

Hart & Cooley Manufacturing Co.

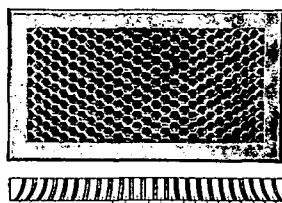
61 W. Kinzie St., Chicago

Factory: HOLLAND, MICH.

PRODUCTS

Forced Air Registers - Warm Air Registers - Directional Grilles - Stamped Grilles - Furnace and Damper Regulators - Pulleys - Chain

A COMPLETE LINE OF FORCED-AIR REGISTERS FOR AIR CONDITIONING INSTALLATIONS



No. 90 Directional Grille

No. 90 Grille is made up of a number of thin strips, which are shaped into a series of grooves. The strips, when assembled, form an exceptionally attractive grille with openings $\frac{1}{2}$ in. wide and 1 in. in depth.

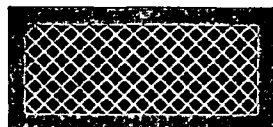
The tubes formed by the grooves in the strips may be straight, at an angle of 45 deg. to the left or right, or up and down, or in any combination thereof, thus making it possible to secure positive control of the air flow in any desired direction.

Characteristics of No. 90 Grille

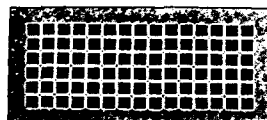
- 1. Concealment of Duct**—The depth of the grille (1 in.), together with the tubular shape of the openings, result in exceptional concealment of the duct.
- 2. Dual Control of Air Flow**—The air is controlled in two planes—horizontally as well as sideways. The air leaves the grille in a horizontal plane regardless of the approach.
- 3. Resistance**—Directional flow is obtained by changing the path of the air gradually. The turbulence which would be caused by an abrupt change in the path of the air is eliminated, thereby greatly reducing the resistance of the grille.
- 4. Noise**—The elimination of turbulence likewise eliminates the greatest cause of noise in the grille. Velocities of 2000 ft. per minute or more may be used without adding to the noise level.
- 5. Air Capacity**—The grille itself has a free area of approximately 89 per cent. When used with the 3-piece and 1-piece frames the free area is slightly reduced, owing to the clearance necessary for the frames.

Perforated Grilles

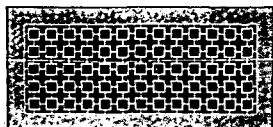
In addition to No. 90 Directional Grille, the four designs of Perforated Grilles shown below are available. These perforated grilles are easily decorated to match their surroundings and result in a satisfactory installation in those cases where directional control of the air flow is not required.



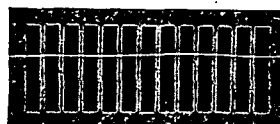
No. 30
Design
Grille



No. 50
Design
Grille



No. 40
Design
Grille

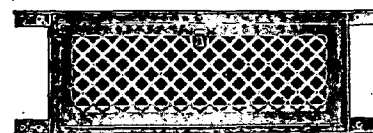


No. 60
Design
Grille

Six Types of Registers Available

All of the five grille designs shown on the preceding page are available with or without valves, and are likewise available with any of the six types of frames described below.

Sidewall Register with Streak-Proof Frame—Frame and stackhead are imbedded in plaster, resulting in streak-proof installation. Frame provides plaster lock, eliminating cracking of plaster.



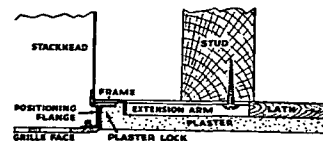
Sidewall Register with Band Iron Frame—Ideal for old house installations. Face has ample margin to cover opening in wall.

Baseboard Register with Streak-Proof Frame—Stackhead is permanently secured to frame, eliminating streaking. Face is readily removable for cleaning or redecorating.

Baseboard Register with Intergal Frame and Face—Easy to install—less expensive.

Return Air Intake— $\frac{3}{8}$ in. Projection—Designed for use where face extends above the top of the baseboard.

Return Air Intake—Flat—Designed for installations in which the baseboard height is greater than that of the intake.

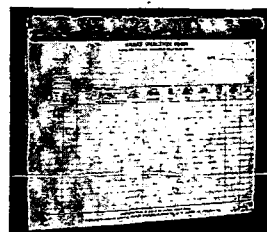
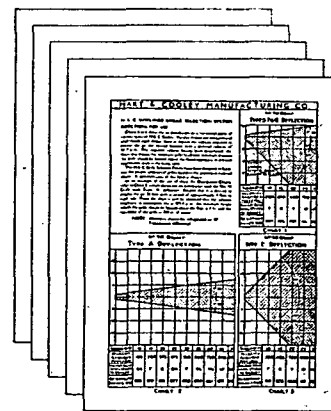


No. 3331—Sidewall Register Showing Streak-Proof Frame and Installation

H & C Simplified Grille Selection System

The H & C Simplified Grille Selection System is based on a series of charts which give complete information on air spread, velocity, required for various throws, minimum grille level required, resistance, and correct size of grille. A specimen chart is illustrated at the left.

When used with the H & C Grille Selection Forms, these charts make it a simple matter to select the proper type and size of grille, and to determine all other information pertaining to the grille which is necessary to insure proper air distribution.



The full set of charts is shown in the new H & C Air Conditioning Register and Grille Catalog now available upon request. The Grille Selection Forms are likewise available without charge, in pads of 25. For either the Catalog or Forms, apply to your jobber or direct to this company.