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**Technical Information**

PBBS Equipment Corp. is pleased to offer you the following technical resources in Adobe PDF format. If you do not have Adobe Acrobat Reader, you can download a free copy.

*Maintaining a Boiler Log* - A boiler log provides a written record of the boiler operating conditions on a given day and at a given time. If you would like to begin a boiler log program, please contact us.

*Avoiding Thermal Shock* is a crucial topic for anyone running hot water boilers. To prevent a surprise in your hot water system, contact us to discuss your control strategy.

*Low water levels* pose a hazard and should be avoided at all costs. Read the article on low water control hazards and avoid problems in your boiler room.

Learn the important aspects of putting your boiler up for the season with this informative article on *boiler lay-up*.

PBBS offers free technical literature to help you get the most from your boiler room.

Order FREE Technical Literature.

- The Efficiency Facts Booklet is designed to clearly define boiler efficiency.
- The Boiler Guide is the foremost guide on all aspects of boiler room equipment.

**Engineering Calculations**

These calculations are only meant to serve as guidelines. They are not warranted or guaranteed by PBBS, and in no way should be relied upon or serve as a substitute for the services of a qualified and competent professional engineer.

**Question:**

*How large should a boiler feed tank be?*

**Answer:**

The boiler feed tank should be large enough to supply about ten minutes of water with the boiler running at full output and the make-up valve to the boiler feed system shut. Keep in mind, we are talking about the flooded capacity of the feed tank. The tank is typically only half full and, therefore, really will only provide about 5 minutes of feed water (if the make-up valve is shut or defective). Also, if the steam system is for heating, the tank may need to be bigger than what is described in this "rule of thumb", and depends on several additional factors such as EDR, set back, etc.

**Question:**

*Can I determine the capacity of a feed tank based on its dimensions?*

**Answer:**

Yes, it is very easy. The formula is 5.8 times the diameter (in feet) squared times the length (in feet) equals flooded capacity (in gallons).