

23 21 Hydronic Piping and Pumps

23 21 20 – Hydronic HVAC Piping Specialties

23 21 20.88 Venturi Flow	Crew	Daily Output	Labor-Hours	Unit	Material	2022 Bare Costs Labor	2022 Bare Costs Equipment	Total	Total Incl O&P
0280 6" diameter	Q-6	3.50	6.857	Ea.	1,200	450		1,650	2,000
0500 For meter, add					2,500			2,500	2,725

23 21 23 – Hydronic Pumps

23 21 23.13 In-Line Centrifugal Hydronic Pumps

0010 IN-LINE CENTRIFUGAL HYDRONIC PUMPS

0600 Bronze, sweat connections, 1/40 HP, in line									
0640 3/4" size	Q-1	16	1	Ea.	257	63		320	375
1000 Flange connection, 3/4" to 1-1/2" size									
1040 1/12 HP	Q-1	6	2.667	Ea.	685	168		853	1,000
1060 1/8 HP		6	2.667		1,250	168		1,418	1,625
1100 1/3 HP		6	2.667		1,400	168		1,568	1,800
1140 2" size, 1/6 HP		5	3.200		1,800	201		2,001	2,275
1180 2-1/2" size, 1/4 HP		5	3.200		2,425	201		2,626	2,950
2000 Cast iron, flange connection									
2040 3/4" to 1-1/2" size, in line, 1/12 HP	Q-1	6	2.667	Ea.	430	168		598	725
2100 1/3 HP		6	2.667		880	168		1,048	1,225
2101 Pumps, circulating, 3/4" to 1-1/2" size, 1/3 HP		6	2.667		1,050	168		1,218	1,400
2140 2" size, 1/6 HP		5	3.200		950	201		1,151	1,350
2180 2-1/2" size, 1/4 HP		5	3.200		1,425	201		1,626	1,875
2220 3" size, 1/4 HP		4	4		1,125	251		1,376	1,600
2600 For nonferrous impeller, add						3%			

23 21 29 – Automatic Condensate Pump Units

23 21 29.10 Condensate Removal Pump System

0010 CONDENSATE REMOVAL PUMP SYSTEM

0020 Pump with 1 gal. ABS tank									
0100 115 V									
0120 1/50 HP, 200 GPH	G	1 Stpi	12	.667	Ea.	196	47	243	285
0140 1/18 HP, 270 GPH	G		10	.800		195	56.50	251.50	299
0160 1/5 HP, 450 GPH	G		8	1		455	70.50	525.50	605
0200 230 V									
0240 1/18 HP, 270 GPH		1 Stpi	10	.800	Ea.	217	56.50	273.50	320
0260 1/5 HP, 450 GPH	G	"	8	1	"	525	70.50	595.50	680

23 22 Steam and Condensate Piping and Pumps

23 22 13 – Steam and Condensate Heating Piping

23 22 13.23 Aboveground Steam and Condensate Piping

0010 ABOVEGROUND STEAM AND CONDENSATE HEATING PIPING

0020 Condensate meter									
0100 500 lb. per hour	1 Stpi	14	.571	Ea.	4,200	40		4,240	4,650
0140 1500 lb. per hour	"	7	1.143	"	4,900	80.50		4,980.50	5,500

23 22 23 – Steam Condensate Pumps

23 22 23.10 Condensate Return System

0010 CONDENSATE RETURN SYSTEM

2000 Simplex									
2010 With pump, motor, CI receiver, float switch									
2020 3/4 HP, 15 GPM	Q-1	1.80	8.889	Ea.	2,625	560		3,185	3,700
2100 Duplex									
2110 With 2 pumps and motors, CI receiver, float switch, alternator									
2120 3/4 HP, 15 GPM, 15 gal. CI receiver	Q-1	1.40	11.429	Ea.	6,425	720		7,145	8,150