## 23 65 Cooling Towers 23 65 13 - Forced-Draft Cooling Towers

			Daily	Labor-			2022 Bare Costs		Total
23 65	13.10 Forced-Draft Type Cooling Towers	Crew	Output	Hours	Unit	Material	Labor Equipment	Total	Incl O&P
5120	120 ton	Q-6	1.20	20	Ea.	17,500	1,325	18,825	21,200
5140	140 ton		1	24		17,800	1,575	19,375	22,000
5160	160 ton		.80	30		19,200	1,975	21,175	24,100
5180	180 ton		.65	36.923		22,500	2,425	24,925	28,400
5251	600 ton		.16	150		82,500	9,850	92,350	105,000
5252	1,000 ton	-	.10	250	+	137,500	16,400	153,900	175,500
5300	For stainless steel support structure, add					30%			
5360	For higher capacities, use multiples of each size								
6000 i	Stainless steel								
6010	Induced draft, crossflow, horizontal, belt drive								
6100	57 ton	Q-6	1.50	16	Ea.	29,000	1,050	30,050	33,500
6120	91 ton		.99	24.242		35,600	1,600	37,200	41,600
6140	111 ton		.43	55.814		53,500	3,675	57,175	64,500
6160	126 ton	*	.22	109	į.	55,500	7,175	62,675 ;	71,500

## 23 73 Indoor Central-Station Air-Handling Units

23 73 13 - Modular Indoor Central-Station Air-Handling Units

23 73 13.10 Air-Handling Units

	10.10 7 111 71411411113 011114				
0010	AIR-HANDLING UNITS, Built-Up				
0100	With cooling/heating coil section, filters, mixing box				
0880	Single zone, horizontal/vertical				
0890	Constant volume				
0900	1,600 CFM	Q-5   1.20   13.333 Ea.   5,650	845 i	6,495	7,450
0920	5,000 CFM	[ Q-6   1.40   17.143; [   16,400   1,	125	17,525	19,700
0940	[ 11,500 CFM	[ "   1   24   🗼   40,900   1,	575	42,475	47,400
0970	22,000 CFM	Q-6   .60   40   Ea.   82,500   2,	625	85,125	94,500
1000	40,000 CFM	5, 2 30 80 7 2 105,000 5,	250	110,250	123,500
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## 23 73 39 - Indoor, Direct Gas-Fired Heating and Ventilating Units

23 73 39.10 Make-Up Air Unit

0010	MAKE-UP AIR UNIT								
0020	Indoor suspension, natural/LP gas, direct fired,								
0032	standard control. For flue see Section 23 51 23.10								
0040	70°F temperature rise, MBH is input								
0100	75 MBH input	Q-6	6	3.60   6.667   Ea.	4,000	440		4,440	5,050
0160	150 MBH input			3   8	5,500	525		6,025	6,825
0220	225 MBH input	1		2.40   10	6,175	655	-	6,830	7,775
0300	400 MBH input	1 +		1.60   15	15,300	985	}	16,285	18,300
0600	For discharge louver assembly, add	;			5%				
0700	For filters, add				10%				
0800	For air shut-off damper section, add			<b>★</b> 1	30%				