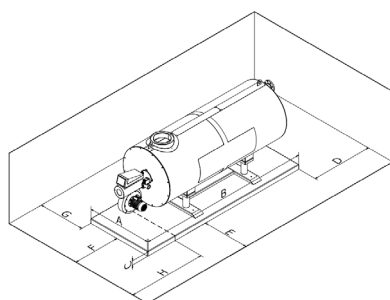


|                                     |           | BKBD-0.5 | BKBD-0.75 | BKBD-1  | BKBD-2  | BKBD-3  | BKBD-4  | BKBD-5  | BKBD-6 |
|-------------------------------------|-----------|----------|-----------|---------|---------|---------|---------|---------|--------|
| Boiler Output                       | MMBTU/hr  | 0.50     | 0.75      | 1.00    | 2.00    | 3.00    | 4.00    | 5.00    | 6.00   |
|                                     | kW        | 147      | 220       | 293     | 586     | 879     | 1172    | 1465    | 1758   |
| Efficiency Net @ 80/69°C            | %         | 108      | 108       | 108     | 108     | 108     | 108     | 108     | 108    |
| Input (Max)                         | MMBTU/hr  | 0.5      | 0.8       | 1.03    | 2.1     | 3.1     | 4.1     | 5.2     | 6.2    |
|                                     | kW        | 151.1    | 226.6     | 302.1   | 604.3   | 906.4   | 1208.6  | 1510.7  | 1812.8 |
| Input (Min)                         | MMBTU/hr  | 0.1      | 0.2       | 0.2     | 0.4     | 0.6     | 0.8     | 1.0     | 1.2    |
|                                     | kW        | 30.2     | 45.3      | 60.4    | 120.9   | 181.3   | 241.7   | 302.1   | 352.5  |
| Flue Temperature @ 69°C Return Temp | °F        | 180.0    | 180.0     | 180.0   | 180.0   | 180.0   | 180.0   | 180.0   | 180.0  |
|                                     | °C        | 82.2     | 82.2      | 82.2    | 82.2    | 82.2    | 82.2    | 82.2    | 82.2   |
| Water Flow Temperature              | °F        | 176.0    | 176.0     | 176.0   | 176.0   | 176.0   | 176.0   | 176.0   | 176.0  |
|                                     | °C        | 80.0     | 80.0      | 80.0    | 80.0    | 80.0    | 80.0    | 80.0    | 80.0   |
| Range of Temperature Control        | °F        | 68-194   | 68-194    | 68-194  | 68-194  | 68-194  | 68-194  | 68-194  | 68-194 |
|                                     | °C        | 20-90    | 20-90     | 20-90   | 20-90   | 20-90   | 20-90   | 20-90   | 20-90  |
| Furnace Diameter                    | inch      | 17.71    | 18.7      | 19.68   | 23.03   | 24.8    | 26.37   | 29.13   | 30.7   |
|                                     | mm        | 450      | 475       | 500     | 585     | 630     | 670     | 740     | 780    |
| Furnace Length                      | inch      | 28.57    | 38.09     | 48.85   | 67.46   | 81.56   | 101.95  | 118.94  | 127.44 |
|                                     | mm        | 725.8    | 967.7     | 1241.0  | 1713.5  | 2071.7  | 2589.6  | 3021.2  | 3237   |
| Furnace Volume                      | Ft³       | 5.056    | 7.511     | 10.68   | 18.84   | 26.424  | 37.357  | 53.166  | 63.288 |
|                                     | M³        | 0.143    | 0.212     | 0.302   | 0.533   | 0.748   | 1.057   | 1.505   | 1.792  |
| Furnace Gas Side Resistance         | "Wg       | 1        | 1.25      | 1.5     | 1.75    | 2       | 2.0     | 2.0     | 2.5    |
|                                     | mbar      | 2.5      | 3.125     | 3.75    | 4.375   | 5.0     | 5.0     | 5.0     | 6.25   |
| Volume Air into Boiler              | Cuft/hr   | 5750.0   | 8625.0    | 11500.0 | 23000.0 | 34500.0 | 46000.0 | 57500.0 | 69000  |
|                                     | m³/hr     | 162.8    | 244.2     | 325.6   | 651.3   | 976.9   | 1302.6  | 1628.2  | 1953.8 |
| Volume Gas into Boiler              | Cuft/hr   | 515.5    | 733.2     | 1030.9  | 2061.9  | 3092.8  | 4123.7  | 5154.6  | 6185.6 |
|                                     | m³/hr     | 14.6     | 21.9      | 29.2    | 58.4    | 87.6    | 116.8   | 146.0   | 175.2  |
| Water Flow                          | US Gal/hr | 3240.0   | 4860.0    | 6480.0  | 12960.0 | 19440.0 | 25920.0 | 32400.0 | 38880  |
|                                     | m³/hr     | 12.3     | 18.4      | 24.5    | 49.1    | 73.6    | 98.1    | 122.6   | 147.2  |
| Boiler Water Pressure Loss          | PSI       | 0.3      | 0.3       | 0.3     | 0.3     | 0.3     | 0.3     | 0.3     | 0.3    |
|                                     | mBar      | 20.2     | 20.2      | 20.2    | 20.2    | 20.2    | 20.2    | 20.2    | 20.2   |
| Standing Losses                     | %         | 0.1      | 0.1       | 0.1     | 0.1     | 0.1     | 0.1     | 0.1     | 0.1    |
| Maximum Hourly Condensation         | US Gal/hr | 5.9      | 8.85      | 11.80   | 23.6    | 35.4    | 47.2    | 59      | 70.8   |
|                                     | L/hr      | 22.43    | 33.64     | 44.86   | 86.72   | 134.58  | 174.44  | 224.3   | 269.16 |
| Boiler Maximum Height               | inch      | 44.8     | 44.8      | 44.8    | 51.6    | 56.1    | 58.3    | 62.8    | 71.7   |
|                                     | mm        | 1138.9   | 1138.9    | 1138.9  | 1309.8  | 1423.7  | 1480.6  | 1594.5  | 1822.3 |
| Boiler Maximum Width                | inch      | 30.0     | 30.0      | 30.0    | 34.5    | 37.5    | 39.0    | 42.0    | 48.0   |
|                                     | mm        | 762.0    | 762.0     | 762.0   | 876.3   | 952.5   | 990.6   | 1066.8  | 1219.2 |
| Boiler Maximum Length               | inch      | 49.6     | 70.2      | 82.6    | 128.9   | 161.1   | 182.5   | 201.5   | 217.2  |
|                                     | mm        | 1258.8   | 1783.3    | 2089.0  | 3272.9  | 4091.2  | 4636.7  | 5119.2  | 5517.8 |
| Flue Sizes                          | inch      | 6        | 6         | 8       | 10      | 10      | 12      | 14      | 14     |
|                                     | mm        | 150      | 150       | 200     | 250     | 250     | 300     | 350     | 350    |
| Water Flange Connection Sizes       | ASA 150   | 2"       | 2"        | 2.5"    | 3"      | 4"      | 4"      | 5"      | 6"     |
|                                     | PN16      | DN50     | DN50      | DN65    | DN80    | DN100   | DN100   | DN125   | DN150  |



- A** Housekeeping Pad Width
- B** Housekeeping Pad Length
- C** Housekeeping Pad Height
- D** Rear Clearance
- E** Right Clearance
- F** Front Clearance
- G** Left Clearance
- H** Exchanger Clearance

## DIMENSIONS (mm [in])

| BOILER MODEL | A Min       | B Min        | C Rec   | D Min      | D Rec       | E Min     | E Rec       | F Min     | F Rec       | G Min     | G Rec       | H Min      |
|--------------|-------------|--------------|---------|------------|-------------|-----------|-------------|-----------|-------------|-----------|-------------|------------|
| BKBD-0.5     | 689 [27.2]  | 1095 [43.1]  | 100 [4] | 750 [29.5] | 1250 [49.2] | 200 [7.9] | 1000 [39.4] | 1500 [59] | 2500 [98.5] | 200 [7.9] | 1000 [39.4] | 1200 [47]  |
| BKBD-0.75    | 730 [28.7]  | 1345 [53]    |         |            |             |           |             |           |             |           |             | 1400 [55]  |
| BKBD-1       | 753 [29.7]  | 1490 [58.7]  |         |            |             |           |             |           |             |           |             | 1650 [65]  |
| BKBD-2       | 920 [36.3]  | 2100 [82.7]  |         |            |             |           |             |           |             |           |             | 2200 [87]  |
| BKBD-3       | 1011 [39.8] | 2470 [97.3]  |         |            |             |           |             |           |             |           |             | 2600 [103] |
| BKBD-4       | 1092 [43]   | 2995 [117.9] |         |            |             |           |             |           |             |           |             | 3000 [118] |
| BKBD-5       | 1183 [46.6] | 3470 [136.6] |         |            |             |           |             |           |             |           |             | 3300 [130] |
| BKBD-6       | 1254 [49.4] | 3670 [144.5] |         |            |             |           |             |           |             |           |             | 3700 [146] |