

eQUEST System & Zone Air-Side Summary Report

June 26, 2009

System & Zone Name	System Type Principal Zone Activity	Type* Ret Zn	Area sqft	Design Flow			Design Ventilation				Design Capacity					Hrs Outside Thrl-Range	
				Supply cfm	Supply cfm/sf	Min Flow	OSA cfm	OSA %	OSA cfm/sf	OSA cfm/per	Cool tons	Cool sf/ton	Cool cfm/ton	Cool Btuh/sf	Heat Btuh/sf	Cool Hrs	Heat Hrs
DOA-1	Pkgd Single Zone	D	3,464	23,966	6.92	100%	2,735	100%	0.790	--	97	36	246	336.9	2,501.7	5,670	0
... Boys & Girls Restroom 2 FF Zn	Classroom / Lecture (23%)	S	765	2,631	3.44	100%	768	29%	1.004	--	11	72	246	167.3	2,501.9	869	0
... EL2 PI Zn (G.72)	(unknown)	U	36,700	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
... EL3 Roof Zone 1	(unknown)	U	34,746	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
... Mechanical SF Zn	Classroom / Lecture (38%)	S	671	7,504	11.18	100%	366	5%	0.545	--	30	22	246	544.2	2,501.3	793	0
... Electrical SF Zn	Exercising Center / Gym	S	168	1,725	10.25	100%	84	5%	0.500	--	7	24	246	498.8	2,499.3	792	0
... Mechanical 2 SF Zn	Classroom / Lecture (39%)	S	616	6,311	10.25	100%	308	5%	0.500	--	26	24	246	498.8	2,499.3	787	0
... Janitor 2 SF Zn	Exercising Center / Gym (52%)	S	74	763	10.25	100%	37	5%	0.500	--	3	24	246	498.8	2,499.3	778	0
... Elevator SF Zn	Exercising Center / Gym (52%)	S	120	1,229	10.25	100%	60	5%	0.500	--	5	24	246	498.8	2,499.3	778	0
... Boys & Girls Restroom SF Zn	Exercising Center / Gym (36%)	S	1,047	3,598	3.44	100%	1,051	29%	1.004	--	15	72	246	167.3	2,501.9	873	0
... EL3 PI Zn (G.46)	(unknown)	U	34,746	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
... Dummy-1 Zn	(unknown)	C	1	205	204.90	100%	60	29%	59.847	--	1	1	246	9,975.8	4,739.2	0	0
Sum of Zones	..	..	..	23,966	..	..	..	..	..	..	97	..	..	..	..	249%	0%
Sum of Zones / System Total	..	..	..	100%	..	..	..	..	..	..	100%	..	..	..	..	..	..

System & Zone Name	System Type Principal Zone Activity	Type* Ret Zn	Area sqft	Design Flow			Design Ventilation				Design Capacity					Hrs Outside Thrl-Range	
				Supply cfm	Supply cfm/sf	Min Flow	OSA cfm	OSA %	OSA cfm/sf	OSA cfm/per	Cool tons	Cool sf/ton	Cool cfm/ton	Cool Btuh/sf	Heat Btuh/sf	Cool Hrs	Heat Hrs
WSHP-1	Water Loop HP	P	4,226	4,838	1.14	100%	2,860	59%	0.677	20.0	25	170	195	70.6	75.5	2,314	423
... Piping Tunnel BF Zn	Storage (Conditioned) (73%)	U	7,045	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
... Stairs1 BF Zn	Storage (Conditioned) (73%)	C	608	304	0.50	100%	0	0%	0.000	--	1	720	360	16.7	17.8	186	55
... Electrical BF Zn	Storage (Conditioned) (73%)	C	704	352	0.50	100%	0	0%	0.000	--	1	720	360	16.7	17.8	378	23
... Corridor BF Zn	Storage (Conditioned) (73%)	C	648	324	0.50	100%	0	0%	0.000	--	1	720	360	16.7	17.8	266	45
... Elevator BF Zn	Storage (Conditioned) (73%)	C	90	45	0.50	100%	0	0%	0.000	--	0	720	360	16.7	17.8	259	66
... Stairs 2 BF Zn	Storage (Conditioned) (73%)	C	328	164	0.50	100%	0	0%	0.000	--	0	720	360	16.7	17.8	103	90
... Lower Level Entry BF Zn	Storage (Conditioned) (73%)	C	672	336	0.50	100%	0	0%	0.000	--	1	720	360	16.7	17.8	177	47
... CUST.Office BF Zn	Storage (Conditioned) (73%)	C	271	2,860	10.56	100%	2,860	100%	10.563	20.0	19	14	148	858.0	918.1	398	0
... Toilet BF Zn	Storage (Conditioned) (73%)	C	147	73	0.50	100%	0	0%	0.000	--	0	720	360	16.7	17.8	331	63
... Receiving/Storage BF Zn	Storage (Conditioned) (73%)	C	759	379	0.50	100%	0	0%	0.000	--	1	720	360	16.7	17.8	216	34
Sum of Zones	..	..	..	4,838	..	..	..	..	..	..	25	..	..	..	..	101%	19%
Sum of Zones / System Total	..	..	..	100%	..	..	..	..	..	..	100%	..	..	..	..	..	..

System & Zone Name	System Type Principal Zone Activity	Type* Ret Zn	Area sqft	Design Flow			Design Ventilation				Design Capacity					Hrs Outside Thrl-Range	
				Supply cfm	Supply cfm/sf	Min Flow	OSA cfm	OSA %	OSA cfm/sf	OSA cfm/per	Cool tons	Cool sf/ton	Cool cfm/ton	Cool Btuh/sf	Heat Btuh/sf	Cool Hrs	Heat Hrs
WSHP-2	Water Loop HP	D	1,106	920	0.83	100%	786	85%	0.710	17.6	6	194	161	61.9	66.2	4,565	120
... Toilet 11 FF Zn	Classroom / Lecture (23%)	C	94	47	0.50	100%	0	0%	0.000	--	0	720	360	16.7	17.8	1,180	33
... Storage 9 FF Zn	Classroom / Lecture (23%)	C	84	42	0.50	100%	0	0%	0.000	--	0	720	360	16.7	17.8	1,191	33
... G.T.5 FF Zn	Exercising Center / Gym (46%)	C	35	18	0.50	100%	0	0%	0.000	--	0	720	360	16.7	17.8	1,061	54
... PRE-K 1 FF Zn	Classroom / Lecture (28%)	C	893	813	0.91	100%	786	97%	0.880	17.6	5	165	150	72.7	77.8	1,133	0
Sum of Zones	..	..	..	920	..	..	..	..	..	..	6	..	..	..	..	52%	1%
Sum of Zones / System Total	..	..	..	100%	..	..	..	..	..	..	100%	..	..	..	..	..	..

System & Zone Name	System Type Principal Zone Activity	Type* Ret Zn	Area sqft	Design Flow			Design Ventilation				Design Capacity					Hrs Outside Thrl-Range	
				Supply cfm	Supply cfm/sf	Min Flow	OSA cfm	OSA %	OSA cfm/sf	OSA cfm/per	Cool tons	Cool sf/ton	Cool cfm/ton	Cool Btuh/sf	Heat Btuh/sf	Cool Hrs	Heat Hrs
WSHP-3	Water Loop HP	D	1,113	953	0.86	100%	842	88%	0.756	17.6	6	185	158	64.9	69.5	4,730	125
... G.T.4 FF Zn	Exercising Center / Gym	C	56	28	0.50	100%	0	0%	0.000	--	0	720	360	16.7	17.8	1,141	40
... Storage 8 FF Zn	Classroom / Lecture (27%)	C	64	32	0.50	100%	0	0%	0.000	--	0	720	360	16.7	17.8	1,211	38
... Toilet 10 FF Zn	Classroom / Lecture (23%)	C	38	19	0.50	100%	0	0%	0.000	--	0	720	360	16.7	17.8	1,245	47
... PRE-K 2 FF Zn	Classroom / Lecture (28%)	C	956	874	0.91	100%	842	96%	0.880	17.6	6	165	151	72.9	78.0	1,133	0
Sum of Zones	..	..	..	953	..	..	..	..	..	..	6	..	..	..	..	54%	1%
Sum of Zones / System Total	..	..	..	100%	..	..	..	..	..	..	100%	..	..	..	..	..	..

System & Zone Name	System Type Principal Zone Activity	Type* Ret Zn	Area sqft	Design Flow			Design Ventilation				Design Capacity					Hrs Outside Thrl-Range	
				Supply cfm	Supply cfm/sf	Min Flow	OSA cfm	OSA %	OSA cfm/sf	OSA cfm/per	Cool tons	Cool sf/ton	Cool cfm/ton	Cool Btuh/sf	Heat Btuh/sf	Cool Hrs	Heat Hrs
WSHP-4	Water Loop HP	D	1,056	914	0.87	100%	791	87%	0.749	18.0	6	185	160	64.9	69.5	3,533	64
... Kindergarten 1 FF Zn	Classroom / Lecture (23%)	C	878	824	0.94	100%	791	96%	0.902	18.0	5	161	151	74.7	80.0	1,146	0
... Toilet 9 FF Zn	Classroom / Lecture (23%)	C	86	43	0.50	100%	0	0%	0.000	--	0	720	360	16.7	17.8	1,189	35
... Storage 7 FF Zn	Classroom / Lecture (23%)	C	93	46	0.50	100%	0	0%	0.000	--	0	720	360	16.7	17.8	1,198	29
Sum of Zones	..	..	..	914	..	..	..	..	..	..	6	..	..	..	..	40%	1%
Sum of Zones / System Total	..	..	..	100%	..	..	..	..	..	..	100%	..	..	..	..	..	..

System & Zone Name	System Type Principal Zone Activity	Type* Ret Zn	Area sqft	Design Flow			Design Ventilation				Design Capacity					Hrs Outside Thrl-Range	
				Supply cfm	Supply cfm/sf	Min Flow	OSA cfm	OSA %	OSA cfm/sf	OSA cfm/per	Cool tons	Cool sf/ton	Cool cfm/ton	Cool Btuh/sf	Heat Btuh/sf	Cool Hrs	Heat Hrs
WSHP-5	Water Loop HP	D	1,030	836	0.81	100%	720	86%	0.699	18.0	5	198	160	60.7	65.0	3,788	485
... G.T.3 FF Zn	Classroom / Lecture (23%)	C	47	24	0.50	100%	0	0%	0.000	--	0	720	360	16.7	17.8	1,459	61
... Storage 6 FF Zn	Exercising Center / Gym (55%)	C	91	46	0.50	100%	0	0%	0.000	--	0	720	360	16.7	17.8	1,213	25
... Toilet 8 FF Zn	Classroom / Lecture (23%)	C	94	16	0.17	100%	0	0%	0.000	--	0	2,077	360	5.8	6.2	0	399
... Kindergarten 2 FF Zn	Classroom / Lecture (23%)	C	798	751	0.94	100%	720	96%	0.902	18.0	5	160	151	74.8	80.0	1,116	0
Sum of Zones	..	..	..	836	..	..	..	..	..	..	5	..	..	..	..	43%	6%
Sum of Zones / System Total	..	..	..	100%	..	..	..	..	..	..	100%	..	..	..	..	..	..

System & Zone Name	System Type Principal Zone Activity	Type* Ret Zn	Area sqft	Design Flow			Design Ventilation				Design Capacity					Hrs Outside Thrl-Range	
				Supply cfm	Supply cfm/sf	Min Flow	OSA cfm	OSA %	OSA cfm/sf	OSA cfm/per	Cool tons	Cool sf/ton	Cool cfm/ton	Cool Btuh/sf	Heat Btuh/sf	Cool Hrs	Heat Hrs
WSHP-6	Water Loop HP	D	1,536	1,349	0.88	100%	762	56%	0.496	18.0	7	222	195	54.0	57.8	5,443	95
... Storage 1 FF Zn	Classroom / Lecture (23%)	C	213	107	0.50	100%	0	0%	0.000	--	0	720	360	16.7	17.8	1,000	25
... G.T. FF Zn	Exercising Center / Gym (46%)	C	109	55	0.50	100%	0	0%	0.000	--	0	720	360	16.7	17.8	1,053	26
... Second Grade 2 FF Zn	Classroom / Lecture (23%)	C	925	1,028	1.11	100%	762	74%	0.823	18.0	6	154	171	78.1	83.6	997	0
... Mech Access FF Zn	Classroom / Lecture (28%)	C	189	110	0.58	100%	0	0%	0.000	--	0	616	360	19.5	20.8	1,140	14
... Janitor FF Zn	Classroom / Lecture (23%)	C	99	50	0.50	100%	0	0%	0.000	--	0	720	360	16.7	17.8	1,253	30
Sum of Zones	..	..	..	1,349	..	..	..	..	..	..	7	..	..	..	..	62%	1%
Sum of Zones / System Total	..	..	..	100%	..	..	..	..	..	..	100%	..	..	..	..	..	..

System & Zone Name	System Type Principal Zone Activity	Type* Ret Zn	Area sqft	Design Flow			Design Ventilation				Design Capacity					Hrs Outside Thrl-Range	
				Supply cfm	Supply cfm/sf	Min Flow	OSA cfm	OSA %	OSA cfm/sf	OSA cfm/per	Cool tons	Cool sf/ton	Cool cfm/ton	Cool Btuh/sf	Heat Btuh/sf	Cool Hrs	Heat Hrs
WSHP-7	Water Loop HP	D	1,007	1,223	1.21	100%	721	59%	0.716	18.0	6	156	189	77.2	82.6	2,113	59
... First Grade 2 FF Zn	Classroom / Lecture (23%)	C	968	1,204	1.24	100%	721	60%	0.745	18.0	6	151	187	79.6	85.2	989	0
... Toilet 1 FF Zn	Classroom / Lecture (23%)	C	39	20	0.50	100%	0	0%	0.000	--	0	720	360	16.7	17.8	1,124	59
Sum of Zones	..	..	..	1,223	..	..	..	..	..	..	6	..	..	..	..	24%	1%
Sum of Zones / System Total	..	..	..	100%	..	..	..	..	..	..	100%	..	..	..	..	..	..

System & Zone Name	System Type Principal Zone Activity	Type* Ret Zn	Area sqft	Design Flow			Design Ventilation				Design Capacity					Hrs Outside Thrl-Range	
				Supply cfm	Supply cfm/sf	Min Flow	OSA cfm	OSA %	OSA cfm/sf	OSA cfm/per	Cool tons	Cool sf/ton	Cool cfm/ton	Cool Btuh/sf	Heat Btuh/sf	Cool Hrs	Heat Hrs
WSHP-8	Water Loop HP	D	1,165	1,052	0.90	100%	775	74%	0.665	17.6	6	192	173	62.6	67.0	3,320	68
... First Grade 1 FF Zn	Classroom / Lecture (28%)	C	877	906	1.03	100%	775	85%	0.883	17.6	6	155	160	77.7	83.1	1,002	0
... Toilet 6 FF Zn	Classroom / Lecture (23%)	C	55	28	0.50	100%	0	0%	0.000	--	0	720	360	16.7	17.8	1,146	42
... Storage 3 FF Zn	Classroom / Lecture (23%)	C	233	118	0.51	100%	0	0%	0.000	--	0	709	360	16.9	18.1	1,172	26
Sum of Zones	..	..	..	1,052	..	..	..	..	..	..	6	..	..	..	..	38%	1%
Sum of Zones / System Total	..	..	..	100%	..	..	..	..	..	..	100%	..	..	..	..	..	..

System & Zone Name	System Type Principal Zone Activity	Type* Ret Zn	Area sqft	Design Flow			Design Ventilation				Design Capacity					Hrs Outside Thrl-Range	
				Supply cfm	Supply cfm/sf	Min Flow	OSA cfm	OSA %	OSA cfm/sf	OSA cfm/per	Cool tons	Cool sf/ton	Cool cfm/ton	Cool Btuh/sf	Heat Btuh/sf	Cool Hrs	Heat Hrs
WSHP-9	Water Loop HP	D	945	851	0.90	100%	756	89%	0.800	18.0	5	175	157	68.6	73.5	2,162	26
... G.T.1 FF Zn	Exercising Center / Gym (55%)	C	106	53	0.50	100%	0	0%	0.000	--	0	720	360	16.7	17.8	1,108	26
... Second Grade 1 FF Zn	Classroom / Lecture (23%)	C	839	798	0.95	100%	756	95%	0.902	18.0	5	160	152	75.2	80.5	1,054	0
Sum of Zones	..	..	..	851	..	..	..	..	..	..	5	..	..	..	..	25%	0%
Sum of Zones / System Total	..	..	..	100%	..	..	..	..	..	..	100%	..	..	..	..	..	..

System & Zone Name	System Type Principal Zone Activity	Type* Ret Zn	Area sqft	Design Flow			Design Ventilation				Design Capacity					Hrs Outside Thrl-Range	
				Supply cfm	Supply cfm/sf	Min Flow	OSA cfm	OSA %	OSA cfm/sf	OSA cfm/per	Cool tons	Cool sf/ton	Cool cfm/ton	Cool Btuh/sf	Heat Btuh/sf	Cool Hrs	Heat Hrs
WSHP-10	Water Loop HP	D	1,199	1,000	0.83	100%	596	60%	0.497	18.7	5	230	192	52.1	55.7	5,334	92
... Storage 4 FF Zn	Classroom / Lecture (28%)	C	294	147	0.50	100%	0	0%	0.000	--	0	720	360	16.7	17.8	1,253	22
... Special Needs FF Zn	Exercising Center / Gym (46%)	C	639	681	1.07	100%	596	88%	0.933	18.7	4	148	158	81.0	86.7	1,039	0
... Toilet 7 FF Zn	Classroom / Lecture (23%)	C	104	52	0.50	100%	0	0%	0.000	--	0	720	360	16.7	17.8	1,075	26
... Storage 5 FF Zn	Classroom / Lecture (23%)	C	112	95	0.85	100%	0	0%	0.000	--	0	422	360	28.4	30.4	924	1
... G.T.2 FF Zn	Classroom / Lecture (28%)	C	50	25	0.50	100%	0	0%	0.000	--	0	720	360	16.7	17.8	1,043	43
Sum of Zones	..	..	..	1,000	..	..	..	..	..	..	5	..	..	..	..	61%	1%
Sum of Zones / System Total	..	..	..	100%	..	..	..	..	..	..	100%	..	..	..	..	..	..

Hrs Outside

System & Zone Name	System Type Principal Zone Activity	Type*	Area sqft	Design Flow			Design Ventilation				Design Capacity					Thrl-Range	
		Ret Zn		Supply cfm	Supply cfm/sf	Min Flow	OSA cfm	OSA %	OSA cfm/sf	OSA cfm/per	Cool tons	Cool sf/ton	Cool cfm/ton	Cool Btuh/sf	Heat Btuh/sf	Cool Hrs	Heat Hrs
WSHP-11	Water Loop HP	D	1,104	1,009	0.91	100%	925	92%	0.837	19.8	6	170	155	70.5	75.5	2,809	35
... Fifth Grade 1 SF Zn	Exercising Center / Gym (52%)	C	936	925	0.99	100%	925	100%	0.988	19.8	6	150	148	80.2	85.8	991	0
... G.T. 5 SF Zn	Exercising Center / Gym (36%)	C	42	21	0.50	100%	0	0%	0.000	--	0	720	360	16.7	17.8	809	32
... Storage 5 SF Zn	Exercising Center / Gym (36%)	C	126	63	0.50	100%	0	0%	0.000	--	0	720	360	16.7	17.8	1,009	3
Sum of Zones	..	..	..	1,009	..	..	..	..	..	..	6	..	..	..	..	32%	0%
Sum of Zones / System Total	..	..	..	100%	..	..	..	..	..	..	100%	..	..	..	..	..	..

System & Zone Name	System Type Principal Zone Activity	Type*	Area sqft	Design Flow			Design Ventilation				Design Capacity					Hrs Outside Thrl-Range	
		Ret Zn		Supply cfm	Supply cfm/sf	Min Flow	OSA cfm	OSA %	OSA cfm/sf	OSA cfm/per	Cool tons	Cool sf/ton	Cool cfm/ton	Cool Btuh/sf	Heat Btuh/sf	Cool Hrs	Heat Hrs
WSHP-12	Water Loop HP	D	1,143	1,020	0.89	100%	915	90%	0.801	19.6	6	176	157	68.1	72.9	2,924	12
... G.T. 4 SF Zn	Exercising Center / Gym (52%)	C	98	49	0.50	100%	0	0%	0.000	--	0	720	360	16.7	17.8	883	9
... Storage 4 SF Zn	Exercising Center / Gym (36%)	C	112	56	0.50	100%	0	0%	0.000	--	0	720	360	16.7	17.8	1,018	3
... Fifth Grade 2 SF Zn	Exercising Center / Gym (36%)	C	933	915	0.98	100%	915	100%	0.981	19.6	6	151	148	79.7	85.2	1,023	0
Sum of Zones	..	..	..	1,020	..	..	..	..	..	..	6	..	..	..	..	33%	0%
Sum of Zones / System Total	..	..	..	100%	..	..	..	..	..	..	100%	..	..	..	..	..	..

System & Zone Name	System Type Principal Zone Activity	Type*	Area sqft	Design Flow			Design Ventilation				Design Capacity					Hrs Outside Thrl-Range	
		Ret Zn		Supply cfm	Supply cfm/sf	Min Flow	OSA cfm	OSA %	OSA cfm/sf	OSA cfm/per	Cool tons	Cool sf/ton	Cool cfm/ton	Cool Btuh/sf	Heat Btuh/sf	Cool Hrs	Heat Hrs
WSHP-13	Water Loop HP	D	1,026	948	0.92	100%	895	94%	0.872	19.5	6	165	153	72.6	77.7	2,047	3
... Fourth Grade 1 SF Zn	Classroom / Lecture (34%)	C	919	895	0.97	100%	895	100%	0.974	19.5	6	152	148	79.1	84.6	1,033	0
... Storage 3 SF Zn	Classroom / Lecture (38%)	C	107	53	0.50	100%	0	0%	0.000	--	0	720	360	16.7	17.8	1,014	3
Sum of Zones	..	..	..	948	..	..	..	..	..	..	6	..	..	..	..	23%	0%
Sum of Zones / System Total	..	..	..	100%	..	..	..	..	..	..	100%	..	..	..	..	..	..

System & Zone Name	System Type Principal Zone Activity	Type*	Area sqft	Design Flow			Design Ventilation				Design Capacity					Hrs Outside Thrl-Range	
		Ret Zn		Supply cfm	Supply cfm/sf	Min Flow	OSA cfm	OSA %	OSA cfm/sf	OSA cfm/per	Cool tons	Cool sf/ton	Cool cfm/ton	Cool Btuh/sf	Heat Btuh/sf	Cool Hrs	Heat Hrs
WSHP-14	Water Loop HP	D	1,085	985	0.91	100%	910	92%	0.839	19.6	6	170	155	70.5	75.4	3,047	3

... Fourth Grade 2 SF Zn	Exercising Center / Gym (36%)	C	920	902	0.98	100%	902	100%	0.981	19.6	6	151	148	79.7	85.2	1,013	0
... Storage 2 SF Zn	Exercising Center / Gym (36%)	C	127	63	0.50	100%	0	0%	0.000	--	0	720	360	16.7	17.8	1,020	3
... G.T.3 SF Zn	Classroom / Lecture (34%)	C	38	19	0.50	100%	8	40%	0.202	19.5	0	437	219	27.4	29.4	1,014	0
Sum of Zones	..	..	..	985	..	..	..	..	..	..	6	..	..	..	..	35%	0%
Sum of Zones / System Total	..	..	..	100%	..	..	..	..	..	..	100%	..	..	..	..	..	..

System & Zone Name	System Type Principal Zone Activity	Type*	Area sqft	Design Flow			Design Ventilation				Design Capacity					Hrs Outside Thrl-Range	
				Supply cfm	Supply cfm/sf	Min Flow	OSA cfm	OSA %	OSA cfm/sf	OSA cfm/per	Cool tons	Cool sf/ton	Cool cfm/ton	Cool Btuh/sf	Heat Btuh/sf	Cool Hrs	Heat Hrs
WSHP-15	Water Loop HP	D	577	344	0.60	100%	69	20%	0.121	19.8	1	451	269	26.6	28.5	2,147	14
... Toilet 1 SF Zn	Exercising Center / Gym (36%)	C	74	37	0.50	100%	0	0%	0.000	--	0	720	360	16.7	17.8	1,011	14
... Workroom SF Zn	Exercising Center / Gym (52%)	C	503	307	0.61	100%	69	23%	0.138	19.8	1	428	261	28.1	30.0	1,136	0
Sum of Zones	..	..	..	344	..	..	..	..	..	..	1	..	..	..	..	25%	0%
Sum of Zones / System Total	..	..	..	100%	..	..	..	..	..	..	100%	..	..	..	..	..	..

System & Zone Name	System Type Principal Zone Activity	Type*	Area sqft	Design Flow			Design Ventilation				Design Capacity					Hrs Outside Thrl-Range	
				Supply cfm	Supply cfm/sf	Min Flow	OSA cfm	OSA %	OSA cfm/sf	OSA cfm/per	Cool tons	Cool sf/ton	Cool cfm/ton	Cool Btuh/sf	Heat Btuh/sf	Cool Hrs	Heat Hrs
WSHP-16	Water Loop HP	D	608	583	0.96	100%	452	77%	0.743	19.3	3	176	169	68.2	73.0	2,171	2
... ESL 1 SF Zn	Classroom / Lecture (40%)	C	469	514	1.09	100%	452	88%	0.963	19.3	3	144	157	83.4	89.3	1,035	0
... Janitor 1 SF Zn	Exercising Center / Gym (52%)	C	139	69	0.50	100%	0	0%	0.000	--	0	720	360	16.7	17.8	1,136	2
Sum of Zones	..	..	..	583	..	..	..	..	..	..	3	..	..	..	..	25%	0%
Sum of Zones / System Total	..	..	..	100%	..	..	..	..	..	..	100%	..	..	..	..	..	..

System & Zone Name	System Type Principal Zone Activity	Type*	Area sqft	Design Flow			Design Ventilation				Design Capacity					Hrs Outside Thrl-Range	
				Supply cfm	Supply cfm/sf	Min Flow	OSA cfm	OSA %	OSA cfm/sf	OSA cfm/per	Cool tons	Cool sf/ton	Cool cfm/ton	Cool Btuh/sf	Heat Btuh/sf	Cool Hrs	Heat Hrs
WSHP-17	Water Loop HP	D	783	700	0.89	100%	462	66%	0.589	19.6	4	205	183	58.5	62.6	2,963	7
... G.T. 2 SF Zn	Exercising Center / Gym (36%)	C	99	49	0.50	100%	0	0%	0.000	--	0	720	360	16.7	17.8	940	3
... Storage 1 SF Zn	Classroom / Lecture (39%)	C	214	128	0.60	100%	0	0%	0.000	--	0	600	360	20.0	21.4	1,002	4
... ESL 2 SF Zn	Exercising Center / Gym (36%)	C	471	523	1.11	100%	462	88%	0.981	19.6	3	141	157	84.8	90.8	1,021	0
Sum of Zones	..	..	..	700	..	..	..	..	..	..	4	..	..	..	..	34%	0%
Sum of Zones / System Total	..	..	..	100%	..	..	..	..	..	..	100%	..	..	..	..	..	..

System & Zone Name	System Type Principal Zone Activity	Type* Ret Zn	Area sqft	Design Flow			Design Ventilation				Design Capacity					Hrs Outside Thrl-Range	
				Supply cfm	Supply cfm/sf	Min Flow	OSA cfm	OSA %	OSA cfm/sf	OSA cfm/per	Cool tons	Cool sf/ton	Cool cfm/ton	Cool Btuh/sf	Heat Btuh/sf	Cool Hrs	Heat Hrs
WSHP-18	Water Loop HP	D	966	1,037	1.07	100%	947	91%	0.981	19.6	7	144	155	83.4	89.2	985	0
... Third Grade 2 SF Zn	Exercising Center / Gym (36%)	C	966	1,037	1.07	100%	947	91%	0.981	19.6	7	144	155	83.4	89.2	985	0

System & Zone Name	System Type Principal Zone Activity	Type* Ret Zn	Area sqft	Design Flow			Design Ventilation				Design Capacity					Hrs Outside Thrl-Range	
				Supply cfm	Supply cfm/sf	Min Flow	OSA cfm	OSA %	OSA cfm/sf	OSA cfm/per	Cool tons	Cool sf/ton	Cool cfm/ton	Cool Btuh/sf	Heat Btuh/sf	Cool Hrs	Heat Hrs
WSHP-19	Water Loop HP	D	999	937	0.94	100%	886	95%	0.888	19.8	6	163	153	73.8	79.0	1,960	3
... Third Grade 1 SF Zn	Exercising Center / Gym (52%)	C	897	886	0.99	100%	886	100%	0.988	19.8	6	150	148	80.2	85.8	996	0
... G.T.1 SF Zn	Exercising Center / Gym (36%)	C	101	51	0.50	100%	0	0%	0.000	--	0	720	360	16.7	17.8	964	3
Sum of Zones	..	..	..	937	..	..	..	..	..	..	6	..	..	..	..	22%	0%
Sum of Zones / System Total	..	..	..	100%	..	..	..	..	..	..	100%	..	..	..	..	..	..

System & Zone Name	System Type Principal Zone Activity	Type* Ret Zn	Area sqft	Design Flow			Design Ventilation				Design Capacity					Hrs Outside Thrl-Range	
				Supply cfm	Supply cfm/sf	Min Flow	OSA cfm	OSA %	OSA cfm/sf	OSA cfm/per	Cool tons	Cool sf/ton	Cool cfm/ton	Cool Btuh/sf	Heat Btuh/sf	Cool Hrs	Heat Hrs
WSHP-20	Water Loop HP	D	640	579	0.90	100%	461	80%	0.721	19.8	3	184	167	65.1	69.7	2,178	7
... Speech SF Zn	Exercising Center / Gym (52%)	C	467	481	1.03	100%	461	96%	0.988	19.8	3	146	151	81.9	87.7	1,075	0
... Storage 6 SF Zn	Classroom / Lecture (39%)	C	173	97	0.56	100%	0	0%	0.000	--	0	610	343	19.7	21.1	1,103	7
Sum of Zones	..	..	..	579	..	..	..	..	..	..	3	..	..	..	..	25%	0%
Sum of Zones / System Total	..	..	..	100%	..	..	..	..	..	..	100%	..	..	..	..	..	..

System & Zone Name	System Type Principal Zone Activity	Type* Ret Zn	Area sqft	Design Flow			Design Ventilation				Design Capacity					Hrs Outside Thrl-Range	
				Supply cfm	Supply cfm/sf	Min Flow	OSA cfm	OSA %	OSA cfm/sf	OSA cfm/per	Cool tons	Cool sf/ton	Cool cfm/ton	Cool Btuh/sf	Heat Btuh/sf	Cool Hrs	Heat Hrs
WSHP-21	Water Loop HP	D	715	574	0.80	100%	439	76%	0.615	19.8	3	213	172	56.2	60.2	2,223	8
... Student Services SF Zn	Exercising Center / Gym (52%)	C	445	439	0.99	100%	439	100%	0.988	19.8	3	150	148	80.2	85.8	1,093	0
... Music Storage SF Zn	Exercising Center / Gym (52%)	C	270	135	0.50	100%	0	0%	0.000	--	0	720	360	16.7	17.8	1,130	8

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Sum of Zones	574	3	25%	0%
Sum of Zones / System Total	100%	100%

System & Zone Name	System Type Principal Zone Activity	Type* Ret Zn	Area sqft	Design Flow			Design Ventilation				Design Capacity					Hrs Outside Thrl-Range	
				Supply cfm	Supply cfm/sf	Min Flow	OSA cfm	OSA %	OSA cfm/sf	OSA cfm/per	Cool tons	Cool sf/ton	Cool cfm/ton	Cool Btuh/sf	Heat Btuh/sf	Cool Hrs	Heat Hrs
WSHP-22	Water Loop HP	D	909	940	1.03	100%	879	94%	0.968	19.4	6	148	153	81.3	86.9	1,010	0
... Music SF Zn	Classroom / Lecture (38%)	C	909	940	1.03	100%	879	94%	0.968	19.4	6	148	153	81.3	86.9	1,010	0

System & Zone Name	System Type Principal Zone Activity	Type* Ret Zn	Area sqft	Design Flow			Design Ventilation				Design Capacity					Hrs Outside Thrl-Range	
				Supply cfm	Supply cfm/sf	Min Flow	OSA cfm	OSA %	OSA cfm/sf	OSA cfm/per	Cool tons	Cool sf/ton	Cool cfm/ton	Cool Btuh/sf	Heat Btuh/sf	Cool Hrs	Heat Hrs
WSHP-23	Water Loop HP	D	7,120	12,241	1.72	100%	6,117	50%	0.859	18.7	58	122	210	98.3	105.2	7,870	175
... Stairs 1 FF Zn	Exercising Center / Gym (55%)	C	316	184	0.58	100%	0	0%	0.000	--	0	719	418	16.7	17.9	999	27
... Vestibule FF Zn	Classroom / Lecture (23%)	C	332	692	2.08	100%	0	0%	0.000	--	2	173	360	69.5	74.4	785	0
... Stairs 2 FF Zn	Classroom / Lecture (27%)	C	465	565	1.22	100%	0	0%	0.000	--	2	296	360	40.5	43.4	818	0
... Corridor 1 FF Zn	Classroom / Lecture (23%)	C	2,842	4,249	1.49	100%	0	0%	0.000	--	12	241	360	49.8	53.3	950	0
... Vestibule 3 FF Zn	Classroom / Lecture (23%)	C	227	113	0.50	100%	0	0%	0.000	--	0	720	360	16.7	17.8	1,293	21
... Lobby FF Zn	Exercising Center / Gym (46%)	C	2,295	6,117	2.67	100%	6,117	100%	2.665	18.7	41	55	148	216.5	231.6	987	0
... North Entry FF Zn	Classroom / Lecture (23%)	C	391	196	0.50	100%	0	0%	0.000	--	1	720	360	16.7	17.8	1,326	62
... Stairs 3 FF Zn	Classroom / Lecture (28%)	C	252	126	0.50	100%	0	0%	0.000	--	0	720	360	16.7	17.8	712	65
Sum of Zones	..	..	..	12,241	..	..	..	..	..	..	58	..	..	..	..	90%	2%
Sum of Zones / System Total	..	..	..	100%	..	..	..	..	..	..	100%	..	..	..	..	..	..

System & Zone Name	System Type Principal Zone Activity	Type* Ret Zn	Area sqft	Design Flow			Design Ventilation				Design Capacity					Hrs Outside Thrl-Range	
				Supply cfm	Supply cfm/sf	Min Flow	OSA cfm	OSA %	OSA cfm/sf	OSA cfm/per	Cool tons	Cool sf/ton	Cool cfm/ton	Cool Btuh/sf	Heat Btuh/sf	Cool Hrs	Heat Hrs
WSHP-24	Water Loop HP	D	6,993	4,190	0.60	100%	0	0%	0.000	--	12	601	360	20.0	21.4	5,921	171
... Stair 1 SF Zn	Exercising Center / Gym (36%)	C	547	274	0.50	100%	0	0%	0.000	--	1	720	360	16.7	17.8	1,109	0
... South Corridor SF Zn	Exercising Center / Gym (52%)	C	946	473	0.50	100%	0	0%	0.000	--	1	720	360	16.7	17.8	891	0
... Vestibule 1 SF Zn	Exercising Center / Gym (36%)	C	78	39	0.50	100%	0	0%	0.000	--	0	720	360	16.7	17.8	1,126	22
... Vestibule 2 SF Zn	Classroom / Lecture (39%)	C	345	319	0.93	100%	0	0%	0.000	--	1	389	360	30.9	33.0	548	2
... Corridor SF Zn	Exercising Center / Gym (52%)	C	2,599	1,299	0.50	100%	0	0%	0.000	--	4	720	360	16.7	17.8	1,005	0

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... Stair 2 SF Zn	Exercising Center / Gym (36%)	C	253	127	0.50	100%	0	0%	0.000	--	0	720	360	16.7	17.8	484	145
... West Corridor SF Zn	Exercising Center / Gym (36%)	C	2,226	1,660	0.75	100%	0	0%	0.000	--	5	483	360	24.8	26.6	758	2
Sum of Zones		..	..	4,190	..	..	..	..	..	..	12	..	..	..	..	68%	2%
Sum of Zones / System Total		..	..	100%	..	..	..	..	..	..	100%	..	..	..	..	..	..

System & Zone Name	System Type Principal Zone Activity	Type*	Area sqft	Design Flow			Design Ventilation				Design Capacity					Hrs Outside Thrl-Range	
				Supply cfm	Supply cfm/sf	Min Flow	OSA cfm	OSA %	OSA cfm/sf	OSA cfm/per	Cool tons	Cool sf/ton	Cool cfm/ton	Cool Btuh/sf	Heat Btuh/sf	Cool Hrs	Heat Hrs
ERAHU	Water Loop HP	D	3,245	2,989	0.92	100%	0	0%	0.000	0.0	11	284	262	42.2	45.1	0	0
... Dining/MP FF ZN	Classroom / Lecture (23%)	C	1,726	1,789	1.04	100%	0	0%	0.000	0.0	6	266	275	45.2	48.3	0	0
... Electrical FF Zn	Exercising Center / Gym (46%)	C	113	40	0.36	100%	0	0%	0.000	--	0	959	343	12.5	13.4	0	0
... Elevator FF Zn	Exercising Center / Gym (55%)	C	196	36	0.18	100%	0	0%	0.000	--	0	1,886	343	6.4	6.8	0	0
... Kitchen FF Zn	Exercising Center / Gym (46%)	C	1,152	1,113	0.97	100%	0	0%	0.000	0.0	5	247	239	48.5	51.9	0	0
... Janitor 3 FF Zn	Classroom / Lecture (23%)	C	57	11	0.18	100%	0	0%	0.000	--	0	1,860	343	6.5	6.9	0	0
Sum of Zones		..	..	2,989	..	..	..	..	..	..	11	..	..	..	..	0%	0%
Sum of Zones / System Total		..	..	100%	..	..	..	..	..	..	100%	..	..	..	..	..	..

System & Zone Name	System Type Principal Zone Activity	Type*	Area sqft	Design Flow			Design Ventilation				Design Capacity					Hrs Outside Thrl-Range	
				Supply cfm	Supply cfm/sf	Min Flow	OSA cfm	OSA %	OSA cfm/sf	OSA cfm/per	Cool tons	Cool sf/ton	Cool cfm/ton	Cool Btuh/sf	Heat Btuh/sf	Cool Hrs	Heat Hrs
AHU-1	Water Loop HP	D	5,350	4,218	0.79	100%	610	14%	0.114	7.0	16	338	266	35.5	38.0	2,290	2,826
... Principal FF ZN	Classroom / Lecture (23%)	C	352	772	2.19	100%	0	0%	0.000	0.0	2	156	343	76.7	82.1	0	0
... Toilet 2 FF Zn	Exercising Center / Gym (46%)	C	157	0	0.00	100%	0	0%	0.000	--	0	9,397, 380	297	0.0	0.0	2,290	2,826
... COTS FF Zn	Exercising Center / Gym (46%)	C	191	56	0.29	100%	0	0%	0.000	--	0	1,163	343	10.3	11.0	0	0
... Toilet 3 FF Zn	Exercising Center / Gym	C	180	200	1.11	100%	200	100%	1.109	--	1	133	148	90.1	96.4	0	0
... Early Childhood/Coop FF Zn	Exercising Center / Gym (46%)	C	1,221	1,543	1.26	100%	0	0%	0.000	0.0	6	219	277	54.8	58.6	0	0
... Treatment 1 FF Zn	Exercising Center / Gym	C	166	109	0.66	100%	0	0%	0.000	0.0	0	517	340	23.2	24.8	0	0
... Health Suite FF Zn	Exercising Center / Gym (46%)	C	301	189	0.63	100%	0	0%	0.000	0.0	1	545	343	22.0	23.6	0	0
... Closet 1 FF Zn	Classroom / Lecture (27%)	C	57	14	0.25	100%	0	0%	0.000	--	0	1,387	343	8.7	9.3	0	0
... Consellor FF Zn	Exercising Center / Gym (46%)	C	185	109	0.59	100%	0	0%	0.000	0.0	0	583	343	20.6	22.0	0	0
... TRreatment 2 FF Zn	Exercising Center / Gym (46%)	C	335	194	0.58	100%	0	0%	0.000	0.0	1	590	343	20.3	21.8	0	0
... Conference FF Zn	Classroom / Lecture (27%)	C	268	222	0.83	100%	0	0%	0.000	0.0	1	366	304	32.8	35.1	0	0
... Welcome FF Zn	Exercising Center / Gym (55%)	C	359	55	0.15	100%	0	0%	0.000	--	0	2,233	343	5.4	5.7	0	0

... Boys & Girls Restroom 1 FF Zn	Exercising Center / Gym (55%)	C	480	260	0.54	100%	260	100%	0.542	--	2	273	148	44.0	47.1	0	0
... Toilet 5 FF Zn	Classroom / Lecture (27%)	C	123	75	0.61	100%	75	100%	0.608	--	1	243	148	49.4	52.8	0	0
... Vestibule 2 FF Zn	Exercising Center / Gym (55%)	C	159	25	0.16	100%	0	0%	0.000	--	0	2,199	343	5.5	5.8	0	0
... Toilet 4 FF Zn	Classroom / Lecture (27%)	C	127	75	0.59	100%	75	100%	0.592	--	1	250	148	48.1	51.4	0	0
... Janitor 2 FF Zn	Classroom / Lecture (23%)	C	57	11	0.20	100%	0	0%	0.000	--	0	1,742	343	6.9	7.4	0	0
... DPR Office FF Zn	Exercising Center / Gym	C	372	227	0.61	100%	0	0%	0.000	0.0	1	550	336	21.8	23.3	0	0
... DPR Comp FF Zn	Classroom / Lecture (23%)	C	138	66	0.48	100%	0	0%	0.000	0.0	0	719	343	16.7	17.9	0	0
... Welcome/Security FF Zn	Exercising Center / Gym (46%)	C	124	15	0.12	100%	0	0%	0.000	--	0	2,875	343	4.2	4.5	0	0
Sum of Zones	..	..	..	4,218	..	..	..	..	..	..	16	..	..	..	..	26%	32%
Sum of Zones / System Total	..	..	..	100%	..	..	..	..	..	..	100%	..	..	..	..	..	..

System & Zone Name	System Type Principal Zone Activity	Type*	Area sqft	Design Flow			Design Ventilation				Design Capacity					Hrs Outside Thrl-Range	
				Supply cfm	Supply cfm/sf	Min Flow	OSA cfm	OSA %	OSA cfm/sf	OSA cfm/per	Cool tons	Cool sf/ton	Cool cfm/ton	Cool Btuh/sf	Heat Btuh/sf	Cool Hrs	Heat Hrs
AHU-2	Water Loop HP	D	3,053	2,178	0.71	100%	0	0%	0.000	0.0	7	422	301	28.4	30.4	0	0
... Reading SF Zn	Classroom / Lecture (34%)	C	1,339	1,050	0.78	100%	0	0%	0.000	0.0	3	402	315	29.9	32.0	0	0
... Telecom Head SF Zn	Classroom / Lecture (39%)	C	309	139	0.45	100%	0	0%	0.000	0.0	0	761	343	15.8	16.9	0	0
... Office/Workroom SF Zn	Classroom / Lecture (34%)	C	368	164	0.45	100%	0	0%	0.000	0.0	0	767	343	15.6	16.7	0	0
... Computer Project Lab SF Zn	Classroom / Lecture (39%)	C	1,038	825	0.79	100%	0	0%	0.000	0.0	3	345	274	34.8	37.2	0	0
Sum of Zones	..	..	..	2,178	..	..	..	..	..	..	7	..	..	..	..	0%	0%
Sum of Zones / System Total	..	..	..	100%	..	..	..	..	..	..	100%	..	..	..	..	..	..

System & Zone Name	System Type Principal Zone Activity	Type*	Area sqft	Design Flow			Design Ventilation				Design Capacity					Hrs Outside Thrl-Range	
				Supply cfm	Supply cfm/sf	Min Flow	OSA cfm	OSA %	OSA cfm/sf	OSA cfm/per	Cool tons	Cool sf/ton	Cool cfm/ton	Cool Btuh/sf	Heat Btuh/sf	Cool Hrs	Heat Hrs
RTAH-1	Water Loop HP	D	8,807	3,482	0.40	100%	0	0%	0.000	0.0	12	748	296	16.0	17.2	0	0
... Gymnasium FF Zn	Classroom / Lecture (27%)	C	8,807	3,482	0.40	100%	0	0%	0.000	0.0	12	748	296	16.0	17.2	0	0

System & Zone Name	System Type Principal Zone Activity	Type*	Area sqft	Design Flow			Design Ventilation				Design Capacity					Hrs Outside Thrl-Range	
				Supply cfm	Supply cfm/sf	Min Flow	OSA cfm	OSA %	OSA cfm/sf	OSA cfm/per	Cool tons	Cool sf/ton	Cool cfm/ton	Cool Btuh/sf	Heat Btuh/sf	Cool Hrs	Heat Hrs
RTAH-2	Water Loop HP	D	11,703	2,306	0.20	100%	0	0%	0.000	0.0	7	1,721	339	7.0	7.5	0	0
... Gym Office FF Zn	Classroom / Lecture (23%)	C	265	172	0.65	100%	0	0%	0.000	0.0	1	529	343	22.7	24.3	0	0

... Access FF Zn	Exercising Center / Gym (46%)	C	96	135	1.42	100%	0	0%	0.000	--	0	242	343	49.6	53.1	0	0
... Stage FF Zn	Exercising Center / Gym (46%)	C	428	681	1.59	100%	0	0%	0.000	0.0	2	208	331	57.8	61.8	0	0
... Storage 2 FF Zn	Exercising Center / Gym (46%)	C	464	142	0.31	100%	0	0%	0.000	--	0	1,123	343	10.7	11.4	0	0
... Gym Mezzanine SF Zn	Classroom / Lecture (39%)	C	10,450	1,176	0.11	100%	0	0%	0.000	--	3	3,045	343	3.9	4.2	0	0
Sum of Zones	..	..	..	2,306	..	..	..	..	..	..	7	..	..	..	..	0%	0%
Sum of Zones / System Total	..	..	..	100%	..	..	..	..	..	..	100%	..	..	..	..	..	..

System & Zone Name	System Type Principal Zone Activity	Type*	Area sqft	Design Flow			Design Ventilation				Design Capacity					Hrs Outside Thrl-Range	
				Supply cfm	Supply cfm/sf	Min Flow	OSA cfm	OSA %	OSA cfm/sf	OSA cfm/per	Cool tons	Cool sf/ton	Cool cfm/ton	Cool Btuh/sf	Heat Btuh/sf	Cool Hrs	Heat Hrs
AHU-3	Water Loop HP	D	1,003	1,048	1.04	100%	0	0%	0.000	0.0	4	236	246	50.8	54.4	0	0
... Art/Science/MP SF Zn	Exercising Center / Gym (52%)	C	1,003	1,048	1.04	100%	0	0%	0.000	0.0	4	236	246	50.8	54.4	0	0

Project Totals		Type*	Area sqft	Design Flow			Design Ventilation				Design Capacity					Throttling Range	
System & Zone Name	System Type Principal Zone Activity			Ret Zn	Supply cfm	Supply cfm/sf	Min Flow	OSA cfm	OSA %	OSA cfm/sf	OSA cfm/per	Cool tons	Cool sf/ton	Cool cfm/ton	Cool Btuh/sf	Heat Btuh/sf	Hrs Outside Thrl-Range
Sum of SYSTEMS		..	75,676	80,210	1.06	100%	27,311	73%	0.361	13.9	362	209	222	57.4	159.4	61%	
Sum of ZONES		80,210	1.06	..	..	..	..	..	362	..	..	..	..	..
Sum of Zones / System Total		100%	..	..	..	..	..	..	100%	..	..	..	..	..

* Return Types: .. 'P' = Plenum Return .. 'D' = Ducted Return .. 'd' = Direct return .. (Plenum Zones are not shown on this report)

* Zone Types: .. 'C' = Conditioned Zone .. 'U' = Unconditioned Zone .. 'S' = Slave Zone .. (conditioned but no t-stat)