



THE ABMA RADIATION LOSS CURVE

The ABMA Radiation Loss Curve chart is not a current ABMA technical document, the Curve has not been revised or reissued by ABMA since its inception, ABMA no longer distributes the chart, and as such, we have not maintained any details as to how it was originally formulated. In this context, whether it is used as a tool to help determine radiation loss as a component of efficiency should first be the subject of agreement between both the equipment purchaser and the equipment seller. With regard to the most accurate calculation of radiation losses, ABMA continues to refer all interested parties to the individual boiler manufacturer for radiation loss estimates on that manufacturer's specific boilers. Even within a given product line the losses may vary depending upon unit size and actual operating conditions (temperature/pressure). There is also a formula provided in the ASME Performance Test Codes to calculate boiler radiation loss as a function of surface. The Radiation Loss Curve was the basis for procedures contained in ASME PTC 4.1 – which is no longer maintained by the ASME. The newer ASME PTC 4 formula is considered more analytical, and usually requires a longer, more detailed and more expensive performance test (typically performed by and at the expense of the equipment purchaser). The American Boiler Manufacturers Association does not assume responsibility or liability for consequences arising from the use of the Radiation Loss Curve chart.

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