

21 13 Fire-Suppression Sprinkler Systems

21 13 26 – Deluge Fire-Suppression Sprinkler Systems

21 13 26.50 Deluge Fire-Suppression Sprinkler Sys. Comp.		Daily Crew	Labor-Output	Hours	Unit	Material	2022 Bare Costs		Total	Total Incl O&P
7060	3" size	Q-12	1.50	10.667	Ea.	5,650	Labor	Equipment	6,310	7,175

21 13 39 – Foam-Water Systems

21 13 39.50 Foam-Water System Components

0010	FOAM-WATER SYSTEM COMPONENTS									
2600	Sprinkler heads, not including supply piping									
3600	Foam-water, pendent or upright, 1/2" NPT	1 Spr	12	.667	Ea.	268	45.50		313.50	365

21 21 Carbon-Dioxide Fire-Extinguishing Systems

21 21 16 – Carbon-Dioxide Fire-Extinguishing Equipment

21 21 16.50 CO2 Fire Extinguishing System

0010	CO2 FIRE EXTINGUISHING SYSTEM									
0042	For detectors and control stations, see Section 28 31 23.50									
0100	Control panel, single zone with batteries (2 zones det., 1 suppr.)	1 Elec	1	8	Ea.	1,375	530		1,905	2,275
0150	Multizone (4) with batteries (8 zones det., 4 suppr.)	"	.50	16		3,325	1,050		4,375	5,250
1000	Dispersion nozzle, CO2, 3" x 5"	1 Plum	18	.444	↓	172	31		203	237
2000	Extinguisher, CO2 system, high pressure, 75 lb. cylinder	Q-1	6	2.667	Ea.	1,525	168		1,693	1,925
2100	100 lb. cylinder	"	5	3.200		2,025	201		2,226	2,525
3000	Electro/mechanical release	L-1	4	4		1,150	272		1,422	1,650
3400	Manual pull station	1 Plum	6	1.333		91	93		184	239
4000	Pneumatic damper release	"	8	1	↓	200	70		270	325

21 22 Clean-Agent Fire-Extinguishing Systems

21 22 16 – Clean-Agent Fire-Extinguishing Equipment

21 22 16.50 Clean-Agent Extinguishing Systems

0010	CLEAN-AGENT EXTINGUISHING SYSTEMS									
0020	FM200 fire extinguishing system									
1100	Dispersion nozzle FM200, 1-1/2"	1 Plum	14	.571	Ea.	274	40		314	360
2400	Extinguisher, FM200 system, filled, with mounting bracket									
2460	26 lb. container	Q-1	8	2	Ea.	2,275	126		2,401	2,675
2480	44 lb. container		7	2.286		2,950	144		3,094	3,450
2500	63 lb. container		6	2.667		4,175	168		4,343	4,850
2520	101 lb. container		5	3.200		6,025	201		6,226	6,925
2540	196 lb. container	↓	4	4	↓	7,275	251		7,526	8,375
6000	FM200 system, simple nozzle layout, with broad dispersion				C.F.	1.98			1.98	2.18
6010	Extinguisher, FM200 system, filled, with mounting bracket									
6020	Complex nozzle layout and/or including underfloor dispersion				C.F.	3.93			3.93	4.32
6100	20,000 C.F. 2 exits, 8' clng					2.20			2.20	2.42
6200	100,000 C.F. 4 exits, 8' clng					1.99			1.99	2.19
6300	250,000 C.F. 6 exits, 8' clng				↓	1.68			1.68	1.85
7010	HFC-227ea fire extinguishing system									
7100	Cylinders with clean-agent									
7110	Does not include pallet jack/fork lift rental fees									
7120	70 lb. cyl, w/35 lb. agent, no solenoid	Q-12	14	1.143	Ea.	3,300	70.50		3,370.50	3,725
7130	70 lb. cyl w/70 lb. agent, no solenoid		10	1.600		4,325	98.50		4,423.50	4,900
7140	70 lb. cyl w/35 lb. agent, w/solenoid		14	1.143		4,900	70.50		4,970.50	5,500
7150	70 lb. cyl w/70 lb. agent, w/solenoid		10	1.600		5,875	98.50		5,973.50	6,600
7220	250 lb. cyl, w/125 lb. agent, no solenoid		8	2		8,250	123		8,373	9,250
7230	250 lb. cyl, w/250 lb. agent, no solenoid		5	3.200		8,250	197		8,447	9,375
7240	250 lb. cyl, w/125 lb. agent, w/solenoid		8	2		10,000	123		10,123	11,300