

L. J. Wing Mfg. Co.

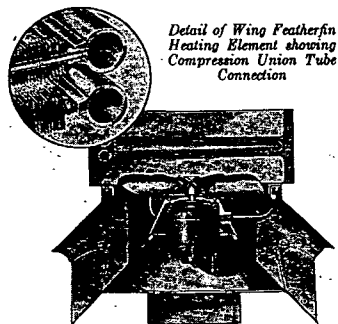
Branch Offices in
Principal Cities

59 Seventh Avenue, New York

PHONE: CHelsea-3 0027-0030

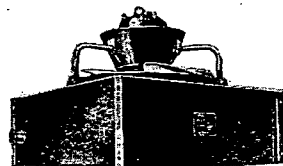
Factory:
NEWARK, N. J.

Wing Featherweight Unit Heaters and Process Heating Units;
Utility Unit Heaters; Wing Scruplex Safety Ventilating Fans,
Fog Eliminators and Exhausters; Wing Forced Draft Blowers,
Turbine or Motor-Driven; Steam Turbines; Man-Coolers.



Detail of Wing Featherfin
Heating Element showing
Compression Union Tube
Connection

Cross-Section showing location of motor and
fan. Used in buildings having low roofs
or ceilings



TYPE HC UNIT
Complete coverage accomplished with any
of discharge outlets illustrated at right

Condensed Table of Engineering Data

Type H. C.

Size	C.f.m. at Inlet	R.p.m.	Fan Hp.	Rated Motor Hp.	Air Temp. ° F.		B.t.u. per Hour	Equiv. Direct Rad.	Approx. Net Wt. Lb.
					In.	Out.			
13-HC	800	1750	0.06	1/15	60	123	55,500	231	95
17-HC	1400	1150	0.10	1/10	60	125	100,500	418	130
19-HC	2000	1150	0.21	1/4	60	123	139,500	581	160
22-HC	2750	1150	0.25	1/4	60	128	206,000	859	200
25-HC	4300	1150	0.40	1/2	60	126	315,000	1312	285
30-HC	6600	850	1.03	1	60	123	461,000	1920	430
36-HC	9800	850	2.01	2	60	120	656,000	2730	560

Type L C

Size	C.f.m. at Inlet	R.p.m.	Fan Hp.	Rated Motor Hp.	Air Temp. ° F.		B.t.u. per Hour	Equiv. Direct Rad.	Approx. Net Wt. Lb.
					In.	Out.			
13-LC	750	1750	0.06	1/15	60	122	47,500	198	95
17-LC	1310	1150	0.10	1/10	60	124	85,500	356	130
19-LC	1860	1150	0.19	1/4	60	122	118,500	494	160
22-LC	2530	1150	0.23	1/4	60	127	175,000	729	200
25-LC	4000	1150	0.36	1/2	60	125	268,000	1117	285
30-LC	6150	850	1.01	1	60	122	392,000	1633	430
36-LC	9130	850	1.90	2	60	119	557,500	2320	560

Inlet and Outlet temperatures, also B.t.u. same for 5, 40, 70, 100 and 130 lb. steam pressure.
†This weight does not include weight of discharge outlet.

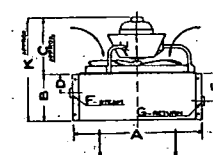
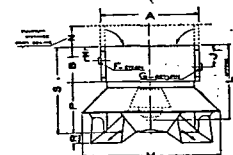
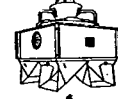
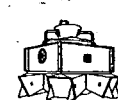
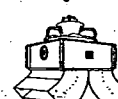
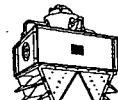
Space does not permit complete table but this data will gladly be furnished on application.

THE original and exclusive features of Wing Featherweight Unit Heater design—their light weight, the vertical downward discharge of the heated air, and multiple discharge outlets which step up the velocity of the air leaving the heater—are directly responsible for definite economies in the actual cost of industrial plant heating and in the cost of the equipment itself.

New Wing Featherfin Heating Element—(Tested to 1000 lbs. Pressure). Extremely light in weight. By simple variations of the heating surface any desired final air temperature may be obtained with any given steam pressure. Standardized for steam pressures of 5, 40, 70, 100 and 130 lbs. all producing the same low final air temperatures.

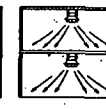
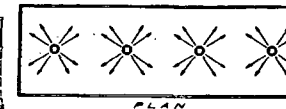
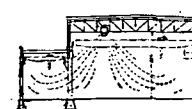
Fin and tube extended surface type. Hairpin or return bend design. Headers of steel, tubular design. Tubes secured to headers by steam-tight compression union. Easily removed and replaced in case of damage.

Standard Discharge
Outlets for Type
HC



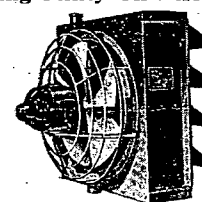
Size	A	B	C	D	E	F Steam		G Return		H	J	K	L	M	N	P	R	S
						0 to 40 Lb.	40 Lb. Up	0 to 40 Lb.	40 Lb. Up									
13	16	8	12 1/2	3 1/4	5 3/8	1 1/4	1 1/4	1 1/4	1 1/4	2 3/8	4 3/4	20 1/2	18 1/4	25	6	12	2 3/4	20
17	19 1/4	8	14	4 1/8	6 1/2	1 1/4	1 1/4	1 1/4	1 1/4	2 3/8	4 3/4	22	21 1/4	29	6	12	2 3/4	20
19	22 3/4	9	15 1/2	5 1/8	7 1/8	1 1/2	1 1/2	1 1/2	1 1/2	2 3/8	4 3/4	24 1/2	22	30	6	13 1/8	3 1/2	21
22	27 3/4	9	14 1/4	5	7 1/8	2	1 1/2	1 1/2	1 1/2	2 3/8	4 3/4	24 1/2	23	30	6	13 1/8	3 1/2	21
25	32 1/4	12	18	7	9 1/8	2 1/2	2	2	2	2 3/8	5	30	29	54	8	20	4 1/2	32
30	39 1/8	12	18 1/2	6 3/8	10	*2	2	*2	2	2 3/8	5 3/8	30 1/2	30	64 1/4	8	23 3/8	5 1/2	35 1/2

*All units have single connections except those marked * which have two.



Method of Heater Installation—First diagram shows a Type HC Unit installed above a traveling crane, the heater arranged so that the lower left portion of the building is also heated. Second diagram shows a plan view illustrating the general distribution and diffusion of heated air from Wing Heaters. The third pictures a typical multistory building heated with type LC Wing Units. The best and most economical installation of Wing Featherweight Unit Heaters is when they are placed close to roof or ceiling.

Wing Utility Unit Heater



A general purpose heater. Delivers heated air in one general direction. With vane diffusers and safety guard for fan. Capacity data same as Type HC on preceding page.

Wing-Scruplex Fog Eliminators supply tempered fresh air to completely de-fog any building or room where steam, fog or fumes are liberated in manufacturing processes.

Wing-Scruplex Safety Ventilating Fans

An integral guard of strong steel rings welded to the frame features every model of the Wing-Scruplex Safety Ventilating Fan. This guard removes the ever-present danger which exists whenever fans are in an exposed location, and does not reduce fan efficiency.

The high volumetric efficiency of Wing-Scruplex Safety Fans is due to their true screw propeller design which moves the air forward in straight lines without eddy. Motor

is fully enclosed, easily accessible and generously proportioned. Can also be supplied with pulley or turbine drive.

Wing-Scruplex Safety Fans are built in the following sizes: 10, 13, 17, 22, 25, 30, 36, 42, 48, 54 and 60 in.—capacities from 950 c.f.m. to 33,000 c.f.m. Up to 25 in. dia. propellers are made of cast-aluminum—larger sizes of pressed steel.

