## 23 22 Steam and Condensate Piping and Pumps

23 22 23 - Steam Condensate Pumps

23 22 23.	10 Condensate Return System	Crew	Daily Output	Labor- Hours	Unit	Material	2022 Bar Labor	re Costs Equipment	Total	Total Incl O&P
2130	1 HP, 25 GPM	Q-1	1.20	13.333	Ea.	7,725	840		8,565	9,750
2140	1-1/2 HP, 45 GPM		: 1	16		9,025	1,000		10,025	11,400
2150	1-1/2 HP, 60 GPM	·	1	16	-	10,100	1,000		11,100	12,600

## 23 31 HVAC Ducts and Casings

23 31 13 - Metal Ducts

0010 RECTANGULAR METAL DUCTS

23 31 13.13 Rectangular Metal Ducts

Fabricated rectangular, includes fittings, joints, support

0020	rabilitation roctal golds, includes things, joints, supports,						
0021	allowance for flexible connections and field sketches.						
0030	Does not include "as-built dwgs." or insulation.						
0031	NOTE: Fabrication and installation are combined						
0040	as LABOR cost. Approx. 25% fittings assumed.						
0042	Fabrication/Inst. is to commercial quality standards						
0043	(SMACNA or equiv.) for structure, sealing, leak testing, etc.						
0050	Add to labor for elevated installation						
0051	of fabricated ductwork						
0052	10' to 15' high			6%			
0053	15' to 20' high			12%			
0054	20' to 25' high			15%			
0055 {	25' to 30' high		].	21%			
0056	30' to 35' high			24%			
0057	35' to 40' high	Transaction   Tr	1	30%			
0058	Over 40' high			33%			
0072	For duct insulation see Line 23 07 13.10 3000						
0100	Aluminum, alloy 3003-H14, under 100 lb.	Q-10 75 320 Lb.	3.18	20		23.18	34
0110	100 to 500 lb.	80 .300	1.80	18.90		20.70	30.50
0120	500 to 1,000 lb.	95   .253	2.04	15.95		17.99	26
0140	1,000 to 2,000 lb.	1   120   .200	1.98	12.60	1	14.58	21
0100 1	2 000 to 5 000 th	1 1 100   100   1	1.00	11 / [ ]	1	10 57 1	10.75

0056	30' to 35' high						24%			
0057	35' to 40' high	1					30%			
0058	Over 40' high	And a					33%			
0072	For duct insulation see Line 23 07 13.10 3000									
0100	Aluminum, alloy 3003-H14, under 100 lb.	2 Q-10 1	75	.320	Lb.	3.18	20		23.18	34
0110	100 to 500 lb.		80	.300		1.80	18.90		20.70	30.50
0120	500 to 1,000 lb.		95	.253		2.04	15.95	[	17.99	26
0140	1,000 to 2,000 lb.		120	.200	į į	1.98	12.60	# photosol	14.58	21
0150	2,000 to 5,000 lb.	1 1	130	.185	+	1.92	11.65	1	13.57	19.65
0160	Over 5,000 lb.	Q-10	145	.166	Lb.	1.98	10.45		12.43	17.90
9500	Galvanized steel, under 200 lb.	1 1 1 1	235	.102		.63	6.45		7.08	10.40
0520	200 to 500 lb.	1 1 1	245	.098		.70	6.20		6.90	10.05
0540	500 to 1,000 lb.		255	.094		.66	5.95		6.61	9.70
0560	1,000 to 2,000 lb.	1	265	.091		.68	5.70		6.38	9.35
0570	2,000 to 5,000 lb.	1   12	275	.087		.56	5.50		6.06	8.90
0580 [	Over 5,000 lb.	1     2	285	.084		.68	5.30	4	5.98	8.75
1000	Stainless steel, type 304, under 100 lb.		165	.145		5.20	9.15		14.35	19.50
1020	100 to 500 lb.	111	175	.137		4.17	8.65		12.82	17.65
1030	500 to 1,000 lb.	1	190	.126		3.03	7.95		10.98	15.35
1040	1,000 to 2,000 lb.	1 1 : 2	200	.120	4	2.70	7.55		10.25	14.35
1050	2,000 to 5,000 lb.	1 1 - 1	225	.107		2.33	6.75		9.08	12.70
1060 :	Over 5,000 lb.	1 + 1	235	.102	1 1	2.93	6.45		9.38	12.90
1100	For medium pressure ductwork, add						15%			
1200	For high pressure ductwork, add						40%			
1210	For welded ductwork, add						85%			
1220	For 30% fittings, add						11%			
1224	For 40% fittings, add						34%			
1228	For 50% fittings, add	1					56%			
1232	For 60% fittings, add						79%			
1236 ;	For 70% fittings, add				1		101%			