

**BREAKDOWN OF ITEMS**

Prepared for:

Project ID:

Scope: HVAC



Date:

SR #	DESCRIPTION	UNIT	QUANTITY	WASTAGE	QUANTITY W/ WASTAGE	LABOR COST	MAT. COST	UNIT COST	SUB COST
<b>GENERAL REQUIREMENTS</b>									
1	Permits	LS	1	0%	1	\$ -	\$ -	\$ -	\$ -
2	Supervision and Coordination	LS	1	0%	1	\$ -	\$ -	\$ -	\$ -
3	Submittals and Shop drawings	LS	1	0%	1	\$ -	\$ -	\$ -	\$ -
4	Final Cleaning	LS	1	0%	1	\$ -	\$ -	\$ -	\$ -
5	Mobilization Costs	LS	1	0%	1	\$ -	\$ -	\$ -	\$ -
6	Temporary Control & Facilities	LS	1	0%	1	\$ -	\$ -	\$ -	\$ -
7	Scaffolding	SF	0	0%	0	\$ -	\$ -	\$ -	\$ -
<b>SUBTOTAL \$</b>									-
<b>DEMOLITION</b>									
8	Remove Existing Tank	EA	2	0%	2	\$ -	\$ -	\$ -	\$ -
9	Remove Existing Piping	LFT	510	0%	510	\$ -	\$ -	\$ -	\$ -
10	Remove Existing Roof Top Units	EA	4	0%	4	\$ -	\$ -	\$ -	\$ -
<b>SUBTOTAL \$</b>									-
<b>HVAC</b>									
<b>Chilled Water Supply Pipe</b>									
<b>Type "L" Copper Pipe, Fittings Shall Be Welded</b>									
11	1-1/2" Dia Chilled Water Supply Pipe	LFT	523	10%	575	\$ -	\$ -	\$ -	\$ -
12	2" Dia Chilled Water Supply Pipe	LFT	233	10%	256	\$ -	\$ -	\$ -	\$ -
13	3" Dia Chilled Water Supply Pipe	LFT	53	10%	58	\$ -	\$ -	\$ -	\$ -
14	4" Dia Chilled Water Supply Pipe	LFT	124	10%	137	\$ -	\$ -	\$ -	\$ -
<b>Chilled Water Supply Pipe Fittings</b>									
<b>Elbow</b>									
15	1-1/2" Dia Chilled Water Supply Pipe 90 Deg Elbow	EA	23	0%	23	\$ -	\$ -	\$ -	\$ -
16	2" Dia Chilled Water Supply Pipe 90 Deg Elbow	EA	2	0%	2	\$ -	\$ -	\$ -	\$ -
17	3" Dia Chilled Water Supply Pipe 90 Deg Elbow	EA	1	0%	1	\$ -	\$ -	\$ -	\$ -
<b>Tee</b>									
18	1-1/2" Dia Chilled Water Supply Pipe Tee	EA	2	0%	2	\$ -	\$ -	\$ -	\$ -
19	2" / 1-1/2" Dia Chilled Water Supply Pipe Tee	EA	8	0%	8	\$ -	\$ -	\$ -	\$ -
20	3" / 1-1/2" Dia Chilled Water Supply Pipe Tee	EA	3	0%	3	\$ -	\$ -	\$ -	\$ -
21	4" / 1-1/2" Dia Chilled Water Supply Pipe Tee	EA	4	0%	4	\$ -	\$ -	\$ -	\$ -
22	4" / 3" Dia Chilled Water Supply Pipe Tee	EA	1	0%	1	\$ -	\$ -	\$ -	\$ -
<b>Reducer</b>									
23	2" / 1-1/2" Dia Chilled Water Supply Pipe Reducer	EA	2	0%	2	\$ -	\$ -	\$ -	\$ -
24	3" / 2" Dia Chilled Water Supply Pipe Reducer	EA	2	0%	2	\$ -	\$ -	\$ -	\$ -
25	4" / 3" Dia Chilled Water Supply Pipe Reducer	EA	1	0%	1	\$ -	\$ -	\$ -	\$ -
<b>Chilled Water Return Pipe</b>									
<b>Type "L" Copper Pipe, Fittings Shall Be Welded</b>									
26	1-1/2" Dia Chilled Water Return Pipe	LFT	525	10%	578	\$ -	\$ -	\$ -	\$ -
27	2" Dia Chilled Water Return Pipe	LFT	228	10%	251	\$ -	\$ -	\$ -	\$ -
28	3" Dia Chilled Water Return Pipe	LFT	54	10%	59	\$ -	\$ -	\$ -	\$ -
29	4" Dia Chilled Water Return Pipe	LFT	125	10%	137	\$ -	\$ -	\$ -	\$ -
<b>Chilled Water Return Pipe Fittings</b>									
<b>Elbow</b>									
30	1-1/2" Dia Chilled Water Return Pipe 90 Deg Elbow	EA	24	0%	24	\$ -	\$ -	\$ -	\$ -
31	2" Dia Chilled Water Return Pipe 90 Deg Elbow	EA	2	0%	2	\$ -	\$ -	\$ -	\$ -
32	3" Dia Chilled Water Return Pipe 90 Deg Elbow	EA	1	0%	1	\$ -	\$ -	\$ -	\$ -
<b>Tee</b>									
33	1-1/2" Dia Chilled Water Return Pipe Tee	EA	2	0%	2	\$ -	\$ -	\$ -	\$ -
34	2" / 1-1/2" Dia Chilled Water Return Pipe Tee	EA	8	0%	8	\$ -	\$ -	\$ -	\$ -
35	3" / 1-1/2" Dia Chilled Water Return Pipe Tee	EA	3	0%	3	\$ -	\$ -	\$ -	\$ -
36	4" / 1-1/2" Dia Chilled Water Return Pipe Tee	EA	4	0%	4	\$ -	\$ -	\$ -	\$ -
37	4" / 3" Dia Chilled Water Return Pipe Tee	EA	1	0%	1	\$ -	\$ -	\$ -	\$ -
<b>Reducer</b>									
38	2" / 1-1/2" Dia Chilled Water Return Pipe Reducer	EA	2	0%	2	\$ -	\$ -	\$ -	\$ -
39	3" / 2" Dia Chilled Water Return Pipe Reducer	EA	2	0%	2	\$ -	\$ -	\$ -	\$ -
40	4" / 3" Dia Chilled Water Return Pipe Reducer	EA	1	0%	1	\$ -	\$ -	\$ -	\$ -
<b>Hot Water Supply Pipe</b>									
<b>Type "L" Copper Pipe, Fittings Shall Be Welded</b>									
41	3/4" Dia Heating Hot Water Supply Pipe	LFT	36	10%	40	\$ -	\$ -	\$ -	\$ -
42	1-1/2" Dia Heating Hot Water Supply Pipe	LFT	626	10%	689	\$ -	\$ -	\$ -	\$ -
43	2" Dia Heating Hot Water Supply Pipe	LFT	99	10%	109	\$ -	\$ -	\$ -	\$ -
44	3" Dia Heating Hot Water Supply Pipe	LFT	80	10%	88	\$ -	\$ -	\$ -	\$ -



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81	3/4" Dia Fuel Oil Supply / Pump Discharge Pipe	LFT	105	10%	116	\$ -	\$ -	\$ -	\$ -
	<b>Fuel Oil Supply /Pump Discharge Pipe Fittings</b>								
	<b>Elbow</b>								
82	3/4" Dia Fuel Oil Supply/ Pump Discharge Pipe 90 D	EA	16	0%	16	\$ -	\$ -	\$ -	\$ -
	<b>Fuel Oil Return Pipe</b>								
	<b>Schedule 40, Steel Pipe ASTM A 53 Or ASTM A</b>								
83	1" Dia Return Fuel Oil Piping	LFT	33	10%	36	\$ -	\$ -	\$ -	\$ -
	<b>Schedule 40, Steel Pipe ASTM A 53 Or ASTM A</b>								
84	1" Dia Return Fuel Oil Piping	LFT	94	10%	104	\$ -	\$ -	\$ -	\$ -
85	1-1/4" Dia Return Fuel Oil Piping	LFT	12	10%	13	\$ -	\$ -	\$ -	\$ -
	<b>Fuel Oil Return Pipe Fittings</b>								
	<b>Elbow</b>								
86	1" Dia Return Fuel Oil Piping 90 Deg Elbow	EA	13	0%	13	\$ -	\$ -	\$ -	\$ -
	<b>Reducer</b>								
87	1-1/4" / 1" Dia Return Fuel Oil Piping Reducer	EA	2	0%	2	\$ -	\$ -	\$ -	\$ -
	<b>Vent Pipe (For Oil Tank)</b>								
	<b>Schedule 40, Steel Pipe ASTM A 53 Or ASTM A</b>								
88	1-1/2" Dia Vent Pipe	LFT	26	10%	29	\$ -	\$ -	\$ -	\$ -
	<b>Vent Pipe Fittings</b>								
	<b>Elbow</b>								
89	1-1/2" Dia Vent Pipe 90 Deg Elbow	EA	6	0%	6	\$ -	\$ -	\$ -	\$ -
	<b>Exhaust Vent Pipe (For Gas Unit Heater)</b>								
	<b>Double Wall Stainless Steel Exhaust: HEATFAB</b>								
90	3" Dia Exhaust Vent Pipe	LFT	20	10%	22	\$ -	\$ -	\$ -	\$ -
	<b>Exhaust Vent Pipe Fittings</b>								
	<b>Elbow</b>								
91	3" Dia Exhaust Vent Pipe 90 Deg Elbow	EA	1	0%	1	\$ -	\$ -	\$ -	\$ -
	<b>Combustion Air Pipe (For Gas Unit Heater)</b>								
	<b>Schedule 40 PVC Pipe W/ Fittings</b>								
92	3" Dia Combustion Air Pipe	LFT	18	10%	20	\$ -	\$ -	\$ -	\$ -
	<b>Combustion Air Pipe Fittings</b>								
	<b>Elbow</b>								
93	3" Dia Combustion Air Pipe 90 Deg Elbow	EA	2	0%	2	\$ -	\$ -	\$ -	\$ -
	<b>Refrigerant Pipe</b>								
	<b>Type 'L' Hard Drawn Copper Pipe, Fittings: Cast</b>								
94	1/4" Dia Refrigeration Liquid Pipe	LFT	1159	10%	1275	\$ -	\$ -	\$ -	\$ -
95	3/8" Dia Refrigeration Liquid Pipe	LFT	215	10%	237	\$ -	\$ -	\$ -	\$ -
96	7/8" Dia Refrigeration Liquid Pipe	LFT	76	10%	84	\$ -	\$ -	\$ -	\$ -
97	1/2" Dia Refrigeration Suction Pipe	LFT	1169	10%	1286	\$ -	\$ -	\$ -	\$ -
98	3/4" Dia Refrigeration Suction Pipe	LFT	61	10%	67	\$ -	\$ -	\$ -	\$ -
99	5/8" Dia Refrigeration Suction Pipe	LFT	155	10%	171	\$ -	\$ -	\$ -	\$ -
100	1-1/8" Dia Refrigeration Suction Pipe	LFT	76	10%	84	\$ -	\$ -	\$ -	\$ -
101	7/8" Dia Refrigeration Gas Pipe	LFT	61	10%	67	\$ -	\$ -	\$ -	\$ -
	<b>Insulation</b>								
	<b>1-1/2" Thick, J-M Aero tube Foamed Plastic Pipe</b>								
102	1/4" Dia Refrigeration Liquid Pipe	LFT	1159	10%	1275	\$ -	\$ -	\$ -	\$ -
103	3/8" Dia Refrigeration Liquid Pipe	LFT	215	10%	237	\$ -	\$ -	\$ -	\$ -
104	7/8" Dia Refrigeration Liquid Pipe	LFT	76	10%	84	\$ -	\$ -	\$ -	\$ -
105	1/2" Dia Refrigeration Suction Pipe	LFT	1169	10%	1286	\$ -	\$ -	\$ -	\$ -
106	3/4" Dia Refrigeration Suction Pipe	LFT	61	10%	67	\$ -	\$ -	\$ -	\$ -
107	5/8" Dia Refrigeration Suction Pipe	LFT	155	10%	171	\$ -	\$ -	\$ -	\$ -
108	1-1/8" Dia Refrigeration Suction Pipe	LFT	76	10%	84	\$ -	\$ -	\$ -	\$ -
109	7/8" Dia Refrigeration Gas Pipe	LFT	61	10%	67	\$ -	\$ -	\$ -	\$ -
	<b>Refrigerant Pipe Fittings</b>								
	<b>Elbow</b>								
110	1/4" Dia Refrigeration Liquid Pipe 90 Deg Elbow	EA	135	0%	135	\$ -	\$ -	\$ -	\$ -
111	3/8" Dia Refrigeration Liquid Pipe 90 Deg Elbow	EA	20	0%	20	\$ -	\$ -	\$ -	\$ -
112	7/8" Dia Refrigeration Liquid Pipe 90 Deg Elbow	EA	4	0%	4	\$ -	\$ -	\$ -	\$ -
113	7/8" Dia Refrigeration Liquid Pipe 45 Deg Elbow	EA	2	0%	2	\$ -	\$ -	\$ -	\$ -
114	1/2" Dia Refrigeration Suction Pipe 90 Deg Elbow	EA	135	0%	135	\$ -	\$ -	\$ -	\$ -
115	3/4" Dia Refrigeration Suction Pipe 90 Deg Elbow	EA	7	0%	7	\$ -	\$ -	\$ -	\$ -
116	5/8" Dia Refrigeration Suction Pipe 90 Deg Elbow	EA	12	0%	12	\$ -	\$ -	\$ -	\$ -
117	1-1/8" Dia Refrigeration Suction Pipe 90 Deg Elbow	EA	4	0%	4	\$ -	\$ -	\$ -	\$ -
118	1-1/8" Dia Refrigeration Suction Pipe 45 Deg Elbow	EA	2	0%	2	\$ -	\$ -	\$ -	\$ -
119	7/8" Dia Refrigeration Gas Pipe 90 Deg Elbow	EA	7	0%	7	\$ -	\$ -	\$ -	\$ -
	<b>Tee</b>								
120	3/8" / 1/4" Dia Refrigeration Liquid Pipe Tee	EA	2	0%	2	\$ -	\$ -	\$ -	\$ -



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167	3/4" Dia Anti-Siphon Valve	EA	1	0%	1	\$ -	\$ -	\$ -	\$ -	
168	3/4" Dia Check Valve	EA	3	0%	3	\$ -	\$ -	\$ -	\$ -	
169	3/4" Dia Duplex Strainer	EA	1	0%	1	\$ -	\$ -	\$ -	\$ -	
170	3/4" Dia Foot Valve Mounted 4" Above Bottom Of Tank	EA	1	0%	1	\$ -	\$ -	\$ -	\$ -	
171	3/4" Dia Pressure Relief Valve	EA	1	0%	1	\$ -	\$ -	\$ -	\$ -	
172	3/4" Dia Shut-Off Valve	EA	2	0%	2	\$ -	\$ -	\$ -	\$ -	
173	3/4" Dia Union	EA	2	0%	2	\$ -	\$ -	\$ -	\$ -	
174	1-1/2" Dia Vent Cap	EA	1	0%	1	\$ -	\$ -	\$ -	\$ -	
175	1-1/2" Dia Vent Whistle	EA	1	0%	1	\$ -	\$ -	\$ -	\$ -	
176	2" Dia Fill Station With PREFERRED Model 1-1.5 (FDNY)	EA	1	0%	1	\$ -	\$ -	\$ -	\$ -	
177	Pressure Gauge	EA	2	0%	2	\$ -	\$ -	\$ -	\$ -	
178	Tank Gauge	EA	1	0%	1	\$ -	\$ -	\$ -	\$ -	
	<b>PVC Coupling</b>									
179	3" Dia	EA	1	0%	1	\$ -	\$ -	\$ -	\$ -	
	<b>Pipe Support</b>									
180	1/4" Dia Adjustable Clevis Hanger	EA	193	0%	193	\$ -	\$ -	\$ -	\$ -	
181	1/2" Dia Adjustable Clevis Hanger	EA	194	0%	194	\$ -	\$ -	\$ -	\$ -	
182	3/4" Dia Adjustable Clevis Hanger	EA	195	0%	195	\$ -	\$ -	\$ -	\$ -	
183	3/8" Dia Adjustable Clevis Hanger	EA	35	0%	35	\$ -	\$ -	\$ -	\$ -	
184	5/8" Dia Adjustable Clevis Hanger	EA	25	0%	25	\$ -	\$ -	\$ -	\$ -	
185	7/8" Dia Adjustable Clevis Hanger	EA	22	0%	22	\$ -	\$ -	\$ -	\$ -	
186	1" Dia Adjustable Clevis Hanger	EA	21	0%	21	\$ -	\$ -	\$ -	\$ -	
187	1-1/8" Dia Adjustable Clevis Hanger	EA	12	0%	12	\$ -	\$ -	\$ -	\$ -	
188	1-1/4" Dia Adjustable Clevis Hanger	EA	15	0%	15	\$ -	\$ -	\$ -	\$ -	
189	1-1/2" Dia Adjustable Clevis Hanger	EA	4	0%	4	\$ -	\$ -	\$ -	\$ -	
190	2" Dia Adjustable Clevis Hanger	EA	45	0%	45	\$ -	\$ -	\$ -	\$ -	
191	3" Dia Adjustable Clevis Hanger	EA	33	0%	33	\$ -	\$ -	\$ -	\$ -	
192	4" Dia Adjustable Clevis Hanger	EA	25	0%	25	\$ -	\$ -	\$ -	\$ -	
193	1/2" Dia Threaded Rod (1 Ea = 1 FT)	EA	716	0%	716	\$ -	\$ -	\$ -	\$ -	
194	3/8" Dia Threaded Rod (1 Ea = 1 FT)	EA	103	0%	103	\$ -	\$ -	\$ -	\$ -	
<b>SUBTOTAL \$</b>									<b>-</b>	
							<b>PROJECTED COST</b>		<b>\$0</b>	
<b>OVERHEAD AND PROFIT</b>							<b>0.15</b>	<b>0.15</b>	<b>15%</b>	<b>\$0</b>
<b>INSURANCE</b>							<b>0</b>	<b>0</b>	<b>0%</b>	<b>\$0</b>
<b>CONTINGENCY</b>							<b>0</b>	<b>0</b>	<b>0%</b>	<b>\$0</b>
<b>TAX</b>							<b>0</b>	<b>0</b>	<b>0%</b>	<b>\$0</b>
<b>SUGGESTED BID</b>									<b>\$0</b>	

**Note:**

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