

23 82 Convection Heating and Cooling Units

23 82 29 – Radiators

		Daily Labor- Crew Output Hours	Unit	Material	2022 Bare Costs Labor Equipment	Total	Total Incl O&P
23 82 29.10 Hydronic Heating							
0010	HYDRONIC HEATING , Terminal units, not incl. main supply pipe						
1000	Radiation						
1100	Panel, baseboard, C.I., including supports, no covers	Q-5	46	.348 L.F.	53.50	22	75.50 92
3000	Radiators, cast iron						
3100	Free standing or wall hung, 6 tube, 25" high	Q-5	96	.167 Section	70.50	10.55	81.05 93.50
3200	4 tube, 19" high	"	96	.167 "	49	10.55	59.55 70
3250	Adj. brackets, 2 per wall radiator up to 30 sections	1 Stpi	32	.250 Ea.	51	17.60	68.60 82.50
9500	To convert SFR to BTU rating: Hot water, 150 x SFR						
9510	Forced hot water, 180 x SFR; steam, 240 x SFR						

23 82 33 – Convectors

23 82 33.10 Convector Units							
0010	CONVECTOR UNITS , Terminal units, not incl. main supply pipe						
2204	Convector, multifin, 2 pipe w/cabinet						
2210	17" H x 24" L	Q-5	10	1.600 Ea.	109	101	210 271
2214	17" H x 36" L		8.60	1.860	163	118	281 355
2218	17" H x 48" L		7.40	2.162	218	137	355 445
2222	21" H x 24" L		9	1.778	122	113	235 300
2226	21" H x 36" L		8.20	1.951	183	124	307 385
2228	21" H x 48" L		6.80	2.353	243	149	392 490
2240	For knob operated damper, add 140%						
2241	For metal trim strips, add						
2243	For snap-on inlet grille, add 10%						
2245	For hinged access door, add						
2246	For air chamber, auto-venting, add						

23 82 36 – Finned-Tube Radiation Heaters

23 82 36.10 Finned Tube Radiation							
0010	FINNED TUBE RADIATION , Terminal units, not incl. main supply pipe						
1150	Fin tube, wall hung, 14" slope top cover, with damper						
1200	1-1/4" copper tube, 4-1/4" alum. fin	Q-5	38	.421 L.F.	48.50	26.50	75 93
1250	1-1/4" steel tube, 4-1/4" steel fin	"	36	.444 "	42.50	28	70.50 88.50
1500	Note: fin tube may also require corners, caps, etc.						

23 82 39 – Unit Heaters

23 82 39.16 Propeller Unit Heaters							
0010	PROPELLER UNIT HEATERS						
3950	Unit heaters, propeller, 115 V 2 psi steam, 60°F entering air						
4000	Horizontal, 12 MBH	Q-5	12	1.333 Ea.	425	84.50	509.50 595
4060	43.9 MBH		8	2	530	127	657 775
4140	96.8 MBH		6	2.667	990	169	1,159 1,350
4180	157.6 MBH		4	4	1,275	253	1,528 1,775
4240	286.9 MBH		2	8	1,800	505	2,305 2,725
4260	364 MBH		1.80	8.889	2,425	565	2,990 3,500
4270	404 MBH		1.60	10	2,650	635	3,285 3,875
4300	Vertical diffuser same price						
4310	Vertical flow, 40 MBH	Q-5	11	1.455 Ea.	690	92	782 895
4314	58.5 MBH		8	2	800	127	927 1,075
4326	131 MBH		4	4	1,175	253	1,428 1,650
4346	297 MBH		1.80	8.889	2,000	565	2,565 3,050
4354	420 MBH (460 V)	Q-6	1.80	13.333	2,575	875	3,450 4,125
4358	500 MBH (460 V)		1.71	14.035	3,275	920	4,195 4,975
4362	570 MBH (460 V)		1.40	17.143	4,075	1,125	5,200 6,150