

EST NUMBER: WEB15800
RUN DATE.: 08/05/09 08:48am
DATA DATE.: SEPT 2009

MECHANICAL HVAC ESTIMATE
ANYTOWN, ANYWHERE
ESTIMATE SUMMARY

PREPARED FOR: ALL OF OUR CLIENTS
PREPARED BY.: TEMPEST COMPANY
PAGE: 1

DESCRIPTION	LABOR MANHOURS	LABOR DOLLARS	MATERIAL DOLLARS	EQUIPMENT DOLLARS	SUBCONTRACT DOLLARS	TOTAL DOLLARS
COLLEGE DORMITORY ESTIMATE	5,453.0	272,858	342,251	0	0	615,109
*** TOTAL ESTIMATED COST ***	5,453.0	272,858	342,251	0	0	615,109

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COLLEGE DORMITORY ESTIMATE SUMMARY - COLLEGE DORMITORY ESTIMATE

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DESCRIPTION	LABOR MANHOURS	LABOR DOLLARS	MATERIAL DOLLARS	EQUIPMENT DOLLARS	SUBCONTRACT DOLLARS	TOTAL DOLLARS
MECHANICAL	5,453.0	272,858	342,251	0	0	615,109
*** COLLEGE DORMITORY ESTIMATE ESTIMATED COST ***	5,453.0	272,858	342,251	0	0	615,109

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MECHANICAL SUMMARY - COLLEGE DORMITORY ESTIMATE

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DESCRIPTION	LABOR MANHOURS	LABOR DOLLARS	MATERIAL DOLLARS	EQUIPMENT DOLLARS	SUBCONTRACT DOLLARS	TOTAL DOLLARS
HEATING, VENTILATING & AIR CONDITIONING	5,453.0	272,858	342,251	0	0	615,109
*** MECHANICAL ESTIMATED COST ***	5,453.0	272,858	342,251	0	0	615,109

DESCRIPTION	QUANTITY	UNIT MEAS	LABOR MAN HOURS UNIT	LABOR MAN HOURS TOTAL	LABOR DOLLARS UNIT	LABOR DOLLARS TOTAL	MATERIAL DOLLARS UNIT	MATERIAL DOLLARS TOTAL	EQUIPMENT DOLLARS UNIT	EQUIPMENT DOLLARS TOTAL	SUBCONTRACT DOLLARS UNIT	SUBCONTRACT DOLLARS TOTAL	TOTAL DOLLARS
HEATING, VENTILATING & AIR CONDITIONING													
Duct	36,036	Lbs	0.084	3,027.0	50.04	151,471	0.81	29,189	0	0	0	0	180,660
Fitting	9,397	Lbs	0.095	892.7	50.04	44,671	2.8	26,312	0	0	0	0	70,983
Drives	3,377	Lin Ft	0	0.0	0	0	1.1	3,715	0	0	0	0	3,715
Flat S	4,154	Lin Ft	0	0.0	0	0	0.7	2,908	0	0	0	0	2,908
Standing S	3,563	Lin Ft	0	0.0	0	0	0.58	2,067	0	0	0	0	2,067
Ductmate	4,563	Lin Ft	0.025	114.1	50.04	5,710	0.64	2,920	0	0	0	0	8,630
Corners	2,112	Each	0.03	63.4	50.04	3,173	0.52	1,098	0	0	0	0	4,271
Hangers	5,080	Lbs	0	0.0	0	0	0.85	4,318	0	0	0	0	4,318
Hanger Rod	4,080	Lin Ft	0.033	134.6	50.04	6,735	0.46	1,877	0	0	0	0	8,612
Sealer	307	Gallon	0	0.0	0	0	18.5	5,680	0	0	0	0	5,680
Angles	4,008	Lbs	0.025	100.2	50.04	5,014	0.47	1,884	0	0	0	0	6,898
Canvas	410	Lin Ft	0.0125	5.1	50.04	255	4	1,640	0	0	0	0	1,895
Liner Duct	1,317	Sq Ft	0	0.0	0	0	0.6	790	0	0	0	0	790
Liner Fitting	477	Sq Ft	0	0.0	0	0	1.27	606	0	0	0	0	606
Duct Wrap	26,305	Sq Ft	0	0.0	0	0	2.3	60,502	0	0	0	0	60,502
Vanes	1,784	Lin Ft	0.013	23.2	50.04	1,161	0.75	1,338	0	0	0	0	2,499
Detail	63,507	Lbs	0.0042	266.7	50.04	13,346	0	0	0	0	0	0	13,346
Spiral Pipe	366	Lbs	0.035	12.8	50.04	641	0.7	256	0	0	0	0	897
Spiral Fitting	55	Lbs	0.073	4.0	50.04	200	4.78	263	0	0	0	0	463
6" Flex Duct	65	Lin Ft	0.056	3.6	50.04	180	0.78	51	0	0	0	0	231
8" Flex Duct	85	Lin Ft	0.056	4.8	50.04	240	0.97	82	0	0	0	0	322
10" Flex Duct	130	Lin Ft	0.056	7.3	50.04	365	1.15	150	0	0	0	0	515
12" Flex Duct	70	Lin Ft	0.056	3.9	50.04	195	1.41	99	0	0	0	0	294
14" Flex Duct	50	Lin Ft	0.056	2.8	50.04	140	1.76	88	0	0	0	0	228
16" Flex Duct	5	Lin Ft	0.056	0.3	50.04	15	2.05	10	0	0	0	0	25
6" Taps w/Volume Damper	10	Each	0.0325	0.3	50.04	15	10.5	105	0	0	0	0	120
8" Taps w/Volume Damper	13	Each	0.351	4.6	50.04	230	12.5	163	0	0	0	0	393

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DESCRIPTION	QUANTITY	UNIT MEAS	LABOR MAN HOURS UNIT	LABOR MAN HOURS TOTAL	LABOR DOLLARS UNIT	LABOR DOLLARS TOTAL	MATERIAL DOLLARS UNIT	MATERIAL DOLLARS TOTAL	EQUIPMENT DOLLARS UNIT	EQUIPMENT DOLLARS TOTAL	SUBCONTRACT DOLLARS UNIT	SUBCONTRACT DOLLARS TOTAL	TOTAL DOLLARS
10" Taps w/Volume Damper	20	Each	0.403	8.1	50.04	405	14.5	290	0	0	0	0	695
12" Taps w/Volume Damper	2	Each	0.468	0.9	50.04	45	16.5	33	0	0	0	0	78
14" Taps w/Volume Damper	4	Each	0.5	2.0	50.04	100	35	140	0	0	0	0	240
Draw Bands	154	Each	0	0.0	0	0	0.32	49	0	0	0	0	49
AHU-1 Air Handling Unit 11250 CFM	1	Each	18	18.0	50.04	901	8,924	8,924	0	0	0	0	9,825
AHU-2 Air Handling Unit 3600 CFM	1	Each	16	16.0	50.04	801	5,649	5,649	0	0	0	0	6,450
AHU-3 Air Handling Unit 8000 CFM	1	Each	16	16.0	50.04	801	8,216	8,216	0	0	0	0	9,017
AHU-4 Air Handling Unit 8500 CFM	1	Each	16	16.0	50.04	801	8,500	8,500	0	0	0	0	9,301
AHU-5 Air Handling Unit 15000 CFM	1	Each	18	18.0	50.04	901	15,960	15,960	0	0	0	0	16,861
AHU-6 Air Handling Unit 15000 CFM	1	Each	18	18.0	50.04	901	15,960	15,960	0	0	0	0	16,861
AC-1A Ductless Split System 600 CFM	1	Each	3.65	3.7	50.04	185	1,342	1,342	0	0	0	0	1,527
AC-2A Ductless Split System 600 CFM	1	Each	3.65	3.7	50.04	185	1,342	1,342	0	0	0	0	1,527
FCU-1 Fan Coil Unit 2000 CFM	1	Each	7.75	7.8	50.04	390	1,482	1,482	0	0	0	0	1,872
FCU-2 Fan Coil Unit 2000 CFM	1	Each	7.75	7.8	50.04	390	1,482	1,482	0	0	0	0	1,872
FCU-3 Fan Coil Unit 2000 CFM	1	Each	7.75	7.8	50.04	390	1,482	1,482	0	0	0	0	1,872
FCU-4 Fan Coil Unit 1700 CFM	1	Each	7.25	7.3	50.04	365	1,366	1,366	0	0	0	0	1,731
FCU-5 Fan Coil Unit 1400 CFM	1	Each	7.25	7.3	50.04	365	1,219	1,219	0	0	0	0	1,584
ERU-1 Energy Recovery Unit 6250 CFM	1	Each	7.75	7.8	50.04	390	14,264	14,264	0	0	0	0	14,654
ERU-2 Energy Recovery Unit 5000 CFM	1	Each	7.75	7.8	50.04	390	9,857	9,857	0	0	0	0	10,247
ERU-3 Energy Recovery Unit 3000 CFM	1	Each	7.75	7.8	50.04	390	6,941	6,941	0	0	0	0	7,331
ERU-4 Energy Recovery Unit 5000 CFM	1	Each	7.75	7.8	50.04	390	9,857	9,857	0	0	0	0	10,247
EF-1 Exhaust Fan 6250 CFM	1	Each	5.15	5.2	50.04	260	4,015	4,015	0	0	0	0	4,275
EF-2 Exhaust Fan 5000 CFM	1	Each	5.15	5.2	50.04	260	3,988	3,988	0	0	0	0	4,248
EF-3 Exhaust Fan 3000 CFM	1	Each	5.15	5.2	50.04	260	3,618	3,618	0	0	0	0	3,878
EF-4 Exhaust Fan 5000 CFM	1	Each	5.15	5.2	50.04	260	3,988	3,988	0	0	0	0	4,248
EF-5 Exhaust Fan 3500 CFM	1	Each	5.15	5.2	50.04	260	3,797	3,797	0	0	0	0	4,057
EF-6 Exhaust Fan 490 CFM	1	Each	3.5	3.5	50.04	175	792	792	0	0	0	0	967
EF-7 Exhaust Fan 490 CFM	1	Each	3.5	3.5	50.04	175	792	792	0	0	0	0	967

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DESCRIPTION	QUANTITY	UNIT MEAS	LABOR MAN HOURS UNIT	LABOR HOURS TOTAL	LABOR DOLLARS UNIT	LABOR DOLLARS TOTAL	MATERIAL DOLLARS UNIT	MATERIAL DOLLARS TOTAL	EQUIPMENT DOLLARS UNIT	EQUIPMENT DOLLARS TOTAL	SUBCONTRACT DOLLARS UNIT	SUBCONTRACT DOLLARS TOTAL	TOTAL DOLLARS
EF-8 Exhaust Fan 490 CFM	1	Each	3.5	3.5	50.04	175	792	792	0	0	0	0	967
EF-9 Exhaust Fan 400 CFM	1	Each	3.5	3.5	50.04	175	686	686	0	0	0	0	861
EF-10 Exhaust Fan 400 CFM	1	Each	3.5	3.5	50.04	175	686	686	0	0	0	0	861
EF-11 Exhaust Fan 700 CFM	1	Each	3.75	3.8	50.04	190	816	816	0	0	0	0	1,006
EF-12 Exhaust Fan 3000 CFM	1	Each	5.15	5.2	50.04	260	3,618	3,618	0	0	0	0	3,878
EF-13 Exhaust Fan 3000 CFM	1	Each	5.15	5.2	50.04	260	3,618	3,618	0	0	0	0	3,878
EF-14 Exhaust Fan 3000 CFM	1	Each	5.15	5.2	50.04	260	3,618	3,618	0	0	0	0	3,878
EF-15 Exhaust Fan 3000 CFM	1	Each	5.15	5.2	50.04	260	3,618	3,618	0	0	0	0	3,878
EF-16 Exhaust Fan 2000 CFM	1	Each	3.5	3.5	50.04	175	3,258	3,258	0	0	0	0	3,433
EF-17 Exhaust Fan 3960 CFM	1	Each	5.15	5.2	50.04	260	3,849	3,849	0	0	0	0	4,109
VAV-1 Variable Volume Box 100 CFM	1	Each	2.5	2.5	50.04	125	297	297	0	0	0	0	422
VAV-2 Variable Volume Box 300 CFM	1	Each	2.5	2.5	50.04	125	297	297	0	0	0	0	422
VAV-3 Variable Volume Box 300 CFM	1	Each	2.5	2.5	50.04	125	297	297	0	0	0	0	422
VAV-4 Variable Volume Box 300 CFM	1	Each	2.5	2.5	50.04	125	297	297	0	0	0	0	422
VAV-5 Variable Volume Box 500 CFM	1	Each	2.5	2.5	50.04	125	324	324	0	0	0	0	449
VAV-7 Variable Volume Box 200 CFM	1	Each	2.5	2.5	50.04	125	297	297	0	0	0	0	422
VAV-10 Variable Volume Box 1100 CFM	1	Each	4.5	4.5	50.04	225	538	538	0	0	0	0	763
VAV-11 Variable Volume Box 380 CFM	1	Each	2.5	2.5	50.04	125	324	324	0	0	0	0	449
VAV-12 Variable Volume Box 400 CFM	1	Each	2.5	2.5	50.04	125	324	324	0	0	0	0	449
VAV-13 Variable Volume Box 360 CFM	1	Each	2.5	2.5	50.04	125	324	324	0	0	0	0	449
VAV-14 Variable Volume Box 840 CFM	1	Each	4.5	4.5	50.04	225	421	421	0	0	0	0	646
VAV-15 Variable Volume Box 700 CFM	1	Each	4.5	4.5	50.04	225	388	388	0	0	0	0	613
VAV-16 Variable Volume Box 2000 CFM	1	Each	4.5	4.5	50.04	225	679	679	0	0	0	0	904
VAV-17 Variable Volume Box 1900 CFM	1	Each	4.5	4.5	50.04	225	679	679	0	0	0	0	904
VAV-(No Number) Variable Volume Box	2	Each	4.5	9.0	50.04	450	679	1,358	0	0	0	0	1,808
ST-1 Sound Attenuator (Size Not Shown)	1	Each	3.5	3.5	50.04	175	1,500	1,500	0	0	0	0	1,675
ST-2 Sound Attenuator (Size Not Shown)	1	Each	3.5	3.5	50.04	175	1,500	1,500	0	0	0	0	1,675
ST-3 Sound Attenuator (Size Not Shown)	1	Each	3.5	3.5	50.04	175	1,500	1,500	0	0	0	0	1,675

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DESCRIPTION	QUANTITY	UNIT MEAS	LABOR MAN UNIT	HOURS TOTAL	LABOR DOLLARS UNIT	TOTAL	MATERIAL DOLLARS UNIT	TOTAL	EQUIPMENT DOLLARS UNIT	TOTAL	SUBCONTRACT DOLLARS UNIT	TOTAL	TOTAL DOLLARS
ST-4 Sound Attenuator (Size Not Shown)	1	Each	3.5	3.5	50.04	175	1,500	1,500	0	0	0	0	1,675
ST-5 Sound Attenuator (Size Not Shown)	1	Each	3.5	3.5	50.04	175	1,500	1,500	0	0	0	0	1,675
ST-6 Sound Attenuator (Size Not Shown)	1	Each	3.5	3.5	50.04	175	1,500	1,500	0	0	0	0	1,675
6" 24 x 24 Ceiling Diffuser	11	Each	0.91	10.0	50.04	500	35	385	0	0	0	0	885
8" 24 x 24 Ceiling Diffuser	5	Each	0.91	4.6	50.04	230	35	175	0	0	0	0	405
10" 24 x 24 Ceiling Diffuser	1	Each	0.91	0.9	50.04	45	35	35	0	0	0	0	80
12" 24 x 24 Ceiling Diffuser	1	Each	0.91	0.9	50.04	45	35	35	0	0	0	0	80
6 x 6 CEG Exhaust Grille	143	Each	0.65	93.0	50.04	4,654	17	2,431	0	0	0	0	7,085
12 x 6 CEG Exhaust Grille	24	Each	0.65	15.6	50.04	781	22	528	0	0	0	0	1,309
14 x 14 CEG Exhaust Grille	4	Each	0.65	2.6	50.04	130	26	104	0	0	0	0	234
16 x 16 CEG Exhaust Grille	3	Each	0.65	2.0	50.04	100	28	84	0	0	0	0	184
30 x 6 CEG Exhaust Grille	2	Each	0.65	1.3	50.04	65	29	58	0	0	0	0	123
20 x 6 CEG Exhaust Grille	1	Each	0.65	0.7	50.04	35	27	27	0	0	0	0	62
24 x 24 CEG Exhaust Grille	2	Each	0.75	1.5	50.04	75	36	72	0	0	0	0	147
8 x 8 CRR Return Register	135	Each	0.65	87.8	50.04	4,394	19	2,565	0	0	0	0	6,959
24 x 24 CRR Return Register	11	Each	0.75	8.3	50.04	415	36	396	0	0	0	0	811
36 x 20 CRR Return Register	3	Each	0.75	2.3	50.04	115	47	141	0	0	0	0	256
18 x 10 CRR Return Register	4	Each	0.65	2.6	50.04	130	34	136	0	0	0	0	266
48 x 12 CRR Return Register	1	Each	0.75	0.8	50.04	40	49	49	0	0	0	0	89
30 x 12 CRR Return Register	7	Each	0.75	5.3	50.04	265	38	266	0	0	0	0	531
40 x 12 CRR Return Register	1	Each	0.75	0.8	50.04	40	41	41	0	0	0	0	81
42 x 12 CRR Return Register	1	Each	0.75	0.8	50.04	40	42	42	0	0	0	0	82
18 x 6 CRR Return Register	3	Each	0.65	2.0	50.04	100	26	78	0	0	0	0	178
72 x 24 CRR Return Register	3	Each	0.85	2.6	50.04	130	67	201	0	0	0	0	331
28 x 28 CRR Return Register	2	Each	0.75	1.5	50.04	75	48	96	0	0	0	0	171
8'-0" LD Linear Diffuser	2	Each	1.25	2.5	50.04	125	124	248	0	0	0	0	373
3'-0" LD Linear Diffuser	32	Each	0.75	24.0	50.04	1,201	61	1,952	0	0	0	0	3,153
4'-0" LD Linear Diffuser	4	Each	0.75	3.0	50.04	150	76	304	0	0	0	0	454

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7'-0" LD Linear Diffuser	5	Each	1.25	6.3	50.04	315	114	570	0	0	0	0	885
6'-0" LD Linear Diffuser	12	Each	1.25	15.0	50.04	751	98	1,176	0	0	0	0	1,927
14 x 6 WSR Supply Register	3	Each	0.65	2.0	50.04	100	34	102	0	0	0	0	202
18 x 12 WSR Supply Register	1	Each	0.65	0.7	50.04	35	39	39	0	0	0	0	74
12 x 6 WSR Supply Register	19	Each	0.65	12.4	50.04	620	42	798	0	0	0	0	1,418
10 x 6 WSR Supply Register	13	Each	0.65	8.5	50.04	425	28	364	0	0	0	0	789
36 x 20 Louver	2	Each	1.75	3.5	50.04	175	386	772	0	0	0	0	947
8 x 6 Volume Damper	49	Each	0.636	31.2	50.04	1,561	23	1,127	0	0	0	0	2,688
8 x 4 Volume Damper	79	Each	0.636	50.2	50.04	2,512	21	1,659	0	0	0	0	4,171
12 x 6 Volume Damper	23	Each	0.636	14.6	50.04	731	24	552	0	0	0	0	1,283
10 x 6 Volume Damper	11	Each	0.636	7.0	50.04	350	18	198	0	0	0	0	548
20 x 10 Volume Damper	4	Each	0.636	2.5	50.04	125	49	196	0	0	0	0	321
12 x 10 Volume Damper	6	Each	0.636	3.8	50.04	190	26	156	0	0	0	0	346
14 x 10 Volume Damper	2	Each	0.636	1.3	50.04	65	27	54	0	0	0	0	119
16 x 10 Volume Damper	1	Each	0.636	0.6	50.04	30	31	31	0	0	0	0	61
14 x 6 Volume Damper	2	Each	0.636	1.3	50.04	65	26	52	0	0	0	0	117
18 x 10 Volume Damper	2	Each	0.636	1.3	50.04	65	36	72	0	0	0	0	137
10 x 10 Volume Damper	1	Each	0.636	0.6	50.04	30	25	25	0	0	0	0	55
*** HEATING, VENTILATING & AIR CONDITIONING ESTIMATED COST ***				5,453.0		272,858		342,251		0		0	615,109