23 57 Heat Exchangers for HVAC

23 37 19 - Liquid-to-Liquid Heat Exchangers

02.5	7 19.16 Shell-Type, Liquid-to-Liquid Heat Exchangers	Crew	Daily Output	Labor-	Unit	Material	2022 Ba Labor	re Costs Equipment	Total	Total Incl O&P
23 3	7 17.10 Shell-Type, Elquid-to-Elquid Heat Exchangers	CIGW	Oulput	110012	UIIII	Mulcilui	LUDUI	Lyoipiniciti	lolui ,	nici odi
0010	SHELL-TYPE, LIQUID-TO-LIQUID HEAT EXCHANGERS									
1000	Hot water 40°F to 140°F, by water at 200°F									
1020	7 GPM	: Q-5	6	2.667	Ea.	13,300	169		13,469	14,900
1040	16 GPM		- 5	3.200		19,600	203		19,803	21,800
1060	34 GPM	1 +	4	4	+ 1	28,900	253		29,153	32,200
1100	! 74 GPM	1 Q-5	1.50	10.667	Ea.	53,000	675	1	53,675	59,500

23 62 Packaged Compressor and Condenser Units

23 62 13 - Packaged Air-Cooled Refrigerant Compressor and Condenser Units

23 62 13.10 Packaged Air-Cooled Refrig. Condensing Units

0010	PACKAGED AIR-COOLED REFRIGERANT CONDENSING UNITS			
0020	Condensing unit			
0030	Air cooled, compressor, standard controls			
0050	1.5 ton	Q-5 2.50 6.400 Ea.	1,325 405	1,730 2,050
0500	5 ton	[.60 26.667, [2,325 1,700	4,025 5,075
0600	10 ton	1 🗼 .50 32	3,425 2,025	5,450 6,800
0700	20 ton	[Q-6 .40 60 \ \	9,550 3,950	13,500 16,400

23 63 Refrigerant Condensers

23 63 13 - Air-Cooled Refrigerant Condensers

23 63 13.10 Air-Cooled Refrig. Condensers

Air cooled, belt drive, propeller fan 50 ton 59 ton 73 ton	Q-6		34.985	Ea.	21,200	2,300		23,500	26,700
59 ton	Q-6		34.985	Ea.	21,200	2 300		23 500	24 700
	: 1	. E0			/	2,000		20,300	20,700
73 ton		.58	41.308		25,400	2,725		28,125	32,000
7 0 1011	11	.47	[51.173]		33,200	3,350		36,550	41,500
86 ton	1	.40	60.302	1	38,400	3,950		42,350	48,200
88 ton	1 +	.39	61.697	+	41,200	4,050		45,250	51,500
Air cooled, direct drive, propeller fan									
1 ton	· Q-5	3.8	4.211	Ea.	1,850	267		2,117	2,425
1-1/2 ton		3.6	4.444		2,275	281		2,556	2,925
. 2 ton		3.2	5		2,425	315		2,740	3,150
5 ton		2	8 :		4,950	505		5,455	6,200
10 ton	1 1	1.4	111.429		7,650	725		8,375 [9,475
16 ton	1 [1.1	14.545	1	10,800	920		11,720	13,200
26 ton	3 ↓	.84	19.002		13,900	1,200		15,100	17,100
41 ton	Q-6	.77	31.008		19,000	2,025		21,025	23,900
63 ton		.55	44.037	i	30,000	2,900		32,900	37,300
	88 ton Air cooled, direct drive, propeller fan 1 ton 1-1/2 ton 2 ton 5 ton 10 ton 16 ton 26 ton 41 ton	86 ton 88 ton 1	86 ton 88 ton 1 .40 88 ton 1 .40 88 ton 2 .39 1 ton 2 ton 3.60 2 ton 3.20 5 ton 2 ton 10 ton 1 1.40 16 ton 26 ton 41 ton 9 6 .77	86 ton	86 ton	86 ton 88 ton 9	86 ton .40 60.302 38,400 3,950 88 ton .40 60.302 41,200 4,050	86 ton	86 ton