RBC ESTIMATION
DESIGN | ESTIMATION | MANAGEMENT

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HVAC ESTIMATE - SAMPLE 02

Project Name:	Location:	Scope of Work:	Building Type:
Sample HVAC 02	Florida	HVAC	COMMERCIAL

#	REF.	DESCRIPTION	QTY.	UNIT	WASTAGE	TOTAL QTY.	UNIT COST	TOTAL COST
01. GENERAL CONDITIONS								
INDIRECT PROJECT COSTS								
1		General Liability Insurance	0	Mo	0	0	-	-
2		General Conditions (Backoffice Overhead)	0	Mo	0	0	-	-
DIRECT PROJECT COSTS								
3		Bonding Fee (If required)	1.15	Mo	0	1.15	-	-
4		Access Control (Pipe Scaffolding or Boom/Scissor Lifts)	1	Mo	0	1	-	-
5		Equipment Rental	1	Mo	0	1	-	-
6		Travel, Tools, Gas	1	Mo	0	1	-	-
7		Field Office	1	Mo	0	1	-	-
8		Temp. Facilities	1	Mo	0	1	-	-
9		Temp. Signage and Protection	1	Mo	0	1	-	-
10		Temp. Fencing	1	Mo	0	1	-	-
11		Field Superintendent/Foreman (Full Time)	1	Mo	0	1	-	-
12		Project Manager (Part Time)	1	Mo	0	1	-	-
02. DEMOLITION OF EXISTING ITEMS								
REMOVAL, DEMOLITION								
13		Existing Ductwork & All Accessories To Be Removed	65	LF	0.1	72	-	-
14		Existing Air Distribution Devices & Equipment To Be Removed	12	EA	0	12	-	-
15		Existing Air Handler Unit & All Associated Piping To Be Removed	3	EA	0	3	-	-
16		Existing Gooseneck To Be Removed. Patch Roof	2	EA	0	2	-	-
17		Existing Equipment & All Associated Accessories To Be Removed. Patch Roof	3	EA	0	3	-	-
18		Existing Equipment & Curb Adaptor To Be Removed.	1	EA	0	1	-	-
23. HEATING VENTILATING & AIR CONDITIONING (HVAC)								
DUCTWORK (AIR DISTRIBUTION)								
19		(6" Dia) Supply Duct	25.65	LF	0.1	29	-	-
20		(8" Dia) Supply Duct	44.53	LF	0.1	49	-	-
21		(10" Dia) Supply Duct	40.72	LF	0.1	45	-	-
22		(8x8) Supply Duct	4.39	LF	0.1	5	-	-
23		(8x10) Supply Duct	48.68	LF	0.1	54	-	-
24		(12x12) Supply Duct	42.69	LF	0.1	47	-	-
25		(14x10) Supply Duct	19.45	LF	0.1	22	-	-

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26		(14x14) Supply Duct	7.98	LF	0.1	9	-	-
27		(18x16) Supply Duct	8.72	LF	0.1	10	-	-
28		(24x16) Supply Duct W/ Acoustical Lining	6	LF	0.1	7	-	-
29		(6" Dia) Return Duct	22.87	LF	0.1	26	-	-
30		(8" Dia) Return Duct	23.31	LF	0.1	26	-	-
31		(10" Dia) Return Duct	21.76	LF	0.1	24	-	-
32		(12" Dia) Return Duct	12.18	LF	0.1	14	-	-
33		(8x8) Return Duct	15.51	LF	0.1	18	-	-
34		(8x10) Return Duct	16.67	LF	0.1	19	-	-
35		(12x10) Return Duct	7.37	LF	0.1	9	-	-
36		(12x12) Return Duct	23.54	LF	0.1	26	-	-
37		(14x14) Return Duct	5.95	LF	0.1	7	-	-
38		(18x12) Return Duct	7.84	LF	0.1	9	-	-
39		(36x14) Return Duct W/ Acoustical Lining	6	LF	0.1	7	-	-
40		(6" Dia) Flexible Supply Duct	9.37	LF	0.1	11	-	-
41		(8" Dia) Flexible Supply Duct	18.84	LF	0.1	21	-	-
42		(10" Dia) Flexible Supply Duct	9.59	LF	0.1	11	-	-
43		(8x8) Exhaust Duct	22	LF	0.1	25	-	-
44		(6x6) Exhaust Duct	12.76	LF	0.1	15	-	-
45		(6x6) Outside Air Duct	18	LF	0.1	20	-	-
FITTINGS								
46		(8x8)x(6x6) Takeoff	2	EA	0	2	-	-
47		(24X16)X(18X16) Takeoff	1	EA	0	1	-	-
48		(36X14)X(18X12) Takeoff	1	EA	0	1	-	-
49		(18x16)x(12x12) Takeoff	1	EA	0	1	-	-
50		(14x14)x(8x10) Takeoff	1	EA	0	1	-	-
51		(14x14)x(12x10) Takeoff	1	EA	0	1	-	-
52		(14x10)x(8x10) Takeoff	1	EA	0	1	-	-
53		(14x14)x(6x6) Takeoff	1	EA	0	1	-	-
54		(12x10)x(8x8) Takeoff	1	EA	0	1	-	-
55		(12x10)x(6x6) Takeoff	1	EA	0	1	-	-
56		(18x12)x(12x12) Reducer	1	EA	0	1	-	-
57		(18x16)x(14x14) Reducer	1	EA	0	1	-	-
58		(8x8)x(6x6) Reducer	1	EA	0	1	-	-
59		(14x10)x(8x10) Reducer	2	EA	0	2	-	-
60		(14x14)x(12x12) Reducer	1	EA	0	1	-	-
61		(12x12)x(8x10) Reducer	1	EA	0	1	-	-
62		(12x10)x(10x8) Reducer	1	EA	0	1	-	-
63		(14x14)x(10" Dia) Spin-In Fitting	1	EA	0	1	-	-
64		(12x12)x(10" Dia) Spin-In Fitting	3	EA	0	3	-	-

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65		(12x12)x(8" Dia) Spin-In Fitting	2	EA	0	2	-	-
66		(8x10)x(8" Dia) Spin-In Fitting	4	EA	0	4	-	-
67		(8x10)x(6" Dia) Spin-In Fitting	4	EA	0	4	-	-
68		(8x8)x(6" Dia) Spin-In Fitting	1	EA	0	1	-	-
69		(8x8)x(8" Dia) Spin-In Fitting	1	EA	0	1	-	-
70		(14x10)x(8" Dia) Spin-In Fitting	2	EA	0	2	-	-
71		(18x12)x(10" Dia) Spin-In Fitting	2	EA	0	2	-	-
72		(12x12)x(10" Dia) Transition	1	EA	0	1	-	-
73		(8x10)x(6" Dia) Transition	3	EA	0	3	-	-
74		(8x10)x(8" Dia) Transition	2	EA	0	2	-	-
75		(8x8)x(6" Dia) Transition	1	EA	0	1	-	-
76		(8x8)x(8" Dia) Transition	1	EA	0	1	-	-
77		(10" Dia) Elbow 45	2	EA	0	2	-	-
78		(12x12) Elbow 90	2	EA	0	2	-	-
79		(8x10) Elbow 90	2	EA	0	2	-	-
80		(10" Dia) Elbow 90	5	EA	0	5	-	-
81		(12" Dia) Elbow 90	2	EA	0	2	-	-
82		(8" Dia) Elbow 90	11	EA	0	11	-	-
83		(8" Dia) Elbow 45	1	EA	0	1	-	-
84		(6" Dia) Elbow 90	8	EA	0	8	-	-
85		(6x6) Elbow 90	5	EA	0	5	-	-
86		(8x8) Elbow 90	2	EA	0	2	-	-
87		(14x14)x(24x14) Adaptor	1	EA	0	1	-	-
88		(8x10)x(20x10) Adaptor	1	EA	0	1	-	-
EQUIPMENT & AIR DEVICES **NOTE: Provided By Owner (Installation Only)**								
89		S1 | Supply Diffuser_x000D_ MNF: Titus_x000D_ MDL: Omni_x000D_ Size: 24"x24"	19	EA	0	19	-	-
90		E1 | Exhaust Diffuser_x000D_ MNF: Titus_x000D_ MDL: Omni_x000D_ Size: 12"x12"	2	EA	0	2	-	-
91		E2 | Exhaust Diffuser_x000D_ MNF: Titus_x000D_ MDL: 350ZRL_x000D_ Size: 8"x8"	1	EA	0	1	-	-
92		R1 | Return Register_x000D_ MNF: Titus_x000D_ MDL: Omni_x000D_ Size: 24"x24"	11	EA	0	11	-	-
93		Motorized Damper	2	EA	0	2	-	-
94		Backdraft Damper	5	EA	0	5	-	-
95		Balancing Damper	35	EA	0	35	-	-

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96		AHU-1 | Air Handling Unit_x000D_ MNF: Carrier_x000D_ MDL: FJ5ANXB24L05	1	EA	0	1	-	-
97		AHU-2 | Air Handling Unit_x000D_ MNF: Carrier_x000D_ MDL: 45MBDAQ06XA3	1	EA	0	1	-	-
98		DS-1 | Split System_x000D_ MNF: Carrier_x000D_ MDL: 45MHHAC12XC3	1	EA	0	1	-	-
99		GV-1 | Gravity Vent _x000D_ MNF: Loren Cook_x000D_ MDL: 8RR	1	EA	0	1	-	-
100		GV-2 | Gravity Vent _x000D_ MNF: Loren Cook_x000D_ MDL: 8RR	1	EA	0	1	-	-
101		CU-1 | Condensing Unit_x000D_ MNF: Carrier_x000D_ MDL: 26SPA624	1	EA	0	1	-	-
102		CU-2 | Condensing Unit _x000D_ MNF: Carrier_x000D_ MDL: 37MAHAQ09AA3	1	EA	0	1	-	-
103		RTU-1 | Roof Top Unit (3 Tons) _x000D_ MNF: Carrier_x000D_ MDL: 50GE-N04A2A5	1	EA	0	1	-	-
104		EF-1 | Exhaust Fan _x000D_ MNF: Cook_x000D_ MDL: 90C15DL	1	EA	0	1	-	-
105		CU-3 | Condensing Unit_x000D_ MNF: Carrier_x000D_ MDL: 37MHRAC12AA3	1	EA	0	1	-	-
106		Thermostat (7 Day Programmable)_x000D_ MDL: KSACN1401AAA	1	EA	0	1	-	-
107		Thermostat _x000D_ MDL: Honeywell (Vision Pro 8000)	4	EA	0	4	-	-
FIXTURES & ACCESSORIES								
108		(24x16) Duct End Cap	1	EA	0	1	-	-
109		(36x14) Duct End Cap	1	EA	0	1	-	-
110		(14x14) Duct End Cap	2	EA	0	2	-	-
111		Bird Screen	3	EA	0	3	-	-
112		22 Guage Clamp	19	EA	0	19	-	-
113		Sheet Metal Screws	76	EA	0	76	-	-
114		Filter Rack W/ 4" MERV 13 Filter	1	EA	0	1	-	-
115		Filter Rack W/ 2" MERV 13 Filter	2	EA	0	2	-	-
116		Drip Pan	1	EA	0	1	-	-
PIPE WORK								
117		3/4" Condensate Drain	95.8	LF	0.1	106	-	-
118		1" Condensate Drain	28.48	LF	0.1	32	-	-
119		1/4" Refrigerant Liquid Line	34.58	LF	0.1	39	-	-

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120		3/8" Refrigerant Liquid Line	21.1	LF	0.1	24	-	-
121		3/8" Refrigerant Suction Line	35.44	LF	0.1	39	-	-
122		5/8" Refrigerant Suction Line	23.21	LF	0.1	26	-	-
FITTINGS								
123		1/4" Elbow 90	5	EA	0	5	-	-
124		3/8" Elbow 90	8	EA	0	8	-	-
125		3/4" Elbow 90	1	EA	0	1	-	-
126		3/4" Elbow 45	10	EA	0	10	-	-
127		5/8" Elbow 90	3	EA	0	3	-	-
128		(1"x1"x3/4") Tee 45	3	EA	0	3	-	-
INSULATION								
129		1/2" Thick Class 1 Fiberglass Insulation @ Pipework W/ Vapour Barrier Jacket	240	LF	0.1	264	-	-
130		2" Thick Type-1, Class B-4, 1 -1/2 LB/CU FT Density Flexible Fiberglass Insulation @ Ductwork W/ FSK Jacket	1320	SF	0.1	1452	-	-
HVAC EQUIPMENT SHALL BE PURCHASED BY PNC BANK OR DESIGNATED PNC BANK								
REPRESENTATIVE AS DIRECTED. ALL EQUIPMENT SHALL BE PURCHASED DIRECTLY FROM AIR								
COMFORT.								

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