

13-52 1/16 Plate 4.625 - .9375

13-6 7/16 14 1/16 (-68 4.625 4625) 3.68750 (99.7%)  
 162 16/150 (937 Rint 3 x .69 x 7 x 85  
 144 60 48 126 4 x 4.625 x .68

4.625  
 9375  
 3.68750 (99.7%)  
 32375  
 45000  
 41625  
 33750

69 21 4.625  
 69 18.522  
 138 68 1480  
 144 9 85 1110  
 7245 12.580  
 11592  
 1231.65 (97.9%)  
 11322  
 7945  
 8806  
 11390

53 120 Shell 21 - (11-2) 79.7  
 63-40 162.43

Furnace

1075200 x .53  
 78 x 40.5  
 40.5 1075200  
 390 .53  
 3120 3225600  
 3159.0 5376000  
 56985600  
 53

21 189 79.7  
 1323  
 1701  
 1323  
 162.43 15003.30 (92.7%)  
 146187  
 144460  
 32486  
 119740  
 113701

Comb Chr

120 x 7.52 75  
 8.6252 75  
 8.625 375  
 43125 56.25  
 17250 120  
 51750 6750.00  
 69000 66951  
 74390625 549000  
 52073

1709568  
 2849280  
 3159 302023.68 (95.6%)  
 28431  
 17713  
 15795  
 19186

Chr2 Slow Stop

8000 x .96  
 74.39 7680.00 (103.2%)  
 7439  
 24100  
 22377  
 17830

185 x 142  
 202 185  
 185  
 2590  
 14  
 10360  
 2590  
 362.60  
 90.6546

$\frac{C \times T^2}{P^2} = P$   $C \times T^2 = P^2 \times P = \frac{C \times T^2}{P} = P$  2nd plate Steam Space

185 x 142 = P 135 x 142  
 90 90

2nd plate Stay

29.55

Low Back In

135 x (10 + 8/2)  
 12.52 = 135 x 142  
 12.52 = 16906

4.9 7500  
 24500  
 343  
 367.500  
 91.8

7500 x 4.46 4.46  
 400 7500 400  
 223000  
 3122  
 400 334.5000  
 83.5

7500 x 5.45  
 400

2nd plate - pitch 4.75 4.75  
 back 140 x 102 14000 (97.6%)  
 12 144 1296  
 1040  
 1000

Drunk 120 x (10 + 8/2)  
 14.5  
 14.5  
 72.5  
 580  
 14.5  
 210.25

196 120 107.6  
 225200 (107.6%)  
 21025  
 149500

7500 7500  
 5.45 5.45  
 37500 37500  
 30000 30000  
 37500 4087500  
 400 400  
 875 102



$$\text{Sunder } 9900 \times 6.75^2 \times 1.5$$

$$(29.5 - 8.625) 29.5 + 8.75$$

$$8.625$$

$$20.875$$

$$29.5$$

$$104375$$

$$187875$$

$$21750$$

$$4158125$$

$$8.75$$

$$20790625$$

$$29106875$$

$$33265000$$

$$3638.3575$$

$$29.5$$

$$8.625$$

$$20.875$$

$$29.5$$

$$104375$$

$$187875$$

$$41750$$

$$6158125$$

$$8.75$$

$$307905$$

$$431067$$

$$492648$$

$$5388.3375$$

$$\text{Superheated}$$

$$19.5 + (5-2) 59$$

$$58.5$$

$$59$$

$$5265$$

$$2925$$

$$3451.5$$

$$115$$

$$\begin{array}{r} 2.819 \\ 2) 1.19 \\ \hline 5.9 \end{array}$$

$$\begin{array}{r} 6.75 \\ 6.75 \\ \hline 3375 \\ 4725 \\ \hline 4050 \end{array}$$

$$\begin{array}{r} 4555625 \\ 227812 \\ \hline 683437 \\ 9900 \end{array}$$

$$\begin{array}{r} 615093300 \\ 6150933 \\ \hline 6766026300 \\ 363826 \end{array}$$

$$\begin{array}{r} 3127666 \\ 2910688 \\ \hline 2069783 \end{array}$$

$$5388.33) 676602.63 \quad (125.5 \text{ lbs})$$

$$\begin{array}{r} 538833 \\ \hline 1377696 \\ 1077666 \\ \hline 3000303 \\ 2694165 \\ \hline 306138 \end{array}$$



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