23 64 Packaged Water Chillers

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				Daily	Labor-			2022 Ba	re Costs		Total
) Scroll Water Chille	rs		Crew	Output	Hours	Unit	Material	Labor	Equipment	Total	Incl 0&P
75 ton cooling			Q-7	.23	139	Ea.	56,500	9,325		65,825	76,000
85 ton cooling			1	.23	139		58,000	9,325		67,325	78,000
100 ton cooling				.18	178		64,000	11,900		75,900	88,500
115 ton cooling				.17	188		56,500	12,600		69,100	81,000
125 ton cooling				.16	200	į	59,000	13,400		72,400	85,00
145 ton cooling				.16	200		91,500	13,400		104,900	120,50
	75 ton cooling 85 ton cooling 100 ton cooling 115 ton cooling 125 ton cooling	85 ton cooling 100 ton cooling 115 ton cooling 125 ton cooling	75 ton cooling 85 ton cooling 100 ton cooling 115 ton cooling 125 ton cooling	75 ton cooling Q-7 85 ton cooling 100 ton cooling 115 ton cooling 125 ton cooling	D Scroll Water Chillers Crew Output 75 ton cooling Q-7 .23	D Scroll Water Chillers Crew Output Hours 75 ton cooling Q-7 .23 139 85 ton cooling .23 139 100 ton cooling .18 178 115 ton cooling .17 188 125 ton cooling .16 200	Scroll Water Chillers Crew Output Hours Unit Hours Unit 75 ton cooling Q-7 .23 139 Ea. 85 ton cooling .23 139 100 ton cooling .18 178 115 ton cooling .17 188 125 ton cooling .16 200	Scroll Water Chillers Crew Output Hours Unit Material 75 ton cooling Q-7 .23 139 Ea. 56,500 85 ton cooling 23 139 58,000 100 ton cooling 18 178 64,000 115 ton cooling 17 188 56,500 125 ton cooling 16 200 59,000	Scroll Water Chillers Crew Output Hours Unit Hours Material Labor 75 ton cooling Q-7 .23 139 Ea. 56,500 9,325 85 ton cooling .23 139 58,000 9,325 100 ton cooling .18 178 64,000 11,900 115 ton cooling .17 188 56,500 12,600 125 ton cooling .16 200 59,000 13,400	Scroll Water Chillers Crew Output Hours Unit Hou	Scroll Water Chillers Crew Output Hours Unit Hou

23 64 26 - Rotary-Screw Water Chillers

23 64 26.10 Rotary-Screw Type Water Chillers

0010	ROTARY-SCREW TYPE WATER CHILLERS, With standard controls											
0110	Screw, liquid chiller, air cooled, insulated evaporator											
0120	130 ton		Q-7	14	229	Ea.	1	104,500	15,300		119,800	138,000
0124	160 ton		-	.13	- 246	10		135,000	16,500		151,500	172,500
0128	180 ton	1	1	.13	250	1	1	151,500	16,700		168,200	192,000
0132	210 ton	1	1	.12	258			156,000	17,300	9	173,300	198,000
0136	270 ton	1	1	.12	267	1	1	191,000	17,900		208,900	236,500
0140	320 ton	1	+	1.12	276	+	1	213,000	18,500		231,500	261,500
0200	Packaged unit, water cooled, not incl. tower										3	2. 2.
0210	80 ton		Q-7	.14	224	Ea.		55,000	15,000		70,000	83,000
0240	200 ton			.13	252	1		87,500	16,900		104,400	121,000
0270	350 ton		*	.12	276	i		168,500	18,500		187,000	213,000
1450	Water cooled, tower not included											
1580	150 ton cooling, screw compressors	1	Q-7	.13	241	Ea.	-	80,500	16,100		96,600	113,000
1620	200 ton cooling, screw compressors			.13	250	-	-	111,500	16,700	. [128,200	147,500
1660	291 ton cooling, screw compressors		+	.12	260	+	1	116,500	17,400	Material	133,900	154,000

23 65 Cooling Towers

23 65 13 - Forced-Draft Cooling Towers

23 65 13.10 Forced-Draft Type Cooling Towers

0010	FORCED-DRAFT TYPE COOLING TOWERS, Packaged units						
0070	Galvanized steel						
0080	Induced draft, crossflow						
0100	Vertical, belt drive, 61 tons	Q-6	90 .267 To	fonAC 218	17.50	235.50	0 266
0150	100 ton	111	100 .240	210	15.75	225.7	5 256
0200	115 ton	1 1	109 .220	1 183	14.45	197.4	5 223
0250	131 ton	.1 1 1	120 .200	220	13.15	233.1	5 262
0260	162 ton	1 + 1	132 .182	1 178	11.95	189.9	214
1000	For higher capacities, use multiples						and the second s
1500	Induced air, double flow						
1900	Vertical, gear drive, 167 ton	, Q-6	126 .190 To	TonAC 172	12.50	184.50	0 209
2000	297 ton	: .	129 186	106	; 12.20	118.20	135
2100	582 ton		132 .182	59	11.95	70.9	5] 83
2150	849 ton		142 .169	79.50	0 11.10	90.60	104
2200	1,016 ton	1+1	150 .160	₩ 1 80.50	0 10.50	91	104
3000	For higher capacities, use multiples						
3500	For pumps and piping, add	Q-6	38 .632 To	fonAC 109	41.50	150.50	0 182
4000	For absorption systems, add			75%	75%		
4100	Cooling water chemical feeder	Q-5	3 - 5.333	Ea. 460	340	800	1,000
5000	Fiberglass tower on galvanized steel support structure	der cha			: :		
5010	Draw thru						
5100	100 ton	Q-6 1	1.40 17.143	Ea. 14,600	1,125	15,725	17,700