

FAC 8231 HEAT GAS PRODUCTION PLANT

FY22 SUC: \$0.00007 / BH

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

FAC 8231 HEAT GAS PRODUCTION PLANT

Release 2021 Qtr 3
Zip Code Prefix 222
Type MR

UM BH
Design Life 34
Average Size 54000000.0

SUC \$0.00007

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
Check and adjust 10 H.P. compressor	1	2.00 Ea.	\$169.33	\$211.76	34.0000	34	34	\$7,199.95	\$7,199.95
Replace 10 H.P. compressor	25	2.00 Ea.	\$20,853.40	\$24,491.29	1.3600	1	1	\$24,491.29	\$24,491.29
Replace expansion tank, 400 gal capacity	50	2.00 Ea.	\$28,409.70	\$32,454.77	0.6800	0	0	\$0.00	\$0.00
Repair damaged pipe insulation, fiberglass 2"	5	4.00 Ea.	\$96.01	\$117.35	6.8000	6	6	\$704.11	\$704.11
Install new 2" gasket, 1 per M.L.F. natural gas, steel/iron	30	1.00 Ea.	\$128.83	\$159.96	1.1333	1	1	\$159.96	\$159.96
Replace 10' of buried 2" diam steel pipe/M.L.F. natural gas	12	8.00 Ea.	\$5,379.77	\$6,641.62	2.8333	2	2	\$13,283.23	\$13,283.23
Check gas pressure natural gas, pressure reducing valve	5	1.00 Ea.	\$9.67	\$12.09	6.8000	6	6	\$72.54	\$72.54
Replace 10' steel pipe 1/2" diam. per M.L.F. LPG distribution	12	3.00 Ea.	\$845.04	\$1,046.56	2.8333	2	2	\$2,093.13	\$2,093.13
Replace metal flue, all fuel SS, 6" diameter metal flue / chimney	15	1.00 L.F.	\$129.05	\$149.45	2.2667	2	2	\$298.91	\$298.91
Preventive maintenance oil filter	1	1.00 Ea.	\$6.19	\$7.48	34.0000	34	34	\$254.20	\$254.20
Preventive maintenance fuel level meter	5	1.00 Ea.	\$36.93	\$46.19	6.8000	6	6	\$277.13	\$277.13
Replace remote tank fuel gauge	20	1.00 Ea.	\$5,329.28	\$6,108.99	1.7000	1	1	\$6,108.99	\$6,108.99
			\$61,393.20	\$71,447.51				MR Subtotal	\$54,943.45
								MR Per Year	\$1,615.98
								PM Total	\$2,066.39
								Subtotal	\$3,682.37
								Total Per Unit	\$0.00007

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Description	Qty	Labor Hours	Bare Mat	Bare Labor	Bare Equip	Bare Total	Total In-House	Total Incl OP
Valve, globe, above 4", annualized	1.00	0.16	\$5.86	\$8.02	\$0.00	\$13.88	\$16.87	\$20.16
Valve, pressure regular, above 4", annualized	1.00	0.36	\$5.61	\$18.06	\$0.00	\$23.67	\$29.65	\$35.91
Valve, automatic, above 4", annualized	1.00	0.19	\$5.86	\$9.43	\$0.00	\$15.29	\$18.70	\$22.41
Oxygen monitor, annualized	1.00	5.00	\$399.34	\$251.09	\$0.00	\$650.43	\$765.69	\$900.92
Controls, central system, electro/pneumatic, annualized	1.00	1.92	\$70.77	\$115.41	\$0.00	\$186.18	\$227.88	\$273.12
Air compressor, centrifugal, to 40 H.P., annualized	2.00	6.82	\$123.34	\$412.31	\$0.00	\$535.65	\$671.68	\$813.87
						\$1,425.10	\$1,730.48	\$2,066.39

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Modeled Component List

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D20 Plumbing

Compressed Air Systems, Compressors, 10 H.P.	2.0 Ea.
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D30 HVAC

Metal Flue / Chimney, 6" diameter	1.0 L.F.
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Sustainment by Year
CostWorks Release 2021 Qtr 3

