

L. J. Wing Mfg. Co.

Branch Offices In
Principal Cities

59 Seventh Avenue, New York

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Factory:
NEWARK, N. J.

Manufacturers of Wing Featherweight Unit Heaters, Wing Turbine and Motor Driven Blowers, Wing-Scruplex Fans, Exhausters, Fog Eliminators

Wing Featherweight Unit Heaters

The Wing Featherweight Unit Heater, expressly designed for overhead installation, makes available for any industrial building a heating system that leaves all floor and wall space absolutely unobstructed. The success of this system has been proven by the satisfactory operation of several hundred units in industrial buildings of every kind and description.

The installation of Wing Featherweight Unit Heaters is extremely simple, due to their light weight and small dimensions. For instance, a unit equal in heating effect to 12,000 sq. ft. of direct radiation, weighs only 332 lbs. A few advantages attending the installation of Wing Featherweight Unit Heaters may be briefly summarized as follows:

The heated air from the units, located at or near the ceiling or roof, is delivered directly downward toward the floor, heating the working level first. Chilled areas, caused by opening of doors, are almost instantly brought back to normal temperature by this downward method of heating.

Since the air recirculated by the heaters is taken from the upper spaces and delivered to the lower levels, it is evident that an active circulation of air from the ceiling to the floor is continuously maintained and that, therefore, excessive heat is not allowed to accumulate in the upper spaces, as is the case with any system of heating that allows the heat to rise to the ceiling immediately.

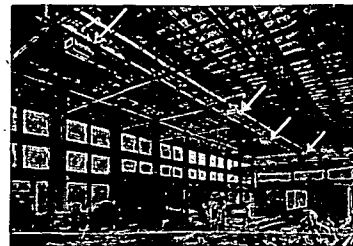
The steam and return lines are carried entirely overhead, eliminating costly pipe trenches which are necessary when radiation is placed at or near the floor.

All vertical type heaters are furnished with ball bearing motors that do not require attention more than once a heating season.

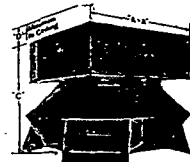
See inside page for dimension table on Wing Heaters



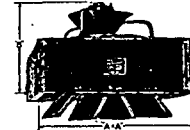
Low Ceiling Heater in Furniture Factory



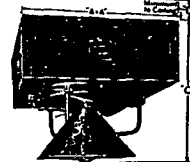
High Ceiling Heaters in Car Repair Shop



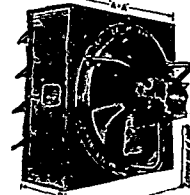
Low Ceiling Type



High Ceiling Type



Medium Ceiling Type



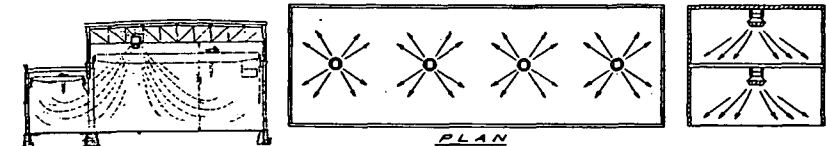
Horizontal Type

Methods of Installation

The drawings below show typical high ceiling and low ceiling installations, together with a plan view illustrating the general distribution and diffusion of the heated air from the unit heaters. The first illustration shows the high ceiling type heater installed 30 or more feet from the floor, above the travelling crane, the heater arranged so that the left lower portion of the building is also heated. The third illustration shows a typical multi-story building heated with Wing low-ceiling type Unit heaters. The column of heated air leaves the heater with sufficient velocity to strike the floor with considerable force from this point, but by the aid of adjustable diffusers the column is divided and directed so that no objectionable velocity is felt at the head line. The best and most economical installation of Wing Featherweight Unit Heaters is when they are placed close to the roof or ceiling.



Five Wing Heaters in this Shop



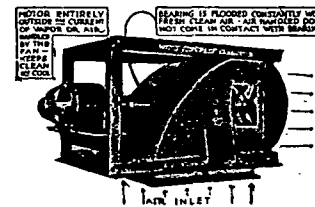
Condensed Table of Engineering Data—Wing Featherweight Unit Heaters

Unit Size	"A x A" Inches	B Inches	C Inches	D Inches	Air Cf.m.	Motor Hp.	Temperature		B.t.u. per Hour Available	Approximate Shipping Weight Lb.
							Room	Leaving		
13-4-12	19 1/4	25	25	6	1150	1/8	60	110	69,500	185
17-3-12	22 1/4	27 1/2	27 1/2	6	1950	1/4	60	110	96,900	212
22-3-12	27 1/4	27 1/2	27 1/2	6	3200	1/2	60	112	162,000	270
22-4-12	27 1/4	27 1/2	27 1/2	6	2800	3/4	60	122	169,000	280
22-5-12	27 1/4	27 1/2	27 1/2	6	2600	1	60	133	180,000	288
25-4-12	32 1/4	28 1/2	28 1/2	7	4800	1 1/2	60	122	289,500	320
25-5-12	32 1/4	28 1/2	28 1/2	7	4500	1 1/2	60	133	311,400	332
30-4-85	40 1/4	37 1/4	37 1/4	8	6900	1	60	122	416,000	360
30-5-85	40 1/4	37 1/4	37 1/4	8	6500	1	60	133	450,000	365
36-4-85	46 1/4	39 1/4	39 1/4	8	9600	2	60	122	579,000	504
36-5-85	46 1/4	39 1/4	39 1/4	8	9000	2	60	133	623,000	528

Space does not permit complete table for other room temperatures but this data will be gladly furnished on application.

Wing Fog Eliminators

Wing Fog Eliminators supply tempered fresh air to completely de-fog dyehouses, bottling, preserving and pasteurizing plants, paper mills, and in general any building or room where steam, fog or fumes are liberated in manufacturing processes.



Wing-Scruplex Exhauster

Wing-Scruplex Exhausters

Wing Scruplex Exhausters consist of the highly efficient "screw propeller" fan encased in appropriate manner with a motor on the outside where it is clean, cool and easy of access. They are used in duct work where the resistance is low and being designed in the form of an elbow fit snugly in any line. The diagrams at top of next page show the methods of installation.

(continued on next page)