	г 1.00	0.30

<sup>\*\*\*</sup> THE ABOVE CHARACTERISTICS ARE FOR EACH OF: 1 AIR HANDLERS

	SUPPLY	EXHAUST		MINIMUM	OUTSIDE	COOLING	G 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
L7A SW Perim Zn (G.SW19) 1	498.	0.	0.000	0.250	60.	0.00	0.00	14.45	0.00	-4.73	1.

REPORT- SV-A	Creaton Dogian	Darametera	for T	77 / 0	.SSE23)	מידים ע	מעידים
KEPUKI- SV-A	System Design	Parameters	TOT T	1/A (G.	. DDE Z 3 /	APIZ	PIMP

REPORT- S'	V-A System D	esign Parame	eters for	L'/A (G.SS	E23) APT2 P	ГНР 	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			PEOPLE	RATIO (KBTU/HR)		(SHR)	(KBTU/HR)	(BTU/BTU)	(BTU/BTU)	(KBTU/HR)	
PVVT	1.001	1282.5	2.	0.111	23.091	0.742	-20.782	0.266	0.271	-10.946	

		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	770.	1.00	0.231	0.94	1.0	0.41	0.62	DRAW-THRU	CONSTANT	1.00	0.30

<sup>\*\*\*</sup> THE ABOVE CHARACTERISTICS ARE FOR EACH OF: 1 AIR HANDLERS

	SUPPLY	EXHAUST		MINIMUM	OUTSIDE	COOLING	I	EXTRACTION	HEATING	ADDITION	
ZONE	FLOW	FLOW	FAN	FLOW	AIR FLOW	CAPACITY	SENSIBLE	RATE	CAPACITY	RATE ZO	ONE
NAME	(CFM )	(CFM )	(KW)	(FRAC)	(CFM )	(KBTU/HR)	(FRAC)	(KBTU/HR)	(KBTU/HR)	(KBTU/HR) MU	JLT
L7A SSE Perim Zn (G.SSE23P	770.	0.	0.000	0.230	86.	0.00	0.00	22.37	0.00	-6.72	1.

	v n bybecm	Debign rara										
		FLOOR		OUTS	IDE COOLI	NG		HEATING	COOLING	HEATING	HEAT PUMP	
SYSTEM	ALTITUDE	AREA	MAX	. 1	AIR CAPACI	TY SE	NSIBLE	CAPACITY	EIR	EIR	SUPP-HEAT	
TYPE	FACTOR	(SQFT )	PEOPLE	RAT	rio (KBTU/H	IR)	(SHR)	(KBTU/HR)	BTU/BTU)	(BTU/BTU)	(KBTU/HR)	
PVVT	1.001	2668.0	3.	0.1	139 38.2	87	0.742	-34.458	0.266	0.271	-22.966	
		DIVERSITY	POWER	FAN	STATIC	TOTAL	MECH			MAX FAN	MIN FAN	
FAN	CAPACITY	FACTOR	DEMAND	DELTA-T	PRESSURE	EFF	EFF	' FAI	I FAN	N RATIO	RATIO	
TYPE	(CFM )	(FRAC)	(KW)	(F)	(IN-WATER)	(FRAC)	(FRAC)	PLACEMENT	CONTROL	(FRAC)	(FRAC)	
SUPPLY	1277.	1.00	0.383	0.94	1.2	0.48	0.62	DRAW-THRU	J CONSTANT	1.00	0.30	

	SUPPLY	EXHAUST		MINIMUM	OUTSIDE	COOLING	E	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
L7B North Perim Zn (G.N4)T	1277.	0.	0.000	0.293	178.	0.00	0.00	38.22	0.00	-14.17	1.

REFORT BY												
		FLOOR		OUTSI	IDE COOLI	NG		HEATING	COOLING	HEATING	HEAT PUMP	
SYSTEM	ALTITUDE	AREA	MAX	. I	AIR CAPACI	TY SE	NSIBLE	CAPACITY	EIR	EIR	SUPP-HEAT	
TYPE	FACTOR	(SQFT )	PEOPLE	RAT	TIO (KBTU/H	IR)	(SHR)	(KBTU/HR)	(BTU/BTU)	(BTU/BTU)	(KBTU/HR)	
PVVT	1.001	919.0	1.	0.0	19.2	24	0.742	-17.302	0.266	0.271	-11.478	
		DIVERSITY	POWER	FAN	STATIC	TOTAL	MECH	I		MAX FAN	MIN FAN	
FAN	CAPACITY	FACTOR	DEMAND	DELTA-T	PRESSURE	EFF	EFF	FA FA	n FAI	N RATIO	RATIO	
TYPE	(CFM )	(FRAC)	(KW)	(F)	(IN-WATER)	(FRAC)	(FRAC)	PLACEMEN	T CONTROL	L (FRAC)	(FRAC)	
SUPPLY	641.	1.00	0.192	0.94	1.0	0.41	0.62	DRAW-THR	U CONSTANT	r 1.00	0.30	

	SUPPLY	EXHAUST		MINIMUM	OUTSIDE	COOLING	E	EXTRACTION	HEATING	ADDITION	
ZONE	FLOW	FLOW	FAN	FLOW	AIR FLOW	CAPACITY	SENSIBLE	RATE	CAPACITY	RATE Z	ONE
NAME	(CFM )	(CFM )	(KW)	(FRAC)	(CFM )	(KBTU/HR)	(FRAC)	(KBTU/HR)	(KBTU/HR)	(KBTU/HR) MU	ULT
L7B East Perim Zn (G.E5) 1	641.	0.	0.000	0.350	61.	0.00	0.00	17.62	0.00	-8.50	1.

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		FLOOR		OUTSI	DE COOLI	NG		HEATING	COOLING	HEATING	HEAT PUMP	
SYSTEM	ALTITUDE	AREA	MAX	. I	AIR CAPACI	TY SE	NSIBLE	CAPACITY	EIR	EIR	SUPP-HEAT	
TYPE	FACTOR	(SQFT )	PEOPLE	RAT	CIO (KBTU/H	R)	(SHR)	(KBTU/HR)	(BTU/BTU)	(BTU/BTU)	(KBTU/HR)	
PVVT	1.001	765.0	1.	0.1	0.144 10.638		0.742	-9.574	0.266	0.271	-8.703	
		DIVERSITY	POWER	FAN	STATIC	TOTAL	MECH	I		MAX FAN	MIN FAN	
FAN	CAPACITY	FACTOR	DEMAND	DELTA-T	PRESSURE	EFF	EFF	FA FA	N FAI	N RATIO	RATIO	
TYPE	(CFM )	(FRAC)	(KW)	(F)	(IN-WATER)	(FRAC)	(FRAC)	PLACEMEN	T CONTROL	L (FRAC)	(FRAC)	
SUPPLY	355.	1.00	0.106	0.94	1.0	0.37	0.62	DRAW-THR	U CONSTANT	г 1.00	0.30	

	SUPPLY	EXHAUST		MINIMUM	OUTSIDE	COOLING	E	EXTRACTION	HEATING	ADDITION	
ZONE	FLOW	FLOW	FAN	FLOW	AIR FLOW	CAPACITY	SENSIBLE	RATE	CAPACITY	RATE ZO	NE
NAME	(CFM )	(CFM )	(KW)	(FRAC)	(CFM )	(KBTU/HR)	(FRAC)	(KBTU/HR)	(KBTU/HR)	(KBTU/HR) MU	LT
L7B West Perim Zn (G.W6) 1	355.	0.	0.000	0.462	51.	0.00	0.00	11.58	0.00	-6.22	1.

REFORT BY					, mii i						ATTED DOBING	
		FLOOR		OUTSI	IDE COOLI	NG		HEATING	COOLING	HEATING	HEAT PUMP	
SYSTEM	ALTITUDE	AREA	MAX	. I	AIR CAPACI	TY SE	NSIBLE	CAPACITY	EIR	EIR	SUPP-HEAT	
TYPE	FACTOR	(SQFT )	PEOPLE	RAT	TIO (KBTU/H	IR)	(SHR)	(KBTU/HR)	(BTU/BTU)	(BTU/BTU)	(KBTU/HR)	
PVVT	1.001	654.5	1.	0.1	162 8.0	63	0.742	-7.256	0.266	0.271	-5.606	
		DIVERSITY	POWER	FAN	STATIC	TOTAL	MECH	I		MAX FAN	MIN FAN	
FAN	CAPACITY	FACTOR	DEMAND	DELTA-T	PRESSURE	EFF	EFF	F FA	n FAI	N RATIO	RATIO	
TYPE	(CFM )	(FRAC)	(KW)	(F)	(IN-WATER)	(FRAC)	(FRAC)	PLACEMEN	T CONTROL	L (FRAC)	(FRAC)	
SUPPLY	269.	1.00	0.081	0.94	0.9	0.34	0.62	DRAW-THR	U CONSTANT	r 1.00	0.30	

	SUPPLY	EXHAUST		MINIMUM	OUTSIDE	COOLING	E	XTRACTION	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
L7B West Perim Zn (G.W7) 1	269.	0.	0.000	0.338	44.	0.00	0.00	6.92	0.00	-3.45	1.

REFORT BY												
		FLOOR		OUTSI	IDE COOLI	NG		HEATING	COOLING	HEATING	HEAT PUMP	
SYSTEM	ALTITUDE	AREA	MAX	. I	AIR CAPACI	TY SE	NSIBLE	CAPACITY	EIR	EIR	SUPP-HEAT	
TYPE	FACTOR	(SQFT )	PEOPLE	RAT	TIO (KBTU/H	IR)	(SHR)	(KBTU/HR)	(BTU/BTU)	(BTU/BTU)	(KBTU/HR)	
PVVT	1.001	628.5	1.	0.1	141 8.9	25	0.742	-8.032	0.266	0.271	-5.621	
		DIVERSITY	POWER	FAN	STATIC	TOTAL	MECH	I		MAX FAN	MIN FAN	
FAN	CAPACITY	FACTOR	DEMAND	DELTA-T	PRESSURE	EFF	EFF	FA:	n fai	N RATIO	RATIO	
TYPE	(CFM )	(FRAC)	(KW)	(F)	(IN-WATER)	(FRAC)	(FRAC)	PLACEMEN	T CONTROL	L (FRAC)	(FRAC)	
SUPPLY	298.	1.00	0.089	0.94	0.9	0.34	0.62	DRAW-THR	U CONSTANT	r 1.00	0.30	

<sup>\*\*\*</sup> THE ABOVE CHARACTERISTICS ARE FOR EACH OF: 1 AIR HANDLERS

	SUPPLY	EXHAUST		MINIMUM	OUTSIDE	COOLING	E	EXTRACTION	HEATING	ADDITION	
ZONE	FLOW	FLOW	FAN	FLOW	AIR FLOW	CAPACITY	SENSIBLE	RATE	CAPACITY	RATE Z	ZONE
NAME	(CFM )	(CFM )	(KW)	(FRAC)	(CFM )	(KBTU/HR)	(FRAC)	(KBTU/HR)	(KBTU/HR)	(KBTU/HR) M	MULT
L7B East Perim Zn (G.E8) 1	298.	0.	0.000	0.315	42.	0.00	0.00	8.52	0.00	-3.55	1.

REPORT- SV-A System Design Parameters for  $\,$  L7B (G.E9) APT1 PTHP

WEATHER FILE- SEATTLE BOEING FI WA

		FLOOR		OUTSI	IDE COOLI	NG		HEATING	COOLING	HEATING	HEAT PUMP
SYSTEM	ALTITUDE	AREA	MAX	. I	AIR CAPACI	TY SE	ENSIBLE	CAPACITY	EIR	EIR	SUPP-HEAT
TYPE	FACTOR	(SQFT )	PEOPLE	RAT	TIO (KBTU/H	IR)	(SHR)	(KBTU/HR)	(BTU/BTU)	(BTU/BTU)	(KBTU/HR)
PVVT	1.001	789.0	1.	0.0	17.6	26	0.742	-15.864	0.266	0.271	-10.619
		DIVERSITY	POWER	FAN	STATIC	TOTAL	MECH	I		MAX FAN	MIN FAN
FAN	CAPACITY	FACTOR	DEMAND	DELTA-T	PRESSURE	EFF	EFF	FA	N FAI	N RATIO	RATIO
TYPE	(CFM )	(FRAC)	(KW)	(F)	(IN-WATER)	(FRAC)	(FRAC)	PLACEMEN	T CONTROL	L (FRAC)	(FRAC)
SUPPLY	588.	1.00	0.176	0.94	1.0	0.40	0.62	DRAW-THR	U CONSTAN	г 1.00	0.30

	SUPPLY	EXHAUST		MINIMUM	OUTSIDE	COOLING	E	EXTRACTION	HEATING	ADDITION	
ZONE	FLOW	FLOW	FAN	FLOW	AIR FLOW	CAPACITY	SENSIBLE	RATE	CAPACITY	RATE Z	ONE
NAME	(CFM )	(CFM )	(KW)	(FRAC)	(CFM )	(KBTU/HR)	(FRAC)	(KBTU/HR)	(KBTU/HR)	(KBTU/HR) M	ULT
L7B East Perim Zn (G.E9) 1	588.	0.	0.000	0.362	53.	0.00	0.00	16.80	0.00	-8.07	1.

KEPORI- SV		Design Para	٠, ۵, ۵	API	/ PINF			WEAINI		AIILE BOEING	3 F L V	
		FLOOR		OUTSI	IDE COOLI	NG		HEATING	COOLING	HEATING	HEAT PUMP	
SYSTEM	ALTITUDE	AREA	MAX	. I	AIR CAPACI	TY SE	NSIBLE	CAPACITY	EIR	EIR	SUPP-HEAT	
TYPE	FACTOR	(SQFT )	PEOPLE	RAT	TIO (KBTU/H	R)	(SHR)	(KBTU/HR)	(BTU/BTU)	(BTU/BTU)	(KBTU/HR)	
PVVT	1.001	3981.5	5.	0.1	0.110 72.158		0.742	-64.942	0.266	0.271	-37.188	
		DIVERSITY	POWER	FAN	STATIC	TOTAL	MECH	I		MAX FAN	MIN FAN	
FAN	CAPACITY	FACTOR	DEMAND	DELTA-T	PRESSURE	EFF	EFF	FA FA	N FAI	N RATIO	RATIO	
TYPE	(CFM )	(FRAC)	(KW)	(F)	(IN-WATER)	(FRAC)	(FRAC)	PLACEMEN	T CONTROL	L (FRAC)	(FRAC)	
SUPPLY	2407.	1.00	0.722	0.94	1.3	0.51	0.62	2 DRAW-THR	U CONSTANT	г 1.00	0.30	

	SUPPLY	EXHAUST		MINIMUM	OUTSIDE	COOLING	I	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
L7B SSW Perim Zn (G.SSW10P	2407.	0.	0.000	0.264	266.	0.00	0.00	70.19	0.00	-24.10	1.

REPORT-	SV-A	System	Design	Parameters	for	L8A	(G.E3)	APT2	PTHP
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	FLOOR		OUTSI	DE COOLI	NG		HEATING	COOLING	HEATING	HEAT PUMP
ALTITUDE	AREA	MAX	Z Z	IR CAPACI	TY SE	NSIBLE	CAPACITY	EIR	EIR	SUPP-HEAT
FACTOR	(SQFT )	PEOPLE	RAT	CIO (KBTU/H	R)	(SHR)	(KBTU/HR)	(BTU/BTU)	(BTU/BTU)	(KBTU/HR)
1.001	956.8	1.	0.1	.47 13.0	24	0.742	-11.722	0.266	0.271	-8.177
	DIIIDOIMI	DOMED		GMA MT G	moma r	MEGI			MAY DAN	MAN DAN
	DIVERSITY	POWER	F'AN	STATIC	TOTAL	MECE	l		MAX FAN	MIN FAN
CAPACITY	FACTOR	DEMAND	DELTA-T	PRESSURE	EFF	EFF	FA:	N FAI	N RATIO	RATIO
(CFM )	(FRAC)	(KW)	(F)	(IN-WATER)	(FRAC)	(FRAC)	PLACEMEN	T CONTROL	L (FRAC)	(FRAC)
434.	1.00	0.130	0.94	1.0	0.40	0.62	DRAW-THR	U CONSTANT	r 1.00	0.30
	FACTOR  1.001  CAPACITY (CFM )	ALTITUDE AREA FACTOR (SQFT )  1.001 956.8  DIVERSITY FACTOR (CFM ) (FRAC)	ALTITUDE AREA MAY FACTOR (SQFT) PEOPLE  1.001 956.8 1.  DIVERSITY POWER CAPACITY FACTOR DEMAND (CFM) (FRAC) (KW)	ALTITUDE AREA MAX F FACTOR (SQFT ) PEOPLE RAT  1.001 956.8 1. 0.1  DIVERSITY POWER FAN CAPACITY FACTOR DEMAND DELTA-T (CFM ) (FRAC) (KW) (F)	ALTITUDE AREA MAX AIR CAPACI FACTOR (SQFT ) PEOPLE RATIO (KBTU/H 1.001 956.8 1. 0.147 13.0 DIVERSITY POWER FAN STATIC CAPACITY FACTOR DEMAND DELTA-T PRESSURE (CFM ) (FRAC) (KW) (F) (IN-WATER)	ALTITUDE AREA MAX AIR CAPACITY SE FACTOR (SQFT ) PEOPLE RATIO (KBTU/HR)  1.001 956.8 1. 0.147 13.024  DIVERSITY POWER FAN STATIC TOTAL CAPACITY FACTOR DEMAND DELTA-T PRESSURE EFF (CFM ) (FRAC) (KW) (F) (IN-WATER) (FRAC)	ALTITUDE AREA MAX AIR CAPACITY SENSIBLE FACTOR (SQFT) PEOPLE RATIO (KBTU/HR) (SHR)  1.001 956.8 1. 0.147 13.024 0.742  DIVERSITY POWER FAN STATIC TOTAL MECH CAPACITY FACTOR DEMAND DELTA-T PRESSURE EFF EFF (CFM) (FRAC) (KW) (F) (IN-WATER) (FRAC) (FRAC)	ALTITUDE AREA MAX AIR CAPACITY SENSIBLE CAPACITY FACTOR (SQFT) PEOPLE RATIO (KBTU/HR) (SHR) (KBTU/HR)  1.001 956.8 1. 0.147 13.024 0.742 -11.722  DIVERSITY POWER FAN STATIC TOTAL MECH CAPACITY FACTOR DEMAND DELTA-T PRESSURE EFF EFF FACTOR (KW) (F) (IN-WATER) (FRAC) (FRAC) PLACEMEN	ALTITUDE AREA MAX AIR CAPACITY SENSIBLE CAPACITY EIR FACTOR (SQFT) PEOPLE RATIO (KBTU/HR) (SHR) (KBTU/HR) (BTU/BTU)  1.001 956.8 1. 0.147 13.024 0.742 -11.722 0.266  DIVERSITY POWER FAN STATIC TOTAL MECH CAPACITY FACTOR DEMAND DELTA-T PRESSURE EFF EFF FAN FAI (CFM) (FRAC) (KW) (F) (IN-WATER) (FRAC) (FRAC) PLACEMENT CONTROL	ALTITUDE AREA MAX AIR CAPACITY SENSIBLE CAPACITY EIR ER FACTOR (SQFT) PEOPLE RATIO (KBTU/HR) (SHR) (KBTU/HR) (BTU/BTU) (BTU/BTU)  1.001 956.8 1. 0.147 13.024 0.742 -11.722 0.266 0.271  DIVERSITY POWER FAN STATIC TOTAL MECH MAX FAN CAPACITY FACTOR DEMAND DELTA-T PRESSURE EFF EFF FAN FAN RATIO (CFM ) (FRAC) (KW) (F) (IN-WATER) (FRAC) (FRAC) PLACEMENT CONTROL (FRAC)

<sup>\*\*\*</sup> THE ABOVE CHARACTERISTICS ARE FOR EACH OF: 1 AIR HANDLERS

	SUPPLY	EXHAUST		MINIMUM	OUTSIDE	COOLING	E	EXTRACTION	HEATING	ADDITION	
ZONE	FLOW	FLOW	FAN	FLOW	AIR FLOW	CAPACITY	SENSIBLE	RATE	CAPACITY	RATE ZO	ONE
NAME	(CFM )	(CFM )	(KW)	(FRAC)	(CFM )	(KBTU/HR)	(FRAC)	(KBTU/HR)	(KBTU/HR)	(KBTU/HR) MU	JLT
L8A East Perim Zn (G.E3) 2	434.	0.	0.000	0.305	64.	0.00	0.00	11.54	0.00	-5.02	1.

REPORT S		Design Fara	IOI		wo; APIZ P				WEAIRI		AIILE BOEIN	3 FI W
		FLOOR		OUTSI	IDE COOLI	NG		HEATING	COOLING	HEATING	HEAT PUMP	
SYSTEM	ALTITUDE	AREA	MAX	. A	AIR CAPACI	TY SE	NSIBLE	CAPACITY	EIR	EIR	SUPP-HEAT	
TYPE	FACTOR	(SQFT )	PEOPLE	RAT	TIO (KBTU/H	R)	(SHR)	(KBTU/HR)	(BTU/BTU)	(BTU/BTU)	(KBTU/HR)	
PVVT	1.001	891.0	1.	0.1	10.6	81	0.742	-9.613	0.266	0.271	-7.686	
		DIVERSITY	POWER	FAN	STATIC	TOTAL	MECH	I		MAX FAN	MIN FAN	
FAN	CAPACITY	FACTOR	DEMAND	DELTA-T	PRESSURE	EFF	EFI	FAI	n FAI	N RATIO	RATIO	
TYPE	(CFM )	(FRAC)	(KW)	(F)	(IN-WATER)	(FRAC)	(FRAC)	PLACEMEN'	r control	L (FRAC)	(FRAC)	
SUPPLY	356.	1.00	0.107	0.94	1.0	0.37	0.62	DRAW-THRU	J CONSTANT	г 1.00	0.30	

	SUPPLY	EXHAUST		MINIMUM	OUTSIDE	COOLING	E	XTRACTION	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	
I.8A West Perim Zn (G W8) 2	356	0	0 000	0 352	59	0 00	0 00	9 24	0 00	-4 75 1	

REPORT- SV-A	System	Design	Parameters	for	L8A	(G.SW9)	APT1	PTHP
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WEATHER	FILE-	SEATTLE	BOEING	FΙ	WA	
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		FLOOR		OUTSI	DE COOLI	NG		HEATING	COOLING	HEATING	HEAT PUMP
SYSTEM	ALTITUDE	AREA	MAX	. A	IR CAPACI	TY SE	NSIBLE	CAPACITY	EIR	EIR	SUPP-HEAT
TYPE	FACTOR	(SQFT )	PEOPLE	RAT	IO (KBTU/H	IR)	(SHR)	(KBTU/HR)	(BTU/BTU)	(BTU/BTU)	(KBTU/HR)
PVVT	1.001	688.5	1.	0.1	.01 13.6	63	0.742	-12.297	0.266	0.271	-7.440
		DIVERSITY	POWER	FAN	STATIC	TOTAL	MECH	I		MAX FAN	MIN FAN
FAN	CAPACITY	FACTOR	DEMAND	DELTA-T	PRESSURE	EFF	EFF	FA	n fai	N RATIO	RATIO
TYPE	(CFM )	(FRAC)	(KW)	(F)	(IN-WATER)	(FRAC)	(FRAC)	PLACEMEN	T CONTROL	L (FRAC)	(FRAC)
SUPPLY	456.	1.00	0.137	0.94	1.0	0.40	0.62	DRAW-THR	U CONSTANT	r 1.00	0.30

	SUPPLY	EXHAUST		MINIMUM	OUTSIDE	COOLING	E	XTRACTION	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
L8A SW Perim Zn (G.SW9) A	456.	0.	0.000	0.300	46.	0.00	0.00	13.39	0.00	-5.19	1.

REPORT- S	SV-A	System	Design	Parameters	for	L8A	(G.NW11)	APT1	PTHP
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WEATHER F	ILE- SI	EATTLE 1	BOEING	FΙ	WA
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		FLOOR		OUTSI	DE COOLI	NG		HEATING	COOLING	HEATING	HEAT PUMP	
SYSTEM	ALTITUDE	AREA	MAX	I	IR CAPACI	TY SE	NSIBLE	CAPACITY	EIR	EIR	SUPP-HEAT	
TYPE	FACTOR	(SQFT )	PEOPLE	RAT	CIO (KBTU/H	IR)	(SHR)	(KBTU/HR)	(BTU/BTU)	(BTU/BTU)	(KBTU/HR)	
PVVT	1.001	776.5	1.	0.1	.17 13.2	41	0.742	-11.917	0.266	0.271	-8.957	
		DIVERSITY	POWER	FAN	STATIC	TOTAL	MECH	I		MAX FAN	MIN FAN	
FAN	CAPACITY	FACTOR	DEMAND	DELTA-T	PRESSURE	EFF	EFF	r FA	AN FAI	N RATIO	RATIO	
TYPE	(CFM )	(FRAC)	(KW)	(F)	(IN-WATER)	(FRAC)	(FRAC)	PLACEMEN	NT CONTROL	L (FRAC)	(FRAC)	
SUPPLY	442.	1.00	0.132	0.94	1.0	0.40	0.62	DRAW-THE	RU CONSTANT	г 1.00	0.30	

	SUPPLY	EXHAUST		MINIMUM	OUTSIDE	COOLING	E	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
L8A NW Perim Zn (G.NW11) 1	442.	0.	0.000	0.384	52.	0.00	0.00	13.10	0.00	-6.43	1.

REPORT- S	V-A	System 1	Design	Parameters	for	L8A	(G.NE12)	APT1	PTHP
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WEATHER	FILE-	SEATTLE	BOEING	FΙ	WA
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		FLOOR		OUTSI	IDE COOLI	NG		HEATING	COOLING	HEATING	HEAT PUMP
SYSTEM	ALTITUDE	AREA	MAX	I	AIR CAPACI	TY SE	NSIBLE	CAPACITY	EIR	EIR	SUPP-HEAT
TYPE	FACTOR	(SQFT )	PEOPLE	RAT	TIO (KBTU/H	IR)	(SHR)	(KBTU/HR)	(BTU/BTU)	(BTU/BTU)	(KBTU/HR)
PVVT	1.001	948.8	1.	0.1	120 15.8	109	0.742	-14.228	0.266	0.271	-10.080
		DIVERSITY	POWER	FAN	STATIC	TOTAL	MECH	I		MAX FAN	MIN FAN
FAN	CAPACITY	FACTOR	DEMAND	DELTA-T	PRESSURE	EFF	EFF	FA	N FAI	N RATIO	RATIO
TYPE	(CFM )	(FRAC)	(KW)	(F)	(IN-WATER)	(FRAC)	(FRAC)	PLACEMEN	T CONTROL	L (FRAC)	(FRAC)
SUPPLY	527.	1.00	0.158	0.94	1.0	0.40	0.62	DRAW-THR	U CONSTANT	г 1.00	0.30

<sup>\*\*\*</sup> THE ABOVE CHARACTERISTICS ARE FOR EACH OF: 1 AIR HANDLERS

	SUPPLY	EXHAUST		MINIMUM	OUTSIDE	COOLING	E	EXTRACTION	HEATING	ADDITION	
ZONE	FLOW	FLOW	FAN	FLOW	AIR FLOW	CAPACITY	SENSIBLE	RATE	CAPACITY	RATE ZO	ONE
NAME	(CFM )	(CFM )	(KW)	(FRAC)	(CFM )	(KBTU/HR)	(FRAC)	(KBTU/HR)	(KBTU/HR)	(KBTU/HR) MU	JLT
L8A NE Perim Zn (G.NE12) 1	527.	0.	0.000	0.349	63.	0.00	0.00	17.12	0.00	-6.98	1.

REPORT- SV-A System Design Parameters for L8A (G.S13) APT1 PTHP

WEATHER FILE- SEATTLE BOEING FI WA

REPORT SV		Design Para	merera ioi	HOA (0	APII				mraaw	SK FILE- SE	AIILE BOEIN	
		FLOOR		OUTSI	DE COOLI	NG		HEATING	COOLING	HEATING	HEAT PUMP	
SYSTEM	ALTITUDE	AREA	MAX	. A	IR CAPACI	TY SE	ENSIBLE	CAPACITY	EIR	EIR	SUPP-HEAT	
TYPE	FACTOR	(SQFT )	PEOPLE	RAT	IO (KBTU/H	R)	(SHR)	(KBTU/HR)	(BTU/BTU)	(BTU/BTU)	(KBTU/HR)	
PVVT	1.001	540.0	1.	0.0	195 11.3	49	0.742	-10.214	0.266	0.271	-5.107	
		DIVERSITY	POWER	FAN	STATIC	TOTAL	MECH	I		MAX FAN	MIN FAN	
FAN	CAPACITY	FACTOR	DEMAND	DELTA-T	PRESSURE	EFF	eff.	FAI	ı FAN	N RATIO	RATIO	
TYPE	(CFM )	(FRAC)	(KW)	(F)	(IN-WATER)	(FRAC)	(FRAC)	PLACEMENT	r controi	(FRAC)	(FRAC)	
SUPPLY	379.	1.00	0.113	0.94	1.0	0.37	0.62	DRAW-THRU	J CONSTANT	1.00	0.30	

	SUPPLY	EXHAUST		MINIMUM	OUTSIDE	COOLING	E	XTRACTION	HEATING	ADDITION	
ZONE	FLOW	FLOW	FAN	FLOW	AIR FLOW	CAPACITY	SENSIBLE	RATE	CAPACITY	RATE Z	ZONE
NAME	(CFM )	(CFM )	(KW)	(FRAC)	(CFM )	(KBTU/HR)	(FRAC)	(KBTU/HR)	(KBTU/HR)	(KBTU/HR) M	MULT
L8A South Perim Zn (G.S13P	379.	0.	0.000	0.225	36.	0.00	0.00	11.26	0.00	-3.22	1.

REPORT- SV-A	System Design	Parameters	for	L8A	(G.SE14)	APT1 PTHE	2
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WEATHER	SEATTLE	BOEING	L.T	WA

		FLOOR		OUTSI	DE COOLI	NG		HEATING	COOLING	HEATING	HEAT PUMP
SYSTEM	ALTITUDE	AREA	MAX	. A	IR CAPACI	TY SE	NSIBLE	CAPACITY	EIR	EIR	SUPP-HEAT
TYPE	FACTOR	(SQFT )	PEOPLE	RAT	IO (KBTU/H	R)	(SHR)	(KBTU/HR)	BTU/BTU)	(BTU/BTU)	(KBTU/HR)
PVVT	1.001	540.0	1.	0.0	85 12.7	47	0.742	-11.472	0.266	0.271	-6.738
		DIVERSITY	POWER	FAN	STATIC	TOTAL	MECH			MAX FAN	MIN FAN
FAN	CAPACITY	FACTOR	DEMAND	DELTA-T	PRESSURE	EFF	EFF	FAI	I FAI	N RATIO	RATIO
TYPE	(CFM )	(FRAC)	(KW)	(F)	(IN-WATER)	(FRAC)	(FRAC)	PLACEMENT	CONTROL	L (FRAC)	(FRAC)
SUPPLY	425.	1.00	0.127	0.94	1.0	0.40	0.62	DRAW-THRU	CONSTANT	1.00	0.30

	SUPPLY	EXHAUST		MINIMUM	OUTSIDE	COOLING	E	EXTRACTION	HEATING	ADDITION	
ZONE	FLOW	FLOW	FAN	FLOW	AIR FLOW	CAPACITY	SENSIBLE	RATE	CAPACITY	RATE ZO	NE
NAME	(CFM )	(CFM )	(KW)	(FRAC)	(CFM )	(KBTU/HR)	(FRAC)	(KBTU/HR)	(KBTU/HR)	(KBTU/HR) MU	LT
L8A SE Perim Zn (G.SE14) 1	425.	0.	0.000	0.309	36.	0.00	0.00	12.34	0.00	-4.99	1.

		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)	(KBTU/HR)
UHT	1.001	55590.5	0.	0.000	0.000	0.000	0.000	0.000	0.000	0.000

ZONE	SUPPLY FLOW	EXHAUST FLOW	FAN	MINIMUM FLOW	OUTSIDE AIR FLOW	COOLING CAPACITY	I SENSIBLE	EXTRACTION RATE	HEATING CAPACITY	ADDITION RATE ZONE
NAME	(CFM )	(CFM )	(KW)	(FRAC)		(KBTU/HR)				(KBTU/HR) MULT
L2B South Perim Zn (G.S27E	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	0.00 1.
L6A Core Zn (G.C1) ELV	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	(BASEBOARDS) 0.00 1.
PlA West Perim Zn (B.W7) H	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	(BASEBOARDS) 0.00 1.
									0.00	(BASEBOARDS)
L2A Core Zn (G.C16) TRSH	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	0.00 1. (BASEBOARDS)
L3A Core Zn (G.C15) TRSH	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	0.00 1.
L4A Core Zn (G.C15) TRSH	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	(BASEBOARDS) 0.00 1.
L5A Core Zn (G.C15) TRSH	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	(BASEBOARDS) 0.00 1.
L6A Core Zn (G.C15) TRSH	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	(BASEBOARDS) 0.00 1.
L7A Core Zn (G.C15) TRSH	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	(BASEBOARDS) 0.00 1.
L/A COTE ZII (G.CIS) IRSH	0.	0.	0.000	0.000	0.	0.00	0.00	0.00		(BASEBOARDS)
L8A Core Zn (G.C5) TRSH	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	0.00 1. (BASEBOARDS)
P2A NNW Perim Zn (B.NNW13K	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	-15.61 1.
P2B NW Perim Zn (B.NW6) X	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	-15.61 0.00	(BASEBOARDS) 0.00 1.
DOD Gooth Doning Go. (D. G10V	0	0	0.000	0.000	0	0.00	0.00	0.00		(BASEBOARDS)
P2B South Perim Zn (B.S10K	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00 -161.07	-161.07 1. (BASEBOARDS)
P2B NNE Perim Zn (B.NNE12K	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	-26.08 1. (BASEBOARDS)
P1B South Perim Zn (B.S6)G	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	-55.54 1.
P1B NNE Perim Zn (B.NNE9)G	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	-55.54 0.00	(BASEBOARDS) -40.45 1.
									-40.45	(BASEBOARDS)
L1A East Perim Zn (G.E18)H	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00 -0.80	-0.80 1. (BASEBOARDS)
L1A Core Zn (G.C20) TSHF	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	-0.43 1. (BASEBOARDS)
L2A East Perim Zn (G.E13)H	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	-0.70 1. (BASEBOARDS)
L2A Core Zn (G.C15) TSHF	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	-0.16 1.
L3A East Perim Zn (G.E12)H	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	(BASEBOARDS) -0.76 1.
L3A Core Zn (G.C14) TSHF	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	-0.76 0.00	(BASEBOARDS) -0.27 1.
Esti core En (creri, ioni	٠.	٠.	0.000	0.000	٠.	0.00	0.00	0.00		(BASEBOARDS)
L4A East Perim Zn (G.E12)H	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00 -0.74	-0.74 1. (BASEBOARDS)
L4A Core Zn (G.C14) TSHF	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	-0.27 1.
L5A East Perim Zn (G.E12)H	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	-0.27 0.00	(BASEBOARDS) -0.74 1.
L5A Core Zn (G.C14) TSHF	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	-0.74 0.00	(BASEBOARDS) -0.27 1.
									-0.27	(BASEBOARDS)
L6A East Perim Zn (G.E12)H	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00 -0.74	-0.74 1. (BASEBOARDS)
L6A Core Zn (G.C14) TSHF	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00 -0.27	-0.27 1. (BASEBOARDS)
L7A East Perim Zn (G.E12)H	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	-0.77 1. (BASEBOARDS)
L7A Core Zn (G.C14) TSHF	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	-0.26 1. (BASEBOARDS)
L8A East Perim Zn (G.E2) F	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	-0.83 1.
L8A Core Zn (G.C4) TSHF	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	(BASEBOARDS) -0.34 1.
									-0.34	(BASEBOARDS)

P2A Core Zn (B.C1) STR	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00 0.00 1.
									0.00 (BASEBOARDS)
P2A Core Zn (B.C2) ELV	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00 0.00 1.
									0.00 (BASEBOARDS)
P2B Core Zn (B.C4) MECH	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00 0.00 1.
									0.00 (BASEBOARDS)
P2B Core Zn (B.C5) STR	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00 0.00 1.
									0.00 (BASEBOARDS)
P2B SE Perim Zn (B.SE8) M	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00 0.00 1.
									0.00 (BASEBOARDS)
PlA Core Zn (B.C1) STR	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00 0.00 1.
									0.00 (BASEBOARDS)
P1A Core Zn (B.C2) ELV	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00 0.00 1.
PlA NNW Perim Zn (B.NNW8)C	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00 0.00 1.
P1B Core Zn (B.C4) ELV	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00 0.00 1.
									0.00 (BASEBOARDS)
P1B SE Perim Zn (B.SE5) M	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00 0.00 1.
									0.00 (BASEBOARDS)
P1B ENE Perim Zn (B.ENE10E	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00 0.00 1.
									0.00 (BASEBOARDS)
L1A Core Zn (G.C1) STR	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00 0.00 1.
									0.00 (BASEBOARDS)
L1A Core Zn (G.C2) ELV	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00 0.00 1.
									0.00 (BASEBOARDS)

EPORT- SV-A System Design Pa:		Free	ze Protect							ING FI WA UED)
1B Core Zn (G.C3) STR	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	0.00 (BASEBOARDS
2A Core Zn (G.C1) ELV	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	0.00
2A NNW Perim Zn (G.NNW24T	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	0.00
2B Core Zn (G.C2) STR	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	0.00
3A Core Zn (G.C1) ELV	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	0.00
3A Core Zn (G.C20) STR	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	0.00
3B Core Zn (G.C2) STR	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	0.00
4A Core Zn (G.C1) ELV	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	0.00
4A Core Zn (G.C20) STR	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	0.00
4B Core Zn (G.C2) STR	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	0.00
5A Core Zn (G.C1) ELV	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	0.00
5A Core Zn (G.C20) STR	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	0.00
5B Core Zn (G.C2) STR	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	0.00
6A Core Zn (G.C20) STR	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	0.00
6B Core Zn (G.C2) STR	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	0.00
7A Core Zn (G.C1) ELV	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	0.00
7A Core Zn (G.C17) STR	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	0.00
7B Core Zn (G.C2) STR	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	0.00
8A Core Zn (G.C1) ELV	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	0.00
8A Core Zn (G.C7) STR	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	0.00
2B NNE Perim Zn (B.NNE11L	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	0.00
lA Core Zn (G.C23) ELEC	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	0.00
LA SW Perim Zn (G.SW26) C	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	0.00
lB Core Zn (G.C12) ELEC	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	0.00 (BASEBOARDS
On Come Zm /C C17\ FIEC	0	0	0.000	0.000	0	0.00	0.00	0.00		
A Core Zn (G.C17) ELEC	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	0.00 (BASEBOARDS
2B Core Zn (G.C11) ELEC	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	0.00 (BASEBOARDS
BA Core Zn (G.C16) ELEC	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	0.00
)D G F (G G11) BLEG	0	0.	0.000	0.000	0.	0.00	0.00	0.00		(BASEBOARDS
BB Core Zn (G.C11) ELEC	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	0.00 (BASEBOARDS
A Core Zn (G.C16) ELEC	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	0.00
B Core Zn (G.C11) ELEC	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	(BASEBOARDS 0.00
-	0		0.000	0.000	0	0.00	0.00	0.00		(BASEBOARDS
SA Core Zn (G.C16) ELEC	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	0.00 (BASEBOARDS
5B Core Zn (G.C11) ELEC	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	0.00
5A Core Zn (G.C16) ELEC	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	(BASEBOARDS 0.00
									0.00	(BASEBOARDS
5B Core Zn (G.C11) ELEC	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	0.00 (BASEBOARDS
'A Core Zn (G.C16) ELEC	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	0.00
7B Core Zn (G.C11) ELEC	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	(BASEBOARDS 0.00
									0.00	(BASEBOARDS
BA Core Zn (G.C6) ELEC	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	0.00 (BASEBOARDS
RA Core Zn (B.C7) STO	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	0.00
B NE Perim Zn (B.NE9) S	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	(BASEBOARDS 0.00
AD TOTAL BIT (BIND), D	٠.	٠.			٠.					(BASEBOARDS
A Core Zn (G.C16) RR	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	0.00 (BASEBOARDS
A WNW Perim Zn (G.WNW25T	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	0.00
									0.00	(BASEBOARDS
2A West Perim Zn (G.W25)0	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	0.00

REPORT- SV-A	System Desi	n Parameters	for L2	A (G.SW20)	RST PSZHP
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WEATHER	R FILE-	SEATTLE	BOEING	FI WA	
 					_

				RD1							
		FLOOR		OUTSI	IDE COOLI	NG		HEATING	COOLING	HEATING	HEAT PUMP
SYSTEM	ALTITUDE	AREA	MAX	. I	AIR CAPACI	TY SE	NSIBLE	CAPACITY	EIR	EIR	SUPP-HEAT
TYPE	FACTOR	(SQFT )	PEOPLE	RAT	TIO (KBTU/H	R)	(SHR)	(KBTU/HR)	BTU/BTU)	(BTU/BTU)	(KBTU/HR)
PSZ	1.001	2287.5	76.	0.0	380.8	26	0.742	-342.744	0.251	0.274	-415.638
		DIVERSITY	POWER	FAN	STATIC	TOTAL	MECH			MAX FAN	MIN FAN
FAN	CAPACITY	FACTOR	DEMAND	DELTA-T	PRESSURE	EFF	EFF	FAN	I FAI	N RATIO	RATIO
TYPE	(CFM )	(FRAC)	(KW)	(F)	(IN-WATER)	(FRAC)	(FRAC)	PLACEMENT	CONTROI	L (FRAC)	(FRAC)
SUPPLY	12704.	1.00	9.635	2.36	3.5	0.55	0.62	DRAW-THRU	J CONSTANT	г 1.00	0.30

	SUPPLY	EXHAUST		MINIMUM	OUTSIDE	COOLING	I	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) I	MULT
I.2A SW Perim Zn (G SW20)	12704.	12704.	3.725	1 000	572.	0 00	0 00	74 78	0 00	-31 32	1

REPORT- SV-A System Design Parameters for Sys 8 - VAV+PFP L1

WEATHER FILE- SEATTLE BOEING FI WA

			101									
		FLOOR		OUTSI	IDE COOLI	NG		HEATING	COOLING	HEATING	HEAT PUMP	
SYSTEM	ALTITUDE	AREA	MAX	. I	AIR CAPACI	TY SE	NSIBLE	CAPACITY	EIR	EIR	SUPP-HEAT	
TYPE	FACTOR	(SQFT )	PEOPLE	RAT	rio (KBTU/H	IR)	(SHR)	(KBTU/HR)	(BTU/BTU)	(BTU/BTU)	(KBTU/HR)	
PIU	1.001	2105.5	17.	0.6	502 11.1	26	0.742	0.000	0.000	0.000	0.000	
		DILIDDOTTI	DOMED		OMP MT C	moma r	MEGI	*		M2 W 1723	MIN DAN	
		DIVERSITY	POWER	FAN	STATIC	TOTAL	MECH	1		MAX FAN	MIN FAN	
FAN	CAPACITY	FACTOR	DEMAND	DELTA-T	PRESSURE	EFF	EFF	F FA	an fai	N RATIO	RATIO	
TYPE	(CFM )	(FRAC)	(KW)	(F)	(IN-WATER)	(FRAC)	(FRAC)	PLACEMEN	T CONTROI	L (FRAC)	(FRAC)	
SUPPLY	287.	1.00	0.325	3.53	5.3	0.55	0.72	DRAW-THR	U SPEEI	1.10	0.30	

<sup>\*\*\*</sup> THE ABOVE CHARACTERISTICS ARE FOR EACH OF: 1 AIR HANDLERS

	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
L1B SSW Perim Zn (G.SSW130	303.	0.	0.080	0.699	73.	0.00	0.00	2.33	-12.82	-11.41	1.
L1B Core Zn (G.C14) OFF	170.	0.	0.052	0.210	22.	0.00	0.00	2.39	-8.27	-7.82	1.
L1A SSW Perim Zn (G.SSW15I	675.	0.	0.209	1.000	78.	0.00	0.00	1.27	-33.33	-31.64	1.

2300.

SUPPLY

SPEED 1.10 0.30

REPORT- SV-A System Design Parameters for Sys 8 - VAV+PFP Corr (L1-L8)

REPORT- SV	7-A System	Design Para	meters for	Sys 8 - V	/AV+PFP Coi	rr (L1-	L8)		WEATHER FILE- SEATTLE BOEING FI WA			
SYSTEM TYPE	ALTITUDE FACTOR	FLOOR AREA (SQFT )	MAX PEOPLE	OUTSIDE AIR RATIO	COOLING CAPACITY (KBTU/HR)	Y SEN	SIBLE (SHR)	HEATING CAPACITY (KBTU/HR)	COOLING EIR (BTU/BTU)	HEATING EIR (BTU/BTU)	HEAT PUMP SUPP-HEAT (KBTU/HR)	
PIU	1.001	20700.8	102.	0.668	85.562	2	0.742	0.000	0.000	0.000	0.000	
FAN TYPE	CAPACITY (CFM )	DIVERSITY FACTOR (FRAC)	POWER DEMAND (KW)		STATIC PRESSURE N-WATER)	TOTAL EFF (FRAC)	MECH EFF (FRAC)		AN FAI NT CONTROI			

0.97 2.599 3.53 6.0 0.62 0.72 DRAW-THRU

<sup>\*\*\*</sup> THE ABOVE CHARACTERISTICS ARE FOR EACH OF: 1 AIR HANDLERS

	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
L8A Core Zn (G.C10) COR	56.	0.	0.004	1.000	45.	0.00	0.00	1.44	-0.61	-0.03	1.
L1A Core Zn (G.C21) COR	5.	0.	0.001	1.000	3.	0.00	0.00	0.09	-0.12	-0.10	1.
P1B Core Zn (B.C12) COR	72.	0.	0.016	1.000	28.	0.00	0.00	0.55	-2.49	-2.60	1.
L1A Core Zn (G.C22) COR	36.	0.	0.007	1.000	15.	0.00	0.00	0.36	-1.16	-1.20	1.
L1B Core Zn (G.C4) COR	65.	0.	0.005	1.000	52.	0.00	0.00	1.25	-0.70	-0.25	1.
L2A Core Zn (G.C26) COR	77.	0.	0.005	1.000	61.	0.00	0.00	1.47	-0.83	0.00	1.
L2B Core Zn (G.C3) COR	86.	0.	0.005	1.000	69.	0.00	0.00	1.77	-0.93	0.00	1.
L3A Core Zn (G.C23) COR	51.	0.	0.004	1.000	41.	0.00	0.00	1.08	-0.55	0.00	1.
L3B North Perim Zn (G.N3)R	131.	0.	0.009	1.000	105.	0.00	0.00	2.96	-1.42	0.00	1.
L4A Core Zn (G.C23) COR	51.	0.	0.004	1.000	41.	0.00	0.00	1.08	-0.55	0.00	1.
HAR COTE ZII (G.CZ3) COR	51.	0.	0.001	1.000	71.	0.00	0.00	1.00	0.55	0.00	τ.
L4B North Perim Zn (G.N3)R	131.	0.	0.009	1.000	105.	0.00	0.00	3.00	-1.42	0.00	1.
L5A Core Zn (G.C23) COR	51.	0.	0.004	1.000	41.	0.00	0.00	1.08	-0.55	0.00	1.
L5B North Perim Zn (G.N3)R	131.	0.	0.009	1.000	105.	0.00	0.00	3.06	-1.42	0.00	1.
L6A Core Zn (G.C23) COR	51.	0.	0.004	1.000	41.	0.00	0.00	1.11	-0.55	0.00	1.
L6B North Perim Zn (G.N3)R	131.	0.	0.009	1.000	105.	0.00	0.00	3.15	-1.42	0.00	1.
	= 0										
L7A Core Zn (G.C20) COR	58.	0.	0.005	0.648	37.	0.00	0.00	1.90	-0.78	-0.19	1.
L7B North Perim Zn (G.N3)R	178.	0.	0.016	0.590	105.	0.00	0.00	5.82	-2.40	-1.57	1.
P2A Core Zn (B.C3) COR	60.	0.	0.005	0.238	14.	0.00	0.00	0.77	-0.81	-0.81	1.
P1A Core Zn (B.C3) COR	22.	0.	0.003	1.000	14.	0.00	0.00	0.41	-0.45	-0.38	1.
L1A South Perim Zn (G.S170	815.	0.	0.195	1.000	257.	0.00	0.00	5.22	-31.11	-24.66	1.
L2B SSW Perim Zn (G.SSW120	866.	0.	0.106	0.292	252.	0.00	0.00	20.40	-16.89	-11.07	1.
L2A Core Zn (G.C21) MAIL	64.	0.	0.006	0.010	0.	0.00	0.00	1.32	-0.86	-0.81	1.
L2A Core Zn (G.C22) MAIL	13.	0.	0.002	0.010	0.	0.00	0.00	0.29	-0.38	-0.37	1.

		FLOOR		OUTSI	DE COOLI	NG		HEATING	COOLING	HEATING	HEAT PUMP	
SYSTEM	ALTITUDE	AREA	MAX	A	AIR CAPACI	TY SE	NSIBLE	CAPACITY	EIR	EIR	SUPP-HEAT	
TYPE	FACTOR	(SQFT )	PEOPLE	RAT	CIO (KBTU/H	IR)	(SHR)	(KBTU/HR)	(BTU/BTU)	(BTU/BTU)	(KBTU/HR)	
PIU	1.001	1607.5	0.	0.0	199 29.8	315	0.742	-26.834	0.360	0.370	-13.417	
		DIVERSITY	POWER	FAN	STATIC	TOTAL	MECH	ł		MAX FAN	MIN FAN	
FAN	CAPACITY	FACTOR	DEMAND	DELTA-T	PRESSURE	EFF	EFF	F FA	n FAI	N RATIO	RATIO	
TYPE	(CFM )	(FRAC)	(KW)	(F)	(IN-WATER)	(FRAC)	(FRAC)	PLACEMEN	T CONTROL	L (FRAC)	(FRAC)	
SUPPLY	972.	1.00	0.787	2.53	4.2	0.60	0.72	DRAW-THR	U CONSTANT	T 1.10	0.30	

<sup>\*\*\*</sup> THE ABOVE CHARACTERISTICS ARE FOR EACH OF: 1 AIR HANDLERS

	SUPPLY	EXHAUST		MINIMUM	OUTSIDE	COOLING	E	XTRACTION	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
L7A NW Perim Zn (G.NW21)	779.	0.	0.116	1.000	47.	0.00	0.00	11.41	-20.29	-11.13	1.
L7A NE Perim Zn (G.NE22)	873.	0.	0.122	1.000	50.	0.00	0.00	13.13	-21.73	-10.99	1.