

**FAC 8211 HEAT SOURCE**

FY22 SUC:           \$0.0026 / BH

Source:               Calculated using R.S. Means CostWorks 2021 Qtr 3 component prices

FAC 8211 HEAT SOURCE

Release 2021 Qtr 3  
Zip Code Prefix 222  
Type MR

UM BH  
Design Life 34  
Average Size 3050000.0

SUC \$0.0026

Adjusted Occurences are the occurrences remaining after subtracting Repair/Replacement Overlaps. Overlap reduction removes a repair when it occurs the same year as a replacement.

Description	Frequency	Qty Unit	Total In-House	Total Incl OP	Design Life/Frequency	Occurrences in Design Life	Adjusted Occurrences	Life Cost	Adjusted Cost	
General maintenance pipe & fittings, industrial gas	2	1.20 M.L.F.	\$44.32	\$55.43	17.0000	17	17	\$942.26	\$942.26	
Replace 275 gallon fuel oil storage tank	30	1.00 Ea.	\$945.38	\$1,121.95	1.1333	1	1	\$1,121.95	\$1,121.95	
Repair boiler, gas, 2000 MBH	7	0.33 Ea.	\$1,909.32	\$2,222.14	4.8571	4	4	\$8,888.54	\$8,888.54	
Replace boiler, gas, 2000 MBH	30	0.33 Ea.	\$13,146.59	\$15,384.67	1.1333	1	1	\$15,384.67	\$15,384.67	
Repair boiler, coal, 4600 MBH	20	0.33 Ea.	\$11,742.95	\$13,651.33	1.7000	1	1	\$13,651.33	\$13,651.33	
Replace boiler, coal, 4600 MBH	30	0.33 Ea.	\$48,945.38	\$56,648.34	1.1333	1	1	\$56,648.34	\$56,648.34	
Repair boiler, gas/oil, 2000 MBH	7	0.33 Ea.	\$2,093.91	\$2,441.44	4.8571	4	4	\$9,765.78	\$9,765.78	
Replace boiler, gas/oil, 2000 MBH	30	0.33 Ea.	\$19,345.36	\$22,445.11	1.1333	1	1	\$22,445.11	\$22,445.11	
Repair boiler blowoff system	10	1.00 Ea.	\$74.41	\$93.06	3.4000	3	3	\$279.17	\$279.17	
Replace boiler blowoff system	15	1.00 Ea.	\$8,423.19	\$9,635.23	2.2667	2	2	\$19,270.45	\$19,270.45	
Repair chemical feed system	15	1.00 Ea.	\$843.44	\$1,008.19	2.2667	2	2	\$2,016.38	\$2,016.38	
Replace chemical feed system	15	1.00 Ea.	\$912.01	\$1,057.34	2.2667	2	2	\$2,114.69	\$2,114.69	
Replace metal flue, all fuel SS, 10" diameter metal flue / chimney	15	1.00 L.F.	\$145.01	\$168.30	2.2667	2	2	\$336.60	\$336.60	
Repair fuel oil equipment, pump	10	1.00 Ea.	\$463.35	\$572.54	3.4000	3	3	\$1,717.62	\$1,717.62	
Replace fuel oil 45 GPH pump / motor set	15	1.00 Ea.	\$2,154.77	\$2,488.31	2.2667	2	2	\$4,976.63	\$4,976.63	
Maintenance and inspection fire alarm control panel	0.5	1.00 Ea.	\$43.18	\$54.10	68.0000	68	68	\$3,679.08	\$3,679.08	
Minor repairs to annunciation panel	5	1.00 Ea.	\$149.71	\$182.27	6.8000	6	6	\$1,093.65	\$1,093.65	
Maintenance and repair voice/data outlet	10	4.00 Ea.	\$205.17	\$256.23	3.4000	3	3	\$768.70	\$768.70	
Maintenance and inspection patch panel	0.5	1.00 Ea.	\$86.37	\$108.21	68.0000	68	68	\$7,358.15	\$7,358.15	
Replace patch panel	15	1.00 Ea.	\$823.53	\$992.53	2.2667	2	2	\$1,985.05	\$1,985.05	
			\$112,497.35	\$130,586.71				MR Subtotal	\$174,444.13	
									MR Per Year	\$5,065.35
									PM Total	\$2,949.85
									Subtotal	\$8,015.20
									Total Per Unit	\$0.0026

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Design Life 34

Type PM

Average Size 3050000.0

Description	Qty	Labor Hours	Bare Mat	Bare Labor	Bare Equip	Bare Total	Total In-House	Total Incl OP
Boiler, steam, oil, gas, or comb. fired, over 1000 MBH, annualized	1.00	22.45	\$88.97	\$1,343.53	\$0.00	\$1,432.49	\$1,844.45	\$2,260.85
Pump, boiler fuel oil, annualized	1.00	1.23	\$97.06	\$74.00	\$0.00	\$171.06	\$202.97	\$239.73
Controls, central system, electro/pneumatic, annually	1.00	1.92	\$70.77	\$115.41	\$0.00	\$186.18	\$227.88	\$273.12
Deaerator tank, annualized	1.00	1.51	\$24.77	\$90.74	\$0.00	\$115.51	\$145.21	\$176.15
						\$1,905.25	\$2,420.51	\$2,949.85

**FAC 8211 HEAT SOURCE**  
**Modeled Component List**  
**CostWorks Release 2021 Qtr 3**

D30 HVAC

Fuel Oil Storage Tank, 275 Gallon	1.0 Ea.
Boiler, Gas, 2000 MBH	0.33 Ea.
Boiler, Gas/Oil, 2000 MBH	0.33 Ea.
Blowoff System	1.0 Ea.
Chemical Feed System	1.0 Ea.

FAC 8211 HEAT SOURCE  
Sustainment by Year  
CostWorks Release 2021 Qtr 3

