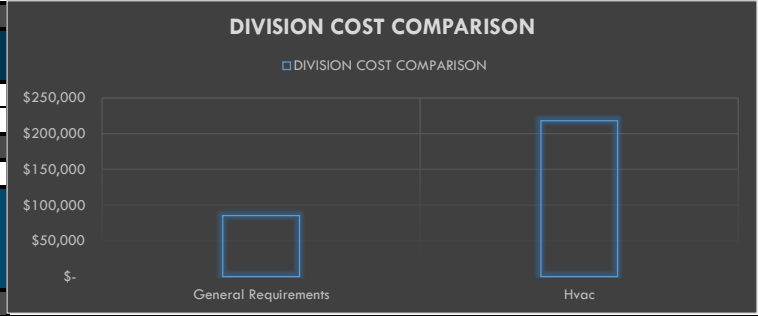


## GENERAL SUMMARY

**Prepared for:**  
**Project ID:**  
**Scope:** HVAC  
**No. Of Floors:** 1  
**Date:** 12/16/23



BUILDING GSF		13,993	
DIVISION NO	DESCRIPTION	TOTAL DIV. COST	TOTAL DIV. COST (PER SF)
1000	General Requirements	\$ 85,500	\$ 6.11
23000	Hvac	\$ 217,958	\$ 15.58
<b>TOTAL TRADE COST</b>		<b>\$ 303,458</b>	<b>\$ 22</b>
<b>OVERHEAD AND PROFIT</b>			
	10%	\$ 30,346	\$ 2.17
INSURANCE	3%	\$ 9,104	\$ 1
CONTINGENCY	5%	\$ 15,173	\$ 1
TAX	6%	\$ 0	\$ 1
<b>SUGGESTED BID</b>		<b>\$ 358,080</b>	<b>\$ 27</b>



**DETAILED BREAKDOWN OF ITEMS**

Prepared for:  
Project ID:  
Scope: HVAC



Date: 12/16/23

SR #	Drawing #	Detail #	DESCRIPTION	UNIT	QUANTITY	WASTAGE	QUANTITY W/ WASTAGE	UNIT MANHOUR	HOURLY WAGE	LABOR COST	MAT. COST	UNIT COST	SUB COST
<b>GENERAL REQUIREMENTS</b>													
1			Permits	LS	1	0%	1	0.000	\$ -	\$ -	\$ -		\$ -
2			Supervision and Coordination	LS	1	0%	1	0.000	\$ -	\$ -	\$ -	\$ 45,000.00	\$ 45,000.00
3			Submittals and Shop drawings	LS	1	0%	1	0.000	\$ -	\$ -	\$ -	\$ 2,500.00	\$ 2,500.00
4			Final Cleaning	LS	1	0%	1	0.000	\$ -	\$ -	\$ -	\$ 2,000.00	\$ 2,000.00
5			Mobilization Costs	LS	1	0%	1	0.000	\$ -	\$ -	\$ -	\$ 28,500.00	\$ 28,500.00
6			Temporary Control & Facilities	LS	1	0%	1	0.000	\$ -	\$ -	\$ -	\$ 5,500.00	\$ 5,500.00
7			Scaffolding	LS	1	0%	1	0.000	\$ -	\$ -	\$ -	\$ 2,000.00	\$ 2,000.00
												<b>SUBTOTAL</b>	\$ 85,500
<b>HVAC</b>													
<b>CONVECTION HEATING AND COOLING UNITS</b>													
<b>ROOFTOP UNITS AS:</b>													
8		Note 4/A103	Carrier RTU Unit Size: 7x5' Weight: 2000 LBs	EA	2	0%	2	5.000	\$ 72.00	\$ 360.00	\$ 10,395.00	\$ 10,755.00	\$ 21,510
<b>CONDENSER UNITS AS:</b>													
9	A103	Note 7/A103	(Tag: CU1 & CU2) Outside Condensers Units Size: 2'-0"x1'-9" Mnf: Mitsubishi Weight: 10 Ton Model: PUHY-EP120TNU-A	EA	2	0%	2	4.550	\$ 72.00	\$ 327.60	\$ 5,760.00	\$ 6,087.60	\$ 12,175
<b>DUCTLESS SPLIT SYSTEM AS:</b>													
<b>INDOOR UNITS @ IT &amp; SERVER ROOM:</b>													
10	M101		Indoor Units: MSS-11A & MSS-12A Mnf: Mitsubishi Model: Mitsubishi-Trane, MSY-GL18NA-U1	EA	2	0%	2	1.230	\$ 72.00	\$ 88.56	\$ 853.43	\$ 941.99	\$ 1,884
11			Condensate Pump Model: Blue Diamond x87-711/721	EA	2	0%	2	0.625	\$ 72.00	\$ 45.00	\$ 289.00	\$ 334.00	\$ 668
12			Drain Pan Level Sensor	EA	2	0%	2	0.220	\$ 72.00	\$ 15.84	\$ 22.73	\$ 38.57	\$ 77
13			Wired Wall Mounted Thermostat	EA	2	0%	2	0.356	\$ 72.00	\$ 25.63	\$ 130.00	\$ 155.63	\$ 311
<b>OUTDOOR UNIT @ ROOFTOP:</b>													
14	M001		Outdoor Units: MSS-11 & MSS-12 Mnf: Mitsubishi Model: MUY-GL18NA-U1	EA	2	0%	2	0.985	\$ 72.00	\$ 70.92	\$ 1,419.00	\$ 1,489.92	\$ 2,980
15	A103		Diversitech ULTRALITE Condenser Mounting Pad Size: 16"x36"x3" Model: UC1636-3	EA	2	0%	2	0.345	\$ 72.00	\$ 24.84	\$ 44.00	\$ 68.84	\$ 138
16			Drain Pan Heater Mnf: Mitsubishi Model: MAC-640BH-U	EA	2	0%	2	0.855	\$ 72.00	\$ 61.56	\$ 157.50	\$ 219.06	\$ 438
17			3.25" Mounting Base	EA	2	0%	2	0.525	\$ 72.00	\$ 37.80	\$ 29.00	\$ 66.80	\$ 134
18			Drain Pan Socket	EA	2	0%	2	0.350	\$ 72.00	\$ 25.20	\$ 8.57	\$ 33.77	\$ 68
<b>DUCT</b>													
19			Flexible Duct	LF	86	5%	90	0.045	\$ 72.00	\$ 3.24	\$ 1.62	\$ 4.86	\$ 439.57
<b>FLEXIBLE DUCT CONNECTOR</b>													
20			Flexible Duct Connector (Assumed)	EA	17	0%	17	0.045	\$ 72.00	\$ 3.24	\$ 1.62	\$ 4.86	\$ 82.62
<b>DUCT WEIGHT</b>													
21			Galvanized Sheet Metal Duct	LBs	5980	5%	6279	0.092	\$ 72.00	\$ 6.62	\$ 0.82	\$ 7.44	\$ 46,740.88
<b>DUCT INSULATION</b>													
22			Insulation @ Galvanized Sheet Metal Duct	SF	5215	5%	5476	0.025	\$ 72.00	\$ 1.80	\$ 2.25	\$ 4.05	\$ 22,176.79

**DETAILED BREAKDOWN OF ITEMS**

Prepared for:  
Project ID:  
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Date: 12/16/23

SR #	Drawing #	Detail #	DESCRIPTION	UNIT	QUANTITY	WASTAGE	QUANTITY W/ WASTAGE	UNIT MANHOUR	HOURLY WAGE	LABOR COST	MAT. COST	UNIT COST	SUB COST
			<b>DIFFUSER</b>										
			<b>SUPPLY DIFFUSER</b>										
23		Sheet Note 3/ M101	Tag 3: 12" x 18" Supply Diffuser @ ERV-1	EA	1	0%	1	0.358	\$ 72.00	\$ 25.78	\$ 81.00	\$ 106.78	\$ 106.78
24			Tag 3: 12" x 16" Supply Diffuser @ ERV-2 To ERV-5	EA	4	0%	4	0.350	\$ 72.00	\$ 25.20	\$ 74.97	\$ 100.17	\$ 400.68
			<b>CEILING DIFFUSER</b>										
25			Ceiling Diffuser CFM: 250 Size: 24 x 24 Model: TITUS TMS	EA	14	0%	14	0.370	\$ 72.00	\$ 26.64	\$ 130.01	\$ 156.65	\$ 2,193.10
26	M101	Air Distribution Device Schedule/ M101	Ceiling Diffuser CFM: 350 Size: 24 x 24 Model: TITUS TMS	EA	3	0%	3	0.370	\$ 72.00	\$ 26.64	\$ 130.01	\$ 156.65	\$ 469.95
			<b>RETURN DIFFUSER</b>										
27			Return Diffuser CFM: 1500 Size: 24 x 24 Model: TITUS PXP	EA	17	0%	17	0.370	\$ 72.00	\$ 26.64	\$ 130.01	\$ 156.65	\$ 2,663.05
28			Return Grille W/ Front Blade CFM: 1500 Size: 24 x 24 Model: TITUS 300/350-steel-HD	EA	5	0%	5	0.370	\$ 72.00	\$ 26.64	\$ 130.01	\$ 156.65	\$ 783.25
			<b>DUCT DIFFUSER</b>										
			<b>DUCT MOUNTED DIFFUSER</b>										
29			Duct Mounted Diffuser CFM: 200	EA	1	0%	1	0.350	\$ 72.00	\$ 25.20	\$ 63.50	\$ 88.70	\$ 88.70
30			Duct Mounted Diffuser CFM: 250	EA	4	0%	4	0.350	\$ 72.00	\$ 25.20	\$ 63.50	\$ 88.70	\$ 354.80
31			Duct Mounted Diffuser CFM: 600	EA	15	0%	15	0.350	\$ 72.00	\$ 25.20	\$ 63.50	\$ 88.70	\$ 1,330.50
			<b>RETURN DUCT DIFFUSER</b>										
32			Duct Mounted Return Diffuser	EA	8	0%	8	0.350	\$ 72.00	\$ 25.20	\$ 63.50	\$ 88.70	\$ 709.60
33			Duct Mounted Return Diffuser CFM: 200	EA	1	0%	1	0.350	\$ 72.00	\$ 25.20	\$ 63.50	\$ 88.70	\$ 88.70
34			Duct Mounted Return Diffuser CFM: 250	EA	1	0%	1	0.350	\$ 72.00	\$ 25.20	\$ 63.50	\$ 88.70	\$ 88.70
			<b>VARIABLE REFRIGERANT FLOW</b>										
35		VRF Schedule/ M001	Tag VRF1-15: Variable Refrigerant Flow Manufacturer: Mitsubishi Size: 10"HX36"WX30"D Capacity: 600 CFM	EA	15	0%	15	5.776	\$ 72.00	\$ 415.87	\$ 3,046.00	\$ 3,461.87	\$ 51,928.08
			<b>VARIABLE REFRIGERANT DUCT</b>										
36		Sheet No 6/ M101	Tag 6: VRF Ducts	EA	12	0%	12	2.540	\$ 72.00	\$ 182.88	\$ 1,600.00	\$ 1,782.88	\$ 21,394.56
			<b>LOUVERS</b>										
37			Tag 1: 12" x 16" Louver @ ERV-1 Finish: AMAA 2605 Bird Screen: 0.75" x 0.05" Coating Type: 2Ct 70% Kynar/ 100% Fluoropolymer Color: Standard TBS	EA	2	0%	2	0.385	\$ 72.00	\$ 27.72	\$ 107.99	\$ 135.71	\$ 271.42

**DETAILED BREAKDOWN OF ITEMS**

Prepared for:  
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Scope: HVAC



Date: 12/16/23

SR #	Drawing #	Detail #	DESCRIPTION	UNIT	QUANTITY	WASTAGE	QUANTITY W/ WASTAGE	UNIT MANHOUR	HOURLY WAGE	LABOR COST	MAT. COST	UNIT COST	SUB COST
38	M101	Sheet Note1/ M101	Tag 1: 12" x 14" Louver @ ERV-2 Finish: AMAA 2605 Bird Screen: 0.75" x 0.05" Coating Type: 2Ct 70% Kynar/ 100% Fluoropolymer Color: Standard TBS	EA	2	0%	2	0.380	\$ 72.00	\$ 27.36	\$ 101.84	\$ 129.20	\$ 258.40
39			Tag 1: 12" x 14" Louver @ ERV-3 Finish: AMAA 2605 Bird Screen: 0.75" x 0.05" Coating Type: 2Ct 70% Kynar/ 100% Fluoropolymer Color: Standard TBS	EA	2	0%	2	0.380	\$ 72.00	\$ 27.36	\$ 101.84	\$ 129.20	\$ 258.40
40			Tag 1: 12" x 14" Louver @ ERV-4 Finish: AMAA 2605 Bird Screen: 0.75" x 0.05" Coating Type: 2Ct 70% Kynar/ 100% Fluoropolymer Color: Standard TBS	EA	2	0%	2	0.380	\$ 72.00	\$ 27.36	\$ 101.84	\$ 129.20	\$ 258.40
41			Tag 1: 12" x 14" Louver @ ERV-5 Finish: AMAA 2605 Bird Screen: 0.75" x 0.05" Coating Type: 2Ct 70% Kynar/ 100% Fluoropolymer Color: Standard TBS	EA	2	0%	2	0.380	\$ 72.00	\$ 27.36	\$ 101.84	\$ 129.20	\$ 258.40
<b>AIR DEVICES</b>													
42	M101	RFI NO: TB 005	Wiring and Junction Box for 42" Reversible 3-Speed Ceiling Fan Note: Please Verify If Owner Provided and Installed. See RFI Response on RFI no.TB 005	EA	6	0%	6	1.320	\$ 72.00	\$ 95.04	\$ 259.99	\$ 355.03	\$ 2,130.18
<b>DAMPERS</b>													
43	M101	Air Distribution Device Schedule/ M101	Opposed Blade Volume Damper @ Supply Diffuser	EA	17	0%	17	0.450	\$ 72.00	\$ 32.40	\$ 145.99	\$ 178.39	\$ 3,032.63
<b>MISCELLANEOUS</b>													
<b>ENERGY RECOVERY VENTILATOR</b>													
44	M101	Energy Recovery Ventilator	Tag ERV-1: Energy Recovery Ventilator Size: 62" L x 44" W x 22" H CFM: 456 Manufacturer: Renewairst Catalog Number: EV450IN	EA	1	0%	1	3.450	\$ 72.00	\$ 248.40	\$ 3,275.00	\$ 3,523.40	\$ 3,523.40
45			Tag ERV-2: Energy Recovery Ventilator Size: 62" L x 44" W x 22" H CFM: 375 Manufacturer: Renewairst Catalog Number: EV450IN	EA	1	0%	1	3.450	\$ 72.00	\$ 248.40	\$ 3,275.00	\$ 3,523.40	\$ 3,523.40
46			Tag ERV-3: Energy Recovery Ventilator Size: 62" L x 44" W x 22" H CFM: 375 Manufacturer: Renewairst Catalog Number: EV450IN	EA	1	0%	1	3.450	\$ 72.00	\$ 248.40	\$ 3,275.00	\$ 3,523.40	\$ 3,523.40
47			Tag ERV-4: Energy Recovery Ventilator Size: 62" L x 44" W x 22" H CFM: 375 Manufacturer: Renewairst Catalog Number: EV450IN	EA	1	0%	1	3.450	\$ 72.00	\$ 248.40	\$ 3,275.00	\$ 3,523.40	\$ 3,523.40

**DETAILED BREAKDOWN OF ITEMS**

Prepared for:  
 Project ID:  
 Scope: HVAC



Date: 12/16/23

SR #	Drawing #	Detail #	DESCRIPTION	UNIT	QUANTITY	WASTAGE	QUANTITY W/ WASTAGE	UNIT MANHOUR	HOURLY WAGE	LABOR COST	MAT. COST	UNIT COST	SUB COST
48			Tag ERV-5: Energy Recovery Ventilator Size: 62" L x 44" W x 22" H CFM: 375 Manufacturer: Renewaire Catalog Number: EV450IN	EA	1	0%	1	3.450	\$ 72.00	\$ 248.40	\$ 3,275.00	\$ 3,523.40	\$ 3,523.40
			<b>STOP VALVE</b>										
49	M101		Stop Valve	EA	5	0%	5	0.250	\$ 72.00	\$ 18.00	\$ 11.71	\$ 29.71	\$ 148.55
			<b>PRIME TRAP</b>										
50			P-Trap	EA	5	0%	5	0.420	\$ 72.00	\$ 30.24	\$ 15.82	\$ 46.06	\$ 230.30
			<b>THERMOSTAT</b>										
51		Symbol/ M001	Thermostat	EA	7	0%	7	0.320	\$ 72.00	\$ 23.04	\$ 130.00	\$ 153.04	\$ 1,071.28
												<b>SUBTOTAL</b>	\$ 217,958
												<b>PROJECTED COST</b>	\$303,458
<b>OVERHEAD AND PROFIT</b>												10%	\$30,346
<b>INSURANCE</b>												3%	\$9,104
<b>CONTINGENCY</b>												5%	\$15,173
<b>TAX</b>												6%	\$0
<b>SUGGESTED BID</b>													\$358,080