

STANDARD HYDRO-ARC® SHELL CAPACITIES

Whiting Hydro-Arc® electric furnaces have a reputation for highly efficient melting. Operators of Hydro-Arc Furnaces report higher productions especially when compared with other makes of the same capacities.

Hydro-Arc® engineers design their furnace to be rugged. The furnace shell is made of thick welded steel plate, substantially reinforced and water-cooled. The deep sidewalls and dished bottom provide extra capacity for light scrap – retain the best contour for wide contact between slag and metal and for complete drainage when pouring.

The dish shaped furnace bottom avoids over-insulated corners and refractory hot spots that can mean added maintenance.

When you buy a Whiting Hydro-Arc® furnace, you can be sure you're getting all the performance you've ordered and more.



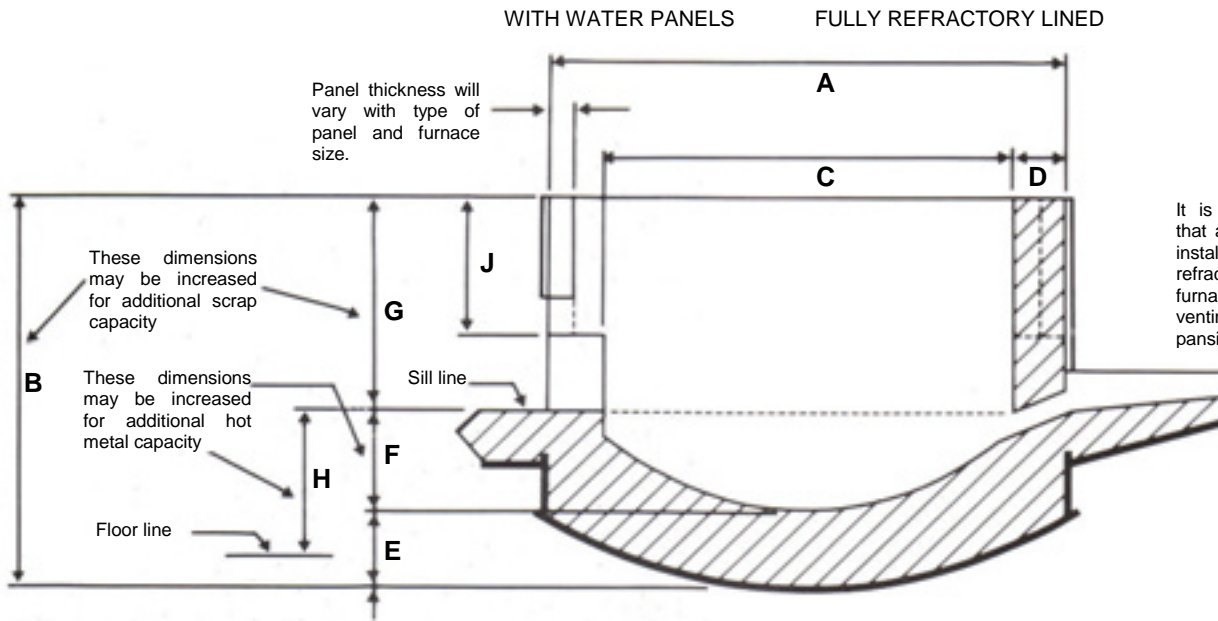
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STANDARD HYDRO-ARC® FURNACE SHELL CAPACITIES



For hot metal operation, this dimension may be decreased up to 25% for increased metal capacity

It is recommended that a sand seal be installed between refractory wall and furnace shell for venting and expansion.

*Approx. increase in scrap capacity per foot of depth for each inch decrease in wall thickness.
Example: 2" decrease in wall thickness for 7'-3 I.D. furnace shell will increase scrap capacity by 1.6 x 2 x 1-3/12 = 4 cu. ft.

Dia. A	Depth B	Molten Metal Capy. To Sill Line Lbs.	Molten Metal Wt. Per Inch of Depth Lbs.	Scrap Capy. Cu. Ft.	Scrap Capy. Per Foot of Depth Cu. Ft.	Inside Dia. New Lining C	Wall Thickness D	Bottom Thickness E	Metal Depth To Sill F	Shell Above Sill G	Sill Height Above Floor H	Depth Panels J	Cu. Ft. Per Foot Per Inch*
3'-4"	2'-6"	900	150	7	4.3	2'-4"	6"	9"	7 1/2"	13 1/2"	2'-8"	-----	-----
4'-0"	3'-0"	1800	250	14	7.1	3'-0"	6"	10"	9 1/2"	16 1/2"	2'-8"	-----	-----
5'-0"	3'-9"	3540	450	31	12.6	4'-0"	6"	12"	11"	1'-10"	2'-6"	-----	-----
6'-0"	4'-6"	6220	700	51	19.6	5'-0"	6"	15"	1'-1"	2'-2"	2'-6"	-----	-----
7'-3"	5'-6"	10770	930	97	26	5'-9"	9"	17"	1'-4"	2'-9"	2'-6"	1'-3"	1.6
8'-0"	6'-0"	14100	1190	135	33.2	6'-6"	9"	18"	1'-5"	3'-1"	2'-4"	1'-7"	1.8
9'-0"	6'-9"	20700	1580	210	44.2	7'-6"	9"	18"	1'-7"	3'-8"	2'-4"	2'-2"	2.1
10'-0"	7'-6"	33000	2030	310	56.7	8'-6"	9"	18"	1'-11"	4'-1"	2'-4"	2'-7"	2.3
11'-0"	8'-3"	44500	2540	435	70.9	9'-6"	9"	18"	2'-1"	4'-8"	2'-4"	3'-2"	2.6
12'-6"	9'-9"	65200	3100	640	86.6	10'-6"	12"	20"	2'-5"	5'-8"	2'-4"	4'-2"	3.0
13'-6"	10'-5"	80600	3560	800	99.4	11'-3"	13 1/2"	20"	2'-7"	6'-2"	2'-4"	4'-8"	3.2
14'-0"	11'-0"	94000	3890	925	108	11'-9"	13 1/2"	21"	2'-9"	6'-6"	2'-4"	5'-0"	3.3
15'-0"	11'-10"	116200	4580	1190	128	12'-9"	13 1/2"	21"	2'-11"	7'-2"	2'-4"	5'-8"	3.5
16'-0"	11'-11"	136300	5320	1380	149	13'-9"	13 1/2"	21"	3'-0"	7'-2"	2'-4"	5'-8"	3.8
17'-0"	12'-4"	163100	6120	1600	171	14'-9"	13 1/2"	24"	3'-2"	7'-2"	2'-4"	5'-8"	4.1
18'-0"	12'-5"	187500	6980	1830	195	15'-9"	13 1/2"	24"	3'-3"	7'-2"	2'-4"	5'-8"	4.3
19'-0"	12'-6"	213700	7900	2080	220	16'-9"	13 1/2"	24"	3'-4"	7'-2"	2'-4"	5'-8"	4.6
20'-0"	13'-4"	241900	8870	2520	247	17'-9"	13 1/2"	24"	3'-5"	7'-11"	2'-4"	6'-5"	4.8
21'-0"	14'-5"	291800	9890	3100	276	18'-9"	13 1/2"	24"	3'-8"	8'-9"	2'-4"	7'-3"	5.1
22'-0"	14'-7"	337100	10980	3470	306	19'-9"	13 1/2"	24"	3'-10"	8'-9"	2'-4"	7'-3"	5.3
23'-0"	15'-1"	396400	12120	3880	338	20'-9"	13 1/2"	27"	4'-1"	8'-9"	2'-4"	7'-3"	5.6
24'-0"	15'-3"	451600	13310	4300	372	21'-9"	13 1/2"	27"	4'-3"	8'-9"	2'-4"	7'-3"	5.9
25'-0"	15'-4"	497400	14570	4710	407	22'-9"	13 1/2"	27"	4'-4"	8'-9"	2'-4"	7'-3"	6.1
26'-0"	15'-5"	545500	15880	5150	443	23'-9"	13 1/2"	27"	4'-5"	8'-9"	2'-4"	7'-3"	6.4
28'-0"	15'-10"	645200	18660	6060	521	25'-9"	13 1/2"	30"	4'-7"	8'-9"	2'-4"	7'-3"	6.9
30'-0"	15'-11"	737000	21670	7010	605	27'-9"	13 1/2"	30"	4'-8"	8'-9"	2'-4"	7'-3"	7.4
32'-0"	16'-10"	832900	24910	8020	695	29'-9"	13 1/2"	30"	4'-9"	8'-9"	2'-4"	7'-3"	8.0

Ratings Based on Molten Density of 430 lbs/cu .ft.