

John J. Nesbitt, Inc. AND Buckeye Blower Company

Manufacturers of Heating, Ventilating
and Air Conditioning Equipment

EXECUTIVE OFFICES

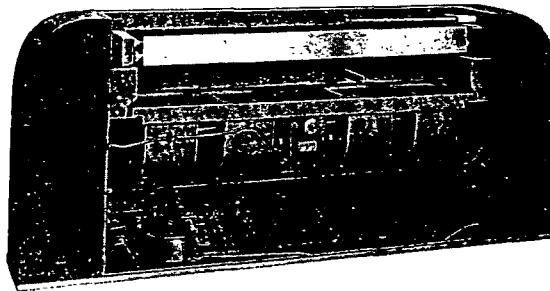
State Road and Rhawn Street
Holmesburg, Philadelphia, Pa.

FACTORIES

Holmesburg, Philadelphia, Pa.
Columbus, Ohio

Buckeye Sales and Service Offices in Principal Cities of U. S. A.

Sales and Service on Nesbitt School Room Unit Ventilators
through Offices of American Blower Corp.



Nesbitt Series 400 Syncretizer

Called TOMORROW'S Heating and Ventilating Unit TODAY, because of its easy adjustment to present or future ventilation requirements. Made in three types or cycles of control—F, A, and O. All three types recirculate all room air during the heating-up period, before room occupancy. Type F, during room occupancy, introduces all outdoor air. Type A, during room occupancy, introduces any desired minimum quantity of outdoor air when heating is required, and an increasing quantity, up to all outdoor air, when cooling is required. Type F may be readily converted to Type A cycle of control at any time by a simple adjustment within the unit.

Type O, during room occupancy, introduces a variable quantity of outdoor air without a fixed minimum. The quantity supplied is governed by the indoor and outdoor temperatures, and is that volume required to maintain a minimum air-stream temperature—usually 60 deg—at the fan discharge, before the air passes through the unit radiator.

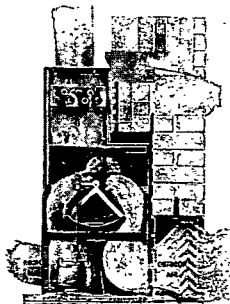
All three types are made in the same size and style of casing for a given capacity, and all have the same arrangement of component parts. The differences are in the cycles of control. All three have the Nesbitt Airstream Minimum Temperature Control to prevent cold drafts. Ask for Publication 225 (engineering data), and Publication 226 (The Story of Syncretized Air).

Nesbitt Series B Thermovent—for Large Interiors

A large-volume unit ventilator incorporating three distinct features which have been proved essential to the proper heating and ventilating of auditoriums, gymnasiums, assembly halls, and like gathering places: (1) *Quietness of operation*, due, in part, to large-diameter, forward-curved fans operated at low speeds, with V-belt drives; (2) *Modulated Steam Valve Control*, with uniform discharge temperatures over the entire radiator assured by Nesbitt internal steam-distributing tubes; and (3) *Air-Stream Minimum Temperature Control*, the Nesbitt development which prevents cold drafts.

Furnished, like the Nesbitt Series 400 Syncretizer, in three types or cycles of control—F, A, and O—to deliver all outdoor air, or to partially recirculate, with or without a fixed minimum quantity of outdoor air. Available in capacities ranging from 2000 to 6000 cfm, and in two types of casing, for exposed or hidden location. Ask for Publication 227.

Below — Cross-section view
showing the Nesbitt Syncretizer
mixing outdoor and
room air



Buckeye Giant Unit Heater



A blower, draw-through type unit heater for the economical heating of large areas in industrial plants, garages, airplane hangars, etc. Made in a variety of capacities, ranging from 1880 cfm, 139,500 Btu, to 19,600 cfm, 1,290,000 Btu, with 2 lb steam, 60 deg entering air.

Giant Heaters are equipped with Nesbitt Copper Finned Tube Radiating Surface for operating steam pressures up to 150 lb gage. Also applicable for use on Forced Circulation Hot Water Systems.

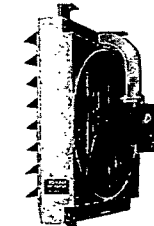
Giant Heaters are built for Floor Mounting—Wall Mounting (both Standard Vertical and Inverted Vertical) and Horizontal Suspended.

Wall boxes and outside air dampers can be furnished with all types.

Giant Heaters are furnished with or without the Thermostat Damper. This efficient bypass damper with automatic or hand control prevents overheating and stratification and effects substantial fuel savings by controlling heat output in definite relation to demand. Giant Heaters may be had with either V-belt drive or direct-connected motor. Ask for Buckeye Publication 145.

Giant Unit Heaters are tested and rated in accordance with the Standard Test Code of the AMERICAN SOCIETY OF HEATING AND VENTILATING ENGINEERS and the Industrial Unit Heater Association.

Buckeye Unit Heater



A rugged, compact, suspended type, disc fan unit heater, built in capacities ranging from 810 cfm, 35,800 Btu, to 5030 cfm, 313,500 Btu, with 2 lb steam, 60 deg entering air, and for operating steam pressures up to 150 lb. Also adaptable for use on Forced Circulation Hot Water Systems. Available in either single- or multi-speed.

Buckeye Unit Heaters may be conveniently located to supply heat exactly where it is needed, and the louvers are individually adjustable to direct the air flow to the proper level. Heavy brackets are provided at the top of each heater for attachment to hanger rods.

Recirculating ducts or fresh air intake ducts, together with the necessary wall boxes and louvers, will be furnished with these heaters when specified. The propeller fans used have been specially developed for these heaters and they combine lightness and durability with exceptionally high aerodynamic efficiency. They are perfectly balanced and are securely attached to the motor shaft. Ask for Buckeye Publication 144.

Buckeye Unit Heaters are tested and rated in accordance with the Standard Test Code of the AMERICAN SOCIETY OF HEATING AND VENTILATING ENGINEERS and the Industrial Unit Heater Association.

Nesbitt Heating Surface with Steam-Distributing Tubes



Sold by Leading Manufacturers of Fan System Apparatus

The increasing application of automatic temperature control to heating, ventilating and air conditioning systems has created the need for this new type of blast steam heating surface. Nesbitt Copper Heating Surface, through the use of all-copper, fin-and-tube construction, retains the rapid steam condensing capacity and the permanence proved for light-weight copper radiation, and gains unique controllability by inserting, within the usual steam tubes, additional or steam-distributing tubes. These carry the steam equally to all parts of the radiator section, regardless of the quantity supplied. Thus, whether the section is operating at full

capacity or merely tempering the incoming air, a uniform discharge temperature is assured. Possibility of freezing is eliminated under normal operating conditions. Nesbitt Copper Heating Surface is made in a wide range of capacities, to meet all conditions. Fins are made fast to tubes through mechanical construction processes, thus eliminating the use of solder or other bonding materials. Ask for Publication 229.