

FAC 8261 REFRIGERATION AND AIR CONDITIONING SOURCE

FY22 SUC: \$75.12 TR

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

FAC 8261 REFRIGERATION AND AIR CONDITIONING SOURCE

Release 2021 Qtr 3

Zip Code Prefix 222

Type MR

UM TR

Design Life 34

Average Size 562.0

SUC \$75.12

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	
Insp/chk pump/mtr oper, lub, chk align circulation pump, 3 HP	0.5	3.00 Ea.	\$38.91	\$48.66	68.0000	68	68	\$3,308.98	\$3,308.98	
Replace pump / motor assembly circulation pump, 3 HP	20	3.00 Ea.	\$35,747.21	\$40,922.80	1.7000	1	1	\$40,922.80	\$40,922.80	
Repair water cooled chiller, 200 ton, reciprocating	10	2.00 Ea.	\$228,563.46	\$267,670.93	3.4000	3	2	\$803,012.79	\$535,341.86	
Replace chiller, water cooled, 200 ton, reciprocating	20	2.00 Ea.	\$305,964.26	\$355,579.48	1.7000	1	1	\$355,579.48	\$355,579.48	
Repair cooling tower, 300 ton	10	2.00 Ea.	\$15,409.57	\$18,232.15	3.4000	3	2	\$54,696.46	\$36,464.31	
Replace cooling tower, 300 ton	15	2.00 Ea.	\$82,481.59	\$95,452.84	2.2667	2	2	\$190,905.69	\$190,905.69	
Replace voice/data outlet	20	3.00 Ea.	\$77.74	\$94.66	1.7000	1	1	\$94.66	\$94.66	
Repair feed water supply pump	15	1.00 Ea.	\$3,564.85	\$4,131.07	2.2667	2	2	\$8,262.14	\$8,262.14	
Repack gate valve gland, 3/8" - 1-1/2" valves	10	6.00 Ea.	\$167.07	\$199.86	3.4000	3	3	\$599.59	\$599.59	
Replace gate valve, partial, 3/8" - 1-1/2" valves	20	6.00 Ea.	\$2,378.99	\$2,771.65	1.7000	1	1	\$2,771.65	\$2,771.65	
Maintenance and repair motor starter, 600 V	3	3.00 Ea.	\$2,066.35	\$2,538.10	11.3333	11	11	\$27,919.14	\$27,919.14	
Replace starter motor starter, 600 V	18	3.00 Ea.	\$13,023.49	\$15,276.16	1.8889	1	1	\$15,276.16	\$15,276.16	
			\$689,483.49	\$802,918.36				MR Subtotal	\$1,217,446.45	
									MR Per Year	\$35,807.25
									PM Total	\$6,412.48
									Subtotal	\$42,219.73
									Total Per Unit	\$75.12

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Description	Qty	Labor Hours	Bare Mat	Bare Labor	Bare Equip	Bare Total	Total In-House	Total Incl OP
Chiller, recip., water cooled, over 50 tons, annualized	3.00	32.72	\$53.38	\$1,969.03	\$0.00	\$2,022.42	\$2,618.46	\$3,217.18
Centrifugal, over 1 HP, annualized	2.00	2.39	\$23.46	\$119.82	\$0.00	\$143.27	\$181.56	\$221.02
Water cooling tower, 50 thru 500 tons, annualized	2.00	19.82	\$315.43	\$1,198.16	\$0.00	\$1,513.59	\$1,904.58	\$2,311.35
Deaerator tank, annualized	3.00	4.52	\$74.31	\$272.23	\$0.00	\$346.54	\$435.64	\$528.45
Valve, automatic, above 4", annualized	6.00	1.12	\$35.18	\$56.56	\$0.00	\$91.74	\$112.23	\$134.47
						\$4,117.56	\$5,252.48	\$6,412.48

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Modeled Component List CostWorks Release 2021 Qtr 3

D30 HVAC

Chiller, Water Cooled, Reciprocating, 200 ton	2.0 Ea.
Cooling Tower, 300 ton	2.0 Ea.

D50 Electrical

Motor Starter, 600 V	3.0 Ea.
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Sustainment by Year
CostWorks Release 2021 Qtr 3

