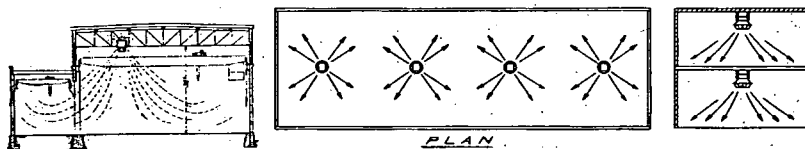


Methods of Installation

The drawings below show a typical high ceiling and low ceiling installation, 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, the 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



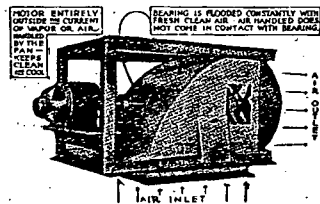
Condensed Table of Engineering Data

Unit Size	"A x A" Inches	B Inches	C Inches	D Inches	Air C.f.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	1/4	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 1/4	27 1/4	6	3200	1/4	60	112	162,000	270
22-4-12	27 1/4	27 1/4	27 1/4	6	2800	1/4	60	122	169,000	280
22-5-12	27 1/4	27 1/4	27 1/4	6	2600	1/4	60	133	180,000	288
25-4-12	32 1/4	28 1/4	28 1/4	7	4800	1/2	60	122	289,500	320
25-5-12	32 1/4	28 1/4	28 1/4	7	4500	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	625,000	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

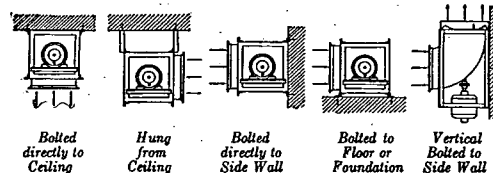
Wing-Scruplex Exhausters

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 accompanying diagrams show the methods of installation.

(continued on next page)

Proper Selection of Exhausters

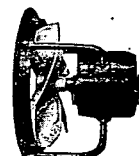
Where particularly quiet operation is desired, as in offices, residences, hospital wards, churches, theatres, etc., use lowest speeds in all sizes. For toilet rooms, laboratories, motion picture booths, stock-



"WING-SCRUPLEX" EXHAUSTERS

rooms, etc., use any speed in sizes 1 and 2; low and medium speeds in all other sizes. In industrial plants, hotel and restaurant kitchens, engine-rooms, workshops, etc., use any speeds.

The accompanying table gives performances at static pressures up to 1/2 in. Complete table up to 1 in. static on request.

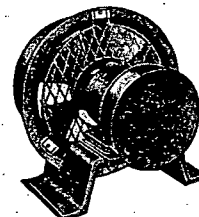


Wing-Scruplex Fan

Size	Inlet Sq. In.	Outlet Round, In.	Speed R. p. m.	Free Air		.15 in.		.25 in.		.40 in.		.50 in.	
				Cu. f. m.	Hp.	Cu. f. m.	Hp.	Cu. f. m.	Hp.	Cu. f. m.	Hp.	Cu. f. m.	Hp.
1-A	10	10 1/2	1750	850	0.052	630	0.054	330	0.060	.....	.....	.....	.....
2-A	13 1/2	14 1/2	1150	1440	0.060	950	0.069	395	0.090	.....	.....	.....	.....
2-B	13 1/2	14 1/2	1750	2050	0.195	1895	0.208	1695	0.216	1155	0.248	750	0.285
3-S	16 1/2	17 1/2	850	2130	0.090	1250	0.110	.....	.....	.....	.....	.....	.....
3-A	16 1/2	17 1/2	1150	2700	0.180	2150	0.195	1550	0.221	.....	.....	.....	.....
3-C	16 1/2	17 1/2	1750	4000	0.600	3720	0.635	3510	0.655	3150	0.700	2810	0.720
4-S	21	21 1/2	850	2850	0.100	2200	0.125	1610	0.150	.....	.....	.....	.....
4-A	21	21 1/2	1150	3575	0.170	3150	0.200	2775	0.220	1950	0.245	1550	0.280
4-C	21	21 1/2	1750	5400	0.540	5160	0.600	4990	0.650	4670	0.710	4440	0.750
5-A	25	25	1150	5200	0.330	4720	0.380	4250	0.440	3300	0.530	2610	0.600
5-B	25	25	1750	8000	1.330	7740	1.360	7540	1.400	7175	1.480	6900	1.540
6-A	30	30	600	5500	0.210	3725	0.250	2375	0.330	.....	.....	.....	.....
6-B	30	30	850	7400	0.550	6280	0.600	5450	0.740	4000	0.830	3400	0.960
6-C	30	30	1150	10250	1.500	9520	1.550	8950	1.570	8000	1.620	7340	1.760

Wing-Scruplex Fans

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



Wing E M Blower

Wing Type E M Motor-Driven Blowers

Wing motor-driven Blowers are installed in heating boilers so that low cost Buckwheat coal can be burned with great savings in fuel bills and with better heating results. They are also used in industrial plants where motor drive is preferred to turbine drive.

The Wing E M Blower is a simple compact unit of motor, fan, and casing, of the same general design as the Wing Turbine Blower, the first individual forced draft fan-blower ever built. Wing units are either set directly in the boiler brick base or are equipped with mounting feet or base and connected to the ashpit by a short duct in the case of cast iron boilers.

Motors are fully enclosed and dustproof. Because of this feature they stand up for years in the dusty atmosphere of boiler rooms without repair. Another feature is variable speed control; this permits of regulation without the use of dampers and saves power.

Wing Blowers are cutting down fuel bills in hundreds of schools, apartment houses, lofts, hotels, churches and institutions throughout the country. Booklet 46 describes Wing motor-driven units.

Information on Wing turbine-driven units in Bulletin 87.



The Wing Blower in foreground supplies forced draft to hot water supply heater; while blower in background serves two return tubular heating boilers