

REPORT- ERV Energy Recovery Summary for: RTU-1 (Corridor DOAS)

WEATHER FILE- SEATTLE BOEING FI WA

----- AIR FLOW -----												
OUTDOOR (CFM)			EXHAUST (CFM)	PURGE (CFM)	POWER CONSUMPTION -----			PREHEAT (KBTU/HR)				
					OA FAN (KW)	EXH FAN (KW)	HT EXCH (KW)					
2800.			2000.	0.	0.000	0.000	0.000	0.				
----- SENSIBLE -----												
		HEATING	COOLING	HEATING	COOLING	HEATING	SENSIBLE	POWER	PREHEAT	ELECTRIC	HOURS	
SUM		(MBTU)	(MBTU)	(MBTU)	(MBTU)	(MBTU)	COOLING	FANS&HX	HEATING	(KWH)	HEAT	COOL
MON	PEAK	(KBTU/HR)	(KBTU/HR)	(KBTU/HR)	(KBTU/HR)	(KBTU/HR)	(KBTU/HR)	(KW)	(KBTU/HR)	(KW)		

JAN	SUM	-41.125	0.000	-41.129	0.000	-0.783	0.000	0.000	0.000	0.000	744	0
	PEAK	-96.027	0.000	-96.338	0.000	-49.879	0.000	0.000	0.000	0.000		
	DAY/HR	4/24	0/ 0	4/24	0/ 0	30/ 2	0/ 0	0/ 0	0/ 0	0/ 0		
FEB	SUM	-35.083	0.000	-35.100	0.000	-1.655	0.000	0.000	0.000	0.000	672	0
	PEAK	-80.891	0.000	-82.756	0.000	-56.521	0.000	0.000	0.000	0.000		
	DAY/HR	27/ 7	0/ 0	27/ 7	0/ 0	23/ 6	0/ 0	0/ 0	0/ 0	0/ 0		
MAR	SUM	-33.750	0.030	-33.716	0.022	-12.983	0.030	0.000	0.000	0.000	739	5
	PEAK	-74.439	9.937	-78.578	7.870	-64.658	9.937	0.000	0.000	0.000		
	DAY/HR	2/ 5	29/15	2/ 5	29/16	31/ 5	29/15	0/ 0	0/ 0	0/ 0		
APR	SUM	-30.309	0.000	-30.270	0.000	-27.106	0.000	0.000	0.000	0.000	720	0
	PEAK	-71.464	0.000	-73.122	0.000	-69.360	0.000	0.000	0.000	0.000		
	DAY/HR	24/ 5	0/ 0	24/ 5	0/ 0	23/ 1	0/ 0	0/ 0	0/ 0	0/ 0		
MAY	SUM	-27.947	0.000	-27.938	0.000	-27.947	0.000	0.000	0.000	0.000	744	0
	PEAK	-61.401	0.000	-73.278	0.000	-61.401	0.000	0.000	0.000	0.000		
	DAY/HR	6/ 6	0/ 0	9/17	0/ 0	6/ 6	0/ 0	0/ 0	0/ 0	0/ 0		
JUN	SUM	-23.044	0.000	-23.014	0.000	-22.341	0.000	0.000	0.000	0.000	720	0
	PEAK	-49.778	0.000	-52.703	0.000	-49.778	0.000	0.000	0.000	0.000		
	DAY/HR	12/ 2	0/ 0	12/ 3	0/ 0	12/ 2	0/ 0	0/ 0	0/ 0	0/ 0		
JUL	SUM	-18.019	0.401	-18.059	0.383	-12.119	0.000	0.000	0.000	0.000	683	61
	PEAK	-49.720	21.202	-51.171	20.903	-49.720	0.000	0.000	0.000	0.000		
	DAY/HR	31/ 6	23/17	1/ 7	23/17	31/ 6	0/ 0	0/ 0	0/ 0	0/ 0		
AUG	SUM	-18.441	0.227	-18.296	0.146	-11.411	0.000	0.000	0.000	0.000	710	34
	PEAK	-46.616	20.691	-51.831	16.913	-46.616	0.000	0.000	0.000	0.000		
	DAY/HR	1/ 5	10/18	22/24	10/16	1/ 5	0/ 0	0/ 0	0/ 0	0/ 0		
SEP	SUM	-23.214	0.076	-23.214	0.039	-21.970	0.005	0.000	0.000	0.000	700	20
	PEAK	-60.704	7.941	-71.117	10.251	-60.704	3.241	0.000	0.000	0.000		
	DAY/HR	28/ 7	19/16	19/ 4	19/12	28/ 7	8/16	0/ 0	0/ 0	0/ 0		
OCT	SUM	-30.458	0.019	-30.486	0.000	-30.458	0.019	0.000	0.000	0.000	740	4
	PEAK	-67.697	7.942	-74.527	0.000	-67.697	7.943	0.000	0.000	0.000		
	DAY/HR	22/ 7	6/15	30/ 4	0/ 0	22/ 7	6/15	0/ 0	0/ 0	0/ 0		
NOV	SUM	-33.456	0.000	-33.468	0.000	-17.098	0.000	0.000	0.000	0.000	720	0
	PEAK	-67.684	0.000	-70.599	0.000	-63.696	0.000	0.000	0.000	0.000		
	DAY/HR	5/ 2	0/ 0	27/ 5	0/ 0	1/ 6	0/ 0	0/ 0	0/ 0	0/ 0		

REPORT- ERV Energy Recovery Summary for: RTU-1 (Corridor DOAS)

WEATHER FILE- SEATTLE BOEING FI WA

----- (CONTINUED) -----

DEC	SUM	-39.620	0.000	-39.650	0.000	-2.131	0.000	0.000	0.000	0.000	744	0
	PEAK	-77.653	0.000	-84.295	0.000	-52.368	0.000	0.000	0.000	0.000		
	DAY/HR	24/22	0/ 0	24/22	0/ 0	16/23	0/ 0	0/ 0	0/ 0	0/ 0		
		=====	=====	=====	=====	=====	=====	=====	=====	=====	=====	=====
YR	SUM	-354.466	0.753	-354.339	0.590	-188.001	0.054	0.000	0.000	0.000	8636	124
	PEAK	-96.027	21.202	-96.338	20.903	-69.360	9.937	0.000	0.000	0.000		
	MON/DAY	1/ 4	7/23	1/ 4	7/23	4/23	3/29	0/ 0	0/ 0	0/ 0		

---	EXHAUST OUTLET ---	---	MAKE-UP OUTLET ---	---	CONDENSATE
	WET	FROSTED	WET	FROSTED	CONTROL
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ANNUAL HOURS:	0	0	0	0	0
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REPORT- ERV Energy Recovery Summary for: OFFICE DOAS ERV

WEATHER FILE- SEATTLE BOEING FI WA

----- AIR FLOW -----														
OUTDOOR (CFM)			EXHAUST (CFM)		PURGE (CFM)		OA FAN (KW)		EXH FAN (KW)		HT EXCH (KW)		PREHEAT (KBTU/HR)	

845.			845.		0.		0.000		0.000		0.000		0.	

			----- SENSIBLE -----		----- TOTAL -----		--- EXCESS SENSIBLE ---		-- POWER --		----- PREHEAT -----		-- HOURS --	
			HEATING		COOLING		HEATING		COOLING		HEATING		COOLING	
			(MBTU)		(MBTU)		(MBTU)		(MBTU)		(MBTU)		(MBTU)	
SUM			(KBTU/HR)		(KBTU/HR)		(KBTU/HR)		(KBTU/HR)		(KBTU/HR)		(KBTU/HR)	
MON PEAK			(KBTU/HR)		(KBTU/HR)		(KBTU/HR)		(KBTU/HR)		(KBTU/HR)		(KBTU/HR)	
DAY/HR			(KW)		(KW)		(KW)		(KW)		(KW)		(KW)	

JAN SUM			-4.637	0.000	-6.512	0.000	-2.218	0.000	0.000	0.000	0.000	0.000	384	0
PEAK			-22.640	0.000	-27.143	0.000	-8.130	0.000	0.000	0.000	0.000	0.000		
DAY/HR			5/ 8	0/ 0	3/16	0/ 0	15/14	0/ 0	0/ 0	0/ 0	0/ 0	0/ 0		

FEB SUM			-3.931	0.000	-5.619	0.000	-2.261	0.000	0.000	0.000	0.000	0.000	352	0
PEAK			-18.741	0.000	-23.768	0.000	-8.591	0.000	0.000	0.000	0.000	0.000		
DAY/HR			27/ 7	0/ 0	4/ 7	0/ 0	22/20	0/ 0	0/ 0	0/ 0	0/ 0	0/ 0		

MAR SUM			-3.589	0.016	-5.433	0.000	-2.677	0.000	0.000	0.000	0.000	0.000	388	8
PEAK			-15.976	3.634	-20.320	0.000	-8.655	0.000	0.000	0.000	0.000	0.000		
DAY/HR			2/ 7	29/15	2/ 7	0/ 0	30/14	0/ 0	0/ 0	0/ 0	0/ 0	0/ 0		

APR SUM			-3.155	0.000	-4.891	0.000	-2.686	0.000	0.000	0.000	0.000	0.000	400	0
PEAK			-15.420	0.000	-19.515	0.000	-8.698	0.000	0.000	0.000	0.000	0.000		
DAY/HR			24/ 7	0/ 0	29/ 7	0/ 0	25/16	0/ 0	0/ 0	0/ 0	0/ 0	0/ 0		

MAY SUM			-2.488	0.005	-3.947	0.000	-2.325	0.000	0.000	0.000	0.000	0.000	389	11
PEAK			-12.742	1.204	-23.285	0.000	-8.739	0.000	0.000	0.000	0.000	0.000		
DAY/HR			6/ 7	15/19	9/17	0/ 0	8/16	0/ 0	0/ 0	0/ 0	0/ 0	0/ 0		

JUN SUM			-1.772	0.010	-2.816	0.002	-1.769	0.000	0.000	0.000	0.000	0.000	361	19
PEAK			-9.827	1.671	-13.313	0.948	-8.718	0.000	0.000	0.000	0.000	0.000		
DAY/HR			12/ 7	20/17	12/ 7	29/18	6/10	0/ 0	0/ 0	0/ 0	0/ 0	0/ 0		

JUL SUM			-1.007	0.250	-1.618	0.225	-1.007	0.000	0.000	0.000	0.000	0.000	297	103
PEAK			-8.252	7.139	-13.663	9.166	-8.252	0.000	0.000	0.000	0.000	0.000		
DAY/HR			5/ 8	23/17	1/ 7	23/20	5/ 8	0/ 0	0/ 0	0/ 0	0/ 0	0/ 0		

AUG SUM			-1.161	0.129	-1.487	0.103	-1.161	0.000	0.000	0.000	0.000	0.000	350	62
PEAK			-8.295	7.160	-10.797	5.275	-8.295	0.000	0.000	0.000	0.000	0.000		
DAY/HR			14/ 7	10/18	26/ 7	10/16	14/ 7	0/ 0	0/ 0	0/ 0	0/ 0	0/ 0		

SEP SUM			-1.667	0.060	-2.631	0.014	-1.624	0.000	0.000	0.000	0.000	0.000	333	35
PEAK			-12.878	3.838	-17.036	4.862	-9.375	0.000	0.000	0.000	0.000	0.000		
DAY/HR			28/ 8	19/16	28/ 7	19/12	23/11	0/ 0	0/ 0	0/ 0	0/ 0	0/ 0		

OCT SUM			-3.113	0.006	-4.776	0.000	-2.793	0.000	0.000	0.000	0.000	0.000	395	5
PEAK			-14.986	2.292	-20.352	0.000	-8.810	0.000	0.000	0.000	0.000	0.000		
DAY/HR			22/ 7	7/17	22/ 7	0/ 0	7/ 9	0/ 0	0/ 0	0/ 0	0/ 0	0/ 0		

NOV SUM			-3.585	0.000	-5.356	0.000	-2.517	0.000	0.000	0.000	0.000	0.000	364	0
PEAK			-15.091	0.000	-21.216	0.000	-8.670	0.000	0.000	0.000	0.000	0.000		
DAY/HR			5/ 7	0/ 0	18/ 7	0/ 0	14/16	0/ 0	0/ 0	0/ 0	0/ 0	0/ 0		

REPORT- ERV Energy Recovery Summary for: OFFICE DOAS ERV

WEATHER FILE- SEATTLE BOEING FI WA

------(CONTINUED)-----

DEC	SUM	-4.443	0.000	-6.353	0.000	-2.291	0.000	0.000	0.000	0.000	384	0
	PEAK	-17.852	0.000	-22.746	0.000	-7.971	0.000	0.000	0.000	0.000		
	DAY/HR	24/22	0/ 0	26/19	0/ 0	16/15	0/ 0	0/ 0	0/ 0	0/ 0		
		=====	=====	=====	=====	=====	=====	=====	=====	=====	=====	=====
YR	SUM	-34.547	0.474	-51.440	0.345	-25.329	0.000	0.000	0.000	0.000	4397	243
	PEAK	-22.640	7.160	-27.143	9.166	-9.375	0.000	0.000	0.000	0.000		
	MON/DAY	1/ 5	8/10	1/ 3	7/23	9/23	0/ 0	0/ 0	0/ 0	0/ 0		

---	EXHAUST	OUTLET	---	---	MAKE-UP	OUTLET	---	CONDENSATE
	WET		FROSTED		WET		FROSTED	CONTROL
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ANNUAL HOURS:	0	0	0	0	0
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REPORT- ERV Energy Recovery Summary for: Amenity ERV

WEATHER FILE- SEATTLE BOEING FI WA

		AIR FLOW		POWER CONSUMPTION								
OUTDOOR (CFM)		EXHAUST (CFM)	PURGE (CFM)	OA FAN (KW)	EXH FAN (KW)	HT EXCH (KW)	PREHEAT (KBTU/HR)					
97.		97.	0.	0.000	0.000	0.000	0.					
		----- SENSIBLE -----		----- TOTAL -----		----- EXCESS SENSIBLE -----		----- POWER -----	----- PREHEAT -----		----- HOURS -----	
		HEATING	COOLING	HEATING	COOLING	HEATING	COOLING	FANS&HX	HEATING	ELECTRIC	HEAT	COOL
SUM		(MBTU)	(MBTU)	(MBTU)	(MBTU)	(MBTU)	(MBTU)	(KWH)	(MBTU)	(KWH)		
MON	PEAK	(KBTU/HR)	(KBTU/HR)	(KBTU/HR)	(KBTU/HR)	(KBTU/HR)	(KBTU/HR)	(KW)	(KBTU/HR)	(KW)		
		-----		-----		-----		-----	-----		-----	
JAN	SUM	-1.639	0.000	-1.642	0.000	-1.639	0.000	0.000	0.000	0.000	744	0
	PEAK	-3.882	0.000	-4.089	0.000	-3.882	0.000	0.000	0.000	0.000		
	DAY/HR	5/ 9	0/ 0	3/19	0/ 0	5/ 9	0/ 0	0/ 0	0/ 0	0/ 0		
FEB	SUM	-1.500	0.000	-1.496	0.000	-1.500	0.000	0.000	0.000	0.000	672	0
	PEAK	-3.431	0.000	-3.529	0.000	-3.431	0.000	0.000	0.000	0.000		
	DAY/HR	27/ 7	0/ 0	27/ 7	0/ 0	27/ 7	0/ 0	0/ 0	0/ 0	0/ 0		
MAR	SUM	-1.442	0.000	-1.438	0.000	-1.442	0.000	0.000	0.000	0.000	743	1
	PEAK	-3.036	0.320	-3.287	0.097	-3.036	0.000	0.000	0.000	0.000		
	DAY/HR	2/ 5	29/16	2/ 5	29/16	2/ 5	0/ 0	0/ 0	0/ 0	0/ 0		
APR	SUM	-1.341	0.000	-1.334	0.000	-1.341	0.000	0.000	0.000	0.000	720	0
	PEAK	-2.903	0.000	-3.090	0.000	-2.903	0.000	0.000	0.000	0.000		
	DAY/HR	23/ 1	0/ 0	23/ 1	0/ 0	23/ 1	0/ 0	0/ 0	0/ 0	0/ 0		
MAY	SUM	-1.229	0.000	-1.190	0.001	-1.229	0.000	0.000	0.000	0.000	744	0
	PEAK	-2.641	0.000	-3.270	0.199	-2.641	0.000	0.000	0.000	0.000		
	DAY/HR	25/ 6	0/ 0	9/17	15/17	25/ 6	0/ 0	0/ 0	0/ 0	0/ 0		
JUN	SUM	-0.965	0.000	-0.895	0.013	-0.965	0.000	0.000	0.000	0.000	716	4
	PEAK	-2.147	0.111	-2.166	1.259	-2.147	0.000	0.000	0.000	0.000		
	DAY/HR	6/10	20/17	14/ 4	30/15	6/10	0/ 0	0/ 0	0/ 0	0/ 0		
JUL	SUM	-0.779	0.030	-0.661	0.088	-0.779	0.000	0.000	0.000	0.000	666	78
	PEAK	-2.131	1.139	-2.224	1.786	-2.131	0.000	0.000	0.000	0.000		
	DAY/HR	31/ 6	23/17	31/ 6	23/17	31/ 6	0/ 0	0/ 0	0/ 0	0/ 0		
AUG	SUM	-0.774	0.019	-0.589	0.073	-0.774	0.000	0.000	0.000	0.000	703	41
	PEAK	-2.115	1.263	-2.220	1.597	-2.115	0.000	0.000	0.000	0.000		
	DAY/HR	1/ 7	10/18	15/ 8	10/15	1/ 7	0/ 0	0/ 0	0/ 0	0/ 0		
SEP	SUM	-0.964	0.008	-0.913	0.020	-0.964	0.000	0.000	0.000	0.000	690	30
	PEAK	-2.598	0.605	-3.229	1.203	-2.598	0.000	0.000	0.000	0.000		
	DAY/HR	28/ 7	22/14	19/ 4	19/12	28/ 7	0/ 0	0/ 0	0/ 0	0/ 0		
OCT	SUM	-1.222	0.001	-1.213	0.001	-1.222	0.000	0.000	0.000	0.000	738	6
	PEAK	-2.663	0.439	-3.101	0.385	-2.663	0.000	0.000	0.000	0.000		
	DAY/HR	24/ 6	6/15	30/ 4	8/16	24/ 6	0/ 0	0/ 0	0/ 0	0/ 0		
NOV	SUM	-1.300	0.000	-1.301	0.000	-1.300	0.000	0.000	0.000	0.000	720	0
	PEAK	-2.689	0.000	-2.732	0.000	-2.689	0.000	0.000	0.000	0.000		
	DAY/HR	5/ 2	0/ 0	1/ 6	0/ 0	5/ 2	0/ 0	0/ 0	0/ 0	0/ 0		

REPORT- ERV Energy Recovery Summary for: Amenity ERV

WEATHER FILE- SEATTLE BOEING FI WA

------(CONTINUED)-----

DEC	SUM	-1.562	0.000	-1.569	0.000	-1.562	0.000	0.000	0.000	0.000	744	0
	PEAK	-3.307	0.000	-3.475	0.000	-3.307	0.000	0.000	0.000	0.000		
	DAY/HR	26/19	0/ 0	26/19	0/ 0	26/19	0/ 0	0/ 0	0/ 0	0/ 0		
=====												
YR	SUM	-14.717	0.059	-14.241	0.195	-14.717	0.000	0.000	0.000	0.000	8600	160
	PEAK	-3.882	1.263	-4.089	1.786	-3.882	0.000	0.000	0.000	0.000		
	MON/DAY	1/ 5	8/10	1/ 3	7/23	1/ 5	0/ 0	0/ 0	0/ 0	0/ 0		

---	EXHAUST OUTLET	---	---	MAKE-UP OUTLET	---	CONDENSATE
	WET	FROSTED		WET	FROSTED	CONTROL

ANNUAL HOURS:	0	0	0	0	0	0
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