

**FAC 8211 HEAT SOURCE**

FY24 SUC:	\$0.0028 / BH
Source:	Calculated using R.S. Means CostWorks 2023 Qtr 4 component prices

FAC 8211 HEAT SOURCE

Release 2023 Qtr 4  
Zip Code Prefix 222  
Type MR

UM BH  
Design Life 34  
Average Size 3050000.0

SUC \$0.0028

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.	\$46.37	\$58.05	17.0000	17	17	\$986.85	\$986.85	
Replace 275 gallon fuel oil storage tank	30	1.00 Ea.	\$2,524.14	\$2,918.78	1.1333	1	1	\$2,918.78	\$2,918.78	
Repair boiler, gas, 2000 MBH	7	0.33 Ea.	\$1,892.48	\$2,206.10	4.8571	4	4	\$8,824.39	\$8,824.39	
Replace boiler, gas, 2000 MBH	30	0.33 Ea.	\$13,394.35	\$15,694.28	1.1333	1	1	\$15,694.28	\$15,694.28	
Repair boiler, coal, 4600 MBH	20	0.33 Ea.	\$12,178.36	\$14,164.43	1.7000	1	1	\$14,164.43	\$14,164.43	
Replace boiler, coal, 4600 MBH	30	0.33 Ea.	\$49,603.67	\$57,456.76	1.1333	1	1	\$57,456.76	\$57,456.76	
Repair boiler, gas/oil, 2000 MBH	7	0.33 Ea.	\$2,078.12	\$2,427.14	4.8571	4	4	\$9,708.56	\$9,708.56	
Replace boiler, gas/oil, 2000 MBH	30	0.33 Ea.	\$19,634.15	\$22,801.33	1.1333	1	1	\$22,801.33	\$22,801.33	
Repair boiler blowoff system	10	1.00 Ea.	\$77.82	\$97.42	3.4000	3	3	\$292.27	\$292.27	
Replace boiler blowoff system	15	1.00 Ea.	\$8,517.64	\$9,746.81	2.2667	2	2	\$19,493.63	\$19,493.63	
Repair chemical feed system	15	1.00 Ea.	\$993.18	\$1,181.40	2.2667	2	2	\$2,362.80	\$2,362.80	
Replace chemical feed system	15	1.00 Ea.	\$961.33	\$1,114.73	2.2667	2	2	\$2,229.45	\$2,229.45	
Replace metal flue, all fuel SS, 10" diameter metal flue / chimney	15	1.00 L.F.	\$267.16	\$307.31	2.2667	2	2	\$614.62	\$614.62	
Repair fuel oil equipment, pump	10	1.00 Ea.	\$492.53	\$608.46	3.4000	3	3	\$1,825.38	\$1,825.38	
Replace fuel oil 45 GPH pump / motor set	15	1.00 Ea.	\$2,590.29	\$2,985.53	2.2667	2	2	\$5,971.06	\$5,971.06	
Maintenance and inspection fire alarm control panel	0.5	1.00 Ea.	\$45.50	\$57.01	68.0000	68	68	\$3,876.69	\$3,876.69	
Minor repairs to annunciation panel	5	1.00 Ea.	\$149.42	\$182.60	6.8000	6	6	\$1,095.57	\$1,095.57	
Maintenance and repair voice/data outlet	10	4.00 Ea.	\$217.29	\$271.37	3.4000	3	3	\$814.10	\$814.10	
Maintenance and inspection patch panel	0.5	1.00 Ea.	\$91.01	\$114.02	68.0000	68	68	\$7,753.38	\$7,753.38	
Replace patch panel	15	1.00 Ea.	\$886.40	\$1,066.81	2.2667	2	2	\$2,133.61	\$2,133.61	
			\$116,641.22	\$135,460.33				MR Subtotal	\$181,017.96	
									MR Per Year	\$5,259.17
									PM Total	\$3,229.66
									Subtotal	\$8,488.83
									Total Per Unit	\$0.0028

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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	\$100.19	\$1,417.00	\$0.00	\$1,517.19	\$1,952.31	\$2,392.44
Pump, boiler fuel oil, annualized	1.00	1.23	\$97.66	\$78.04	\$0.00	\$175.70	\$208.88	\$246.94
Controls, central system, electro/pneumatic, annually	1.00	1.92	\$169.00	\$121.21	\$0.00	\$290.21	\$343.47	\$405.19
Deaerator tank, annualized	1.00	1.51	\$25.30	\$95.92	\$0.00	\$121.22	\$152.53	\$185.10
						\$2,104.32	\$2,657.19	\$3,229.66



**FAC 8211 HEAT SOURCE**  
**Modeled Component List**  
**CostWorks Release 2023 Qtr 4**

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.

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Sustainment by Year  
CostWorks Release 2023 Qtr 4

