GENERAL SUMMARY

HVAC / Mechanical estimate · sample

Project: BIA Boarding School
Building: Institutional - Government (BIA) Boarding School
Scope: Division 23 - HVAC (ductwork, equipment, piping, controls)
Estimate No.: PE-SAMPLE-HVAC
Prepared by: Darren Wood, Senior Estimator

DIVISION	DESCRIPTION	TOTAL COST	% OF TOTAL
23 00 00	HVAC	$1,992,324	100.0%
	TOTAL TRADE COST	**$1,992,324**	**100.0%**
	Contingencies & Insurance	$99,616	5.0%
	Overhead & Profit	$498,081	25.0%
	TOTAL BASE BID	**$2,590,022**	

Detailed line items, quantities, labor hours and unit pricing are on the 'Estimate' tab.

Sample estimate: project address, dates and client details removed for confidentiality.

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HVAC / MECHANICAL ESTIMATE

Sample estimate · Institutional - Government (BIA) Boarding School · Quantity takeoff with labor & material pricing

Project: BIA Boarding School
Building: Institutional - Government (BIA) Boarding School
Scope: Division 23 - HVAC (ductwork, equipment, piping, controls)

Estimate No.: PE-SAMPLE-HVAC
Prepared by: Darren Wood, Senior Estimator
Trade: HVAC / Mechanical

S#	Dwg.	CSI	DESCRIPTION / SPECIFICATION	QTY.	WASTE	QTY W/ WASTE	UNIT	UNIT LABOR HR	TOTAL LABOR HR	LABOR RATE /HR	UNIT LABOR COST	TOTAL LABOR COST	UNIT MAT. COST	TOTAL MAT. COST	UNIT PRICE (L+M)	TOTAL
DIVISION 23 – HVAC																
			DUCT													
1		23 00 00	4"*4" E/A	19.09	5%	20.04	LF	0.149	2.99	$75.00	$11.20	$224.50	$2.98	$59.65	$14.18	$284.15
2		23 00 00	4'' Dia Duct	17.50	5%	18.38	LF	0.234	4.31	$75.00	$17.58	$323.11	$8.40	$154.31	$25.98	$477.42
3		23 00 00	6"*6" E/A	126.65	5%	132.98	LF	0.224	29.79	$75.00	$16.80	$2,234.11	$6.70	$890.45	$23.50	$3,124.56
4		23 00 00	6"*6" O/A	82.70	5%	86.84	LF	0.224	19.45	$75.00	$16.80	$1,458.83	$6.70	$581.45	$23.50	$2,040.28
5		23 00 00	6"*6" R/A	12.40	5%	13.02	LF	0.224	2.92	$75.00	$16.80	$218.74	$6.70	$87.18	$23.50	$305.92
6		23 00 00	6"*6" S/A	47.01	5%	49.36	LF	0.224	11.06	$75.00	$16.80	$829.26	$6.70	$330.52	$23.50	$1,159.77
7		23 00 00	8"*8" E/A	414.47	5%	435.19	LF	0.299	129.98	$75.00	$22.40	$9,748.33	$11.90	$5,180.54	$34.30	$14,928.88
8		23 00 00	8"*8" R/A	194.84	5%	204.58	LF	0.299	61.10	$75.00	$22.40	$4,582.64	$11.90	$2,435.34	$34.30	$7,017.98
9		23 00 00	8"*10" S/A	38.93	5%	40.88	LF	0.336	13.73	$75.00	$25.20	$1,030.09	$14.88	$608.24	$40.08	$1,638.33
10		23 00 00	8"*6" R/A	52.79	5%	55.43	LF	0.261	14.49	$75.00	$19.60	$1,086.42	$8.93	$494.87	$28.53	$1,581.29
11		23 00 00	8"*8" S/A	146.98	5%	154.33	LF	0.299	46.09	$75.00	$22.40	$3,456.97	$11.90	$1,837.13	$34.30	$5,294.10
12		23 00 00	10"*8" E/A	212.26	5%	222.87	LF	0.336	74.89	$75.00	$25.20	$5,616.40	$14.88	$3,316.35	$40.08	$8,932.75
13		23 00 00	10"*10" E/A	50.30	5%	52.82	LF	0.373	19.72	$75.00	$28.00	$1,478.82	$18.60	$982.36	$46.60	$2,461.18
14		23 00 00	10"*10" O/A	207.84	5%	218.23	LF	0.373	81.47	$75.00	$28.00	$6,110.50	$18.60	$4,059.12	$46.60	$10,169.61
15		23 00 00	10"*10" R/A	40.55	5%	42.58	LF	0.373	15.90	$75.00	$28.00	$1,192.17	$18.60	$791.94	$46.60	$1,984.11
16		23 00 00	10"*10" S/A	761.10	5%	799.16	LF	0.373	298.35	$75.00	$28.00	$22,376.34	$18.60	$14,864.28	$46.60	$37,240.62
17		23 00 00	10"*8" S/A	206.35	5%	216.67	LF	0.336	72.80	$75.00	$25.20	$5,460.02	$14.88	$3,224.01	$40.08	$8,684.03
18		23 00 00	10"*12" S/A	28.35	5%	29.77	LF	0.411	12.22	$75.00	$30.80	$916.84	$22.32	$664.41	$53.12	$1,581.25
19		23 00 00	10"*6" E/A	15.73	5%	16.52	LF	0.299	4.93	$75.00	$22.40	$369.97	$11.16	$184.32	$33.56	$554.29
20		23 00 00	12"*10" E/A	147.49	5%	154.86	LF	0.411	63.60	$75.00	$30.80	$4,769.83	$22.32	$3,456.58	$53.12	$8,226.40
21		23 00 00	12"*10" O/A	122.53	5%	128.66	LF	0.411	52.83	$75.00	$30.80	$3,962.62	$22.32	$2,871.61	$53.12	$6,834.23
22		23 00 00	12"*10" R/A	89.87	5%	94.36	LF	0.411	38.75	$75.00	$30.80	$2,906.40	$22.32	$2,106.19	$53.12	$5,012.59
23		23 00 00	12"*14" O/A	1.66	5%	1.74	LF	0.485	0.85	$75.00	$36.40	$63.45	$31.25	$54.47	$67.65	$117.91
24		23 00 00	12"*10" S/A	89.70	5%	94.19	LF	0.411	38.68	$75.00	$30.80	$2,900.90	$22.32	$2,102.21	$53.12	$5,003.11
25		23 00 00	12"*12" E/A	66.08	5%	69.38	LF	0.448	31.08	$75.00	$33.60	$2,331.30	$26.78	$1,858.38	$60.38	$4,189.68
26		23 00 00	12"*12" O/A	133.31	5%	139.98	LF	0.448	62.71	$75.00	$33.60	$4,703.18	$26.78	$3,749.10	$60.38	$8,452.28
27		23 00 00	12"*12" RA	17.88	5%	18.77	LF	0.448	8.41	$75.00	$33.60	$630.81	$26.78	$502.84	$60.38	$1,133.65
28		23 00 00	12"*12" S/A	161.76	5%	169.85	LF	0.448	76.09	$75.00	$33.60	$5,706.89	$26.78	$4,549.21	$60.38	$10,256.10
29		23 00 00	12"*6" E/A	34.90	5%	36.65	LF	0.336	12.31	$75.00	$25.20	$923.45	$13.39	$490.75	$38.59	$1,414.20
30		23 00 00	12"*6" O/A	33.13	5%	34.79	LF	0.336	11.69	$75.00	$25.20	$876.62	$13.39	$465.86	$38.59	$1,342.48
31		23 00 00	12"*8" E/A	63.71	5%	66.90	LF	0.373	24.97	$75.00	$28.00	$1,873.07	$17.86	$1,194.49	$45.86	$3,067.56
32		23 00 00	12"*8" R/A	18.38	5%	19.30	LF	0.373	7.20	$75.00	$28.00	$540.37	$17.86	$344.60	$45.86	$884.97
33		23 00 00	14"*10 S/A	50.19	5%	52.70	LF	0.448	23.61	$75.00	$33.60	$1,770.70	$26.04	$1,372.29	$59.64	$3,143.00
34		23 00 00	14"*10" R/A	28.18	5%	29.59	LF	0.448	13.26	$75.00	$33.60	$994.19	$26.04	$770.50	$59.64	$1,764.69
35		23 00 00	14"*12" E/A	77.13	5%	80.99	LF	0.485	39.31	$75.00	$36.40	$2,947.91	$31.25	$2,530.67	$67.65	$5,478.57
36		23 00 00	14"*12" O/A	43.94	5%	46.14	LF	0.485	22.39	$75.00	$36.40	$1,679.39	$31.25	$1,441.69	$67.65	$3,121.08
37		23 00 00	14"*12" R/A	25.88	5%	27.17	LF	0.485	13.19	$75.00	$36.40	$989.13	$31.25	$849.13	$67.65	$1,838.27
38		23 00 00	14"*12" S/A	193.48	5%	203.15	LF	0.485	98.60	$75.00	$36.40	$7,394.81	$31.25	$6,348.16	$67.65	$13,742.96
39		23 00 00	14"*14" E/A	6.04	5%	6.34	LF	0.523	3.31	$75.00	$39.20	$248.61	$36.46	$231.20	$75.66	$479.81
40		23 00 00	14"*8" E/A	4.66	5%	4.89	LF	0.411	2.01	$75.00	$30.80	$150.70	$20.83	$101.93	$51.63	$252.64
41		23 00 00	14"*8" O/A	47.46	5%	49.83	LF	0.411	20.46	$75.00	$30.80	$1,534.86	$20.83	$1,038.12	$51.63	$2,572.98

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S#	Dwg.	CSI	DESCRIPTION / SPECIFICATION	QTY.	WASTE	QTY W/ WASTE	UNIT	UNIT LABOR HR	TOTAL LABOR HR	LABOR RATE /HR	UNIT LABOR COST	TOTAL LABOR COST	UNIT MAT. COST	TOTAL MAT. COST	UNIT PRICE (L+M)	TOTAL
42		23 00 00	14"*12" R/A	6.87	5%	7.21	LF	0.485	3.50	$75.00	$36.40	$262.57	$31.25	$225.41	$67.65	$487.98
43		23 00 00	16"*8" S/A	33.83	5%	35.52	LF	0.448	15.91	$75.00	$33.60	$1,193.52	$23.81	$845.70	$57.41	$2,039.22
44		23 00 00	16"*12" S/A	49.41	5%	51.88	LF	0.523	27.12	$75.00	$39.20	$2,033.72	$35.71	$1,852.76	$74.91	$3,886.47
45		23 00 00	16"*14" O/A	97.29	5%	102.15	LF	0.560	57.21	$75.00	$42.00	$4,290.49	$41.66	$4,256.17	$83.66	$8,546.65
46		23 00 00	16"*12" R/A	35.09	5%	36.84	LF	0.523	19.26	$75.00	$39.20	$1,444.30	$35.71	$1,315.79	$74.91	$2,760.10
47		23 00 00	16"*14" S/A	61.64	5%	64.72	LF	0.560	36.24	$75.00	$42.00	$2,718.32	$41.66	$2,696.58	$83.66	$5,414.90
48		23 00 00	16"*16" O/A	15.26	5%	16.02	LF	0.597	9.57	$75.00	$44.80	$717.83	$47.62	$762.95	$92.42	$1,480.78
49		23 00 00	16"*16" S/A	19.38	5%	20.35	LF	0.597	12.16	$75.00	$44.80	$911.64	$47.62	$968.94	$92.42	$1,880.57
50		23 00 00	16"*20" O/A	34.72	5%	36.46	LF	0.672	24.50	$75.00	$50.40	$1,837.38	$59.52	$2,169.86	$109.92	$4,007.24
51		23 00 00	18"*10" E/A	18.11	5%	19.02	LF	0.523	9.94	$75.00	$39.20	$745.41	$33.48	$636.64	$72.68	$1,382.05
52		23 00 00	18"*10" S/A	6.94	5%	7.29	LF	0.523	3.81	$75.00	$39.20	$285.65	$33.48	$243.97	$72.68	$529.62
53		23 00 00	18"*12" E/A	107.05	5%	112.40	LF	0.560	62.95	$75.00	$42.00	$4,720.91	$40.18	$4,515.88	$82.18	$9,236.79
54		23 00 00	18"*12" S/A	205.43	5%	215.70	LF	0.560	120.79	$75.00	$42.00	$9,059.46	$40.18	$8,666.02	$82.18	$17,725.49
55		23 00 00	18"*14" O/A	82.93	5%	87.08	LF	0.597	52.01	$75.00	$44.80	$3,901.03	$46.87	$4,081.45	$91.67	$7,982.48
56		23 00 00	18"*14" S/A	31.35	5%	32.92	LF	0.597	19.66	$75.00	$44.80	$1,474.70	$46.87	$1,542.91	$91.67	$3,017.61
57		23 00 00	18"*16" O/A	44.33	5%	46.55	LF	0.635	29.54	$75.00	$47.60	$2,215.61	$53.57	$2,493.40	$101.17	$4,709.02
58		23 00 00	18"*16" S/A	20.22	5%	21.23	LF	0.635	13.47	$75.00	$47.60	$1,010.60	$53.57	$1,137.30	$101.17	$2,147.90
59		23 00 00	20"*10" R/A	21.35	5%	22.42	LF	0.560	12.55	$75.00	$42.00	$941.54	$37.20	$833.93	$79.20	$1,775.47
60		23 00 00	20"*12" S/A	25.83	5%	27.12	LF	0.597	16.20	$75.00	$44.80	$1,215.04	$44.64	$1,210.70	$89.44	$2,425.75
61		23 00 00	20"*14" E/A	73.45	5%	77.12	LF	0.635	48.95	$75.00	$47.60	$3,671.03	$52.08	$4,016.54	$99.68	$7,687.57
62		23 00 00	20"*14" O/A	40.23	5%	42.24	LF	0.635	26.81	$75.00	$47.60	$2,010.70	$52.08	$2,199.94	$99.68	$4,210.63
63		23 00 00	20"*14" R/A	26.32	5%	27.64	LF	0.635	17.54	$75.00	$47.60	$1,315.47	$52.08	$1,439.28	$99.68	$2,754.76
64		23 00 00	22"*12" R/A	49.18	5%	51.64	LF	0.635	32.77	$75.00	$47.60	$2,458.02	$49.10	$2,535.68	$96.70	$4,993.70
65		23 00 00	22"*14" E/A	121.69	5%	127.77	LF	0.672	85.86	$75.00	$50.40	$6,439.83	$57.29	$7,319.95	$107.69	$13,759.78
66		23 00 00	22"*18" S/A	44.46	5%	46.68	LF	0.747	34.86	$75.00	$56.00	$2,614.25	$73.66	$3,438.48	$129.66	$6,052.73
67		23 00 00	22"*16" O/A	110.25	5%	115.76	LF	0.709	82.11	$75.00	$53.20	$6,158.57	$65.47	$7,579.20	$118.67	$13,737.77
68		23 00 00	22"*18" E/A	52.15	5%	54.76	LF	0.747	40.89	$75.00	$56.00	$3,066.42	$73.66	$4,033.22	$129.66	$7,099.64
69		23 00 00	22"14" O/A	44.62	5%	46.85	LF	0.672	31.48	$75.00	$50.40	$2,361.29	$57.29	$2,684.00	$107.69	$5,045.29
70		23 00 00	24"*10" S/A	11.04	5%	11.59	LF	0.635	7.36	$75.00	$47.60	$551.78	$44.64	$517.47	$92.24	$1,069.25
71		23 00 00	24"*16" E/A	138.74	5%	145.68	LF	0.747	108.77	$75.00	$56.00	$8,157.91	$71.42	$10,404.83	$127.42	$18,562.75
72		23 00 00	24"*18" O/A	68.60	5%	72.03	LF	0.784	56.47	$75.00	$58.80	$4,235.36	$80.35	$5,787.75	$139.15	$10,023.12
73		23 00 00	24"*18" S/A	72.91	5%	76.56	LF	0.784	60.02	$75.00	$58.80	$4,501.46	$80.35	$6,151.39	$139.15	$10,652.85
74		23 00 00	24"*48" R/A	72.62	5%	76.25	LF	1.344	102.48	$75.00	$100.80	$7,686.10	$214.27	$16,338.45	$315.07	$24,024.56
75		23 00 00	24"*8" R/A	39.60	5%	41.58	LF	0.597	24.84	$75.00	$44.80	$1,862.78	$35.71	$1,484.90	$80.51	$3,347.69
76		23 00 00	24"*10" R/A	3.77	5%	3.96	LF	0.635	2.51	$75.00	$47.60	$188.42	$44.64	$176.71	$92.24	$365.13
77		23 00 00	26"*10" R/A	214.43	5%	225.15	LF	0.672	151.30	$75.00	$50.40	$11,347.64	$48.36	$10,888.33	$98.76	$22,235.96
78		23 00 00	26"*12" R/A	44.83	5%	47.07	LF	0.709	33.39	$75.00	$53.20	$2,504.20	$58.03	$2,731.65	$111.23	$5,235.86
79		23 00 00	26"*18" E/A	47.55	5%	49.93	LF	0.821	41.01	$75.00	$61.60	$3,075.53	$87.05	$4,346.09	$148.65	$7,421.62
80		23 00 00	26"*16" S/A	7.40	5%	7.77	LF	0.784	6.09	$75.00	$58.80	$456.88	$77.38	$601.21	$136.18	$1,058.09
81		23 00 00	28"*10" R/A	22.65	5%	23.78	LF	0.709	16.87	$75.00	$53.20	$1,265.23	$52.08	$1,238.59	$105.28	$2,503.82
82		23 00 00	28"*12" S/A	4.81	5%	5.05	LF	0.747	3.77	$75.00	$56.00	$282.83	$62.50	$315.64	$118.50	$598.46
83		23 00 00	28"*22" E/A	53.89	5%	56.58	LF	0.933	52.81	$75.00	$70.00	$3,960.92	$114.58	$6,483.23	$184.58	$10,444.14
84		23 00 00	30"*10" R/A	21.18	5%	22.24	LF	0.747	16.61	$75.00	$56.00	$1,245.38	$55.80	$1,240.94	$111.80	$2,486.32
85		23 00 00	30"*16" O/A	8.20	5%	8.61	LF	0.859	7.39	$75.00	$64.40	$554.48	$89.28	$768.70	$153.68	$1,323.18
86		23 00 00	32"*14" E/A	76.88	5%	80.72	LF	0.859	69.32	$75.00	$64.40	$5,198.63	$83.33	$6,726.57	$147.73	$11,925.20
87		23 00 00	32"*18" S/A	20.47	5%	21.49	LF	0.933	20.06	$75.00	$70.00	$1,504.55	$107.14	$2,302.73	$177.14	$3,807.27
88		23 00 00	34"*24" S/A	35.36	5%	37.13	LF	1.083	40.20	$75.00	$81.20	$3,014.79	$151.78	$5,635.14	$232.98	$8,649.93
89		23 00 00	36"*12" R/A	19.06	5%	20.01	LF	0.896	17.93	$75.00	$67.20	$1,344.87	$80.35	$1,608.08	$147.55	$2,952.96
90		23 00 00	34"*24" R/A	2.84	5%	2.98	LF	1.083	3.23	$75.00	$81.20	$242.14	$151.78	$452.60	$232.98	$694.73
91		23 00 00	36"*12" S/A	3.74	5%	3.93	LF	0.896	3.52	$75.00	$67.20	$263.89	$80.35	$315.54	$147.55	$579.44
92		23 00 00	36"*20" E/A	66.58	5%	69.91	LF	1.045	73.08	$75.00	$78.40	$5,480.87	$133.92	$9,362.21	$212.32	$14,843.08
93		23 00 00	36"*20" O/A	71.42	5%	74.99	LF	1.045	78.39	$75.00	$78.40	$5,879.29	$133.92	$10,042.79	$212.32	$15,922.09
94		23 00 00	36"*36" S/A	49.44	5%	51.91	LF	1.344	69.77	$75.00	$100.80	$5,232.73	$241.06	$12,513.70	$341.86	$17,746.43
95		23 00 00	38"*12" R/A	25.98	5%	27.28	LF	0.933	25.46	$75.00	$70.00	$1,909.53	$84.82	$2,313.70	$154.82	$4,223.23
96		23 00 00	48"*24" S/A	14.58	5%	15.31	LF	1.344	20.58	$75.00	$100.80	$1,543.15	$214.27	$3,280.29	$315.07	$4,823.44
97		23 00 00	40"*28" O/A	11.15	5%	11.71	LF	1.269	14.86	$75.00	$95.20	$1,114.55	$208.32	$2,438.91	$303.52	$3,553.46

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98		23 00 00	46""10" R/A	5.29	5%	5.55	LF	1.045	5.81	$75.00	$78.40	$435.47	$85.56	$475.24	$163.96	$910.72
99		23 00 00	50""24" R/A	15.16	5%	15.92	LF	1.381	21.99	$75.00	$103.60	$1,649.10	$223.20	$3,552.90	$326.80	$5,202.00
100		23 00 00	S1, 8" Dia	1,011.79	5%	1,062.38	LF	0.234	249.08	$75.00	$17.58	$18,680.88	$15.30	$16,252.28	$32.88	$34,933.16
101		23 00 00	Duct Insulation	25,000.00	5%	26,250.00	SF	0.061	1,592.50	$75.00	$4.55	$119,437.50	$1.00	$26,250.00	$5.55	$145,687.50
			Fixture													
			VRF INDOOR UNIT													
102		23 00 00	VRF INDOOR UNIT (CU-01) AH-01 Manufacturer: TRANE Model: TPEFYP048MH142A CFM: 1300	1.00	0%	1.00	EA	6.298	6.30	$75.00	$472.33	$472.33	$5,452.92	$5,452.92	$5,925.25	$5,925.25
103		23 00 00	VRF INDOOR UNIT (CU-01) AH-02 Manufacturer: TRANE Model: TPEFYP048MH142A CFM: 1300	1.00	0%	1.00	EA	6.298	6.30	$75.00	$472.33	$472.33	$5,452.92	$5,452.92	$5,925.25	$5,925.25
104		23 00 00	VRF INDOOR UNIT (CU-01) AH-03 Manufacturer: TRANE Model: TPEFYP072MH140A CFM: 2540	1.00	0%	1.00	EA	7.814	7.81	$75.00	$586.08	$586.08	$6,927.00	$6,927.00	$7,513.08	$7,513.08
105		23 00 00	VRF INDOOR UNIT (CU-01) AH-05 Manufacturer: TRANE Model: TPEFYP048MH142A CFM: 1300	1.00	0%	1.00	EA	6.298	6.30	$75.00	$472.33	$472.33	$5,452.92	$5,452.92	$5,925.25	$5,925.25
106		23 00 00	VRF INDOOR UNIT (CU-01) AH-06 Manufacturer: TRANE Model: TPEFYP048MH142A CFM: 1300	1.00	0%	1.00	EA	6.298	6.30	$75.00	$472.33	$472.33	$5,452.92	$5,452.92	$5,925.25	$5,925.25
107		23 00 00	VRF INDOOR UNIT (CU-01) AH-07 Manufacturer: TRANE Model: TPEFYP072MH140A CFM: 2540	1.00	0%	1.00	EA	7.814	7.81	$75.00	$586.08	$586.08	$6,927.00	$6,927.00	$7,513.08	$7,513.08
108		23 00 00	VRF INDOOR UNIT (CU-02) AH-04 Manufacturer: TRANE Model: TPEFYQ015M14A4A CFM: 490	1.00	0%	1.00	EA	5.628	5.63	$75.00	$422.10	$422.10	$3,086.64	$3,086.64	$3,508.74	$3,508.74
109		23 00 00	VRF INDOOR UNIT (CU-02) AH-08 Manufacturer: TRANE Model: TPEFYQ048M14H42A CFM: 1300	1.00	0%	1.00	EA	6.298	6.30	$75.00	$472.33	$472.33	$5,452.92	$5,452.92	$5,925.25	$5,925.25
110		23 00 00	VRF INDOOR UNIT (CU-02) AH-09 Manufacturer: TRANE Model: TPEFYQ024M14A4A CFM: 880	1.00	0%	1.00	EA	6.181	6.18	$75.00	$463.58	$463.58	$2,309.00	$2,309.00	$2,772.58	$2,772.58
111		23 00 00	VRF INDOOR UNIT (CU-02) AH-10 Manufacturer: TRANE Model: TPEFYQ012M14A4A CFM: 370	1.00	0%	1.00	EA	4.844	4.84	$75.00	$363.30	$363.30	$2,855.52	$2,855.52	$3,218.82	$3,218.82
112		23 00 00	VRF INDOOR UNIT (CU-02) AH-11 Manufacturer: TRANE Model: TPEFYQ015M14A4A CFM: 490	1.00	0%	1.00	EA	5.628	5.63	$75.00	$422.10	$422.10	$3,086.64	$3,086.64	$3,508.74	$3,508.74

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113		23 00 00	VRF INDOOR UNIT (CU-02) AH-12 Manufacturer: TRANE Model: TPEFYQ018M14A4A CFM: 600	1.00	0%	1.00	EA	6.092	6.09	$75.00	$456.93	$456.93	$1,693.00	$1,693.00	$2,149.93	$2,149.93
114		23 00 00	VRF INDOOR UNIT (CU-02) AH-13 Manufacturer: TRANE Model: TPEFYQ015M14A4A CFM: 490	1.00	0%	1.00	EA	5.628	5.63	$75.00	$422.10	$422.10	$3,086.64	$3,086.64	$3,508.74	$3,508.74
115		23 00 00	VRF INDOOR UNIT (CU-02) AH-14 Manufacturer: TRANE Model: TPEFYQ015M14A4A CFM: 490	1.00	0%	1.00	EA	5.628	5.63	$75.00	$422.10	$422.10	$3,086.64	$3,086.64	$3,508.74	$3,508.74
116		23 00 00	VRF INDOOR UNIT (CU-02) AH-15 Manufacturer: TRANE Model: TPEFYQ036M14A4A CFM: 1270	1.00	0%	1.00	EA	6.823	6.82	$75.00	$511.70	$511.70	$3,170.00	$3,170.00	$3,681.70	$3,681.70
117		23 00 00	VRF INDOOR UNIT (CU-02) AH-16 Manufacturer: TRANE Model: TPEFYQ018M14A4A CFM: 600	1.00	0%	1.00	EA	6.092	6.09	$75.00	$456.93	$456.93	$1,693.00	$1,693.00	$2,149.93	$2,149.93
118		23 00 00	VRF INDOOR UNIT (CU-02) AH-44 Manufacturer: TRANE Model: TPEFYQ048M14A4A CFM: 1300	1.00	0%	1.00	EA	6.298	6.30	$75.00	$472.33	$472.33	$5,452.92	$5,452.92	$5,925.25	$5,925.25
119		23 00 00	VRF INDOOR UNIT (CU-02) AH-53 Manufacturer: TRANE Model: TKFYFQ018LM14A0A CFM: 430	1.00	0%	1.00	EA	6.092	6.09	$75.00	$456.93	$456.93	$1,693.00	$1,693.00	$2,149.93	$2,149.93
120		23 00 00	VRF INDOOR UNIT (CU-03) AH-17 Manufacturer: TRANE Model: TPEFYQ048M14H42A CFM: 1300	1.00	0%	1.00	EA	6.298	6.30	$75.00	$472.33	$472.33	$5,452.92	$5,452.92	$5,925.25	$5,925.25
121		23 00 00	VRF INDOOR UNIT (CU-03) AH-18 Manufacturer: TRANE Model: TPEFYQ012M14H4A CFM: 370	1.00	0%	1.00	EA	4.844	4.84	$75.00	$363.30	$363.30	$2,855.52	$2,855.52	$3,218.82	$3,218.82
122		23 00 00	VRF INDOOR UNIT (CU-03) AH-19 Manufacturer: TRANE Model: TPEFYQ048M14H42A CFM: 1300	1.00	0%	1.00	EA	6.298	6.30	$75.00	$472.33	$472.33	$5,452.92	$5,452.92	$5,925.25	$5,925.25
123		23 00 00	VRF INDOOR UNIT (CU-03) AH-20 Manufacturer: TRANE Model: TPEFYQ048M14H42A CFM: 1300	1.00	0%	1.00	EA	6.298	6.30	$75.00	$472.33	$472.33	$5,452.92	$5,452.92	$5,925.25	$5,925.25
124		23 00 00	VRF INDOOR UNIT (CU-03) AH-21 Manufacturer: TRANE Model: TPEFYQ048M14H42A CFM: 1300	1.00	0%	1.00	EA	6.298	6.30	$75.00	$472.33	$472.33	$5,452.92	$5,452.92	$5,925.25	$5,925.25
125		23 00 00	VRF INDOOR UNIT (CU-03) AH-22 Manufacturer: TRANE Model: TPEFYQ054M14H42A CFM: 1410	1.00	0%	1.00	EA	6.932	6.93	$75.00	$519.93	$519.93	$5,772.50	$5,772.50	$6,292.43	$6,292.43

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126		23 00 00	VRF INDOOR UNIT (CU-03) AH-23 Manufacturer: TRANE Model: TPEFYQ015M14H4A CFM: 490	1.00	0%	1.00	EA	5.628	5.63	$75.00	$422.10	$422.10	$1,594.00	$1,594.00	$2,016.10	$2,016.10
127		23 00 00	VRF INDOOR UNIT (CU-04) AH-24a Manufacturer: TRANE Model: TPEFYQ030M14H42A CFM: 880	1.00	0%	1.00	EA	6.237	6.24	$75.00	$467.78	$467.78	$2,874.00	$2,874.00	$3,341.78	$3,341.78
128		23 00 00	VRF INDOOR UNIT (CU-04) AH-24b Manufacturer: TRANE Model: TPEFYQ030M14H42A CFM: 880	1.00	0%	1.00	EA	6.237	6.24	$75.00	$467.78	$467.78	$2,874.00	$2,874.00	$3,341.78	$3,341.78
129		23 00 00	VRF INDOOR UNIT (CU-04) AH-25 Manufacturer: TRANE Model: TPEFYQ048M14H4A CFM: 1300	1.00	0%	1.00	EA	6.298	6.30	$75.00	$472.33	$472.33	$5,452.92	$5,452.92	$5,925.25	$5,925.25
130		23 00 00	VRF INDOOR UNIT (CU-04) AH-26 Manufacturer: TRANE Model: TPEFYQ012M14H4A CFM: 370	1.00	0%	1.00	EA	4.844	4.84	$75.00	$363.30	$363.30	$2,855.52	$2,855.52	$3,218.82	$3,218.82
131		23 00 00	VRF INDOOR UNIT (CU-04) AH-27 Manufacturer: TRANE Model: TPEFYQ054M14H42A CFM: 1410	1.00	0%	1.00	EA	7.278	7.28	$75.00	$545.83	$545.83	$7,120.44	$7,120.44	$7,666.27	$7,666.27
132		23 00 00	VRF INDOOR UNIT (CU-04) AH-28 Manufacturer: TRANE Model: TPEFYQ012M14H4A CFM: 370	1.00	0%	1.00	EA	4.844	4.84	$75.00	$363.30	$363.30	$2,855.52	$2,855.52	$3,218.82	$3,218.82
133		23 00 00	VRF INDOOR UNIT (CU-04) AH-29 Manufacturer: TRANE Model: TPEFYQ018M14H4A CFM: 600	1.00	0%	1.00	EA	6.316	6.32	$75.00	$473.73	$473.73	$3,208.68	$3,208.68	$3,682.41	$3,682.41
134		23 00 00	VRF INDOOR UNIT (CU-05) AH-30 Manufacturer: TRANE Model: TPEFYQ048M14H4A CFM: 1300	1.00	0%	1.00	EA	6.298	6.30	$75.00	$472.33	$472.33	$5,452.92	$5,452.92	$5,925.25	$5,925.25
135		23 00 00	VRF INDOOR UNIT (CU-05) AH-32 Manufacturer: TRANE Model: TPEFYQ024M14H4A CFM: 880	1.00	0%	1.00	EA	6.181	6.18	$75.00	$463.58	$463.58	$2,309.00	$2,309.00	$2,772.58	$2,772.58
136		23 00 00	VRF INDOOR UNIT (CU-05) AH-33 Manufacturer: TRANE Model: TPEFYQ024M14H4A CFM: 880	1.00	0%	1.00	EA	6.181	6.18	$75.00	$463.58	$463.58	$2,309.00	$2,309.00	$2,772.58	$2,772.58
137		23 00 00	VRF INDOOR UNIT (CU-05) AH-34 Manufacturer: TRANE Model: TPEFYQ024M14H4A CFM: 880	1.00	0%	1.00	EA	6.181	6.18	$75.00	$463.58	$463.58	$2,309.00	$2,309.00	$2,772.58	$2,772.58
138		23 00 00	VRF INDOOR UNIT (CU-05) AH-35 Manufacturer: TRANE Model: TPEFYQ024M14H4A CFM: 880	1.00	0%	1.00	EA	6.181	6.18	$75.00	$463.58	$463.58	$2,309.00	$2,309.00	$2,772.58	$2,772.58

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139		23 00 00	VRF INDOOR UNIT (CU-05) AH-36 Manufacturer: TRANE Model: TPEFYQ024M14H4A CFM: 880	1.00	0%	1.00	EA	6.181	6.18	$75.00	$463.58	$463.58	$2,309.00	$2,309.00	$2,772.58	$2,772.58
140		23 00 00	VRF INDOOR UNIT (CU-05) AH-37 Manufacturer: TRANE Model: TPEFYQ012M14H4A CFM: 370	1.00	0%	1.00	EA	4.844	4.84	$75.00	$363.30	$363.30	$2,855.52	$2,855.52	$3,218.82	$3,218.82
141		23 00 00	VRF INDOOR UNIT (CU-05) AH-38 Manufacturer: TRANE Model: TPEFYQ024M14H4A CFM: 880	1.00	0%	1.00	EA	6.181	6.18	$75.00	$463.58	$463.58	$2,309.00	$2,309.00	$2,772.58	$2,772.58
142		23 00 00	VRF INDOOR UNIT (CU-05) AH-39 Manufacturer: TRANE Model: TPEFYQ024M14H4A CFM: 880	1.00	0%	1.00	EA	6.181	6.18	$75.00	$463.58	$463.58	$2,309.00	$2,309.00	$2,772.58	$2,772.58
143		23 00 00	VRF INDOOR UNIT (CU-05) AH-40 Manufacturer: TRANE Model: TPEFYQ024M14H4A CFM: 880	1.00	0%	1.00	EA	6.181	6.18	$75.00	$463.58	$463.58	$2,309.00	$2,309.00	$2,772.58	$2,772.58
144		23 00 00	VRF INDOOR UNIT (CU-05) AH-41 Manufacturer: TRANE Model: TPEFYQ024M14H4A CFM: 880	1.00	0%	1.00	EA	6.181	6.18	$75.00	$463.58	$463.58	$2,309.00	$2,309.00	$2,772.58	$2,772.58
145		23 00 00	VRF INDOOR UNIT (CU-05) AH-42 Manufacturer: TRANE Model: TPEFYQ024M14H4A CFM: 880	1.00	0%	1.00	EA	6.181	6.18	$75.00	$463.58	$463.58	$2,309.00	$2,309.00	$2,772.58	$2,772.58
146		23 00 00	VRF INDOOR UNIT (CU-05) AH-43 Manufacturer: TRANE Model: TPEFYQ012M14H4A CFM: 370	1.00	0%	1.00	EA	4.844	4.84	$75.00	$363.30	$363.30	$2,855.52	$2,855.52	$3,218.82	$3,218.82
147		23 00 00	VRF INDOOR UNIT (CU-06) AH-45 Manufacturer: TRANE Model: TPEFYQ048M14H42A CFM: 1300	1.00	0%	1.00	EA	6.298	6.30	$75.00	$472.33	$472.33	$5,452.92	$5,452.92	$5,925.25	$5,925.25
148		23 00 00	VRF INDOOR UNIT (CU-06) AH-46 Manufacturer: TRANE Model: TPEFYQ048M14H42A CFM: 1300	1.00	0%	1.00	EA	6.298	6.30	$75.00	$472.33	$472.33	$5,452.92	$5,452.92	$5,925.25	$5,925.25
149		23 00 00	VRF INDOOR UNIT (CU-06) AH-47 Manufacturer: TRANE Model: TPEFYQ048M14H42A CFM: 1300	1.00	0%	1.00	EA	6.298	6.30	$75.00	$472.33	$472.33	$5,452.92	$5,452.92	$5,925.25	$5,925.25
150		23 00 00	VRF INDOOR UNIT (CU-06) AH-48 Manufacturer: TRANE Model: TPEFYQ048M14H42A CFM: 1300	1.00	0%	1.00	EA	6.298	6.30	$75.00	$472.33	$472.33	$5,452.92	$5,452.92	$5,925.25	$5,925.25
151		23 00 00	VRF INDOOR UNIT (CU-06) AH-49 Manufacturer: TRANE Model: TPEFYQ012M14H4A CFM: 370	1.00	0%	1.00	EA	4.844	4.84	$75.00	$363.30	$363.30	$2,855.52	$2,855.52	$3,218.82	$3,218.82

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152		23 00 00	VRF INDOOR UNIT (CU-06) AH-50 Manufacturer: TRANE Model: TPEFYQ018M14H4A CFM: 600	1.00	0%	1.00	EA	6.197	6.20	$75.00	$464.80	$464.80	$3,757.32	$3,757.32	$4,222.12	$4,222.12
153		23 00 00	VRF INDOOR UNIT (CU-06) AH-51 Manufacturer: TRANE Model: TPEFYQ072M1H40A CFM: 2540	1.00	0%	1.00	EA	7.511	7.51	$75.00	$563.33	$563.33	$7,120.44	$7,120.44	$7,683.77	$7,683.77
154		23 00 00	VRF INDOOR UNIT (CU-06) AH-52 Manufacturer: TRANE Model: TPEFYQ030M14H4A CFM: 880	1.00	0%	1.00	EA	6.274	6.27	$75.00	$470.58	$470.58	$4,490.64	$4,490.64	$4,961.22	$4,961.22
			Duct Silencer													
155		23 00 00	DUCT SILENCER DS-06 Manufacturer: VIBRO-ACOUSTICS Model: RD-MV-30989 CFM: 2135	1.00	0%	1.00	EA	3.278	3.28	$75.00	$245.84	$245.84	$1,357.00	$1,357.00	$1,602.84	$1,602.84
156		23 00 00	DUCT SILENCER DS-07 Manufacturer: VIBRO-ACOUSTICS Model: RD-MLV-30989 CFM: 4265	1.00	0%	1.00	EA	3.278	3.28	$75.00	$245.84	$245.84	$1,357.00	$1,357.00	$1,602.84	$1,602.84
157		23 00 00	DUCT SILENCER DS-09 Manufacturer: VIBRO-ACOUSTICS Model: RD-UHV-30989 CFM: 3430	1.00	0%	1.00	EA	3.278	3.28	$75.00	$245.84	$245.84	$1,357.00	$1,357.00	$1,602.84	$1,602.84
			VRF BRANCH SELECTOR UNIT													
158		23 00 00	VRF BRANCH SELECTOR UNIT BS-01 Manufacturer: TRANE Model: TCMBM0108FA11N4 V/PH/HZ: 208/1/60	1.00	0%	1.00	EA	7.696	7.70	$75.00	$577.22	$577.22	$12,024.72	$12,024.72	$12,601.94	$12,601.94
159		23 00 00	VRF BRANCH SELECTOR UNIT BS-02 Manufacturer: TRANE Model: TCMBM1012FA11N4 V/PH/HZ: 208/1/60	1.00	0%	1.00	EA	9.145	9.14	$75.00	$685.86	$685.86	$13,900.68	$13,900.68	$14,586.54	$14,586.54
160		23 00 00	VRF BRANCH SELECTOR UNIT BS-03 Manufacturer: TRANE Model: TCMBM0108FA11N4 V/PH/HZ: 208/1/60	1.00	0%	1.00	EA	7.696	7.70	$75.00	$577.22	$577.22	$12,024.72	$12,024.72	$12,601.94	$12,601.94
161		23 00 00	VRF BRANCH SELECTOR UNIT BS-04 Manufacturer: TRANE Model: TCMBM0108FA11N4 V/PH/HZ: 208/1/60	1.00	0%	1.00	EA	7.696	7.70	$75.00	$577.22	$577.22	$12,024.72	$12,024.72	$12,601.94	$12,601.94
162		23 00 00	VRF BRANCH SELECTOR UNIT BS-05 Manufacturer: TRANE Model: TCMBM1016JA11N4 V/PH/HZ: 208/1/60	1.00	0%	1.00	EA	9.233	9.23	$75.00	$692.44	$692.44	$18,247.68	$18,247.68	$18,940.12	$18,940.12
163		23 00 00	VRF BRANCH SELECTOR UNIT BS-06 Manufacturer: TRANE Model: TCMBM1012FA11N4 V/PH/HZ: 208/1/60	1.00	0%	1.00	EA	9.600	9.60	$75.00	$720.02	$720.02	$15,340.32	$15,340.32	$16,060.34	$16,060.34
			Baseboard Heater													

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S#	Dwg.	CSI	DESCRIPTION / SPECIFICATION	QTY.	WASTE	QTY W/ WASTE	UNIT	UNIT LABOR HR	TOTAL LABOR HR	LABOR RATE /HR	UNIT LABOR COST	TOTAL LABOR COST	UNIT MAT. COST	TOTAL MAT. COST	UNIT PRICE (L+M)	TOTAL
164		23 00 00	ELECTRIC BASEBOARD HEATER BBH-01 Manufacturer: MARKEL Model: G3715-072 Capacity (kW): 1.5	1.00	0%	1.00	EA	3.412	3.41	$75.00	$255.92	$255.92	$929.64	$929.64	$1,185.56	$1,185.56
165		23 00 00	ELECTRIC BASEBOARD HEATER BBH-02,03 Manufacturer: MARKEL Model: G3710-048 Capacity (kW): 1.0	2.00	0%	2.00	EA	3.214	6.43	$75.00	$241.08	$482.16	$423.00	$846.00	$664.08	$1,328.16
166		23 00 00	ELECTRIC BASEBOARD HEATER BBH-04,05 Manufacturer: MARKEL Model: G3710-048 Capacity (kW): 1.0	2.00	0%	2.00	EA	3.214	6.43	$75.00	$241.08	$482.16	$423.00	$846.00	$664.08	$1,328.16
167		23 00 00	INTAKE HOOD IH-1 Manufacturer: GREENHECK Model: GRSI-18 CFM: 800	1.00	0%	1.00	EA	2.951	2.95	$75.00	$221.34	$221.34	$482.00	$482.00	$703.34	$703.34
168		23 00 00	ELECTRIC UNIT HEATER EUH-01 Manufacturer: MARKEL Model: HF1B5103N Capacity (kW): 2.5	1.00	0%	1.00	EA	2.705	2.70	$75.00	$202.86	$202.86	$750.00	$750.00	$952.86	$952.86
169		23 00 00	LOUVER L-1 Manufacturer: GREENHECK Model: ESD-635-16x20 CFM: 365	1.00	0%	1.00	EA	2.677	2.68	$75.00	$200.76	$200.76	$635.00	$635.00	$835.76	$835.76
			Supply Diffuser													
170		23 00 00	7'' Concentric Vent	10.98	5%	11.53	LF	0.147	1.69	$75.00	$11.00	$126.82	$21.00	$242.11	$32.00	$368.93
171		23 00 00	S2 10'' (300 CFM) MFG: CAPTIVAIRE Model: DI-PSP	5.00	0%	5.00	EA	2.608	13.04	$75.00	$195.58	$977.90	$298.54	$1,492.70	$494.12	$2,470.60
172		23 00 00	S3 24 x 10 740 CFM Manufacturer: PRICE Model: 520 Type: SIDEWALL	11.00	0%	11.00	EA	1.381	15.19	$75.00	$103.60	$1,139.60	$41.00	$451.00	$144.60	$1,590.60
173		23 00 00	S4 Supply Diffuser Manufacturer: PRICE Model: SDS-100 Type: LINEAR SLOT	8.00	0%	8.00	EA	2.231	17.85	$75.00	$167.30	$1,338.40	$196.00	$1,568.00	$363.30	$2,906.40
174		23 00 00	S7 10'' (360 CFM) Manufacturer: PRICE Model: ND Type: NOZZLE DIFFUSER	6.00	0%	6.00	EA	2.608	15.65	$75.00	$195.58	$1,173.48	$395.83	$2,375.00	$591.41	$3,548.48
175		23 00 00	Supply Diffuser Manufacturer: PRICE Model: 535 Type: LOUVERED	9.00	0%	9.00	EA	1.605	14.45	$75.00	$120.40	$1,083.60	$61.00	$549.00	$181.40	$1,632.60
176		23 00 00	S1 (8'') 150 CFM Manufacturer: PRICE Model: SCD Type: LOUVERED	30.00	0%	30.00	EA	1.936	58.07	$75.00	$145.18	$4,355.40	$138.00	$4,140.00	$283.18	$8,495.40
177		23 00 00	S1 (8'') 210 CFM Manufacturer: PRICE Model: SCD Type: LOUVERED	61.00	0%	61.00	EA	1.936	118.08	$75.00	$145.18	$8,855.98	$138.00	$8,418.00	$283.18	$17,273.98
178		23 00 00	S1 (6'')100 CFM Manufacturer: PRICE Model: SCD Type: LOUVERED	17.00	0%	17.00	EA	1.936	32.91	$75.00	$145.18	$2,468.06	$138.00	$2,346.00	$283.18	$4,814.06

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179		23 00 00	S1 (10") 325 CFM Manufacturer: PRICE Model: SCD Type: LOUVERED	3.00	0%	3.00	EA	1.936	5.81	$75.00	$145.18	$435.54	$138.00	$414.00	$283.18	$849.54
180		23 00 00	S1 8'' 175 CFM Manufacturer: PRICE Model: SCD Type: LOUVERED	18.00	0%	18.00	EA	1.936	34.84	$75.00	$145.18	$2,613.24	$138.00	$2,484.00	$283.18	$5,097.24
181		23 00 00	S1 (8'') 110 CFM Manufacturer: PRICE Model: SCD Type: LOUVERED	10.00	0%	10.00	EA	1.936	19.36	$75.00	$145.18	$1,451.80	$138.00	$1,380.00	$283.18	$2,831.80
182		23 00 00	S1 (8'') 120 CFM Manufacturer: PRICE Model: SCD Type: LOUVERED	28.00	0%	28.00	EA	1.936	54.20	$75.00	$145.18	$4,065.04	$138.00	$3,864.00	$283.18	$7,929.04
183		23 00 00	S1 (6'') 100 CFM Manufacturer: PRICE Model: SCD Type: LOUVERED	10.00	0%	10.00	EA	1.936	19.36	$75.00	$145.18	$1,451.80	$138.00	$1,380.00	$283.18	$2,831.80
184		23 00 00	S1 (10'') 250 CFM Manufacturer: PRICE Model: SCD Type: LOUVERED	24.00	0%	24.00	EA	1.936	46.46	$75.00	$145.18	$3,484.32	$138.00	$3,312.00	$283.18	$6,796.32
185		23 00 00	S1 (8'') 205 CFM Manufacturer: PRICE Model: SCD Type: LOUVERED	29.00	0%	29.00	EA	1.936	56.14	$75.00	$145.18	$4,210.22	$138.00	$4,002.00	$283.18	$8,212.22
186		23 00 00	S1 (8'') 185 CFM Manufacturer: PRICE Model: SCD Type: LOUVERED	5.00	0%	5.00	EA	1.936	9.68	$75.00	$145.18	$725.90	$138.00	$690.00	$283.18	$1,415.90
187		23 00 00	S1 10'' 430 (CFM) Manufacturer: PRICE Model: SCD Type: LOUVERED	6.00	0%	6.00	EA	1.936	11.61	$75.00	$145.18	$871.08	$138.00	$828.00	$283.18	$1,699.08
188		23 00 00	S1 6'' (50 CFM) Manufacturer: PRICE Model: SCD Type: LOUVERED	15.00	0%	15.00	EA	1.936	29.04	$75.00	$145.18	$2,177.70	$138.00	$2,070.00	$283.18	$4,247.70
189		23 00 00	S1 (10'') 310 CFM Manufacturer: PRICE Model: SCD Type: LOUVERED	16.00	0%	16.00	EA	1.936	30.97	$75.00	$145.18	$2,322.88	$138.00	$2,208.00	$283.18	$4,530.88
190		23 00 00	S1 (8'') 200 CFM Manufacturer: PRICE Model: SCD Type: LOUVERED	13.00	0%	13.00	EA	1.936	25.16	$75.00	$145.18	$1,887.34	$138.00	$1,794.00	$283.18	$3,681.34
191		23 00 00	S1 (6'') 40 CFM Manufacturer: PRICE Model: SCD Type: LOUVERED	17.00	0%	17.00	EA	1.936	32.91	$75.00	$145.18	$2,468.06	$138.00	$2,346.00	$283.18	$4,814.06
192		23 00 00	S1 (4'') 25 CFM Manufacturer: PRICE Model: SCD Type: LOUVERED	10.00	0%	10.00	EA	1.936	19.36	$75.00	$145.18	$1,451.80	$138.00	$1,380.00	$283.18	$2,831.80
193		23 00 00	S1 4''(50 CFM) Manufacturer: PRICE Model: SCD Type: LOUVERED	3.00	0%	3.00	EA	1.936	5.81	$75.00	$145.18	$435.54	$138.00	$414.00	$283.18	$849.54
194		23 00 00	S1 6'' (100 CFM) Manufacturer: PRICE Model: SCD Type: LOUVERED	3.00	0%	3.00	EA	1.936	5.81	$75.00	$145.18	$435.54	$138.00	$414.00	$283.18	$849.54

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195		23 00 00	S1 (8") 200 CFM Manufacturer: PRICE Model: SCD Type: LOUVERED	7.00	0%	7.00	EA	1.936	13.55	$75.00	$145.18	$1,016.26	$138.00	$966.00	$283.18	$1,982.26
			Return Air Grill													
196		23 00 00	22 x 22 Return Air Grill	57.00	0%	57.00	EA	1.508	85.97	$75.00	$113.12	$6,447.84	$109.78	$6,257.46	$222.90	$12,705.30
197		23 00 00	60x48 Return Air Grill	3.00	0%	3.00	EA	2.860	8.58	$75.00	$214.48	$643.44	$432.00	$1,296.00	$646.48	$1,939.44
198		23 00 00	36 x 12 Return Air Grill	1.00	0%	1.00	EA	1.452	1.45	$75.00	$108.92	$108.92	$179.64	$179.64	$288.56	$288.56
199		23 00 00	22 x 10 Return Air Grill	22.00	0%	22.00	EA	1.419	31.21	$75.00	$106.40	$2,340.80	$61.49	$1,352.78	$167.89	$3,693.58
200		23 00 00	10 x 22 Return Air Duct	1.00	0%	1.00	EA	1.419	1.42	$75.00	$106.40	$106.40	$61.49	$61.49	$167.89	$167.89
201		23 00 00	E1 22x 22 (250 CFM) Manufacturer: PRICE Model: 535FF Type: LOUVERED	8.00	0%	8.00	EA	1.505	12.04	$75.00	$112.84	$902.72	$107.25	$858.00	$220.09	$1,760.72
202		23 00 00	E1 22x 22 (850 CFM) Manufacturer: PRICE Model: 535FF Type: LOUVERED	4.00	0%	4.00	EA	1.505	6.02	$75.00	$112.84	$451.36	$107.25	$429.00	$220.09	$880.36
203		23 00 00	E1 22x 22 (110CFM) Manufacturer: PRICE Model: 535FF Type: LOUVERED	1.00	0%	1.00	EA	1.505	1.50	$75.00	$112.84	$112.84	$107.25	$107.25	$220.09	$220.09
204		23 00 00	E1 22x 22 (150 CFM) Manufacturer: PRICE Model: 535FF Type: LOUVERED	3.00	0%	3.00	EA	1.505	4.51	$75.00	$112.84	$338.52	$107.25	$321.75	$220.09	$660.27
205		23 00 00	E1 22x 10 (255 CFM) Manufacturer: PRICE Model: 535FF Type: LOUVERED	6.00	0%	6.00	EA	1.383	8.30	$75.00	$103.74	$622.44	$87.75	$526.50	$191.49	$1,148.94
206		23 00 00	E1 10 x 10 (90 CFM) Manufacturer: PRICE Model: 535FF Type: LOUVERED	10.00	0%	10.00	EA	1.383	13.83	$75.00	$103.74	$1,037.40	$58.50	$585.00	$162.24	$1,622.40
207		23 00 00	E1 6x 6 (25 CFM) Manufacturer: PRICE Model: 535FF Type: LOUVERED	2.00	0%	2.00	EA	1.370	2.74	$75.00	$102.76	$205.52	$35.10	$70.20	$137.86	$275.72
208		23 00 00	E1 22x 22 (655 CFM) Manufacturer: PRICE Model: 535FF Type: LOUVERED	4.00	0%	4.00	EA	1.505	6.02	$75.00	$112.84	$451.36	$107.25	$429.00	$220.09	$880.36
			VRF AIR-COOLED CONDENSING UNIT													
209		23 00 00	VRF AIR-COOLED CONDENSING UNIT CU-01 Manufacturer: TRANE Model: TURYE2884BN40AN Refrigerant Type: R-410A	1.00	0%	1.00	EA	46.667	46.67	$75.00	$3,500.00	$3,500.00	$39,034.41	$39,034.41	$42,534.41	$42,534.41
210		23 00 00	VRF AIR-COOLED CONDENSING UNIT CU-02 Manufacturer: TRANE Model: TURYE2884BN40AN Refrigerant Type: R-410A	1.00	0%	1.00	EA	46.667	46.67	$75.00	$3,500.00	$3,500.00	$39,034.41	$39,034.41	$42,534.41	$42,534.41
211		23 00 00	VRF AIR-COOLED CONDENSING UNIT CU-03 Manufacturer: TRANE Model: TURYE2404BN40AN Refrigerant Type: R-410A	1.00	0%	1.00	EA	40.000	40.00	$75.00	$3,000.00	$3,000.00	$32,537.70	$32,537.70	$35,537.70	$35,537.70
212		23 00 00	VRF AIR-COOLED CONDENSING UNIT CU-04 Manufacturer: TRANE Model: TURYE2164BN40AN Refrigerant Type: R-410A	1.00	0%	1.00	EA	35.383	35.38	$75.00	$2,653.70	$2,653.70	$30,369.06	$30,369.06	$33,022.76	$33,022.76

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213		23 00 00	VRF AIR-COOLED CONDENSING UNIT CU-05 Manufacturer: TRANE Model: TURYE2884BN40AN Refrigerant Type: R-410A	1.00	0%	1.00	EA	46.667	46.67	$75.00	$3,500.00	$3,500.00	$39,034.41	$39,034.41	$42,534.41	$42,534.41
214		23 00 00	VRF AIR-COOLED CONDENSING UNIT CU-06 Manufacturer: TRANE Model: TURYE2884BN40AN Refrigerant Type: R-410A	1.00	0%	1.00	EA	46.667	46.67	$75.00	$3,500.00	$3,500.00	$39,034.41	$39,034.41	$42,534.41	$42,534.41
			GAS-FIRED UNIT HEATER													
215		23 00 00	GAS-FIRED UNIT HEATER UH-01, -02 Manufacturer: STERLING Model: GG-30 CFM: 370	2.00	0%	2.00	EA	4.039	8.08	$75.00	$302.96	$605.92	$1,165.00	$2,330.00	$1,467.96	$2,935.92
216		23 00 00	GAS-FIRED UNIT HEATER UH-03 Manufacturer: STERLING Model: GG-30 CFM: 370	1.00	0%	1.00	EA	4.039	4.04	$75.00	$302.96	$302.96	$1,165.00	$1,165.00	$1,467.96	$1,467.96
			Roof Top Unit													
217		23 00 00	BUILDING PRESSURIZATION Unit: RTU-01 CFM: 1,500 (O/A), 1,200 (E/A)	1.00	0%	1.00	EA	9.882	9.88	$75.00	$741.16	$741.16	$4,860.20	$4,860.20	$5,601.36	$5,601.36
218		23 00 00	BUILDING PRESSURIZATION Unit: RTU-02 CFM: 1,500 (O/A), 1,200 (E/A)	1.00	0%	1.00	EA	9.882	9.88	$75.00	$741.16	$741.16	$4,860.20	$4,860.20	$5,601.36	$5,601.36
219		23 00 00	BUILDING PRESSURIZATION Unit: RTU-03 CFM: 2,530 (E/A)	1.00	0%	1.00	EA	11.594	11.59	$75.00	$869.54	$869.54	$8,313.50	$8,313.50	$9,183.04	$9,183.04
220		23 00 00	BUILDING PRESSURIZATION Unit: RTU-04 CFM: 400 (E/A)	1.00	0%	1.00	EA	7.760	7.76	$75.00	$581.98	$581.98	$2,558.00	$2,558.00	$3,139.98	$3,139.98
			Outdoor Air Unit													
221		23 00 00	BUILDING PRESSURIZATION Unit: DOAU-01 CFM: 3,760 (O/A), 2,920 (E/A)	1.00	0%	1.00	EA	12.193	12.19	$75.00	$914.48	$914.48	$10,465.02	$10,465.02	$11,379.50	$11,379.50
222		23 00 00	BUILDING PRESSURIZATION Unit: DOAU-02 CFM: 6,400 (O/A), 6,250 (E/A)	1.00	0%	1.00	EA	17.567	17.57	$75.00	$1,317.54	$1,317.54	$17,812.80	$17,812.80	$19,130.34	$19,130.34
223		23 00 00	BUILDING PRESSURIZATION Unit: DOAU-03 CFM: 970 (O/A), 950 (E/A)	1.00	0%	1.00	EA	9.778	9.78	$75.00	$733.32	$733.32	$3,339.90	$3,339.90	$4,073.22	$4,073.22
224		23 00 00	BUILDING PRESSURIZATION Unit: DOAU-04 CFM: 3,430 (O/A), 3,375 (E/A)	1.00	0%	1.00	EA	11.607	11.61	$75.00	$870.52	$870.52	$10,019.70	$10,019.70	$10,890.22	$10,890.22
			Exhaust Fan													
225		23 00 00	FAN EF-01 Manufacturer: GREENHECK Model: CUE-090-E CFM: 365	3.00	0%	3.00	EA	3.011	9.03	$75.00	$225.82	$677.46	$814.00	$2,442.00	$1,039.82	$3,119.46
226		23 00 00	FAN EF-02 Manufacturer: GREENHECK Model: AE-12-433-A CFM: 1000	3.00	0%	3.00	EA	3.175	9.53	$75.00	$238.14	$714.42	$902.00	$2,706.00	$1,140.14	$3,420.42
			Miscellaneous													
227		23 00 00	KITCHEN HOOD KH-1, -2, -3, -4, -5, -6 Manufacturer: DENLAR Model: D1030-F-NFPA CFM: 216–514	6.00	0%	6.00	EA	6.401	38.40	$75.00	$480.06	$2,880.36	$3,640.00	$21,840.00	$4,120.06	$24,720.36

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228		23 00 00	BUILDING PRESSURIZATION Unit: KEF-1 CFM: 1,500 (E/A)	1.00	0%	1.00	EA	3.168	3.17	$75.00	$237.58	$237.58	$1,397.99	$1,397.99	$1,635.57	$1,635.57
229		23 00 00	BUILDING PRESSURIZATION Unit: KEF-2 Manufacturer: Greenheck Model: SQ - 100 - VG CFM: 1,500 (E/A)	1.00	0%	1.00	EA	3.078	3.08	$75.00	$230.86	$230.86	$1,950.00	$1,950.00	$2,180.86	$2,180.86
230		23 00 00	BUILDING PRESSURIZATION Unit: DEF-1 CFM: 450 (E/A)	1.00	0%	1.00	EA	2.707	2.71	$75.00	$203.00	$203.00	$755.00	$755.00	$958.00	$958.00
231		23 00 00	BUILDING PRESSURIZATION Unit: MAU-1 CFM: 2,400 (E/A)	1.00	0%	1.00	EA	11.202	11.20	$75.00	$840.14	$840.14	$8,002.42	$8,002.42	$8,842.56	$8,842.56
232		23 00 00	Thermostat	55.00	0%	55.00	EA	1.360	74.80	$75.00	$102.00	$5,610.00	$122.00	$6,710.00	$224.00	$12,320.00
233		23 00 00	Smoke Detector	7.00	0%	7.00	EA	1.904	13.33	$75.00	$142.80	$999.60	$155.00	$1,085.00	$297.80	$2,084.60
			Ductless Mini Split I													
234		23 00 00	Indoor Unit MFG: MITSUBISHI Model: TPKA0A0301KA70A	4.00	0%	4.00	EA	4.585	18.34	$75.00	$343.84	$1,375.36	$2,557.44	$10,229.76	$2,901.28	$11,605.12
235		23 00 00	Indoor Unit MFG: MITSUBISHI Model: TPKA0A08LA00A	4.00	0%	4.00	EA	4.170	16.68	$75.00	$312.76	$1,251.04	$1,735.56	$6,942.24	$2,048.32	$8,193.28
236		23 00 00	Indoor Unit MFG: MITSUBISHI Model: TPKA0A024KA70A	1.00	0%	1.00	EA	4.409	4.41	$75.00	$330.68	$330.68	$2,363.04	$2,363.04	$2,693.72	$2,693.72
237		23 00 00	Indoor Unit MFG: MITSUBISHI Model: TPKA0A0361KA70A	1.00	0%	1.00	EA	4.943	4.94	$75.00	$370.72	$370.72	$3,068.93	$3,068.93	$3,439.65	$3,439.65
238		23 00 00	Out Door Unit MFG: MITSUBISHI Model: TRUYA0301HA70BA	4.00	0%	4.00	EA	4.585	18.34	$75.00	$343.84	$1,375.36	$2,557.44	$10,229.76	$2,901.28	$11,605.12
239		23 00 00	Out Door Unit MFG: MITSUBISHI Model: TRUYA0181KA70BA	4.00	0%	4.00	EA	4.166	16.67	$75.00	$312.48	$1,249.92	$2,034.72	$8,138.88	$2,347.20	$9,388.80
240		23 00 00	Out Door Unit MFG: MITSUBISHI Model: TRUYA241HA70NA	1.00	0%	1.00	EA	4.409	4.41	$75.00	$330.68	$330.68	$2,363.04	$2,363.04	$2,693.72	$2,693.72
241		23 00 00	Out Door Unit MFG: MITSUBISHI Model: TRUYA0361KA70NA	1.00	0%	1.00	EA	4.943	4.94	$75.00	$370.72	$370.72	$3,068.93	$3,068.93	$3,439.65	$3,439.65
			DUCT													
242		23 00 00	(10"dia) Duct	61.05	5%	64.10	LF	0.149	9.57	$75.00	$11.20	$717.95	$2.98	$190.77	$14.18	$908.72
243		23 00 00	(12"dia) Duct SA	6.19	5%	6.50	LF	0.234	1.52	$75.00	$17.58	$114.29	$8.40	$54.58	$25.98	$168.87
244		23 00 00	(14"dia) Duct SA	11.82	5%	12.41	LF	0.224	2.78	$75.00	$16.80	$208.50	$6.70	$83.10	$23.50	$291.61
245		23 00 00	(10"dia) SA	8.89	5%	9.33	LF	0.224	2.09	$75.00	$16.80	$156.82	$6.70	$62.50	$23.50	$219.32
246		23 00 00	(8"dia) Duct	8.74	5%	9.18	LF	0.224	2.06	$75.00	$16.80	$154.17	$6.70	$61.45	$23.50	$215.62
247		23 00 00	(8"dia) Duct EA	15.39	5%	16.16	LF	0.224	3.62	$75.00	$16.80	$271.48	$6.70	$108.20	$23.50	$379.68
248		23 00 00	(6"dia) Duct	11.33	5%	11.90	LF	0.299	3.55	$75.00	$22.40	$266.48	$11.90	$141.62	$34.30	$408.10
249		23 00 00	(10"x8") Duct RA	7.49	5%	7.86	LF	0.299	2.35	$75.00	$22.40	$176.16	$11.90	$93.62	$34.30	$269.78
250		23 00 00	(18"x14") Duct RA	6.79	5%	7.13	LF	0.336	2.40	$75.00	$25.20	$179.66	$14.88	$106.09	$40.08	$285.75
251		23 00 00	(24"x10") Duct RA	8.29	5%	8.70	LF	0.261	2.27	$75.00	$19.60	$170.61	$8.93	$77.71	$28.53	$248.32
252		23 00 00	(10"x10") Duct EA	22.54	5%	23.67	LF	0.299	7.07	$75.00	$22.40	$530.14	$11.90	$281.73	$34.30	$811.87
253		23 00 00	(10"x10") Duct OA	28.51	5%	29.94	LF	0.336	10.06	$75.00	$25.20	$754.37	$14.88	$445.44	$40.08	$1,199.81
254		23 00 00	(8"x10") Duct SA	4.27	5%	4.48	LF	0.373	1.67	$75.00	$28.00	$125.54	$18.60	$83.39	$46.60	$208.93
255		23 00 00	(10"x8") Duct RA	5.39	5%	5.66	LF	0.373	2.11	$75.00	$28.00	$158.47	$18.60	$105.27	$46.60	$263.73
256		23 00 00	(12"x16") Duct SA	6.63	5%	6.96	LF	0.373	2.60	$75.00	$28.00	$194.92	$18.60	$129.48	$46.60	$324.41
257		23 00 00	(16"x16") Duct SA	10.63	5%	11.16	LF	0.373	4.17	$75.00	$28.00	$312.52	$18.60	$207.60	$46.60	$520.13
258		23 00 00	(18"x16") Duct RA	14.83	5%	15.57	LF	0.336	5.23	$75.00	$25.20	$392.40	$14.88	$231.70	$40.08	$624.11
259		23 00 00	(8"x6") Duct EA	37.63	5%	39.51	LF	0.411	16.23	$75.00	$30.80	$1,216.95	$22.32	$881.90	$53.12	$2,098.85
260		23 00 00	(6"dia) Duct OA	22.01	5%	23.11	LF	0.299	6.90	$75.00	$22.40	$517.68	$11.16	$257.91	$33.56	$775.59

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S#	Dwg.	CSI	DESCRIPTION / SPECIFICATION	QTY.	WASTE	QTY W/ WASTE	UNIT	UNIT LABOR HR	TOTAL LABOR HR	LABOR RATE /HR	UNIT LABOR COST	TOTAL LABOR COST	UNIT MAT. COST	TOTAL MAT. COST	UNIT PRICE (L+M)	TOTAL
			Duct Material : SMACNA, Galvanized Steel													
261		23 00 00	1'' thyk Fiberglass duct wrap/ Insulation of Duct	917.00	5%	962.85	LF	0.299	287.57	$75.00	$22.40	$21,567.84	$11.16	$10,745.41	$33.56	$32,313.25
			Mechanical Pipes													
262		23 00 00	3/4'' RS Copper Pipes	50.51	5%	53.04	LF	0.149	7.92	$75.00	$11.20	$594.00	$2.98	$157.83	$14.18	$751.83
263		23 00 00	5/8'' RL Copper Pipes	50.51	5%	53.04	LF	0.234	12.43	$75.00	$17.58	$932.58	$8.40	$445.39	$25.98	$1,377.97
264		23 00 00	Armaflex 3/4'' RS Copper Pipes / Insulation	50.51	5%	53.04	LF	0.224	11.88	$75.00	$16.80	$891.00	$6.70	$355.13	$23.50	$1,246.12
265		23 00 00	Armaflex 5/8'' RL Copper Pipes / Insulation	50.51	5%	53.04	LF	0.224	11.88	$75.00	$16.80	$891.00	$6.70	$355.13	$23.50	$1,246.12
			Condensate Pipes													
266		23 00 00	3/4''dia Condensate Pipes	13.56	5%	14.24	LF	0.149	2.13	$75.00	$11.20	$159.47	$2.98	$42.37	$14.18	$201.84
			Supply Diffuser													
267		23 00 00	S 1 Manuf : Price Model : SCD	9.00	0%	9.00	EA	2.608	23.47	$75.00	$195.58	$1,760.22	$298.54	$2,686.86	$494.12	$4,447.08
268		23 00 00	E 1 Manuf : Price Model : 535	2.00	0%	2.00	EA	1.381	2.76	$75.00	$103.60	$207.20	$41.00	$82.00	$144.60	$289.20
269		23 00 00	E 2 Manuf : Price Model : 535	1.00	0%	1.00	EA	2.231	2.23	$75.00	$167.30	$167.30	$196.00	$196.00	$363.30	$363.30
270		23 00 00	R 1 Manuf : Price Model : 535	4.00	0%	4.00	EA	2.608	10.43	$75.00	$195.58	$782.32	$395.83	$1,583.33	$591.41	$2,365.65
			Louvers													
271		23 00 00	L 4 Manuf : Greenheck Model : ESD-636-12X12	2.00	0%	2.00	EA	2.608	5.22	$75.00	$195.58	$391.16	$298.54	$597.08	$494.12	$988.24
272		23 00 00	L 3 Manuf : Greenheck Model : ESD-636-12X12	1.00	0%	1.00	EA	1.381	1.38	$75.00	$103.60	$103.60	$41.00	$41.00	$144.60	$144.60
273		23 00 00	L 1 Manuf : Greenheck Model : ESD-636-28X28	1.00	0%	1.00	EA	2.231	2.23	$75.00	$167.30	$167.30	$196.00	$196.00	$363.30	$363.30
			Dampers													
274		23 00 00	Motorized Damper	5.00	0%	5.00	EA	2.608	13.04	$75.00	$195.58	$977.90	$298.54	$1,492.70	$494.12	$2,470.60
275		23 00 00	Volume Damper	10.00	0%	10.00	EA	1.381	13.81	$75.00	$103.60	$1,036.00	$41.00	$410.00	$144.60	$1,446.00
			GAS-FIRED UNIT HEATER													
276		23 00 00	UH 4 Manuf : Sterling Model : CG-30	1.00	0%	1.00	EA	4.039	4.04	$75.00	$302.96	$302.96	$1,165.00	$1,165.00	$1,467.96	$1,467.96
277		23 00 00	UH 3 Manuf : Sterling Model : CG-30	1.00	0%	1.00	EA	4.039	4.04	$75.00	$302.96	$302.96	$1,165.00	$1,165.00	$1,467.96	$1,467.96
278		23 00 00	UH 1 Manuf : Sterling Model : CG-30	1.00	0%	1.00	EA	4.039	4.04	$75.00	$302.96	$302.96	$1,165.00	$1,165.00	$1,467.96	$1,467.96
279		23 00 00	UH 2 Manuf : Sterling Model : CG-30	1.00	0%	1.00	EA	4.039	4.04	$75.00	$302.96	$302.96	$1,165.00	$1,165.00	$1,467.96	$1,467.96
			Electric Unit Heater													
280		23 00 00	EUH 1,2 Manuf : Markel Model : H1HUH05C03	2.00	0%	2.00	EA	9.882	19.76	$75.00	$741.16	$1,482.32	$4,860.20	$9,720.40	$5,601.36	$11,202.72
281		23 00 00	EUH 3,4,5 Manuf : Markel Model : HF1B5103N	3.00	0%	3.00	EA	9.882	29.65	$75.00	$741.16	$2,223.48	$4,860.20	$14,580.60	$5,601.36	$16,804.08
			Exhaust Fan													
282		23 00 00	EF 1 Manuf : Greenheck Model : CUE-095-VG	1.00	0%	1.00	EA	3.011	3.01	$75.00	$225.82	$225.82	$814.00	$814.00	$1,039.82	$1,039.82
283		23 00 00	EF 2 Manuf : Greenheck Model : CUE-070-VG	1.00	0%	1.00	EA	3.175	3.18	$75.00	$238.14	$238.14	$902.00	$902.00	$1,140.14	$1,140.14

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284		23 00 00	EF 3 Manuf : Greenheck Model : CUE-070-VG	1.00	0%	1.00	EA	3.011	3.01	$75.00	$225.82	$225.82	$814.00	$814.00	$1,039.82	$1,039.82
285		23 00 00	EF 7 Manuf : Greenheck Model : CUE-090-VG	1.00	0%	1.00	EA	3.175	3.18	$75.00	$238.14	$238.14	$902.00	$902.00	$1,140.14	$1,140.14
286		23 00 00	EF 6 Manuf : Greenheck Model : CUE-070-VG	1.00	0%	1.00	EA	3.011	3.01	$75.00	$225.82	$225.82	$814.00	$814.00	$1,039.82	$1,039.82
287		23 00 00	EF 4-5 Manuf : Greenheck Model : SP-LP0511-1	2.00	0%	2.00	EA	3.175	6.35	$75.00	$238.14	$476.28	$902.00	$1,804.00	$1,140.14	$2,280.28
			Miscellaneous													
288		23 00 00	Thermostat	2.00	0%	2.00	EA	6.401	12.80	$75.00	$480.06	$960.12	$3,640.00	$7,280.00	$4,120.06	$8,240.12
289		23 00 00	Co Sensor	1.00	0%	1.00	EA	3.168	3.17	$75.00	$237.58	$237.58	$1,397.99	$1,397.99	$1,635.57	$1,635.57
290		23 00 00	NOx Sensor	1.00	0%	1.00	EA	3.078	3.08	$75.00	$230.86	$230.86	$1,950.00	$1,950.00	$2,180.86	$2,180.86
291		23 00 00	Duct Cap with BirdScreen	2.00	0%	2.00	EA	2.707	5.41	$75.00	$203.00	$406.00	$755.00	$1,510.00	$958.00	$1,916.00
292		23 00 00	Weather Scoop and Insect Screen	1.00	0%	1.00	EA	11.202	11.20	$75.00	$840.14	$840.14	$8,002.42	$8,002.42	$8,842.56	$8,842.56
293		23 00 00	Condensate Pump	1.00	0%	1.00	EA	1.360	1.36	$75.00	$102.00	$102.00	$122.00	$122.00	$224.00	$224.00
294		23 00 00	BAS Panel	1.00	0%	1.00	EA	1.904	1.90	$75.00	$142.80	$142.80	$155.00	$155.00	$297.80	$297.80
			Mini Split Unit													
295		23 00 00	IDU 1 Manuf : Mitsubishi Model : TPKA0A0241KA70A	4.00	0%	4.00	EA	4.585	18.34	$75.00	$343.84	$1,375.36	$2,557.44	$10,229.76	$2,901.28	$11,605.12
296		23 00 00	ODU 1 Manuf : Mitsubishi Model : TRUYA0241HA70NA	4.00	0%	4.00	EA	4.170	16.68	$75.00	$312.76	$1,251.04	$1,735.56	$6,942.24	$2,048.32	$8,193.28
297		23 00 00	F 1 Manuf : TRANE Model : 4XCD010DS3+S9V2D120U5PS	1.00	0%	1.00	EA	4.409	4.41	$75.00	$330.68	$330.68	$2,363.04	$2,363.04	$2,693.72	$2,693.72
298		23 00 00	CU 1 Manuf : TRANE Model : 4TTR6060N1	1.00	0%	1.00	EA	4.943	4.94	$75.00	$370.72	$370.72	$3,068.93	$3,068.93	$3,439.65	$3,439.65
			DUCT													
299		23 00 00	(8"x8") Duct SA	47.03	5%	49.38	LF	0.149	7.37	$75.00	$11.20	$553.07	$2.98	$146.96	$14.18	$700.03
300		23 00 00	(6"x6") Duct	18.14	5%	19.05	LF	0.234	4.47	$75.00	$17.58	$334.92	$8.40	$159.96	$25.98	$494.88
301		23 00 00	(10"x4") Duct	3.67	5%	3.85	LF	0.224	0.86	$75.00	$16.80	$64.74	$6.70	$25.80	$23.50	$90.54
302		23 00 00	(10"x10") Duct SA	14.65	5%	15.38	LF	0.224	3.45	$75.00	$16.80	$258.43	$6.70	$103.00	$23.50	$361.43
303		23 00 00	(10"x8") Duct	10.02	5%	10.52	LF	0.224	2.36	$75.00	$16.80	$176.75	$6.70	$70.45	$23.50	$247.20
304		23 00 00	(12"x10") Duct	9.11	5%	9.57	LF	0.224	2.14	$75.00	$16.80	$160.70	$6.70	$64.05	$23.50	$224.75
305		23 00 00	(16"x12") Duct	6.86	5%	7.20	LF	0.299	2.15	$75.00	$22.40	$161.35	$11.90	$85.74	$34.30	$247.09
306		23 00 00	(10"dia) Duct	6.00	5%	6.30	LF	0.299	1.88	$75.00	$22.40	$141.12	$11.90	$75.00	$34.30	$216.12
			Duct Material : SMACNA, Galvanized Steel													
307		23 00 00	1" thyk Fiberglass duct wrap/ Insulation of Duct	351.00	5%	368.55	LF	0.299	110.07	$75.00	$22.40	$8,255.52	$11.16	$4,113.02	$33.56	$12,368.54
			Mechanical Pipes													
308		23 00 00	3/4" RS Copper Pipes	49.44	5%	51.91	LF	0.149	7.75	$75.00	$11.20	$581.41	$2.98	$154.49	$14.18	$735.90
309		23 00 00	5/8" RL Copper Pipes	49.44	5%	51.91	LF	0.234	12.17	$75.00	$17.58	$912.82	$8.40	$435.96	$25.98	$1,348.78
310		23 00 00	Armaflex 3/4" RS Copper Pipes / Insulation	49.44	5%	51.91	LF	0.224	11.63	$75.00	$16.80	$872.12	$6.70	$347.60	$23.50	$1,219.72
311		23 00 00	Armaflex 5/8" RL Copper Pipes / Insulation	49.44	5%	51.91	LF	0.224	11.63	$75.00	$16.80	$872.12	$6.70	$347.60	$23.50	$1,219.72
			Supply Diffuser													
312		23 00 00	S 1 Manuf : Price Model : SCD	8.00	0%	8.00	EA	2.608	20.86	$75.00	$195.58	$1,564.64	$298.54	$2,388.32	$494.12	$3,952.96
			Exhaust Fan													
313		23 00 00	EF 1 Manuf : Greenheck Model : CUE-095-VG	1.00	0%	1.00	EA	3.011	3.01	$75.00	$225.82	$225.82	$814.00	$814.00	$1,039.82	$1,039.82
			Miscellaneous													
314		23 00 00	Weather Wall Insect Screen	1.00	0%	1.00	EA	6.401	6.40	$75.00	$480.06	$480.06	$3,640.00	$3,640.00	$4,120.06	$4,120.06
315		23 00 00	Thermostat	1.00	0%	1.00	EA	3.168	3.17	$75.00	$237.58	$237.58	$1,397.99	$1,397.99	$1,635.57	$1,635.57

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316		23 00 00	Duct Cap	1.00	0%	1.00	EA	3.078	3.08	$75.00	$230.86	$230.86	$1,950.00	$1,950.00	$2,180.86	$2,180.86
			Mini Split Unit													
317		23 00 00	F 1 Manuf : TRANE Model : 4XCD010DS3+S9V2D120U5PS	1.00	0%	1.00	EA	4.409	4.41	$75.00	$330.68	$330.68	$2,363.04	$2,363.04	$2,693.72	$2,693.72
318		23 00 00	CU 1 Manuf : TRANE Model : 4TTR6060N1	1.00	0%	1.00	EA	4.943	4.94	$75.00	$370.72	$370.72	$3,068.93	$3,068.93	$3,439.65	$3,439.65
			DUCT													
319		23 00 00	(8"x8") Duct SA	47.87	5%	50.26	LF	0.149	7.51	$75.00	$11.20	$562.95	$2.98	$149.58	$14.18	$712.54
320		23 00 00	(12"x6") Duct	5.04	5%	5.29	LF	0.234	1.24	$75.00	$17.58	$93.05	$8.40	$44.44	$25.98	$137.50
321		23 00 00	(6"x6") Duct	6.69	5%	7.02	LF	0.224	1.57	$75.00	$16.80	$118.01	$6.70	$47.04	$23.50	$165.05
322		23 00 00	(10"x8") Duct	6.32	5%	6.64	LF	0.224	1.49	$75.00	$16.80	$111.48	$6.70	$44.43	$23.50	$155.92
323		23 00 00	(12"x10") Duct	13.89	5%	14.58	LF	0.224	3.27	$75.00	$16.80	$245.02	$6.70	$97.66	$23.50	$342.68
324		23 00 00	(14"x12") Duct	6.30	5%	6.62	LF	0.224	1.48	$75.00	$16.80	$111.13	$6.70	$44.29	$23.50	$155.43
325		23 00 00	(18"x12") Duct	14.25	5%	14.96	LF	0.299	4.47	$75.00	$22.40	$335.16	$11.90	$178.11	$34.30	$513.27
326		23 00 00	(4"dia) Duct	7.73	5%	8.12	LF	0.299	2.42	$75.00	$22.40	$181.81	$11.90	$96.62	$34.30	$278.43
			Duct Material : SMACNA, Galvanized Steel													
327		23 00 00	1" thyk Fiberglass duct wrap/ Insulation of Duct	329.00	5%	345.45	LF	0.299	103.17	$75.00	$22.40	$7,738.08	$11.16	$3,855.22	$33.56	$11,593.30
			Mechanical Pipes													
328		23 00 00	3/4" RS Copper Pipes	6.35	5%	6.67	LF	0.149	1.00	$75.00	$11.20	$74.68	$2.98	$19.84	$14.18	$94.52
329		23 00 00	5/8" RL Copper Pipes	6.35	5%	6.67	LF	0.234	1.56	$75.00	$17.58	$117.24	$8.40	$55.99	$25.98	$173.23
330		23 00 00	Armaflex 3/4" RS Copper Pipes / Insulation	6.35	5%	6.67	LF	0.224	1.49	$75.00	$16.80	$112.01	$6.70	$44.65	$23.50	$156.66
331		23 00 00	Armaflex 5/8" RL Copper Pipes / Insulation	6.35	5%	6.67	LF	0.224	1.49	$75.00	$16.80	$112.01	$6.70	$44.65	$23.50	$156.66
			Supply Diffuser													
332		23 00 00	S 1 Manuf : Price Model : SCD	8.00	0%	8.00	EA	2.608	20.86	$75.00	$195.58	$1,564.64	$298.54	$2,388.32	$494.12	$3,952.96
			Exhaust Fan													
333		23 00 00	EF 1 Manuf : Greenheck Model : CUE-095-VG	1.00	0%	1.00	EA	3.011	3.01	$75.00	$225.82	$225.82	$814.00	$814.00	$1,039.82	$1,039.82
			Miscellaneous													
334		23 00 00	Weather Wall Insect Screen	1.00	0%	1.00	EA	6.401	6.40	$75.00	$480.06	$480.06	$3,640.00	$3,640.00	$4,120.06	$4,120.06
335		23 00 00	Thermostat	1.00	0%	1.00	EA	3.168	3.17	$75.00	$237.58	$237.58	$1,397.99	$1,397.99	$1,635.57	$1,635.57
336		23 00 00	Duct Cap	1.00	0%	1.00	EA	3.078	3.08	$75.00	$230.86	$230.86	$1,950.00	$1,950.00	$2,180.86	$2,180.86
			Mini Split Unit													
337		23 00 00	F 1 Manuf : TRANE Model : 4XCD010DS3+S9V2D120U5PS	1.00	0%	1.00	EA	4.409	4.41	$75.00	$330.68	$330.68	$2,363.04	$2,363.04	$2,693.72	$2,693.72
338		23 00 00	CU 1 Manuf : TRANE Model : 4TTR6060N1	1.00	0%	1.00	EA	4.943	4.94	$75.00	$370.72	$370.72	$3,068.93	$3,068.93	$3,439.65	$3,439.65
			DUCT													
339		23 00 00	(10"x10") Duct SA	36.00	5%	37.80	LF	0.149	5.64	$75.00	$11.20	$423.36	$2.98	$112.49	$14.18	$535.85
340		23 00 00	(12"x6") Duct	33.51	5%	35.19	LF	0.234	8.25	$75.00	$17.58	$618.70	$8.40	$295.49	$25.98	$914.19
341		23 00 00	(6"x6") Duct SA	20.22	5%	21.23	LF	0.224	4.76	$75.00	$16.80	$356.68	$6.70	$142.16	$23.50	$498.84
342		23 00 00	(6"x8") Duct SA	90.96	5%	95.51	LF	0.224	21.39	$75.00	$16.80	$1,604.53	$6.70	$639.52	$23.50	$2,244.06
343		23 00 00	(16"x6") Duct	30.99	5%	32.54	LF	0.224	7.29	$75.00	$16.80	$546.66	$6.70	$217.88	$23.50	$764.55
344		23 00 00	(24x6") Duct SA	30.84	5%	32.38	LF	0.224	7.25	$75.00	$16.80	$544.02	$6.70	$216.83	$23.50	$760.85
345		23 00 00	(6"dia) Duct	54.45	5%	57.17	LF	0.299	17.08	$75.00	$22.40	$1,280.66	$11.90	$680.58	$34.30	$1,961.25
			Duct Material : SMACNA, Galvanized Steel													
346		23 00 00	1" thyk Fiberglass duct wrap/ Insulation of Duct	891.00	5%	935.55	LF	0.299	279.42	$75.00	$22.40	$20,956.32	$11.16	$10,440.74	$33.56	$31,397.06
			Mechanical Pipes													
347		23 00 00	3/4" RS Copper Pipes	138.09	5%	144.99	LF	0.149	21.65	$75.00	$11.20	$1,623.94	$2.98	$431.50	$14.18	$2,055.44
348		23 00 00	5/8" RL Copper Pipes	138.09	5%	144.99	LF	0.234	33.99	$75.00	$17.58	$2,549.58	$8.40	$1,217.66	$25.98	$3,767.25
349		23 00 00	Armaflex 3/4" RS Copper Pipes / Insulation	138.09	5%	144.99	LF	0.224	32.48	$75.00	$16.80	$2,435.91	$6.70	$970.88	$23.50	$3,406.79
350		23 00 00	Armaflex 5/8" RL Copper Pipes / Insulation	138.09	5%	144.99	LF	0.224	32.48	$75.00	$16.80	$2,435.91	$6.70	$970.88	$23.50	$3,406.79

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S#	Dwg.	CSI	DESCRIPTION / SPECIFICATION	QTY.	WASTE	QTY W/ WASTE	UNIT	UNIT LABOR HR	TOTAL LABOR HR	LABOR RATE /HR	UNIT LABOR COST	TOTAL LABOR COST	UNIT MAT. COST	TOTAL MAT. COST	UNIT PRICE (L+M)	TOTAL
			Supply Diffuser													
351		23 00 00	S 1 Manuf : Price Model : SCD	18.00	0%	18.00	EA	2.608	46.94	$75.00	$195.58	$3,520.44	$298.54	$5,373.72	$494.12	$8,894.16
			Exhaust Fan													
352		23 00 00	EF 1 Manuf : Greenheck Model : CUE-095-VG	3.00	0%	3.00	EA	3.011	9.03	$75.00	$225.82	$677.46	$814.00	$2,442.00	$1,039.82	$3,119.46
			Miscellaneous													
353		23 00 00	Thermostat	3.00	0%	3.00	EA	3.168	9.50	$75.00	$237.58	$712.74	$1,397.99	$4,193.97	$1,635.57	$4,906.71
354		23 00 00	Duct Cap	3.00	0%	3.00	EA	3.078	9.23	$75.00	$230.86	$692.58	$1,950.00	$5,850.00	$2,180.86	$6,542.58
			Mini Split Unit													
355		23 00 00	F 1 Manuf : TRANE Model : 4XCD010DS3+S9V2D120U5PS	3.00	0%	3.00	EA	4.409	13.23	$75.00	$330.68	$992.04	$2,363.04	$7,089.12	$2,693.72	$8,081.16
356		23 00 00	CU 1 Manuf : TRANE Model : 4TTR6060N1	3.00	0%	3.00	EA	4.943	14.83	$75.00	$370.72	$1,112.16	$3,068.93	$9,206.78	$3,439.65	$10,318.94
			DUCT													
357		23 00 00	(10"x10') Duct SA	49.77	5%	52.26	LF	0.149	7.80	$75.00	$11.20	$585.30	$2.98	$155.52	$14.18	$740.82
358		23 00 00	(12"x6") Duct	35.58	5%	37.36	LF	0.234	8.76	$75.00	$17.58	$656.92	$8.40	$313.74	$25.98	$970.66
359		23 00 00	(6"x6") Duct SA	10.05	5%	10.55	LF	0.224	2.36	$75.00	$16.80	$177.28	$6.70	$70.66	$23.50	$247.94
360		23 00 00	(8"x8") Duct SA	96.21	5%	101.02	LF	0.224	22.63	$75.00	$16.80	$1,697.14	$6.70	$676.43	$23.50	$2,373.58
361		23 00 00	(6"dia) Duct	31.08	5%	32.63	LF	0.224	7.31	$75.00	$16.80	$548.25	$6.70	$218.52	$23.50	$766.77
			Duct Material : SMACNA, Galvanized Steel													
362		23 00 00	1" thyk Fiberglass duct wrap/ Insulation of Duct	666.00	5%	699.30	LF	0.299	208.86	$75.00	$22.40	$15,664.32	$11.16	$7,804.19	$33.56	$23,468.51
			Supply Diffuser													
363		23 00 00	S 1 Manuf : Price Model : SCD	12.00	0%	12.00	EA	2.608	31.29	$75.00	$195.58	$2,346.96	$298.54	$3,582.48	$494.12	$5,929.44
			Exhaust Fan													
364		23 00 00	EF 1 Manuf : Greenheck Model : CUE-095-VG	3.00	0%	3.00	EA	3.011	9.03	$75.00	$225.82	$677.46	$814.00	$2,442.00	$1,039.82	$3,119.46
			Miscellaneous													
365		23 00 00	Thermostat	3.00	0%	3.00	EA	3.168	9.50	$75.00	$237.58	$712.74	$1,397.99	$4,193.97	$1,635.57	$4,906.71
366		23 00 00	Duct Cap	3.00	0%	3.00	EA	3.078	9.23	$75.00	$230.86	$692.58	$1,950.00	$5,850.00	$2,180.86	$6,542.58
			SUBTOTAL – DIVISION 23 – HVAC						**9,405.9**			**$705,446**		**$1,286,879**		**$1,992,324**

Total Labor Hours	**9,405.9**
Total Labor Cost	**$705,446**
Total Material Cost	**$1,286,879**

TOTAL TRADE COST		**$1,992,324**
Contingencies & Insurance	5.0%	**$99,616**
Overhead & Profit	25.0%	**$498,081**
TOTAL BASE BID		**$2,590,022**

CLARIFICATIONS & EXCLUSIONS

1 Quantities are taken off from the construction drawings provided; pricing reflects local labor and material rates at the time of the estimate.

2 Unit labor hours are shown at the stated labor rate; material includes the waste allowance shown for each item.

3 Permits, utility company fees, testing and inspections are excluded unless listed above.

4 Sales tax and bonds are excluded unless listed above.

5 Work not shown in the drawings or not listed in this estimate is excluded.

6 SAMPLE: project address, dates and client details have been removed for confidentiality.

Prepared by: Darren Wood, Senior Estimator · Premium Estimating LLC · plans.premiume@gmail.com · (850) 343-4090

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