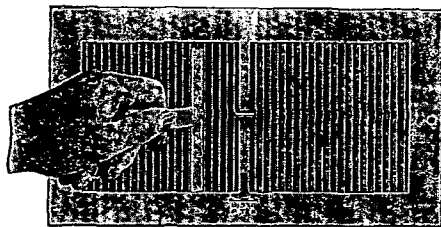


## Hart & Cooley Manufacturing Co.

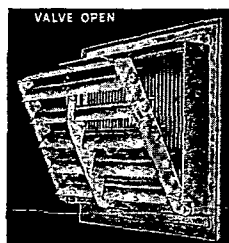
Established 1901

Air Conditioning Registers and Grilles - Warm Air Registers  
Damper Regulators - Furnace Regulators - Pulleys - Chain  
Holland, Mich.

**NO. 75 DESIGN—FLEXIBLE FIN TYPE with TURNING BLADE VALVE** to provide **DOUBLE DEFLECTION**. Also without Valve as Grille or Intake



CONTROL OF AIR FLOW IN TWO PLANES



Instant Adjustment of Air Flow  
(Up, Straight or Down)

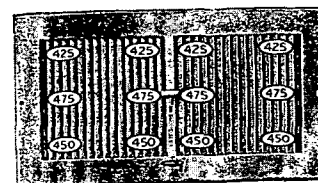
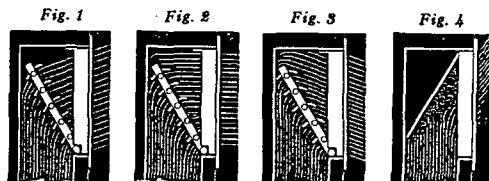
Is obtained by turning the regulator on the register face to the proper setting with a key furnished with each register. When the valve is opened, as shown at the left, the individual valve louvers automatically stop in position to provide the proper air flow—Up (Fig. 1) for cooling systems to avoid drafts; Straight (Fig. 2) for ventilating systems; Down (Fig. 3) for heating systems to prevent stratification. When the valve is closed, as shown at the left below, it completely stops the flow of air.

### Air Flow Can be Quickly Adjusted Sideways

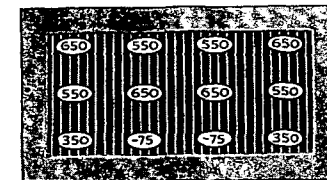
No. 75 Design has a flexible fin-type face. Each fin may be twisted individually with a tool furnished with each register or grille to provide any desired sideways deflection of the air flow.

### Greatly Reduced Turbulence and Resistance

Figs. 1, 2, and 3 show the air flow with No. 75 Design; Fig. 4, with the conventional register. Compare the turbulence in the stackhead of the latter with the smooth flow obtained with No. 75 Design. So efficient is No. 75 Design that there is actually less resistance with this register, using a standard stackhead, than if no register at all were used.



Velocities with No. 75 Design



Velocities with Conventional Register

### EVEN DISTRIBUTION OF AIR OVER ENTIRE FACE

The turning blade valve distributes the air evenly with a uniform velocity over the entire face, as shown in Figs. 1, 2, and 3 on the preceding page. Note how the air rushes through the upper part of the face with a conventional register, as shown in Fig. 4. Since the entire face of No. 75 Design register is utilized for discharge of air, smaller and in some cases fewer registers can be used without causing excessive velocities.

**Prevention of Streaked Ceilings**—With either UP, STRAIGHT, OR DOWN deflections the air does not strike the ceiling immediately in front of the register; streaked ceilings are thus avoided.

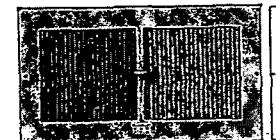
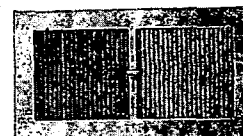
**Excellent Concealment of Duct**—The depth and close spacing of the vertical bars, combined with the valve, provide almost complete concealment of the duct, adding considerably to the pleasing appearance of the register face.

**Special Settings**—No. 75 Design functions equally well when located at the end of a horizontal duct or, by installing it upside down, when the air is delivered to it from above.

### AVAILABLE IN FOUR TYPES

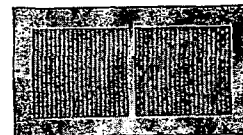
#### With Turning Blade Valve

No. 751 Register (Left) has Sponge Rubber Gasket and  $\frac{3}{8}$  in. turndown. No. 754 Register (Right) is similar except has  $\frac{1}{8}$  in. projection.

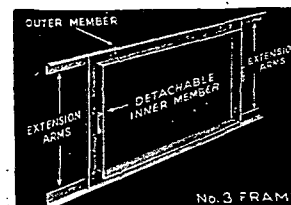


#### Without Valve

No. 750 Grille (Left) has Sponge Rubber Gasket and  $\frac{3}{8}$  in. turndown. No. 757 Intake (Right) has  $\frac{1}{8}$  in. projection.



### FOUR TYPES OF INSTALLATION FRAMES AVAILABLE



No. 75 Design items can be used with or without installation frames. No. 3 Sidewall Stud Frame (illustrated), fastens directly to stud, forming a solid, streak-proof foundation for register. No. 8 Frame is similar for baseboard use. No. 5 Baseboard Stack Frame provides inexpensive, streak-proof installation. No. 2 Band Iron Frame provides for connecting register to stackhead.

**CATALOG 40 AC**, containing 10 pages of useful engineering data and showing the complete H & C line, available upon request.