

UNIVENT

(TRADE MARK)

VENTILATION

Manufactured by the Herman Nelson Corporation

Because the Univent is sold as a system to deliver a certain predetermined result in Ventilation, instead of so many pieces of mechanical equipment, space in THE GUIDE does not permit of more than a general description of the simplicity, accessibility, and a few of the outstanding features of the machine itself. Engineers interested in complete detailed information will be furnished our Architects' and Engineers' catalog upon request.

Univent Ventilation is a mechanical system of ventilation wherein outside air is taken directly from outside the wall or window, cleaned, warmed to a comfortable temperature, and diffused to every nook and corner of a room, noiselessly and without drafts.

Description of the Univent

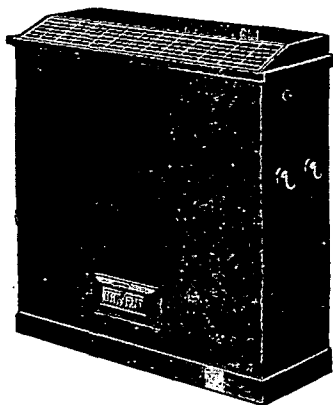
The cabinet, illustrated, enclosing the mechanical equipment of the Univent, is built of pleasing proportion and constructed of high grade furniture steel.

The base of the cabinet is seamless and copper plated, and is a complete protection from rust, corrosion and deterioration.

The fan and motor are a complete unit specially mounted on the base to insure noiseless operation. They are easily removable for cleaning or attention.

The air filter is easily removable for cleaning.

The radiator used in the Univent is the Herman Nelson Radiator previously described. It has sufficient capacity for warming incoming air from 40 deg. below



zero to 70 deg., or from zero to 110 deg. The radiator is so arranged that it can be connected to any steam or vapor heating plant. It may be furnished for hot water application on special order.

Above the radiator is the warm air damper and compensating damper which may be operated by hand or automatically, for the control of the temperature of the air as it leaves the Univent.

Models

There are three standard models of Univents: "S," "SD" and "R," which provide for bringing in of air through wall intake.

There are also three (3) window intake models: "O," "W" and "WR," for use in buildings where it is impossible to bring fresh air intake through the wall at a lower level.

Univent Fan and Motor

The Univent is equipped with a large, single, low speed, aluminum fan, requiring no housing. The fan is powered with a specially designed Her-Nel-Co motor, highly efficient, quiet, simple and dependable. Her-Nel-Co motors may be made in either the direct or alternating current type as desired.

Automatic Temperature Control

Any well known system of Automatic Temperature Control may be used with the Univent System and can be easily installed at erection or any future date.

John J. Nesbitt, Inc.

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Sales and Service Through Offices of the American Blower Corp.
In all the Principal Cities of the United States

PRODUCTS

- 1: Universal Heating and Ventilating Unit for SCHOOL ROOMS.
- 2: Universal Unit Heaters for LARGE ROOMS like Banking Rooms, Show Rooms, Stores, Sales Rooms, Offices, Assemblies, Churches, etc.
- 3: Universal Concealed and Cabinet Heaters for HOMES.

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Universal Heating and Ventilating Unit for SCHOOL ROOMS

"Universal" has always been at the forefront in the use and development of the features that have made the Unit system universally accepted as ideal for school-room heating and ventilating. Among many other major improvements, the Universal Unit introduced the light weight heater, the present-day form of unit with motor and fan assembly in base of cabinet, alternating current motors with rigid metal to metal mounting and the successful use of the blast system whereby direct radiation is eliminated from the class room.

"Universal" Multifin Copper Tube Radiator

Standard Universal Units are supplied with horizontal seamless copper tube radiators, the ends of the tubes of which are connected to cast iron headers by means of ground joints, thus being free of soldered, braised, welded or packed joints. Over these tubes are hydraulically pressed thin copper plates or fins, thus insuring real thermal contact between tubes and plates, making a highly efficient heating unit. Tested at 125 pound working pressure, and will stand freezing without breaking.

Motor

The motor of the "Universal" Unit is supplied for quiet operation on any character of current. The use of a motor generator set is no longer necessary with this system, but will be furnished upon request.

Three Point Lead Mounting

The Motor and Fan assembly of the Universal Unit is mounted in the cabinet on three steel ball points in contact with lead liners, making a very quiet operating unit, with no electrical noises. It has also made practical the use of alternating current motors with a permanent and rigid supporting device.

Fans

Universal fans are of the Sirocco type, multiblade, low speed, double inlet, designed to operate at 720 r.p.m. plus or minus 5 per cent. No greater efficiency known. The by-pass chamber is parallel to heating chamber and so located as to

