

SERVICES (ENGLISH UNITS)

MARK	UTILITY	PRESS.	SIZE	FLOW	ELEV.
1	FURNACE EXHAUST	-	3X 66.4	2500 CFM	105
2	TUBE FORER EXHAUST	7.5" H ₂ O	5.7 X 9.0	600 CFM	13.7
3	ESG CABINET EXHAUST	7.5" H ₂ O	4.5 X 17.0	500 CFM	13.7
4	SCAVENGER EXHAUST	2.0" H ₂ O	Ø 8.0	400 CFM	6.5
5	HEAT EXCHANGER WATER FEED	40-80 PSIG	50 WPT	4 GPM	103
6	HEAT EXCHANGER TUBE FORER WATER FEED	-	50 WPT	4 GPM	97
7	TUBE FORER WATER FEED	30-40 PSIG	3.8 SWG	2 GPM	6
8	TUBE FORER WATER FEED	20 PSIG	3.8 SWG	2 GPM	6
9	FORMER DRUM (DRIP RAY)	-	2.8 TB	1.9W	4
10	BRAN HEAT EXCH. SUPPLY	ISOQ REL. SETTING	2.8 TB	1.9W	5
11	H ₂ / 100 PSIG	50 PSIG	50 TUBE	150 SLM	28.5
12	H ₂ / 100 PSIG	50 PSIG	50 TUBE	150 SLM	28.5
13	H ₂ / 100 PSIG	50 PSIG	50 TUBE	150 SLM	28.5
14	H ₂ / 100 PSIG	50 PSIG	50 TUBE	150 SLM	28.5
15	H ₂ / 100 PSIG	50 PSIG	50 TUBE	150 SLM	28.5
16	H ₂ / 100 PSIG	50 PSIG	50 TUBE	150 SLM	28.5
17	H ₂ / 100 PSIG	50 PSIG	50 TUBE	150 SLM	28.5
18	H ₂ / 100 PSIG	50 PSIG	50 TUBE	150 SLM	28.5
19	H ₂ / 100 PSIG	50 PSIG	50 TUBE	150 SLM	28.5
20	H ₂ / 100 PSIG	50 PSIG	50 TUBE	150 SLM	28.5
21	H ₂ / 28 PSIG	15 PSIG	15 TUBE	4 SLM	28.5
22	H ₂ / 28 PSIG	15 PSIG	15 TUBE	4 SLM	28.5
23	H ₂ / 28 PSIG	15 PSIG	15 TUBE	4 SLM	28.5
24	H ₂ / 28 PSIG	15 PSIG	15 TUBE	4 SLM	28.5
25	H ₂ / 28 PSIG	15 PSIG	15 TUBE	4 SLM	28.5
26	H ₂ / 28 PSIG	15 PSIG	15 TUBE	4 SLM	28.5
27	H ₂ / 28 PSIG	15 PSIG	15 TUBE	4 SLM	28.5
28	H ₂ / 28 PSIG	15 PSIG	15 TUBE	4 SLM	28.5
29	H ₂ / 28 PSIG	15 PSIG	15 TUBE	4 SLM	28.5
30	H ₂ / 28 PSIG	15 PSIG	15 TUBE	4 SLM	28.5
31	H ₂ / 28 PSIG	15 PSIG	15 TUBE	4 SLM	28.5
32	H ₂ / 28 PSIG	15 PSIG	15 TUBE	4 SLM	28.5
33	H ₂ / 28 PSIG	15 PSIG	15 TUBE	4 SLM	28.5
34	H ₂ / 28 PSIG	15 PSIG	15 TUBE	4 SLM	28.5
35	H ₂ / 28 PSIG	15 PSIG	15 TUBE	4 SLM	28.5

MINIMUM WALL OPENINGS

SECTION	HEIGHT	WIDTH
FURNACE	10	60
LOAD STATION	88	36
SOURCE CABINET	106	68

ELECTRICAL

VACUUM PROCESSING TUBE NOS. 1, 250, 2, 350, 4, 550, 6, 750, 8, 950, 10, 1150, 12, 1250, 13, 1350, 14, 1450, 15, 1550, 16, 1750, 18, 1950, 20, 2150, 22, 2350, 24, 2550, 26, 2750, 28, 2950, 30, 3150, 32, 3350, 34, 3550, 36, 3750, 38, 3950, 40, 4150, 42, 4350, 44, 4550, 46, 4750, 48, 4950, 50, 5150, 52, 5350, 54, 5550, 56, 5750, 58, 5950, 60, 6150, 62, 6350, 64, 6550, 66, 6750, 68, 6950, 70, 7150, 72, 7350, 74, 7550, 76, 7750, 78, 7950, 80, 8150, 82, 8350, 84, 8550, 86, 8750, 88, 8950, 90, 9150, 92, 9350, 94, 9550, 96, 9750, 98, 9950, 100, 10150, 102, 10350, 104, 10550, 106, 10750, 108, 10950, 110, 11150, 112, 11350, 114, 11550, 116, 11750, 118, 11950, 120, 12150, 122, 12350, 124, 12550, 126, 12750, 128, 12950, 130, 13150, 132, 13350, 134, 13550, 136, 13750, 138, 13950, 140, 14150, 142, 14350, 144, 14550, 146, 14750, 148, 14950, 150, 15150, 152, 15350, 154, 15550, 156, 15750, 158, 15950, 160, 16150, 162, 16350, 164, 16550, 166, 16750, 168, 16950, 170, 17150, 172, 17350, 174, 17550, 176, 17750, 178, 17950, 180, 18150, 182, 18350, 184, 18550, 186, 18750, 188, 18950, 190, 19150, 192, 19350, 194, 19550, 196, 19750, 198, 19950, 200, 20150, 202, 20350, 204, 20550, 206, 20750, 208, 20950, 210, 21150, 212, 21350, 214, 21550, 216, 21750, 218, 21950, 220, 22150, 222, 22350, 224, 22550, 226, 22750, 228, 22950, 230, 23150, 232, 23350, 234, 23550, 236, 23750, 238, 23950, 240, 24150, 242, 24350, 244, 24550, 246, 24750, 248, 24950, 250, 25150, 252, 25350, 254, 25550, 256, 25750, 258, 25950, 260, 26150, 262, 26350, 264, 26550, 266, 26750, 268, 26950, 270, 27150, 272, 27350, 274, 27550, 276, 27750, 278, 27950, 280, 28150, 282, 28350, 284, 28550, 286, 28750, 288, 28950, 290, 29150, 292, 29350, 294, 29550, 296, 29750, 298, 29950, 300, 30150, 302, 30350, 304, 30550, 306, 30750, 308, 30950, 310, 31150, 312, 31350, 314, 31550, 316, 31750, 318, 31950, 320, 32150, 322, 32350, 324, 32550, 326, 32750, 328, 32950, 330, 33150, 332, 33350, 334, 33550, 336, 33750, 338, 33950, 340, 34150, 342, 34350, 344, 34550, 346, 34750, 348, 34950, 350, 35150, 352, 35350, 354, 35550, 356, 35750, 358, 35950, 360, 36150, 362, 36350, 364, 36550, 366, 36750, 368, 36950, 370, 37150, 372, 37350, 374, 37550, 376, 37750, 378, 37950, 380, 38150, 382, 38350, 384, 38550, 386, 38750, 388, 38950, 390, 39150, 392, 39350, 394, 39550, 396, 39750, 398, 39950, 400, 40150, 402, 40350, 404, 40550, 406, 40750, 408, 40950, 410, 41150, 412, 41350, 414, 41550, 416, 41750, 418, 41950, 420, 42150, 422, 42350, 424, 42550, 426, 42750, 428, 42950, 430, 43150, 432, 43350, 434, 43550, 436, 43750, 438, 43950, 440, 44150, 442, 44350, 444, 44550, 446, 44750, 448, 44950, 450, 45150, 452, 45350, 454, 45550, 456, 45750, 458, 45950, 460, 46150, 462, 46350, 464, 46550, 466, 46750, 468, 46950, 470, 47150, 472, 47350, 474, 47550, 476, 47750, 478, 47950, 480, 48150, 482, 48350, 484, 48550, 486, 48750, 488, 48950, 490, 49150, 492, 49350, 494, 49550, 496, 49750, 498, 49950, 500, 50150, 502, 50350, 504, 50550, 506, 50750, 508, 50950, 510, 51150, 512, 51350, 514, 51550, 516, 51750, 518, 51950, 520, 52150, 522, 52350, 524, 52550, 526, 52750, 528, 52950, 530, 53150, 532, 53350, 534, 53550, 536, 53750, 538, 53950, 540, 54150, 542, 54350, 544, 54550, 546, 54750, 548, 54950, 550, 55150, 552, 55350, 554, 55550, 556, 55750, 558, 55950, 560, 56150, 562, 56350, 564, 56550, 566, 56750, 568, 56950, 570, 57150, 572, 57350, 574, 57550, 576, 57750, 578, 57950, 580, 58150, 582, 58350, 584, 58550, 586, 58750, 588, 58950, 590, 59150, 592, 59350, 594, 59550, 596, 59750, 598, 59950, 600, 60150, 602, 60350, 604, 60550, 606, 60750, 608, 60950, 610, 61150, 612, 61350, 614, 61550, 616, 61750, 618, 61950, 620, 62150, 622, 62350, 624, 62550, 626, 62750, 628, 62950, 630, 63150, 632, 63350, 634, 63550, 636, 63750, 638, 63950, 640, 64150, 642, 64350, 644, 64550, 646, 64750, 648, 64950, 650, 65150, 652, 65350, 654, 65550, 656, 65750, 658, 65950, 660, 66150, 662, 66350, 664, 66550, 666, 66750, 668, 66950, 670, 67150, 672, 67350, 674, 67550, 676, 67750, 678, 67950, 680, 68150, 682, 68350, 684, 68550, 686, 68750, 688, 68950, 690, 69150, 692, 69350, 694, 69550, 696, 69750, 698, 69950, 700, 70150, 702, 70350, 704, 70550, 706, 70750, 708, 70950, 710, 71150, 712, 71350, 714, 71550, 716, 71750, 718, 71950, 720, 72150, 722, 72350, 724, 72550, 726, 72750, 728, 72950, 730, 73150, 732, 73350, 734, 73550, 736, 73750, 738, 73950, 740, 74150, 742, 74350, 744, 74550, 746, 74750, 748, 74950, 750, 75150, 752, 75350, 754, 75550, 756, 75750, 758, 75950, 760, 76150, 762, 76350, 764, 76550, 766, 76750, 768, 76950, 770, 77150, 772, 77350, 774, 77550, 776, 77750, 778, 77950, 780, 78150, 782, 78350, 784, 78550, 786, 78750, 788, 78950, 790, 79150, 792, 79350, 794, 79550, 796, 79750, 798, 79950, 800, 80150, 802, 80350, 804, 80550, 806, 80750, 808, 80950, 810, 81150, 812, 81350, 814, 81550, 816, 81750, 818, 81950, 820, 82150, 822, 82350, 824, 82550, 826, 82750, 828, 82950, 830, 83150, 832, 83350, 834, 83550, 836, 83750, 838, 83950, 840, 84150, 842, 84350, 844, 84550, 846, 84750, 848, 84950, 850, 85150, 852, 85350, 854, 85550, 856, 85750, 858, 85950, 860, 86150, 862, 86350, 864, 86550, 866, 86750, 868, 86950, 870, 87150, 872, 87350, 874, 87550, 876, 87750, 878, 87950, 880, 88150, 882, 88350, 884, 88550, 886, 88750, 888, 88950, 890, 89150, 892, 89350, 894, 89550, 896, 89750, 898, 89950, 900, 90150, 902, 90350, 904, 90550, 906, 90750, 908, 90950, 910, 91150, 912, 91350, 914, 91550, 916, 91750, 918, 91950, 920, 92150, 922, 92350, 924, 92550, 926, 92750, 928, 92950, 930, 93150, 932, 93350, 934, 93550, 936, 93750, 938, 93950, 940, 94150, 942, 94350, 944, 94550, 946, 94750, 948, 94950, 950, 95150, 952, 95350, 954, 95550, 956, 95750, 958, 95950, 960, 96150, 962, 96350, 964, 96550, 966, 96750, 968, 96950, 970, 97150, 972, 97350, 974, 97550, 976, 97750, 978, 97950, 980, 98150, 982, 98350, 984, 98550, 986, 98750, 988, 98950, 990, 99150, 992, 99350, 994, 99550, 996, 99750, 998, 99950, 1000, 100150, 1002, 100350, 1004, 100550, 1006, 100750, 1008, 100950, 1010, 101150, 1012, 101350, 1014, 101550, 1016, 101750, 1018, 101950, 1020, 102150, 1022, 102350, 1024, 102550, 1026, 102750, 1028, 102950, 1030, 103150, 1032, 103350, 1034, 103550, 1036, 103750, 1038, 103950, 1040, 104150, 1042, 104350, 1044, 104550, 1046, 104750, 1048, 104950, 1050, 105150, 1052, 105350, 1054, 105550, 1056, 105750, 1058, 105950, 1060, 106150, 1062, 106350, 1064, 106550, 1066, 106750, 1068, 106950, 1070, 107150, 1072, 107350, 1074, 107550, 1076, 107750, 1078, 107950, 1080, 108150, 1082, 108350, 1084, 108550, 1086, 108750, 1088, 108950, 1090, 109150, 1092, 109350, 1094, 109550, 1096, 109750, 1098, 109950, 1100, 110150, 1102, 110350, 1104, 110550, 1106, 110750, 1108, 110950, 1110, 111150, 1112, 111350, 1114, 111550, 1116, 111750, 1118, 111950, 1120, 112150, 1122, 112350, 1124, 112550, 1126, 112750, 1128, 112950, 1130, 113150, 1132, 113350, 1134, 113550, 1136, 113750, 1138, 113950, 1140, 114150, 1142, 114350, 1144, 114550, 1146, 114750, 1148, 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