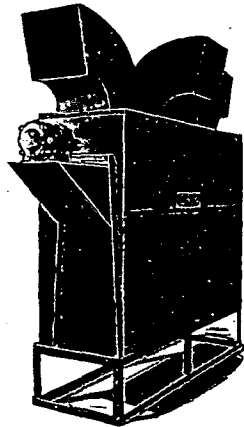


## York Heating and Ventilating Corp.

1502 Locust Street :: PHILADELPHIA

Unit Heaters—Unit Fans—Rotary Ventilators—Stationary Ventilators—Cyclone Dust Collectors—Damper Quadrants—Blast Gates—Drying Trays—Radiator Brackets—Sheet Metal Work and Light Structural Iron Fabrication.

### YORK "WELDED COIL" UNIT HEATER



#### GENERAL ADVANTAGES

1—Low Power Consumption, balanced fan running on ball bearings, combined with straight path of air thru unit reduces power requirements to a minimum. The total cost of electric power over an entire heating season is negligible.

2—By removing a few bolts at each end of the unit, the entire housing, outlets, motor, shaft, coupling and fans, all assembled together, may be removed and the coils left bare as shown by the photo on the right.

3—Base of the unit is open on all four sides, hence air is drawn from the floor, where it is naturally coldest. This simplifies connection to outside air when same is desired, for it can easily be made by a rectangular duct from any one side.

4—Units can be arranged for suspension from ceiling or roof truss, or they can be mounted on special supports allowing headroom underneath.

#### SPECIAL FEATURES

1—Standard Unit is direct connected to motor, by means of a flexible coupling. This costs no more than a belt driven unit. Standard motor speeds are used—see capacity table on next page.

2—Balanced Double Inlet Fan of centrifugal type, with volute housing, distributes air over desired areas.

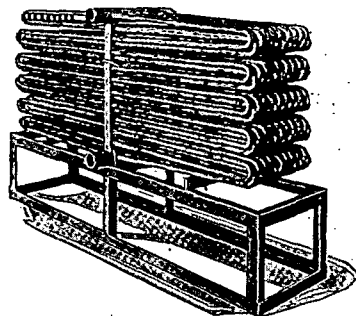
3—Welded Pipe Coils, no joints to leak, therefore, no maintenance. Pipe coils are staggered, insuring efficient warming of air. Coils are tested to 300 lb. pressure and are good for 150 lb.

4—Operates equally well on vacuum, low or high pressure steam.

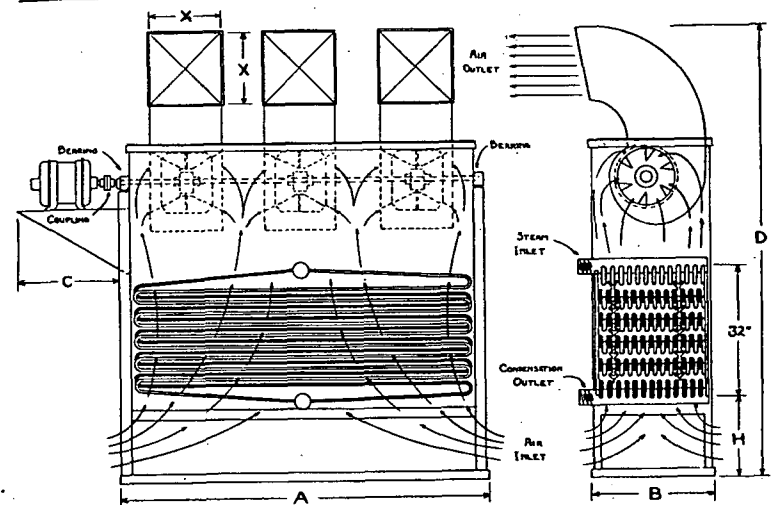
5—Ball Bearings, self aligning, dustproof type, mounted outside the housing. Bearing maintenance is thus avoided and lubrication made easy.

6—Unit Stands on Floor hence no overheating of upper part of building before lower part is heated. Heat zone is within ten feet of floor.

7—Ventilation—Unit will heat and ventilate simultaneously, if desired.



Complete Heating, Ventilating, Drying and Dust Collecting Systems, designed, built and installed



#### OPERATING ECONOMIES

It is unnecessary to run York Unit Heaters continuously to obtain an appreciable amount of heat, as is the case with horizontal unit heaters or a blower system. In the morning the units can be run for a short time to bring the room up to the proper temperature and to start the air in circulation. The power can then be shut off and the circulation thus started will continue (although at a slower rate) due to the air motion set up and to the stack or aspirating effect caused by the height of the unit.

#### OPERATION

Air enters the unit at the base from all four sides, passes upward around the welded pipe coils, through the fan and then distributed by the outlets in any direction desired. Unit may be automatically controlled by a thermostatic switch.

#### DIMENSIONS

| No. of Unit | A  | B  | C      | D   | X      | H      | No. of Outlets |
|-------------|----|----|--------|-----|--------|--------|----------------|
| 25          | 47 | 17 | 13     | 85  | 11 1/2 | 13 1/4 | 2              |
| 35          | 88 | 17 | 17     | 85  | 11 1/2 | 13 1/4 | 4              |
| 45          | 11 | 21 | 19     | 110 | 19 1/2 | 19 1/4 | 2              |
| 55          | 11 | 29 | 22     | 110 | 19 1/2 | 19 1/4 | 3              |
| 60          | 11 | 29 | 23     | 110 | 19 1/2 | 19 1/4 | 3              |
| 65          | 11 | 44 | 24 1/2 | 110 | 24     | 19 1/4 | 3              |
| 75          | 11 | 58 | 24 1/2 | 118 | 24     | 23 1/4 | 3              |

#### CAPACITIES

| Size Unit | R. P. M. | A. P. M. | H. P. Motor | Recirculating Air at 60° F.         |         | Sq. Ft. Heating Surface | Equiv. Sq. Ft. Direct Radiation | Weight With Motor | No. of Steam Conn. |
|-----------|----------|----------|-------------|-------------------------------------|---------|-------------------------|---------------------------------|-------------------|--------------------|
|           |          |          |             | Entering Unit 5 lbs. Steam Pressure | B.t.u.* |                         |                                 |                   |                    |
| 25        | 1750     | 3000     | 3/4         | 200,000                             | 128°    | 208                     | 800                             | 1150              | 1                  |
|           | 1160     | 2000     | 1/4         | 141,000                             | 135°    | 147                     |                                 |                   |                    |
| 35        | 1750     | 6050     | 1 1/4       | 439,000                             | 135°    | 456                     | 280                             | 1800              | 1                  |
|           | 1160     | 4000     | 1/2         | 320,000                             | 144°    | 333                     |                                 |                   |                    |
| 45        | 1160     | 8300     | 3           | 620,000                             | 136°    | 645                     | 360                             | 2500              | 1                  |
|           | 870      | 6000     | 1           | 470,000                             | 141°    | 489                     |                                 |                   |                    |
| 55        | 1160     | 11700    | 3           | 920,000                             | 143°    | 958                     | 520                             | 3700              | 1                  |
|           | 870      | 8700     | 1           | 740,000                             | 149°    | 770                     |                                 |                   |                    |
| 60        | 1160     | 13300    | 5           | 1,020,000                           | 141°    | 1062                    | 520                             | 4000              | 1                  |
|           | 870      | 9700     | 2           | 815,000                             | 148°    | 848                     |                                 |                   |                    |
| 65        | 1160     | 18300    | 7 1/2       | 1,420,000                           | 141°    | 1478                    | 800                             | 6000              | 1                  |
|           | 870      | 13900    | 3           | 1,160,000                           | 147°    | 1208                    |                                 |                   |                    |
| 75        | 870      | 21800    | 7 1/2       | 1,700,000                           | 146°    | 1770                    | 1040                            | 7000              | 2                  |
|           | 690      | 17700    | 3           | 1,400,000                           | 152°    | 1460                    |                                 |                   |                    |

\*NOTE—To get BASIC Rating (i. e., 0 entering and 5 lb. pressure), multiply B.t.u. given by 1.35. See GUIDE 1925-26, page 223, for B.t.u. Constants.