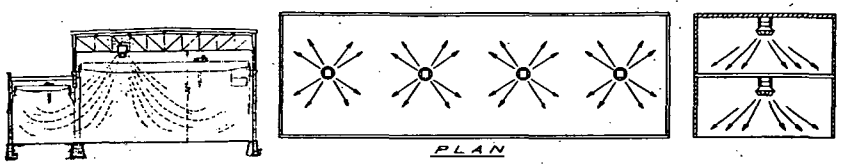
Methods of Installing Wing Units

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 Type HC 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 illustrations shows a typical multi-story building heated with Type LC heaters.



Condensed Table of Engineering Data

(Letters refer to dimensions indicated on illustrations at top of preceding page)

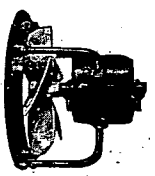
Unit Size	A x A. In.	B. In.	C. In.	D. In.	Air. C.f.m.	Motor, Hp.	Temperature Room	Temperature Leav.	B.t.u. per Hr. Available	Approximate Shipping Weight, Lb.
13-4-12	19¾	26½	24	6	1150	⅛	60	110	57,100	185
17-3-12	22¾	28	26	6	1950	¼	60	110	96,900	213
22-3-12	27¾	29	26	6	3200	¼	60	112	162,000	270
22-4-12	27¾	29	26	6	2800	¼	60	122	169,000	280
22-5-12	27¾	29	26	6	2600	¼	60	133	180,000	288
25-4-12	32¾	30½	28½	7	4800	½	60	122	289,500	320
25-5-12	32¾	30½	28½	7	4500	½	60	133	311,400	332
30-4-85	40⅛	36	38	8	6900	1	60	122	416,000	360
30-5-85	40⅛	36	38	8	6500	1	60	133	450,000	365
36-4-85	46⅛	42	42	8	9600	2	60	122	579,000	504
36-5-85	46⅛	42	42	8	9000	2	60	133	623,000	528

Complete table for other room temperatures will be furnished on request.

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.

The Wing Scruplex Fan

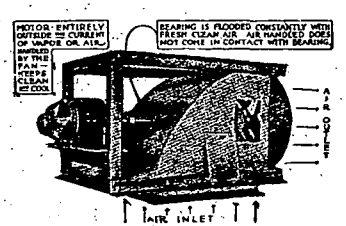


Wing-Scruplex Fan

Its true screw-propeller design moves **all** the air straight forward without eddy. Current consumption is low.

The motor is generously proportioned, totally inclosed, easily accessible. Pully or turbine drive also furnished.

Wing Scruplex 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. diameter propellers are made of cast aluminum—larger sizes of pressed steel.

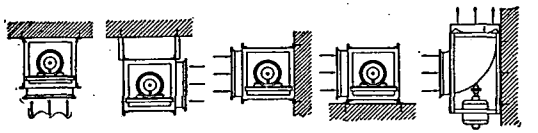


Wing-Scruplex Exhauster

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.

Proper Selection of Exhausters



Bolted directly to Ceiling | *Hung from Ceiling* | *Bolted directly to Side Wall* | *Bolted to Floor or Foundation* | *Vertical Bolted to Side Wall*

Where particularly quiet operation is desired, as in offices, residences, hospital wards, etc., use lowest speeds in all sizes in the table below. For toilet rooms, laboratories, motion picture booths, stock-rooms, etc., use any speed in sizes 1 and 2; low and medium speeds in all other sizes. In industrial plants, engine-rooms, workshops, etc., use any speeds.

Capacities of Wing-Scruplex Exhausters up to 0.5" static.

Size	Inlet Sq. In.	Outlet Round In.	Speed R.p.m.	Free Air C.f.m.	Free Air Hp.	.15 in. C.f.m.	.15 in. Hp.	.25 in. C.f.m.	.25 in. Hp.	.40 in. C.f.m.	.40 in. Hp.	.50 in. C.f.m.	.50 in. Hp.
1-A	10	10½	1750	850	0.052	630	0.054	330	0.060	.....	.....	.....	.....
2-A	13½	14⅛	1150	1440	0.060	950	0.069	395	0.090	.....	.....	.....	.....
2-B	13½	14⅛	1750	2050	0.195	1895	0.208	1695	0.216	1155	0.248	750	0.285
3-S	16¾	17⅜	850	2130	0.090	1250	0.110	.....	.....	.....	.....	.....	.....
3-A	16¾	17⅜	1150	2700	0.180	2150	0.195	1550	0.221	.....	.....	.....	.....
3-C	16¾	17⅜	1750	4000	0.600	3720	0.635	3510	0.655	3150	0.700	2810	0.720
4-S	21	21¾	850	2850	0.100	2200	0.100	1610	0.125	.....	.....	.....	.....
4-A	21	21¾	1150	3575	0.170	3150	0.200	2775	0.220	1950	0.245	1550	0.280
4-C	21	21¾	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

Complete data on request

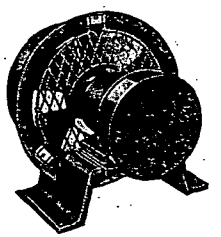
Acid Resisting Monel Metal Fans and Exhausters

For handling acid laden air, Wing Scruplex Exhausters and Wing Scruplex Fans are supplied with all parts that come in contact with the air exhausted, made of Monel Metal.

Wing Blowers for Forced Draft

Wing motor-driven Type EM Blowers are chosen for forced draft for heating boilers of all sizes because they maintain the same high standards which have made the Wing Turbine Blower a standard in forced draft equipment for pressure boilers for 25 years.

The installation of a Wing Unit makes possible the use of Buckwheat coal and other inexpensive fuels with great savings in fuel costs, which usually pay for the blower in the first year of operation.

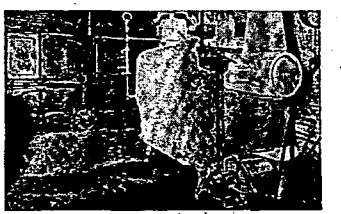


Wing EM Blower

These blowers are of the propeller type fan construction, which affords large air passages and low air velocities, resulting in quiet operation and even fires.

Wing Blowers are controlled by speed regulation, conveniently operated from the front of the boiler. Totally enclosed motors keep out the dust and dirt of the boiler room, insuring many years of service without repair. Automatically controlled, they make the fireman's work easier.

Ask for Bulletin No. 46 describing Wing EM Units, and Bulletin No. 87 describing Turbine Blowers.



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