

Peerless Unit Ventilation Company, Inc.

Heating and Ventilating Systems -:- Industrial Heating Units

718-34 Crescent Avenue, Bridgeport, Conn.

NEW YORK, N.Y., 369 Lexington Avenue
 BOSTON, MASS., 80 Boylston Street
 BUFFALO, N. Y., 135 University Avenue
 HARRISBURG, PA., 3603 Sharon Street
 SPRINGFIELD, MASS., 19 Edward Street
 WARREN POINT, Bergen County, N. J.
 SCOTIA, N. Y., 25 Wallace Avenue
 BALTIMORE, MD., 204 Water Street

Sales
Offices

OKLAHOMA CITY, OKLA., Frank Loeffler Supply Co.
 OMAHA, NEB., 1820 St. Mary's Avenue
 ALLENTOWN, PA., 15 South Fifth Street
 CLEVELAND, OHIO, 1836 Euclid Avenue
 CHICAGO, ILL., 808 Monadnock Building
 DETROIT, MICH., 1214 Lafayette Building
 MINNEAPOLIS, MINN., 603 Washington Avenue
 PORTLAND, ORE., 927 Board of Trade Building

CANADA: Darling Brothers, Ltd., 77 York Street, TORONTO, ONT.

Products

"PEERVENT" and "PEERLESS" HEATING and VENTILATING UNITS, for Schools, Hospitals, Libraries, Churches, Dormitories, Club Rooms, Theaters, Banks, Offices, Auditoriums and other Buildings where many people congregate.

"PEERLESS" INDUSTRIAL HEATING UNITS (used in place of cast iron radiators), for Factories, Garages and other Industrial Buildings.



"PeerVent" and "Peerless" Heating-Ventilating Units

This Company makes two types of heating and ventilating units—"PEERVENT" and "PEERLESS"—both intended for the same service but differing in design and construction. Only the PEERVENT Unit is illustrated in these pages. Information about PEERLESS Units will be sent on request.

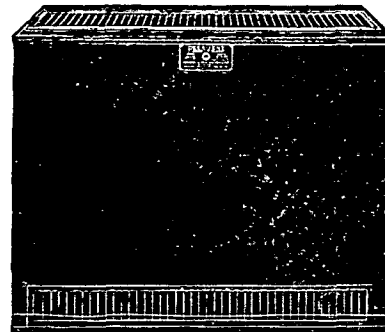
Features of the Improved "PeerVent" Unit

The PEERVENT Unit of today has many important improvements, including the new PeerFin radiator. This radiator consists of two large copper alloy tubes, each surrounded by a series of closely spaced fins, also of copper alloy. The fins are embedded tightly into the tubes, so that under any conditions of expansion and contraction the fins and tubes are in perfect contact and there can be no loss of efficiency in the transfer of heat from tube to fin. The tubes are expanded into malleable iron headers, in the same manner that

boiler tubes are expanded into the tube sheets, and the radiator assembly does not contain a single soldered, welded, brazed or gasketed joint. Test pressure, 150 lb.; operating pressure, 100 lb.

Another improvement in the new PEERVENT Unit is the noiseless alternating current motor. This motor is of a design which has been developed after years of research and experimentation. It is mounted by means of a specially designed spring suspension, which precludes the possibility of noise caused by the transmission of phase vibrations. This motor is equipped with an auto-transformer, an integral part of the motor, for providing speed regulation within limits as close as obtainable with direct current motors. This feature saves power, as less current is consumed at low speeds.

THE new PEERVENT motor improvements are the final step in placing the unit system on a strictly unit basis. The motor-generator outfit is eliminated. The unit motors operate independently and there is no expense for current except for the unit or units that are actually in service. A single room can be ventilated without the operation of any apparatus other than the PEERVENT Unit. There is also a considerable saving in the elimination of the first cost and operating cost of the motor-generator equipment.



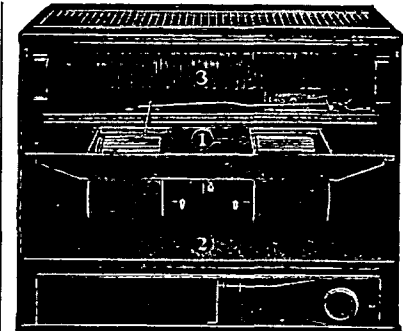
PeerVent Heating and Ventilating Unit

Other improvements in the new PEERVENT Unit include a single-leaf damper which takes the place of the former interconnected fresh air and recirculation dampers, eliminating mechanical linkage. There are no mid-way positions of this damper: either the full volume of fresh air enters the unit or there is a complete recirculation of the air in the room. This damper, as well as the mixing damper, has been provided with improved bearings. The mixing damper can be equipped with any type of automatic temperature control.

New fan housings have been designed, providing larger discharge capacity at considerably lower tip speeds.

The mixing damper, radiator, motor and fan assembly, base assembly and air filter are all easily removable without the use of tools. The air filter, which is not included as part of the unit equipment, can be of any make preferred and can be installed after the unit has been erected, without any changes in the unit. The filter rests upon supports below the motor and fan assembly, sliding in and out of the unit like the drawer of a desk. With the filter in this position the air is cleaned before it reaches the fans, radiator, etc., and the dirt therefore does not reach these parts.

The new PEERVENT Unit can be equipped with a positive-action PeerTherm Control, which automatically prevents the



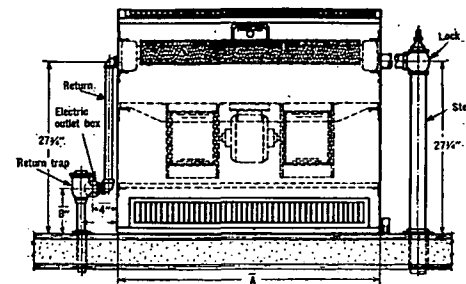
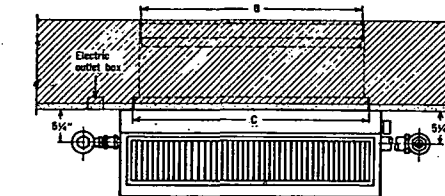
PeerVent Heating and Ventilating Unit with front removed to show interior parts. The fan housings (1) have been improved to provide greater discharge capacity at lower speeds. The air filter (2) is extra equipment, not included with the Unit, and can be of any make specified. The new PeerFin Radiator (3) is an important improvement. This view shows only one of the two rows of closely-spaced fins (see cross-section below).

intake of cold air at any time when the room temperature falls below 65 deg. (or any other predetermined temperature within a range of 15 deg.)

Three types of PEERVENT Units have now been standardized, and one or another of them will meet practically any architectural requirements, including installations in existing buildings. Six different types of control have also been standardized, including automatic control throughout, hand control throughout, and various combinations of hand and automatic regulation.

Catalogues

Catalogues of PEERVENT Heating and Ventilating Units and PEERLESS Industrial Unit Heaters will be sent on request.



Cross Section of Standard PeerVent Unit

