

TECH TALK

TT-12

February 2005

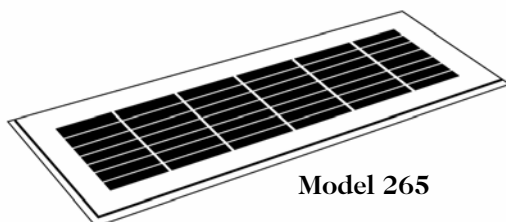
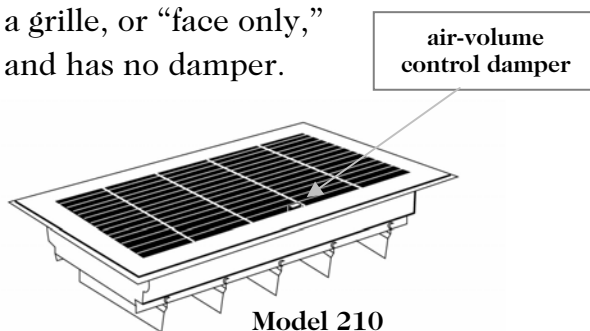


210 Floor Register/265 Grille

by Dave Fetters

These companion products have been part of the Hart & Cooley product line since 1947! Many other products have come and gone, but these have endured.

The Model 210 floor register is the one with the air-volume control damper attached. The Model 265 is a grille, or “face only,” and has no damper.



Part of the explanation for their longevity is due to the robust construction. There are not many products these days that haven't undergone some kind of cost-reduction program, with one end result being the use of thinner steel. There is a continuing need for floor registers and grilles in length and width dimensions larger than our floor diffuser Models 531, 421, and 411. These products are limited in lengths to 14 inches and widths to 6 inches. Our linear series are not limited in length, but for constant foot traffic are limited to 8 inches wide.

As the size of a floor product increases in both length and width, the strength must be there to meet the demands of foot traffic and code compliance. The 210 is the answer!

Another reason these are popular is because of our ability to build non-standard sizes of width and height.

There are practical limitations of increasing size, however. Handling and shipping immediately come to mind. As strong as these products may be, one still needs to consider the end use. They are not meant to support fork trucks or grand piano legs, only humans walking over them. Another consideration is that if the International Mechanical Code is enforced, it requires floor registers to resist, without failure, a 200-pound concentrated load on a 2-inch diameter disc applied to the most critical area of the exposed face, usually the center.

Although we do not punch mounting holes in the margin of these products, an installer may want to drill mounting holes for wall mounting in “high activity” areas where the products may be subject to damage—school hallways, gymnasiums, and social centers for example.

In spaces where the installation is readily accessible and tampering with the damper may be an unintended result, consider using the Model 265 grille, then there is no damper that can be changed.



Hart & Cooley, Inc. 800.433.6341 *toll-free*
500 East Eighth Street 616.392.7855 *phone*
Holland, MI 49423 800.223.8461 *toll-free, fax*
info@hartcool.com 616.392.7971 *fax*
www.hartandcooley.com