

# 23 64 Packaged Water Chillers

## 23 64 13 – Absorption Water Chillers

23 64 13.16 Indirect-Fired Absorption Water Chillers		Daily Crew	Labor- Output	Hours	Unit	Material	2022 Bare Costs Labor	Equipment	Total	Total Incl O&P
0010	INDIRECT-FIRED ABSORPTION WATER CHILLERS									
0020	Steam or hot water, water cooled									
0050	100 ton	Q-7	.13	240	Ea.	138,500	16,100		154,600	176,500
0400	420 ton	"	.10	323	"	440,500	21,600		462,100	517,000

## 23 64 16 – Centrifugal Water Chillers

### 23 64 16.10 Centrifugal Type Water Chillers

0010	CENTRIFUGAL TYPE WATER CHILLERS, With standard controls									
0020	Centrifugal liquid chiller, water cooled									
0030	not including water tower									
0100	2,000 ton (twin 1,000 ton units)	Q-7	.07	478	Ea.	896,000	32,000		928,000	1,033,000

## 23 64 19 – Reciprocating Water Chillers

### 23 64 19.10 Reciprocating Type Water Chillers

0010	RECIPROCATING TYPE WATER CHILLERS, With standard controls									
0494	Water chillers, integral air cooled condenser									
0980	Water cooled, multiple compressor, semi-hermetic, tower not incl.									
1090	45 ton cooling	Q-7	.29	111	Ea.	29,300	7,450		36,750	43,400
1160	100 ton cooling		.18	180		49,800	12,000		61,800	73,000
1180	125 ton cooling		.16	196		63,500	13,100		76,600	89,500
1200	145 ton cooling	↓	.16	203	↓	62,500	13,600		76,100	88,500

## 23 64 23 – Scroll Water Chillers

### 23 64 23.10 Scroll Water Chillers

0010	SCROLL WATER CHILLERS, With standard controls									
0480	Packaged w/integral air cooled condenser									
0482	10 ton cooling	Q-7	.34	94.118	Ea.	16,000	6,300		22,300	27,000
0490	15 ton cooling		.37	86.486		19,200	5,800		25,000	29,800
0500	20 ton cooling		.34	94.118		24,400	6,300		30,700	36,200
0520	40 ton cooling		.30	108		39,600	7,250		46,850	54,500
0540	70 ton cooling		.27	119		60,500	7,925		68,425	78,500
0590	100 ton cooling		.25	128		74,500	8,575		83,075	95,000
0600	110 ton cooling		.24	133		76,500	8,925		85,425	97,500
0630	130 ton cooling		.24	133		93,000	8,925		101,925	116,000
0670	170 ton cooling		.23	139		114,500	9,325		123,825	140,000
0671	210 ton cooling		.22	145		131,500	9,750		141,250	159,000
0675	250 ton cooling		.21	152		147,000	10,200		157,200	176,500
0676	275 ton cooling		.21	152		168,000	10,200		178,200	200,000
0677	300 ton cooling		.20	160		171,500	10,700		182,200	205,000
0678	330 ton cooling		.20	160		205,000	10,700		215,700	241,500
0679	390 ton cooling	↓	.19	168	↓	235,000	11,300		246,300	275,500
0680	Scroll water cooled, single compressor, hermetic, tower not incl.									
0700	2 ton cooling	Q-5	.57	28.070	Ea.	4,100	1,775		5,875	7,150
0710	5 ton cooling		.57	28.070		4,900	1,775		6,675	8,025
0740	8 ton cooling	↓	.31	52.117		6,750	3,300		10,050	12,400
0760	10 ton cooling	Q-6	.36	67.039		7,775	4,400		12,175	15,100
0800	20 ton cooling	Q-7	.38	83.990		13,800	5,625		19,425	23,600
0820	30 ton cooling	"	.33	96.096	↓	15,500	6,425		21,925	26,700
0900	Scroll water cooled, multiple compressor, hermetic, tower not incl.									
0930	30 ton cooling	Q-7	.36	88.889	Ea.	28,000	5,950		33,950	39,700
0935	35 ton cooling		.31	103		34,300	6,900		41,200	48,100
0940	40 ton cooling		.30	107		35,600	7,150		42,750	49,800
0950	50 ton cooling		.28	114		37,000	7,650		44,650	52,000
0960	60 ton cooling	↓	.25	128	↓	37,500	8,575		46,075	54,000