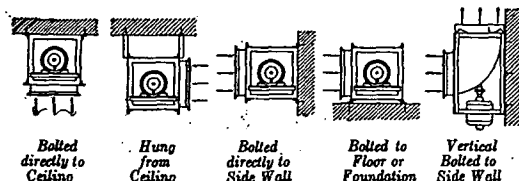


Proper Selection of Exhausters



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 Square In.	Outlet Round In.	Speed R.p.m.	Free Air		.15 in.		.25 in.		.40 in.		.50 in.	
				C.f.m.	Hp.	C.f.m.	Hp.	C.f.m.	Hp.	C.f.m.	Hp.	C.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 1/8	1150	1440	0.060	950	0.069	395	0.090				
2-B	13 1/2	14 1/8	1750	2050	0.195	1895	0.208	1695	0.216	1155	0.248		
3-S	16 1/2	17 1/8	850	2130	0.090	1250	0.110					750	0.285
3-A	16 1/2	17 1/8	1150	2700	0.180	2150	0.195	1550	0.221				
3-C	16 1/4	17 1/8	1750	4000	0.600	3720	0.635	3510	0.655	3150	0.700	2810	0.720
4-S	21	21 1/4	850	2850	0.100	2200	0.100	1610	0.125				
4-A	21	21 1/4	1150	3575	0.170	3150	0.200	2775	0.220	1950	0.245	1550	0.280
4-C	21	21 1/4	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	5900	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 standard forced draft equipment for pressure boilers for 25 years.

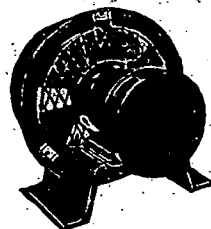
The installation of a Wing Unit makes possible the use of Buckwheat coal and other inexpensive fuels with great savings in fuel costs, which usually pay for the blower in the first year of operation.

These blowers are of the propeller type fan construction. They afford 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.

There is also the Wing Intensi-Fire System for burning Buckwheat coal in the home.

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



Wing EM Blower

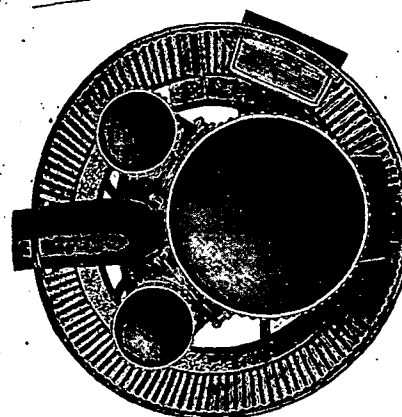


The Wing Blower in foreground supplies forced draft to hot water supply heater; while blower in background serves two return tubular heating boilers

Langenberg Manufacturing Co.

4549 No. Euclid Ave.

St. Louis, Mo.



No. of Furnace*	Over-all Height In.	Grate Area Sq. In.	Ratio: Heating Surface Grate Area	Rating Sq. In.	Size Feed Door Sq. In.	Size Ash Door Sq. In.
381	68	177	36.1	350	10 x 12	8 1/2 x 11 1/2
455	72	258	28.6	529	8 1/2 x 12 1/2	10 x 15 1/2
515	73	388	21.9	705	8 1/2 x 12 1/2	10 x 15 1/2
575	75	471	21.8	853	8 1/2 x 12 1/2	12 x 14
635	75	578	20.0	1015	8 1/2 x 12 1/2	12 x 14
665	89	578	24.0	1093	8 1/2 x 12 1/2	12 x 14

*First two figures of number are diameter of casing.

The above data in connection with the Standard Code, published as a part of the Chapter on Gravity Warm Air Heating, will enable the Architect, Engineer or Contractor to specify the correct size FRONT RANK furnace for any project.

Any FRONT RANK furnace installed by an authorized dealer according to the Standard Code is guaranteed to maintain an average temperature of 70 deg. in zero weather.

A new way of heating homes, churches and schools is to combine the heating and ventilating apparatus into a single unit under automatic control.

The FRONT RANK is such a system—equipped with fan, vapor supply, air filters, etc.

Stratification is reduced by a positive air movement thus providing a higher degree of comfort than is ordinarily possible. Air conditions are under control. Wind pressures are overcome. The system occupies no usable space in the parts of the building to be heated.

In small buildings the Standard Code is followed. In large buildings modern engineering principles are used in accurately computing heat losses and estimating required capacities.

Each system is designed especially for the building in which it is to be erected.

We have specialized in good Warm Air Heating since 1888.

