

Project ID: \*\*\*\*\*

Location: Hamilton Ave, Suite \*\*\*\* White Plains, NY 10601

Scope: HVAC

Date: 1/2/2024



UNIT LABOR COST	
Per Hour	\$150

SR #	REF. DWG.	CSI DIVISION	DESCRIPTION	UNIT	QUANTITY	WASTAGE	QUANTITY W/ WASTAGE	UNIT COST (Material)	LABOR HRS.	COST LABOR	COST MATERIAL	TOTAL COST (Material+Labor)
<b>1000 GENERAL REQUIREMENTS</b>												
1			Supervision and Coordination	LS	1	0%	1	\$0	0.00	\$0	\$0	\$0
2			Submittals and Shop Drawings	LS	1	0%	1	\$0	0.00	\$0	\$0	\$0
3			Final Cleaning	LS	1	0%	1	\$0	0.00	\$0	\$0	\$0
4			Mobilization Costs	LS	1	0%	1	\$0	0.00	\$0	\$0	\$0
5			Scaffolding - 20'H	SF	4260	10%	4686	\$0	0.00	\$0	\$0	\$0
<b>SUBTOTAL</b>											<b>\$0</b>	
<b>23000 HVAC/MECHANICAL</b>												
<b>Basement</b>												
<b>Ducts</b>												
6			(23"x10") Supply Air Oval Duct	LF	85	5%	89	\$20	3.12	\$469	\$1,767	\$2,236
7			(6"x6") Supply Air Rectangular Duct	LF	15	5%	16	\$9	0.47	\$71	\$139	\$209
<b>Pipes</b>												
8			Refrigerant Pipe	LF	30	5%	32	\$10	1.26	\$189	\$329	\$518
9			(3/4" Dia) Condensat Pipe	LF	22	5%	23	\$7	1.29	\$194	\$165	\$359
<b>HVAC Fixtures</b>												
10			Thermostat	EA	1	0%	1	\$121	0.62	\$93	\$121	\$214
11			Destratification Fan Controller	EA	1	0%	1	\$106	0.87	\$131	\$106	\$237
12			<b>Fan "OAF-1"</b> Model- SQ 60 VG Manuf.- GREENHECK	EA	1	0%	1	\$624	0.94	\$141	\$624	\$765
13			<b>Indoor Fan "FCU-1"</b> (60000 Heating BTUH) (54000 Cooling BTUH) Model- ARNU543NKA4 Manuf.- LG	EA	1	0%	1	\$5,138	2.74	\$411	\$5,138	\$5,549
14			<b>Cndensate Pump "CP-A"</b> Model- GIANT VCC 20 P Manuf.- LITTLE	EA	1	0%	1	\$381	1.28	\$192	\$381	\$573
15			<b>Electric Duct Heater "EDH-1"</b> Model- DF C100H Manuf.- NEPTRNIC	EA	1	0%	1	\$258	0.89	\$134	\$258	\$392
16			<b>(18"x4") Supply Diffuser "SG-A"</b> Model- S-DL Manuf.- TITUS	EA	7	0%	7	\$98	4.55	\$683	\$686	\$1,369
17			<b>(36"x18") Return Diffuser "RG-A"</b> Model- 350 FL Manuf.- TITUS	EA	1	0%	1	\$261	0.99	\$149	\$261	\$410
<b>Ground Floor</b>												
<b>Ducts</b>												
18			(8" Dia) Supply Air Round Duct	LF	55	5%	58	\$7	1.16	\$173	\$381	\$554
19			(10" Dia) Supply Air Round Duct	LF	32	5%	34	\$8	0.81	\$121	\$259	\$380
20			(6"x6") Supply Air Rectangular Duct	LF	40	5%	42	\$9	1.18	\$176	\$370	\$546
21			(6"x6") Exhaust Air Rectangular Duct	LF	15	5%	16	\$9	0.44	\$66	\$139	\$205
22			(10"x14") Supply Air Rectangular Duct	LF	52	5%	55	\$15	1.69	\$254	\$841	\$1,095
23			(14"x14") Return Air Rectangular Duct	LF	17	5%	18	\$18	0.62	\$94	\$314	\$408
<b>Pipes</b>												
24			Refrigerant Pipe	LF	150	5%	158	\$10	6.30	\$945	\$1,646	\$2,591
25			(3/4" Dia) Condensat Pipe	LF	20	5%	21	\$7	1.18	\$176	\$150	\$327
26			(1" Dia) Hot Water Supply	LF	25	5%	26	\$10	1.58	\$236	\$260	\$496
27			(1 1/4" Dia) Hot Water Supply	LF	15	5%	16	\$13	0.96	\$144	\$199	\$343
<b>Connections</b>												
28			(10" To 8" Dia) Duct Reducer	EA	2	0%	2	\$49	1.42	\$213	\$98	\$311
<b>HVAC Fixtures</b>												
29			Thermostat	EA	2	0%	2	\$122	1.36	\$204	\$243	\$447
30			Temperature Sensor	EA	1	0%	1	\$107	0.87	\$131	\$107	\$238
31			(6"x6") Gravity Damper	EA	1	0%	1	\$92	0.60	\$90	\$92	\$182
32			(10"x10") Rain Cap Intake	EA	1	0%	1	\$48	0.68	\$102	\$48	\$150
33			(8" Dia) Volume Damper	EA	7	0%	7	\$120	5.60	\$840	\$841	\$1,681
34			<b>Indoor Fan "FCU-2"</b> (31500 Heating BTUH) (28000 Cooling BTUH) Model- ARNU283MKA4 Manuf.- LG	EA	1	0%	1	\$3,495	3.12	\$468	\$3,495	\$3,963
35			<b>Outdoor Heat Pump "ACCU-1"</b> (189000 Heating BTUH) (168000 Cooling BTUH) Model- ARUM168BTE5 Manuf.- LG	EA	1	0%	1	\$12,079	5.24	\$786	\$12,079	\$12,865
36			<b>(12"x12") Supply Diffuser "CD-A"</b> Model- TDC Manuf.- TITUS	EA	7	0%	7	\$131	5.18	\$777	\$915	\$1,692
37			<b>(36"x18") Return Diffuser "RG-A"</b> Model- 350 FL Manuf.- TITUS	EA	1	0%	1	\$261	0.99	\$149	\$261	\$410
38			<b>(6"x6") Exhaust Diffuser "EG-A"</b> Model- 350 RL Manuf.- TITUS	EA	1	0%	1	\$78	0.60	\$90	\$78	\$168
39			<b>Electric Unit Heater "EUH-1" (6826 BTUH)</b> Model- MUH03-21 Manuf.- QMARK	EA	1	0%	1	\$543	1.50	\$225	\$543	\$768
40			<b>Outdoor Heat Pump "ACCU-2" (64000 BTUH)</b> Model- ARUN060GSS4 Manuf.- LG	EA	1	0%	1	\$4,288	3.87	\$581	\$4,288	\$4,868
<b>First Floor</b>												
<b>Ducts</b>												
41			(6" Dia) Supply Air Round Duct	LF	210	5%	221	\$6	4.63	\$695	\$1,213	\$1,907
42			(6" Dia) Exhaust Air Round Duct	LF	65	5%	68	\$6	1.43	\$215	\$375	\$590
43			(8" Dia) Supply Air Round Duct	LF	45	5%	47	\$7	1.09	\$163	\$312	\$475
44			(10" Dia) Supply Air Round Duct	LF	38	5%	40	\$8	1.00	\$150	\$307	\$457
45			(14" Dia) Supply Air Round Duct	LF	10	5%	11	\$10	0.28	\$43	\$104	\$146
46			(12" Dia) Supply Air Round Duct	LF	35	5%	37	\$9	1.07	\$160	\$323	\$483
47			(4" Dia) Supply Air Round Duct	LF	12	5%	13	\$4	0.28	\$42	\$55	\$97

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48			(10"x14") Supply Air Rectangular Duct	LF	28	5%	29	\$15	0.94	\$141	\$453	\$594
49			(22"x12") Supply Air Rectangular Duct	LF	10	5%	11	\$21	0.37	\$55	\$219	\$275
			<b>Pipes</b>									
50			Refrigerant Pipe	LF	470	5%	494	\$10	19.74	\$2,961	\$5,157	\$8,118
51			(1" Dia) Condensat Pipe	LF	80	5%	84	\$10	5.04	\$756	\$832	\$1,588
52			(3/4" Dia) Condensat Pipe	LF	32	5%	34	\$7	1.88	\$282	\$240	\$522
			<b>Connections</b>									
53			(8" To 6" Dia) Duct Reducer	EA	2	0%	2	\$28	1.36	\$204	\$56	\$260
54			(6" To 4" Dia) Duct Reducer	EA	1	0%	1	\$32	0.70	\$105	\$32	\$137
55			(14" To 10" Dia) Duct Reducer	EA	1	0%	1	\$36	0.72	\$108	\$36	\$144
56			(14" To 12" Dia) Duct Reducer	EA	1	0%	1	\$38	0.76	\$114	\$38	\$152
			<b>HVAC Fixtures</b>									
57			Thermostat	EA	1	0%	1	\$121	0.68	\$102	\$121	\$223
58			(0.75 SQ.) Wall Louver	EA	2	0%	2	\$144	2.40	\$360	\$288	\$648
59			(6" Dia) Volume Damper	EA	7	0%	7	\$102	3.78	\$567	\$714	\$1,281
60			(10" Dia) Volume Damper	EA	2	0%	2	\$92	1.68	\$252	\$185	\$437
61			(12" Dia) Volume Damper	EA	2	0%	2	\$135	1.68	\$252	\$271	\$523
62			(6" Dia) Motorized Damper	EA	1	0%	1	\$113	0.58	\$87	\$113	\$200
63			(6" Dia) Opposed Blade Damper	EA	1	0%	1	\$128	0.65	\$98	\$128	\$225
64			(8" Dia) Supply Air Round Duct Cap	EA	1	0%	1	\$45	0.70	\$105	\$45	\$150
65			<b>Condensate Pump "CP-A"</b> Model- GIANT VCC 20 P Manuf.- LITTLE	EA	2	0%	2	\$381	2.56	\$384	\$762	\$1,146
66			<b>Indoor Fan "FCU-3"</b> (27300 Heating BTUH) (24200 Cooling BTUH) Model- ARNU243M2A4 Manuf.- LG	EA	1	0%	1	\$2,345	2.24	\$336	\$2,345	\$2,681
67			<b>Indoor Fan "FCU-4"</b> (61400 Heating BTUH) (54000 Cooling BTUH) Model- ARNU543M3A4 Manuf.- LG	EA	1	0%	1	\$5,094	2.74	\$411	\$5,094	\$5,505
68			<b>(6"x6") Exhaust Diffuser "EG-A"</b> Model- 350 RL Manuf.- TITUS	EA	1	0%	1	\$78	0.60	\$90	\$78	\$168
69			<b>(36"x18") Return Diffuser "RG-A"</b> Model- 350 FL Manuf.- TITUS	EA	2	0%	2	\$149	1.88	\$282	\$298	\$580
70			<b>(12"x12") Supply Diffuser "CD-A"</b> Model- TDC Manuf.- TITUS	EA	7	0%	7	\$166	6.86	\$1,029	\$1,162	\$2,191
71			<b>(12"x12") Supply Diffuser "CD-B"</b> Model- 300 RL Manuf.- TITUS	EA	4	0%	4	\$166	3.92	\$588	\$664	\$1,252
72			<b>(26.25x24.25x14.25) Energy Recovery Ventilator "ERV-1"</b> Model- VAM300GVJU Manuf.- DAIKIN	EA	1	0%	1	\$3,066	1.30	\$195	\$3,066	\$3,261
			<b>Radiant Floor System Details</b>									
73			P&T Gauge	EA	4	0%	4	\$48	2.56	\$384	\$193	\$577
74			Temperature Sensor	EA	2	0%	2	\$92	1.74	\$261	\$183	\$444
75			(1 1/4" Dia) Union	EA	4	0%	4	\$57	2.76	\$414	\$227	\$641
76			(1 1/4" Dia) Check Valve	EA	1	0%	1	\$230	0.84	\$126	\$230	\$356
77			(1 1/4" Dia) Shut-Off Valve	EA	8	0%	8	\$115	5.60	\$840	\$918	\$1,758
78			(1 1/4" Dia) Safety Relief Valve	EA	1	0%	1	\$132	0.75	\$113	\$132	\$245
79			(1 1/4" Dia) Air Separator	EA	1	0%	1	\$123	0.73	\$110	\$123	\$232
80			(1 1/4" Dia) Strainer	EA	1	0%	1	\$105	0.65	\$98	\$105	\$203
81			(1 1/4" Dia) Drain Valve W/ Cap	EA	1	0%	1	\$102	0.63	\$95	\$102	\$196
82			(3/4" Dia) Union	EA	2	0%	2	\$49	1.18	\$177	\$98	\$275
83			(3/4" Dia) Check Valve	EA	1	0%	1	\$189	0.74	\$111	\$189	\$300
84			(3/4" Dia) Shut-Off Valve	EA	5	0%	5	\$101	3.00	\$450	\$504	\$954
85			(3/4" Dia) Needle Valve	EA	2	0%	2	\$95	1.04	\$156	\$189	\$345
86			(3/4" Dia) Drain Valve W/ Cap	EA	1	0%	1	\$104	0.57	\$86	\$104	\$189
87			(3/4" Dia) Air Separator	EA	1	0%	1	\$112	0.70	\$105	\$112	\$217
88			(3/4" Dia) P&T Relief Valve	EA	1	0%	1	\$91	0.54	\$81	\$91	\$172
89			<b>Pump</b> Model- 15 55F Manuf.- Grundfos	EA	2	0%	2	\$718	1.96	\$294	\$1,435	\$1,729
90			<b>Expansion Tank (2 GAL)</b> Model- HFT 15 Manuf.- Bell	EA	1	0%	1	\$760	1.10	\$165	\$760	\$925
91			<b>Buffer Tank "BFT-1" (25 GAL)</b> Model- NAS20025 Manuf.- CALEFF	EA	1	0%	1	\$2,059	1.40	\$210	\$2,059	\$2,269
92			<b>Hydrokit "HYD-1" (47200 BTUH)</b> Model- ARNH423K2A4 Manuf.- LG	EA	1	0%	1	\$2,950	1.60	\$240	\$2,950	\$3,190

**SUBTOTAL \$99,151**

**PROJECTED COST \$99,151**

**OVERHEAD AND PROFIT 20% \$19,830**

**INSURANCE 3% \$2,975**

**CONTINGENCY 7% \$6,941**

**SUGGESTED BID \$128,896**

- Note:**
- Please verify the equipment's and their prices with owner.
  - For tree plantation average prices are use. Please verify according to tree type.
  - Online sources are used for pricing.
  - Prices can vary depending upon field conditions.