

Modine Manufacturing Company

Racine, Wisconsin

Unit Heaters, Blast Heaters, Concealed and Recessed Copper Radiators, Copper Cast Radiators

New York Show Room—101 PARK AVENUE

Sales Offices

AKRON, OHIO	1175 LaCroix Ave.
ATLANTA, GA.	152 Nassau St., N.W.
ATLANTIC CITY, N. J.	429 Guarantee Trust Bldg.
BALTIMORE, MD.	522 Park Ave.
BIRMINGHAM, ALA.	405 Protective Life Bldg.
BOSTON, MASS.	10 High St.
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CHARLOTTE, N. C.	601 Builders Bldg.
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JACKSONVILLE, FLA.	2356 Myra St.
KANSAS CITY, MO.	615 City Bank Bldg.
KNOXVILLE, TENN.	206 Daylight Bldg.
LOS ANGELES, CALIF.	1015 E. Eighth St.
LOUISVILLE, KY.	715 Louisville Trust Bldg.

The Modine Manufacturing Company Engineering Department is constantly carrying on research for additional developments and improvements. Due to the fact that these developments are immediately incorporated in our Technical Data Bulletins, it was considered unwise to attempt to give complete information about Modine Heating equipment in these pages. A request to the factory at Racine, Wisconsin, or to our nearest representative, listed above, will insure your receiving the newest Modine Catalogs and Data Bulletins.

Modine Unit Heaters are of the suspended type employing a brazed and electrically welded copper tube and fin condenser guaranteed for 125 lbs. pressure. Modine Unit Heaters are available in eleven different capacity models for use with either steam or hot water. They may be had with variable speed equipment if desired. For complete capacity and installation data, secure our Unit Heater Data Bulletin No. 1.

Modine Blast Heaters are designed for ventilating and process applications. They are available with and without frames, facilitating stacking of heaters and installation in duct systems.

Modine Concealed Copper Radiators are designed for use in residences, apartments, offices, hotels and institutional buildings. They are available in 46 sizes to meet modern requirements. They may be applied to any steam, vapor, vacuum or hot water heating system. The Modine copper radiator is guaranteed for constant operation on 50 lb. pressure. Our Concealed Radiator Data Bulletin No. 2 contains complete capacity and installation data with architectural sketches.

The Modine Copper-Cast Radiator is a new type of radiator for office buildings, hotels, public buildings and apartments, employing the principles of convection and radiation heating. It consists of a front of cast iron with integral steam carrying tubes, to the back of which is joined a copper tube and fin assembly. It combines the sturdiness of cast-iron with its slow-cooling, radiated heat and the space saving of copper with its quick acting, convected heat. The same radiator, without any changes, may be installed on the wall, partially recessed in the wall, or completely recessed flush with the plaster line. Its many advantages over present forms of radiation are described in our Copper-Cast Data Bulletin No. 3.

The Herman Nelson Corporation

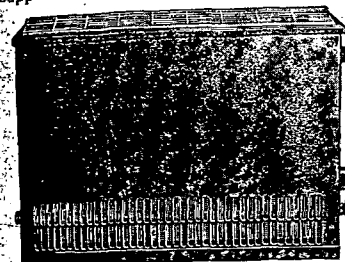
Moline, Illinois

Manufacturers of the

Herman Nelson System of Ventilation; the Herman Nelson Invisible Radiator; the Herman Nelson hiJet Heater; the Univent System of Ventilation; Herman Nelson Wedge Core Radiator Sections

The Herman Nelson System of Ventilation

The Herman Nelson System of Ventilation reduces to practice the newer science of ventilation as applied to school class rooms and similar spaces. The same general type of apparatus which has characterized Univent Ventilation has been employed as a basis for the inventions which make this possible. The essential difference between the older and newer idea in ventilation is this: Under the older science a fixed amount of outdoor air was supplied at all times, whereas, with the



Her-Nel-Co Ventilator

Herman Nelson System of Ventilation outdoor air is admitted only when and as required.

The newer system will not only provide a more positive ventilating result, but will effect large economies in fuel consumption, building construction and operating costs.

The principal equipment used in the Herman Nelson System of Ventilation is the Her-Nel-Co Ventilator illustrated. One or more of these machines, together with a sufficient amount of auxiliary direct radiation, to maintain a comfortable temperature, is placed in each room to be heated and ventilated.

No vent flues or exhaust air outlets are ordinarily employed.

The Her-Nel-Co Ventilator is beautifully finished in genuine Morocco enamel with bronzed fittings. It is arranged to be fastened against the wall with a gasket

which prevents any air leakage around the cabinet. The entire front is removable, giving free access to all parts. The cabinet contains a radiator for heating the indoor air (only), a fan and motor unit for forcing circulation, a filter for removing dust and dirt, a steam jet humidifier and the dampers and mechanism which regulates the admission and intermixture of indoor and outdoor air.

The radiator is the well known Herman Nelson Wedge Core Section, which has been used exclusively in Univents since 1925. It is constructed entirely of aluminum, and is light, compact, sturdy and non-leakable. The front open view of the Her-Nel-Co Ventilator shows the position of the radiator, fan and motor unit, filter, damper control, etc.

The Herman Nelson System may be mechanically or automatically controlled.

In principle, the Herman Nelson System provides for the reheating and recirculating of indoor air after a delayed firing period, such as in the beginning of a school class day. After the recommended room temperature has been reached, over-heating is prevented by restricting the heat supply of the direct radiator.

The next step in the cycle, is the complete closing off of both the direct radiation and the radiator in the Her-Nel-Co Ventilator.

There will naturally be a further rise in room temperature due to the heat given off by the occupants of the class room, together with the sun's rays, and this brings us into the next step of the cycle.

All radiation is closed off and the indoor air is recirculated and intermixed with the right proportion of outdoor air in order to maintain a constant room temperature.

The next step is the admission of outdoor air entirely, without recirculation, and with all radiation closed off.

This system fulfills the requirements that science has prescribed viz., Air Motion; Humidity Regulation and Regulation of Temperature.

The fan motor unit is quiet, efficient, sturdy, powerful, sanitary, simple and reliable. It is located in the forward upper compartment of the Her-Nel-Co. Vent-