

23 13 Facility Fuel-Storage Tanks

23 13 23 – Facility Aboveground Fuel-Oil, Storage Tanks

23 13 23.16 Horizontal, Stl, Abvgrd Fuel-Oil, Storage Tanks		Crew	Daily Output	Labor-Hours	Unit	Material	2022 Bare Costs		Total	Total Incl O&P
							Labor	Equipment		
0010	HORIZONTAL, STEEL, ABOVEGROUND FUEL-OIL, STORAGE TANKS									
3000	Steel, storage, aboveground, including cradles, coating,									
3020	fittings, not including foundation, pumps or piping									
3040	Single wall, 275 gallon	Q-5	5	3.200	Ea.	665	203		868	1,025
3060	550 gallon	"	2.70	5.926		6,600	375		6,975	7,825
3080	1,000 gallon	Q-7	5	6.400		11,100	430		11,530	12,800
3100	1,500 gallon		4.75	6.737		16,900	450		17,350	19,300
3120	2,000 gallon		4.60	6.957		16,400	465		16,865	18,700
3140	5,000 gallon		3.20	10		24,200	670		24,870	27,600
3150	10,000 gallon		2	16		36,300	1,075		37,375	41,500
3160	15,000 gallon		1.70	18.824		49,300	1,250		50,550	56,000
3170	20,000 gallon		1.45	22.069		59,000	1,475		60,475	67,000
3180	25,000 gallon		1.30	24.615		107,500	1,650		109,150	121,000
3190	30,000 gallon	↓	1.10	29.091		80,500	1,950		82,450	91,500
3320	Double wall, 500 gallon capacity	Q-5	2.40	6.667		3,375	420		3,795	4,325
3330	2,000 gallon capacity	Q-7	4.15	7.711		6,375	515		6,890	7,800
3340	4,000 gallon capacity		3.60	8.889		13,600	595		14,195	15,900
3350	6,000 gallon capacity		2.40	13.333		38,400	895		39,295	43,500
3360	8,000 gallon capacity		2	16		45,100	1,075		46,175	51,000
3370	10,000 gallon capacity		1.80	17.778		52,500	1,200		53,700	60,000
3380	15,000 gallon capacity		1.50	21.333		73,000	1,425		74,425	82,500
3390	20,000 gallon capacity		1.30	24.615		88,000	1,650		89,650	99,500
3400	25,000 gallon capacity		1.15	27.826		83,500	1,875		85,375	94,500
3410	30,000 gallon capacity	↓	1	32	↓	113,000	2,150		115,150	127,500

23 13 23.26 Horizontal, Conc., Abvgrd Fuel-Oil, Stor. Tanks

0010	HORIZONTAL, CONCRETE, ABOVEGROUND FUEL-OIL, STORAGE TANKS									
0050	Concrete, storage, aboveground, including pad & pump									
0100	500 gallon	F-3	2	20	Ea.	12,700	1,150	990	14,840	16,700
0200	1,000 gallon	"	2	20		17,700	1,150	990	19,840	22,300
0300	2,000 gallon	F-4	2	24		22,800	1,375	1,125	25,300	28,400
0400	4,000 gallon		2	24		29,200	1,375	1,125	31,700	35,400
0500	8,000 gallon		2	24		45,600	1,375	1,125	48,100	53,500
0600	12,000 gallon	↓	2	24	↓	61,000	1,375	1,125	63,500	70,500

23 21 Hydronic Piping and Pumps

23 21 20 – Hydronic HVAC Piping Specialties

23 21 20.10 Air Control

0010	AIR CONTROL									
0030	Air separator, with strainer									
0040	2" diameter	Q-5	6	2.667	Ea.	1,775	169		1,944	2,200
0080	2-1/2" diameter		5	3.200		1,975	203		2,178	2,475
0100	3" diameter		4	4		3,050	253		3,303	3,725
0120	4" diameter	↓	3	5.333		4,300	340		4,640	5,225
0130	5" diameter	Q-6	3.60	6.667		5,475	440		5,915	6,675
0140	6" diameter	"	3.40	7.059	↓	6,550	465		7,015	7,925

23 21 20.18 Automatic Air Vent

0010	AUTOMATIC AIR VENT									
0020	Cast iron body, stainless steel internals, float type									
0060	1/2" NPT inlet, 300 psi	1 Stpi	12	.667	Ea.	181	47		228	269
0220	3/4" NPT inlet, 250 psi	"	10	.800	↓	370	56.50		426.50	490