23 82 Convection Heating and Cooling Units 23 82 39 - Unit Heaters

			Daily	Labor-		- Appendix	2022 Ba		Total	
23 82 39.16 Propeller Unit Heaters		Crew	Output	Hours	Unit	Material	Labor	Equipment	Total	Incl O&P
4366	620 MBH (460 V)	Q-6	1.30	18.462	Ea.	4,350	1,200		5,550	6,600
4370	960 MBH (460 V)	ŵ	1.10	21.818	ŵ	8,300	1,425		9,725	11,300

23 83 Radiant Heating Units

	16.10 Radiant Floor Heating								
	ADIANT FLOOR HEATING							_	
0100	Tubing, PEX (cross-linked polyethylene)								
0110	Oxygen barrier type for systems with ferrous materials								
0120	1/2"	Q-5	800	.020	L.F.	1.09	1.27	2.30	3.09
0130	3/4"	1 1	535	.030	bele	1.54	1.89	3.43	
0140]"	1 1	400	.040	1	2.41	2.53	1 4.94	
0200	Non barrier type for ferrous free systems	1 1007	1 400	.040	-	2.711	2.30	1 4.7	0.45
0210	1/2"	Q-5	800	.020	L.F.	1 (0:1	1 27	1.0	7 2.55
	•	Q-5			L.F.		1.27	1.87	
0220	3/4"	VF3	535	.030	L.F.	1.10	1.89	2.99	
0230 .	·		400	.040		1.88	2.53	4.4	5.85
1000	Manifolds								
1110 .	Brass								
1120	With supply and return valves, flow meter, thermometer,								
1122	auto air vent and drain/fill valve.	1.05	1 14	. 1 1 40	-	1 000	70.50	107.5	0.1 500
1130	1", 2 circuit	Q-5		1.143	Ea.	355	72.50	427.50	
1140	1", 3 circuit	and the second	13.50			405	75	480	555
1150	1", 4 circuit		13	1.231		440	78	518	595
1154	1", 5 circuit		12.50			520	81	601	695
1158	1", 6 circuit		12	1.333		570	84.50	654.50	
1162	1", 7 circuit			1.391		620	88 :	708	815
1166	1", 8 circuit			1.455	-	690	92	782	890
1172	1", 9 circuit	RETURN OF THE PERSON OF THE PE	10.50	1.524	-	740	96.50	836.50	960
1174	1", 10 circuit		10	1.600	1	795	101	896	1,025
1178	1", 11 circuit		9.50	1.684	1	830	107	937	1,075
1182	1", 12 circuit		9	1.778	ŵ	915	113	1,028	. 1,175
1610	Copper manifold header (cut to size)								
1620	1" header, 12 circuit 1/2" sweat outlets	Q-5	3.33	4.805	Ea.	128	305	433	595
1630	1-1/4" header, 12 circuit 1/2" sweat outlets	and the state of t	3.20	5	. !	148	315	: 463	635
1640	1-1/4" header, 12 circuit 3/4" sweat outlets		3	5.333		160	340	500	680
1650	1-1/2" header, 12 circuit 3/4" sweat outlets		3.10	5.161		192	325	517	695
1660	2" header, 12 circuit 3/4" sweat outlets	1 +	2.90	5.517	1	282	350	632	830
3000	Valves								
3110	Thermostatic zone valve actuator with end switch	Q-5	40	.400	Ea.	53	25.50	78.50	96
3114	Thermostatic zone valve actuator	; 1	36	.444	"	100	28	128	152
3120	Motorized straight zone valve with operator complete								
3130	3/4"	: Q-5	35	.457	Ea.	164	29	193	223
3140]"		32	.500	1	1 177	31.50	208.50	
3150	1-1/4"	1 +	29.60		1	226	34	260	299
3500	4 way mixing valve, manual, brass		,			, ,		,	
3530	["	1 Q-5	13 30	1.203	Ea.	234	76	310	370
3540	1-1/4"			1.404	1	254	89	343	410
3550	1-1/2"		- 11	1.455	1	325	92	417	490
3560	?" · · ·	. 1	10.60			460	95.50	555.50	
3800	Mixing valve motor, 4 way for valves, 1" and 1-1/4"		34	.471		385	30 .	415	470
	Mixing valve motor, 4 way for valves, 1-1/2" and 2"			.533	1	445	34	479	1 540