

COMET ESTIMATING

ESTIMATION & TAKEOFF COMPANY

MECHANICAL ESTIMATE

Summary of Costs & Material Take-Off

SCOPE OF WORK	BUILDING AREA	COST PER SF	SUGGESTED BASE BID
Mechanical (HVAC)	2,500 GSF	$152.59	$381,473.69

Project Summary

Division-wise cost breakdown and suggested base bid

PROJECT ID	—	ADDRESS	—	NO. OF FLOORS	1	BUILDING GSF	2,500 SF

DIVISION NO.	DESCRIPTION		TOTAL DIVISION COST	TOTAL DIVISION COST (PER SF)	TAKE-OFF PAGE
1000	General Requirements		$36,209.29	$14.48	p. 3
23000	HVAC/Mechanical		$261,817.03	$104.73	p. 3
PROJECTED COST			**$298,026.32**	**$119.21**	
Overhead and Profit		20%	$59,605.26	$23.84	
Insurance		3%	$8,940.79	$3.58	
Contingency		5%	$14,901.32	$5.96	
SUGGESTED BASE BID			**$381,473.69**	**$152.59**	

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Material Take-Off

Detailed quantities, labor, material and equipment costs by division

SR #	DESCRIPTION	QUANTITY				LABOR				MATERIAL		EQUIPMENT		TOTAL
		QTY	UNIT	WASTE	QTY W/ WASTE	LABOR HRS / UNIT	WAGE / HR	TOTAL LABOR HRS	TOTAL LABOR COST	MATL. RATE	TOTAL MATL. COST	EQUIP. RATE	TOTAL EQUIP. COST	SUB COST
01. GENERAL REQUIREMENTS														
1	Supervision and Coordination	1.00	LS	0%	1.00	74.46	$87.91	74.46	$6,545.43	–	–	–	–	**$6,545.43**
2	Submittals and Shop drawings	1.00	LS	0%	1.00	49.14	$87.91	49.14	$4,319.98	–	–	–	–	**$4,319.98**
3	Final Cleaning	1.00	LS	0%	1.00	25.32	$87.91	25.32	$2,225.44	–	–	–	–	**$2,225.44**
4	Mobilization Costs	1.00	LS	0%	1.00	69.99	$87.91	69.99	$6,152.70	–	–	–	–	**$6,152.70**
5	Bond @ 2%	1.00	LS	0%	1.00	59.56	$87.91	59.56	$5,236.34	–	–	–	–	**$5,236.34**
6	Temporary Control & Facilities	1.00	LS	0%	1.00	29.19	$87.91	29.19	$2,565.81	–	–	–	–	**$2,565.81**
7	Scaffolding	1.00	LS	0%	1.00	104.24	$87.91	104.24	$9,163.60	–	–	–	–	**$9,163.60**
													SUBTOTAL	**$36,209.29**
23. HVAC / MECHANICAL														
Mechanical Ducts														
8	22" Dia Duct	2.49	LF	10%	2.74	1.382	$61.20	3.78	$231.59	$56.20	$153.93	–	–	**$385.52**
9	28" Dia Duct	4.66	LF	10%	5.13	1.758	$61.20	9.01	$551.63	$75.39	$386.45	–	–	**$938.08**
10	36x20 Duct	14.97	LF	10%	16.47	2.24	$61.20	36.89	$2,257.43	$133.92	$2,205.26	–	–	**$4,462.69**
11	26x24 Duct	30.38	LF	10%	33.42	2.00	$61.20	66.84	$4,090.36	$116.06	$3,878.63	–	–	**$7,968.99**
12	10x10 Duct	0.95	LF	10%	1.04	0.80	$61.20	0.84	$51.16	$18.60	$19.44	–	–	**$70.60**
13	14x14 Duct	4.27	LF	10%	4.70	1.12	$61.20	5.26	$321.95	$36.46	$171.23	–	–	**$493.18**
14	12x6 Duct	9.21	LF	10%	10.13	0.72	$61.20	7.29	$446.41	$13.39	$135.67	–	–	**$582.09**
15	26x12 Duct	31.96	LF	10%	35.16	1.52	$61.20	53.44	$3,270.35	$58.03	$2,040.17	–	–	**$5,310.52**
16	14x12 Duct	5.68	LF	10%	6.25	1.04	$61.20	6.50	$397.67	$31.25	$195.24	–	–	**$592.91**
17	34x24 Duct	16.83	LF	10%	18.51	2.32	$61.20	42.95	$2,628.55	$151.78	$2,809.83	–	–	**$5,438.38**
18	24x14 Duct	69.24	LF	10%	76.16	1.52	$61.20	115.77	$7,085.08	$62.50	$4,759.95	–	–	**$11,845.03**
19	24x20 Duct	86.17	LF	10%	94.79	1.76	$61.20	166.83	$10,209.70	$89.28	$8,462.58	–	–	**$18,672.28**

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SR #	DESCRIPTION	QUANTITY				LABOR				MATERIAL		EQUIPMENT		TOTAL
		QTY	UNIT	WASTE	QTY W/ WASTE	LABOR HRS / UNIT	WAGE / HR	TOTAL LABOR HRS	TOTAL LABOR COST	MATL. RATE	TOTAL MATL. COST	EQUIP. RATE	TOTAL EQUIP. COST	SUB COST
Ducts Insulation														
20	Insulation For Mechanical Ducts	1,967.00	SF	10%	2,163.70	0.058	$61.20	125.49	$7,680.27	$1.14	$2,466.62	–	–	**$10,146.89**
Mechanical Pipes														
21	8" Dia Refrigerant Piping	294.94	LF	10%	324.43	0.70	$61.20	227.10	$13,898.75	$120.19	$38,992.64	–	–	**$52,891.39**
22	6" Dia Refrigerant Piping	103.58	LF	10%	113.94	0.63	$61.20	71.78	$4,392.99	$90.14	$10,270.37	–	–	**$14,663.36**
23	1-1/4" Condensate Drain Pipe	6.67	LF	10%	7.34	0.145	$61.20	1.06	$65.11	$12.69	$93.11	–	–	**$158.22**
24	1" Condensate Drain	186.94	LF	10%	205.63	0.124	$61.20	25.50	$1,560.52	$9.10	$1,871.27	–	–	**$3,431.78**
25	3" Dia Flue & Combustion Intake Pipe	180.47	LF	10%	198.52	0.30	$61.20	59.56	$3,644.77	$45.07	$8,947.16	–	–	**$12,591.93**
26	Refrigerant Piping	2.23	LF	10%	2.45	0.124	$61.20	0.30	$18.62	$93.10	$228.37	–	–	**$246.99**
Fittings & Transitions														
27	45 Degree Elbow	30.00	EA	0%	30.00	0.786	$61.20	23.58	$1,443.10	$32.74	$982.20	–	–	**$2,425.30**
28	90 Degree Elbow	27.00	EA	0%	27.00	0.982	$61.20	26.51	$1,622.66	$36.98	$998.46	–	–	**$2,621.12**
29	90 Degree Bend	9.00	EA	0%	9.00	0.982	$61.20	8.84	$540.89	$36.98	$332.82	–	–	**$873.71**
30	45 Degree Bend	7.00	EA	0%	7.00	0.786	$61.20	5.50	$336.72	$32.74	$229.18	–	–	**$565.90**
31	Duct Transition	17.00	EA	0%	17.00	1.572	$61.20	26.72	$1,635.51	$74.86	$1,272.62	–	–	**$2,908.13**
Mechanical Equipments														
32	GUH: Infra-Red Gas Heater (120V, 1P) Basis Of Design: Tungsten 500NG	3.00	EA	0%	3.00	7.418	$61.20	22.25	$1,361.94	$2,026.00	$6,078.00	–	–	**$7,439.94**
33	MAU-1: RTU Fan (1790 CFM) Manuf & Model#: CaptiveAire, CAS-HVAC2-18-8T-MPU Weight: 1920 LBS	1.00	EA	0%	1.00	86.97	$61.20	86.97	$5,322.69	$30,972.00	$30,972.00	–	–	**$36,294.69**
Exhaust Fans														
34	FF-1: Flying Fan (1800 CFM) Basis Of Design: LPV2	6.00	EA	0%	6.00	4.986	$61.20	29.92	$1,830.86	$418.17	$2,509.02	–	–	**$4,339.88**
35	FF-2: Flying Fan (900 CFM) Basis Of Design: LPV2	3.00	EA	0%	3.00	4.986	$61.20	14.96	$915.43	$418.17	$1,254.51	–	–	**$2,169.94**
36	CL TLT: Fan (700 CFM) Basis Of Design: G 100 VG Weight: 70 LBS	1.00	EA	0%	1.00	9.112	$61.20	9.11	$557.65	$1,482.00	$1,482.00	–	–	**$2,039.65**
37	KEF-1: Kitchen Exhaust Fan (2138 CFM) Manuf & Model#: CaptiveAire, DU180HFA Weight: 190 LBS	1.00	EA	0%	1.00	8.472	$61.20	8.47	$518.49	$1,457.00	$1,457.00	–	–	**$1,975.49**

SR #	DESCRIPTION	QUANTITY				LABOR				MATERIAL		EQUIPMENT		TOTAL
		QTY	UNIT	WASTE	QTY W/ WASTE	LABOR HRS / UNIT	WAGE / HR	TOTAL LABOR HRS	TOTAL LABOR COST	MATL. RATE	TOTAL MATL. COST	EQUIP. RATE	TOTAL EQUIP. COST	SUB COST
38	KEF-2: Kitchen Exhaust Fan (2138 CFM) Manuf & Model#: CaptiveAire, DU180HFA Weight: 190 LBS	1.00	EA	0%	1.00	8.472	$61.20	8.47	$518.49	$1,457.00	$1,457.00	–	–	**$1,975.49**
39	KEF-3: Kitchen Exhaust Fan (685 CFM) Manuf & Model#: CaptiveAire, CASRE15DD Weight: 270 LBS	1.00	EA	0%	1.00	15.75	$61.20	15.75	$963.84	$2,714.38	$2,714.38	–	–	**$3,678.22**
Condensing Units														
40	Hurricane Rated Condensing Unit Weight: 209 LBS	2.00	EA	0%	2.00	17.86	$61.20	35.72	$2,185.94	$4,986.72	$9,973.44	–	–	**$12,159.38**
41	Hurricane Rated Condensing Unit Weight: 138 LBS	1.00	EA	0%	1.00	13.47	$61.20	13.47	$824.49	$3,462.75	$3,462.75	–	–	**$4,287.24**
Diffuser/ Register/ Grilles														
42	E1: Exhaust Grill (100 CFM) Neck Size: 8x8	7.00	EA	0%	7.00	1.294	$61.20	9.06	$554.35	$55.98	$391.86	–	–	**$946.21**
43	S2: Supply Diffuser (230 CFM) Neck Size: 10" Dia	2.00	EA	0%	2.00	1.598	$61.20	3.20	$195.60	$62.27	$124.54	–	–	**$320.14**
44	S1: Supply Register (450 CFM) Neck Size: 18x12	7.00	EA	0%	7.00	1.847	$61.20	12.93	$791.25	$79.90	$559.30	–	–	**$1,350.55**
45	S1: Supply Register (750 CFM) Neck Size: 18x12	6.00	EA	0%	6.00	1.847	$61.20	11.08	$678.22	$79.90	$479.40	–	–	**$1,157.62**
46	S1: Supply Register (550 CFM) Neck Size: 18x12	2.00	EA	0%	2.00	1.847	$61.20	3.69	$226.07	$79.90	$159.80	–	–	**$385.87**
47	S1: Supply Register (460 CFM) Neck Size: 18x12	1.00	EA	0%	1.00	1.847	$61.20	1.85	$113.04	$79.90	$79.90	–	–	**$192.94**
48	S2: Perforated Face Supply Diffuser (470 CFM) Neck Size: 12" Dia	15.00	EA	0%	15.00	2.126	$61.20	31.89	$1,951.67	$96.36	$1,445.40	–	–	**$3,397.07**
49	S3: Supply Diffuser (210 CFM) Neck Size: 8" Dia	1.00	EA	0%	1.00	1.376	$61.20	1.38	$84.21	$57.25	$57.25	–	–	**$141.46**
50	S3: Supply Diffuser (130 CFM) Neck Size: 8" Dia	1.00	EA	0%	1.00	1.376	$61.20	1.38	$84.21	$57.25	$57.25	–	–	**$141.46**
51	S3: Supply Diffuser (150 CFM) Neck Size: 8" Dia	3.00	EA	0%	3.00	1.376	$61.20	4.13	$252.63	$57.25	$171.75	–	–	**$424.38**
52	S3: Supply Diffuser (50 CFM) Neck Size: 6" Dia	1.00	EA	0%	1.00	1.154	$61.20	1.15	$70.62	$46.15	$46.15	–	–	**$116.77**
53	S3: Supply Diffuser (40 CFM) Neck Size: 6" Dia	1.00	EA	0%	1.00	1.154	$61.20	1.15	$70.62	$46.15	$46.15	–	–	**$116.77**
54	S4: Supply register (450 CFM) Neck Size: 18x6	1.00	EA	0%	1.00	1.614	$61.20	1.61	$98.78	$64.67	$64.67	–	–	**$163.45**
55	S4: Supply register (210 CFM) Neck Size: 14x6	2.00	EA	0%	2.00	1.298	$61.20	2.60	$158.88	$52.98	$105.96	–	–	**$264.84**
56	R1: Return Exhaust Grill (300 CFM) Neck Size: 10x10	1.00	EA	0%	1.00	0.998	$61.20	1.00	$61.08	$43.49	$43.49	–	–	**$104.57**

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57	R1: Return Exhaust Grill (1960 CFM) Neck Size: 22x22	3.00	EA	0%	3.00	2.214	$61.20	6.64	$406.49	$96.74	$290.22	–	–	**$696.71**
58	R2: Return Exhaust Grill (4550 CFM) Neck Size: 48x24	1.00	EA	0%	1.00	3.596	$61.20	3.60	$220.08	$388.77	$388.77	–	–	**$608.85**
59	R2: Return Exhaust Grill (4450 CFM) Neck Size: 48x24	1.00	EA	0%	1.00	3.596	$61.20	3.60	$220.08	$388.77	$388.77	–	–	**$608.85**
Dampers														
60	CMD: Concealed Manual Volume Damper	38.00	EA	0%	38.00	1.472	$61.20	55.94	$3,423.28	$121.00	$4,598.00	–	–	**$8,021.28**
61	Control Balance Damper	1.00	EA	0%	1.00	1.893	$61.20	1.89	$115.85	$161.00	$161.00	–	–	**$276.85**
62	Remote Balance Damper	1.00	EA	0%	1.00	2.241	$61.20	2.24	$137.15	$211.62	$211.62	–	–	**$348.77**
63	Manual Volume Damper	10.00	EA	0%	10.00	0.896	$61.20	8.96	$548.35	$65.98	$659.80	–	–	**$1,208.15**
Misc.														
64	HS: Humidity Sensor	3.00	EA	0%	3.00	1.512	$61.20	4.54	$277.60	$103.53	$310.59	–	–	**$588.19**
65	TS: Thermostat W/ Remote Temperature	3.00	EA	0%	3.00	1.994	$61.20	5.98	$366.10	$152.61	$457.83	–	–	**$823.93**
66	T: Thermostat	1.00	EA	0%	1.00	1.705	$61.20	1.71	$104.35	$112.18	$112.18	–	–	**$216.53**
67	Duct Cap	2.00	EA	0%	2.00	0.739	$61.20	1.48	$90.45	$36.98	$73.96	–	–	**$164.41**
68	PS: Remote Pull Station	2.00	EA	0%	2.00	1.693	$61.20	3.39	$207.22	$110.24	$220.48	–	–	**$427.70**
69	Grease Duct Clean out	5.00	EA	0%	5.00	1.998	$61.20	9.99	$611.39	$164.95	$824.75	–	–	**$1,436.14**
70	Ansul System Equipment Cabinet	1.00	EA	0%	1.00	2.516	$61.20	2.52	$153.98	$367.68	$367.68	–	–	**$521.66**
													SUBTOTAL	**$261,817.03**

NOTES

General Notes: The prices used while preparing the estimate were taken from RSMeans online, i.e. the standard pricing. It is therefore preferred to review the prices.

1. The drawings are scaled as per the mentioned scales on the plans.

LEGEND

LBS = Pound
SF = Square Feet
LF = Linear Feet
EA = Each
CY = Cubic Yard
SY = Square Yard
LOC = Location
LS = Lump Sum

PROJECTED COST		**$298,026.32**
OVERHEAD AND PROFIT	20%	$59,605.26
INSURANCE	3%	$8,940.79
CONTINGENCY	5%	$14,901.32
SUGGESTED BID		**$381,473.69**