

Example: Select an atomizer for 221 gph and determine atomizing steam consumption at 70 psi.

Solution: Choose a 5643-3 Atomizer. Oil Ratio will be $221/2400 = 0.09$. From Figure 1, Steam Ratio will be 0.83. Multiplying 0.83 times 660 gives about 550 lb/hr atomizing steam consumed at 80 psi. For 70 psi steam pressure, Figure 2 shows a correction factor of 0.9, which times 550 gives a steam consumption of 495 lb/hr at 70 psi. If compressed air is used, 550 times $\frac{1}{3}$ gives 183 scfm atomizing air at 80 psi. For 70 psi multiply by 0.9 to get 165 scfm. (Multiplying 495 by $\frac{1}{3}$ also gives 165 scfm.)

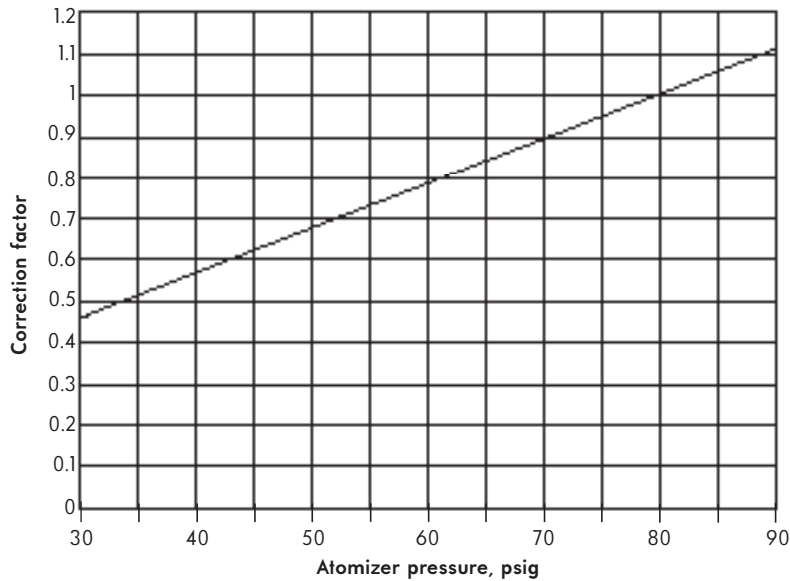
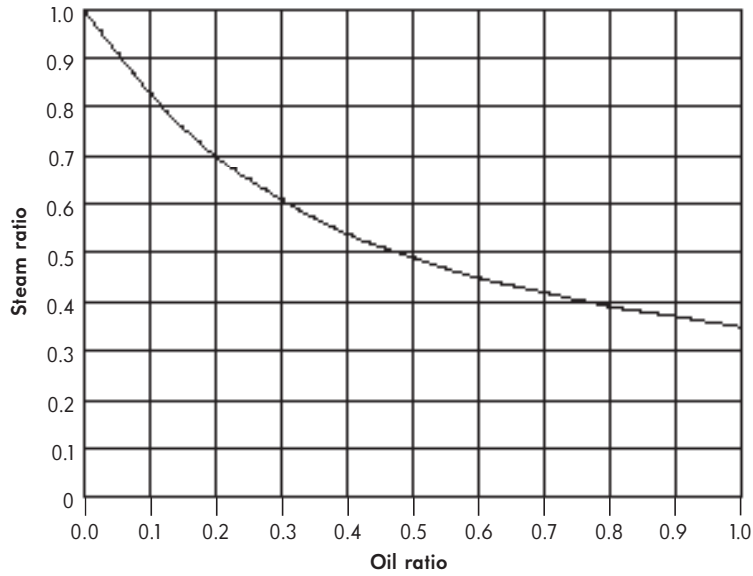


Figure 2. Correction Factors for atomizing medium if at a pressure other than 80 psig.

WARNING: Situations dangerous to personnel and property may exist with the operation and maintenance of any combustion equipment. The presence of fuels, oxidants, hot and cold combustion products, hot surfaces, electrical power in control and ignition circuits, etc., are inherent with any combustion application. Components in combustion systems may exceed 160°F (71°C) surface temperatures and present hot surface contact hazard. Fives North American Combustion, Inc. suggests the use of combustion systems that are in compliance with all Safety Codes, Standards, Regulations and Directives; and care in operation.

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