

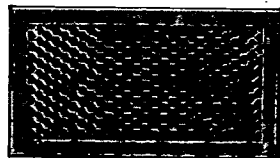
Hart & Cooley Manufacturing Co.

Established 1901

Air Conditioning Registers and Grilles - Warm Air Registers
Damper Regulators - Furnace Regulators - Pulleys - Chain

61 West Kinzie Street, Chicago, Ill.

A COMPLETE LINE OF AIR CONDITIONING GRILLES AND REGISTERS TO MEET ANY NEED



No. 90 DESIGN— Dual Control Directional Flow

No. 90 Design Grilles and Registers are made up of a number of thin strips, which are shaped into a series of grooves. The strips, when assembled, form an 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 Design

- 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. Complete acoustical ratings and their application are shown in H & C Bulletin No. 1.
- 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.
- 6. Directional Control**—The grille is available with a type of directional control for every condition.

No. 77 DESIGN—Non-adjustable Vertical Bar Close Mesh

No. 78 DESIGN—Non-adjustable Horizontal Bar Close Mesh

Nos. 77 and 78 Design Grilles and Registers are made up of fixed bars with $\frac{3}{8}$ in. mesh. These grilles and registers fulfill the demand for an inexpensive yet attractive register with straight air flow and duct concealment.

No. 72 DESIGN—Non-adjustable Vertical Bar Open Mesh

No. 72 Design Grilles and Registers are made up of fixed bars with $\frac{3}{4}$ in. mesh. These registers are of rigid construction and offer a maximum of free area.

No. 84 DESIGN—Adjustable Vertical Bar Close Mesh

No. 85 DESIGN—Adjustable Horizontal Bar Close Mesh

Nos. 84 and 85 Design Grilles and Registers are made up of solid bars, rounded at the front and back to offer a minimum of resistance to air flow. The construction allows for adjustment of the bars after installation has been completed, to provide any necessary air deflection. The bars are connected in 2 in. groups to facilitate ease of adjustment and allow a wide range of deflection settings.

Characteristics of Nos. 84 and 85 Design

- 1. Concealment of Duct**—The depth of the bars together with their close spacing ($\frac{3}{8}$ in. mesh), result in exceptional concealment of the duct.
- 2. Air Capacity**—The grille itself has a free area of approximately 85 per cent. When used with installation frames the free area is slightly reduced owing to the clearance necessary for the frames.
- 3. Adjustable Directional Control**—The bars may be adjusted, before or after installation, to give any type of directional control desired.

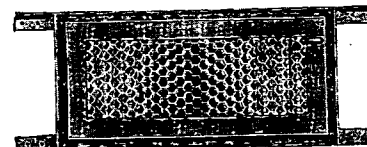
No. 71 DESIGN—Perforated Plain Lattice

No. 71 Design Grilles and Registers are easily decorated to match their surroundings, and the openings ($\frac{3}{8}$ in.) are small enough to conceal the duct. They result in a satisfactory installation in those cases where directional control of air flow is not required.

No. 76 DESIGN—Fancy Perforated

No. 76 Design Grilles and Registers are attractive in appearance and will harmonize with any style of architecture.

Six Types of Air Conditioning Registers Available



All of the designs described are available as grilles or registers, with or without valves, and are likewise available with any of the six types of frames described below.

- (1) Sidewall Register with Streakproof Frame—Frame and duct are embedded in plaster. Overlapping face with rubber gasket insures a streakproof installation.
- (2) Sidewall Register with Band Iron Frame. Ideal for old house installations. Face has ample margins to cover opening in wall.
- (3) Baseboard Register with Streakproof Frame—Duct is permanently secured to frame, eliminating streaking. Face is readily removable for cleaning or redecorating.
- (4) Baseboard Register with Integral Frame and Face—Easy to install and less expensive.
- (5) Return Air Intake with $\frac{3}{8}$ in. Projection. Designed for use where intake extends above the top of the baseboard.
- (6) Return Air Intake, Flat—Designed for installations in which the baseboard height is greater than that of the intake.

Complete Separate Catalogs on Air Conditioning Registers and Grilles or
Warm Air Registers Available on Request.