ASME Buffer Tanks for Hot Water Systems
Tank Sizing

What is a hot water buffer tank?
The Wheatley hot water buffer tank (HS) is designed to be used with today's low mass, high efficiency boiler systems. The Wheatley HS series hot water buffer tank affords the needed volume and thermal mass to negate or minimize short cycling during no load or low load conditions.

How do I size a hot water buffer tank?
Once again quite simple.

\[
\frac{MCT \times (MBO-MSO)}{\Delta T \times 500} = CBTR
\]

*Typically 1-5 minute
** Enter 0 if not specified
*** Typically 10-20

Example:
MCT - 3 minutes
MBO-900,0000 BTUH
MSO-Unknown, Enter 0
\[\Delta T = 20
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\[
3 \times (900,0000-0) = 2,700,000 = 270 \text{ Gallon CBTR Hot Water Buffer Tank Required}
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Please see our website for further details.