

Errata to *Principles of Heating, Ventilating, and Air Conditioning*

2/21/06

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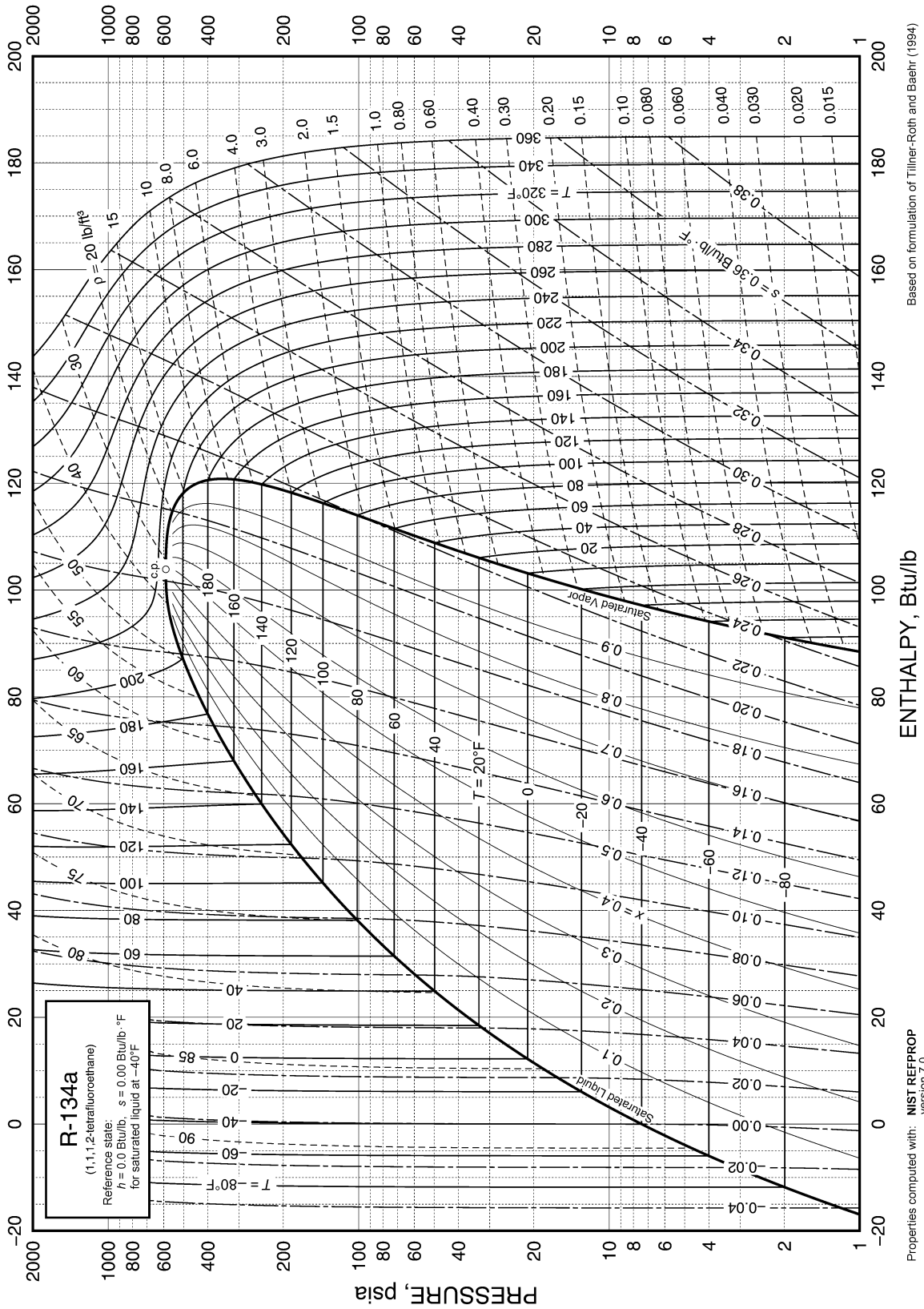


Fig. 2-5 Pressure-Enthalpy Diagram for Refrigerant 134a
 (Figure 8, chapter 20, 2005 ASHRAE Handbook—Fundamentals)

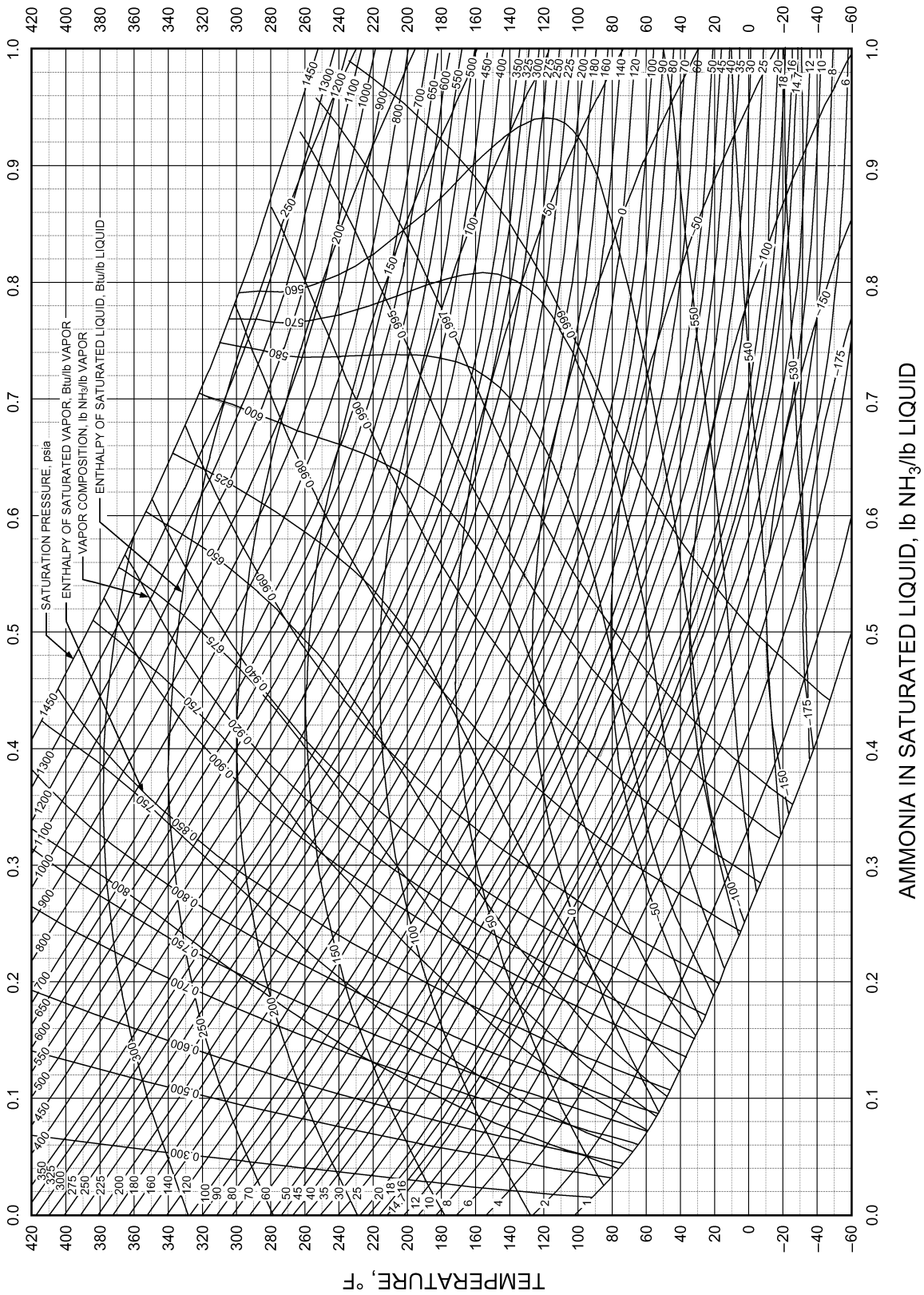


Fig. 2-6 Enthalpy-Concentration Diagram for Aqua-Ammonia
 (Figure 33, chapter 20, 2005 ASHRAE Handbook—Fundamentals)

EQUATIONS

1. $t = At' + B$
2. $t' = (t - B)/A$
3. $A = -2.00755 + 0.16976X - (3.133362 E - 3)X^2 + (1.97668 E - 5)X^3$
4. $B = 321.128 - 19.322X + 0.374382X^2 - (2.0637 E - 3)X^3$
5. $\log_{10} P = C + D/(t' + 459.72) + E/(t' + 459.72)^2$
6. $t' = \frac{-2E}{D + [D^2 - 4E(C - \log_{10} P)]^{0.5}} - 459.72$

Temperature Range (Refrigerant) $0 < t' \leq 230^\circ\text{F}$
 Temperature Range (Solution) $40 < t \leq 350^\circ\text{F}$
 Concentration Range $45\% < X \leq 70\%$

$C = 6.21147$
 $D = -2886.373$
 $E = -337269.46$
 $t' =$ Refrigerant Temperature, $^\circ\text{F}$
 $t =$ Solution Temperature, $^\circ\text{F}$
 $X =$ Percent LiBr
 $P =$ psia

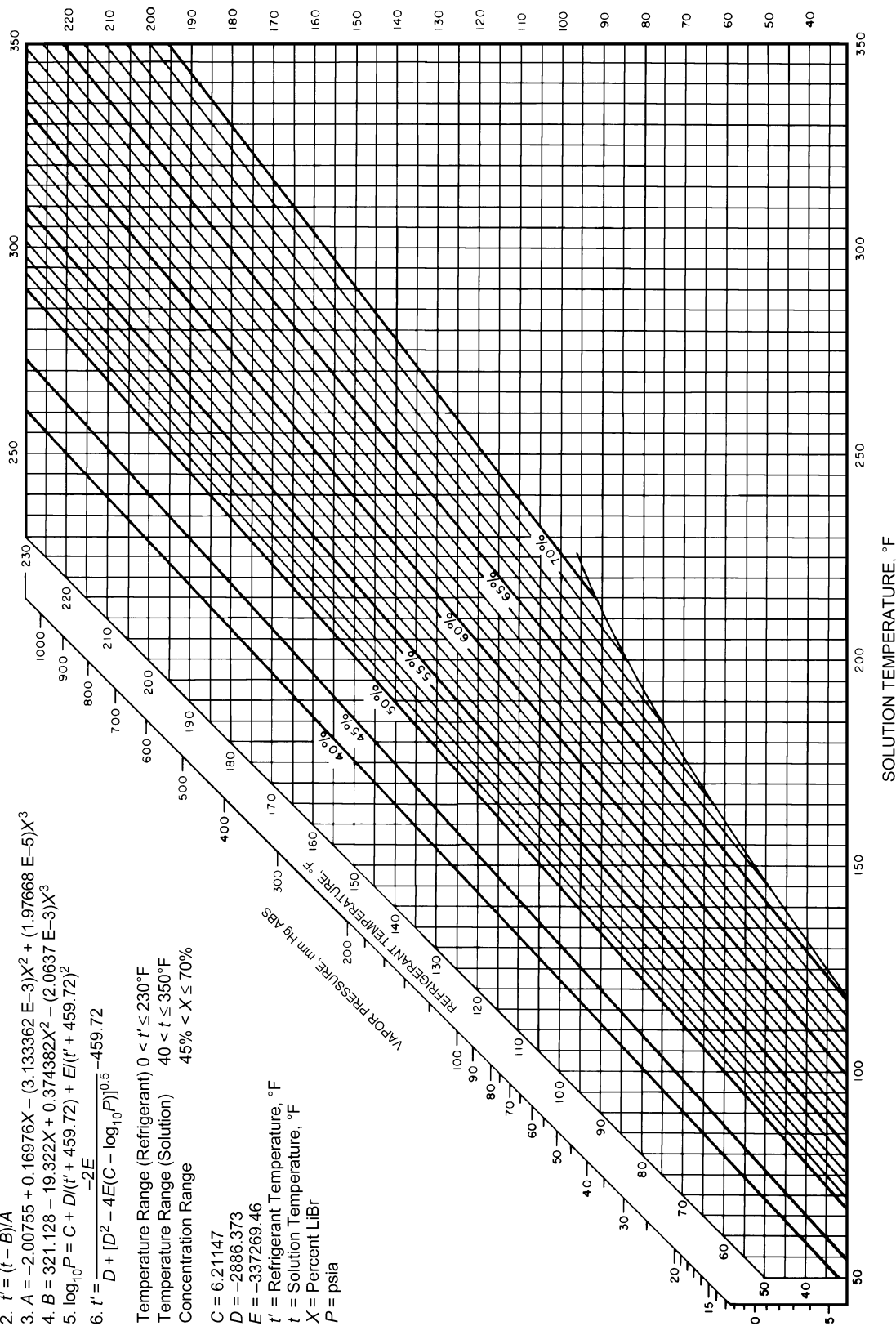


Fig. 2-7a Equilibrium Chart for Aqueous Lithium Bromide Solutions
 (Figure 35, chapter 20, 2005 ASHRAE Handbook—Fundamentals)

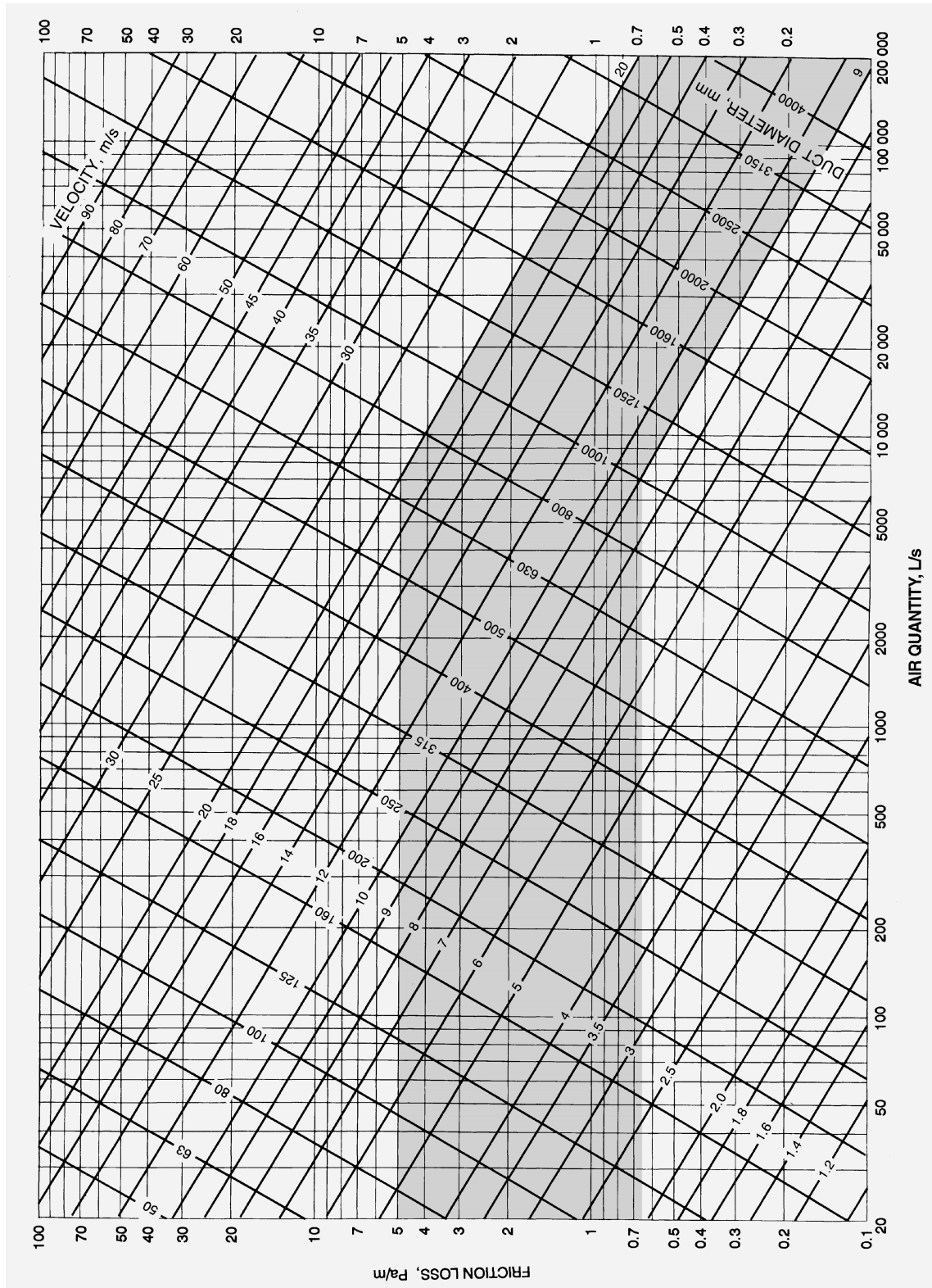


Fig. 9-2 SI Friction of Air in Straight Ducts
(Figure 9, chapter 35, 2005 ASHRAE Handbook—Fundamentals)