

Lessons Earned: Air Distribution

Lessons Earned: Air Distribution Systems
Avoid Hassles with Air Distribution Systems and Learn From Others' Mistakes

CENTRIFUGAL FAN LAWS

GIVEN: 2400 CFM / 4.0" STATIC PRESSURE (SP) / 3274 RPM / 2.7 BHP

FIND: PERFORMANCE AT 3800 RPM - SAME SYSTEM CURVE AND FAN

$$CFM_2 = \frac{RPM_2}{RPM_1} \times CFM_1 = \frac{3800}{3274} \times 2400 = 2780 \text{ CFM}$$

$$SP_2 = \left[\frac{RPM_2}{RPM_1} \right]^2 \times SP_1 = \left[\frac{3800}{3274} \right]^2 \times 4.0 = 5.4"$$

$$BHP_2 = \left[\frac{RPM_2}{RPM_1} \right]^3 \times BHP_1 = \left[\frac{3800}{3274} \right]^3 \times 2.7 = 4.23 \text{ BHP}$$

NOTE: FAN LAWS ARE APPROXIMATIONS TO BE USED CAREFULLY.

Mechanical Contractors Edition

by

Charles H. Gonnermann, Jr., P.E.

The Air Distribution Systems chapter focuses on solving performance problems in HVAC construction while providing a "How To" approach to avoid problems in the first place. The Air Distribution Systems chapter is a compilation of decades of experiences from dozens of individuals and firms that represents all aspects of the business of designing and installing systems and figuring out why sometimes they don't work as expected. This chapter includes illustrations, drawings and photographs. It will help your business if you buy it, read it, and apply it. **THIS AND ALL CHAPTERS HAVE A VERY RAPID ROI!!!!!!!** Problems with air distribution systems are covered and a logical thought process designed to achieve project objectives is provided that enables the solution of each problem. These topics are not included in design manuals. You need this chapter if you can't answer the following: What the impact of steam pressure on the output of a humidifier is? What happens to an Air Handling Unit's dehumidification performance when its cooling coil is oversized? Why anticipated savings for a VAV retrofit project are usually not realized? How mold is generated in duct systems? What the various ASHRAE seal classes for ductwork are? The impacts of duct leakage on system performance? What causes major static pressure losses in duct systems? The most common errors made in calculating static pressure of a duct system? If you

use this chapter this you will spend less than you would for two cups of coffee to avoid \$2000.00 or much, much more of headaches and costs!

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