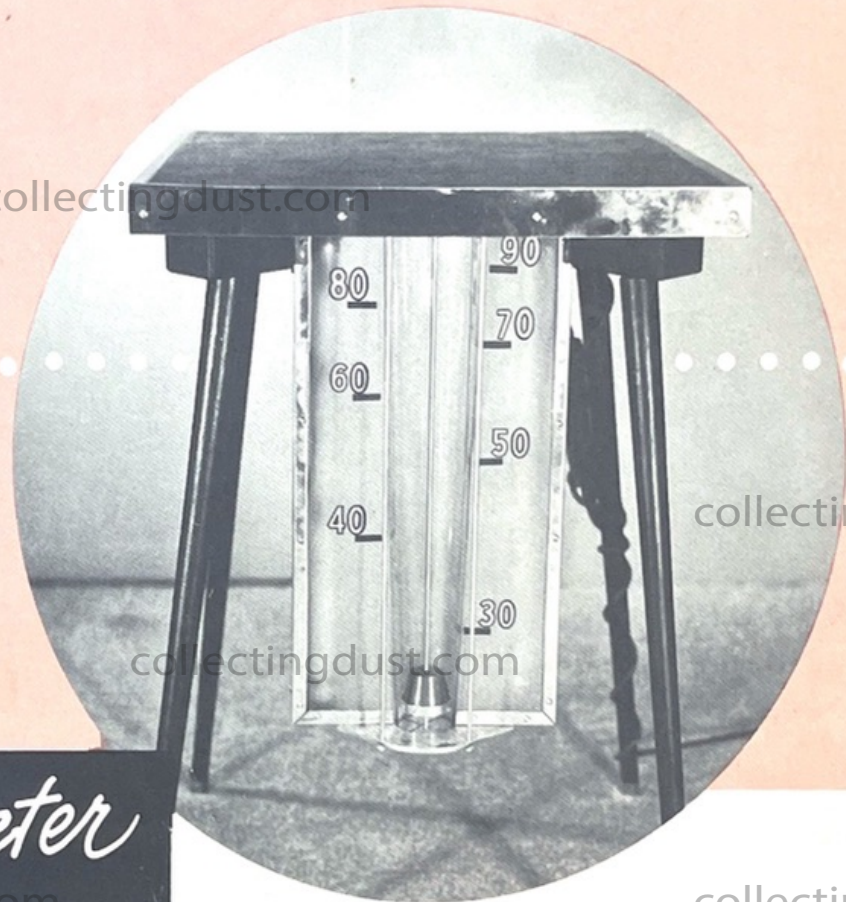


VOLUME OF AIR MOVED

DETERMINES CLEANING ABILITY



Rotameter

There are several ways of measuring the power of a vacuum cleaner but there is only one scientific method of measuring the **cleaning ability** of a vacuum cleaner and that is to measure the volume of air moved per minute under normal operating conditions.

When we think of the power of a vacuum cleaner, we are thinking primarily of its ability to clean. Since cleaning takes place only when air is moved, it is an undisputed fact that the more air moved by a cleaner, the better its cleaning power. To measure the flow of air, or the **cubic feet of air moved per minute**, we can call upon a scientific instrument known as a Rotameter. Such an instrument is pictured above and has been used to measure the cleaning efficiency of several types and makes of vacuum cleaners. The factual results of these tests are reported to you in unretouched photographs of carefully and impartially conducted tests.

Rotameter

Metropolitan Engineering, Inc.,
 Research Institute, Technology
 University, Ohio
 Cleveland, Ohio
 December 1, 1956

The Scott & Fetzer Co.,
 120 West 114th Street,
 Cleveland, Ohio

Actual Mr. Shepard

The calibration sheet of your rotameter gave the following results:

No. 80	Flow Rate To Bottom of Front Scale	Actual Air-Flow CFM	Actual Temperature Deg. F
1	1 - 1/16"	30	68
2	0 - 0"	34	69
3	6 - 1/16"	40	70
4	8 - 1/16"	46	71
5	9 - 1/16"	50	72
6	11 - 1/16"	56	73
7	12 - 1/16"	60	74
8	13 - 1/16"	66	75
9	15 - 1/16"	80	76
10		90	77

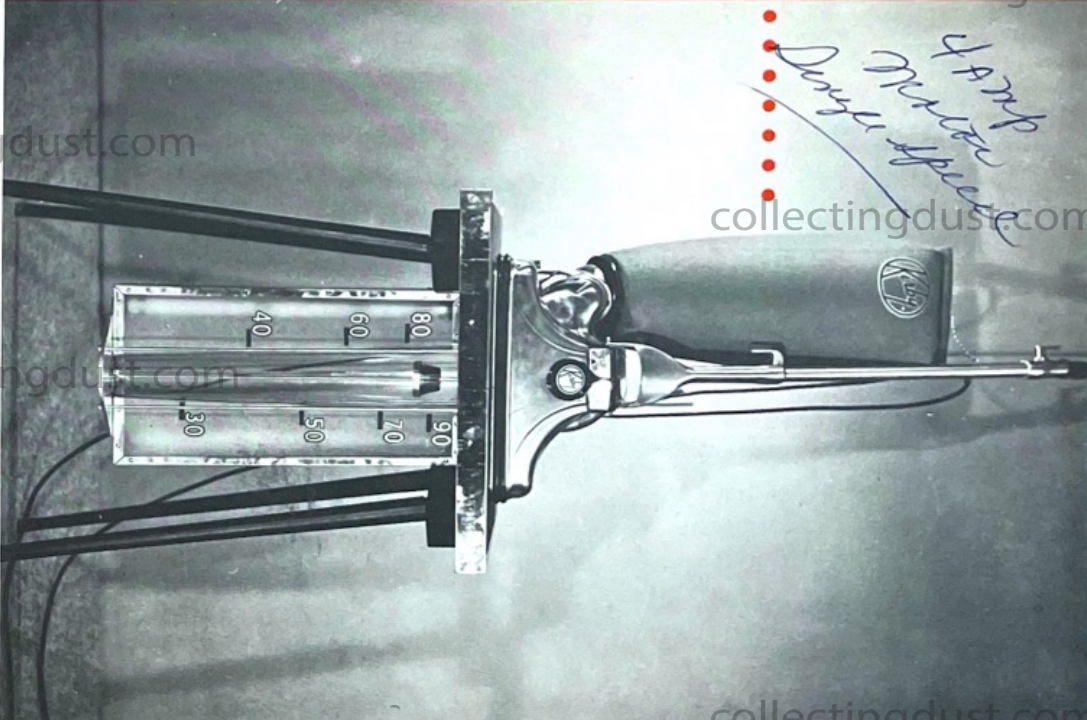
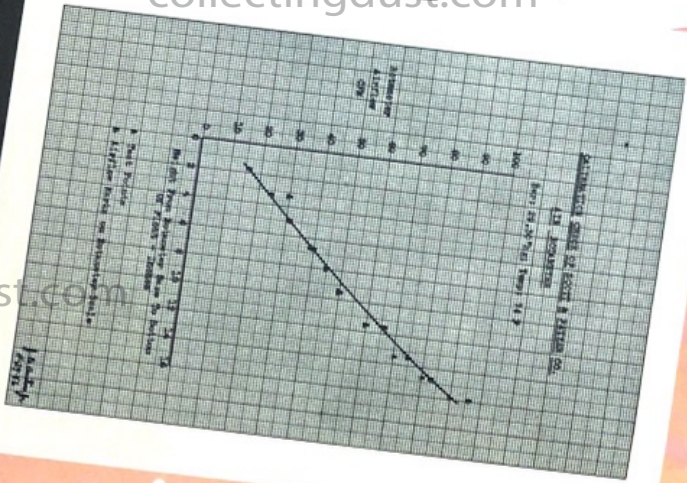
Barometer uncorrected: 29.50 in. Hg at mean air temperature of 74 F.

Results are also presented graphically on the attached sheet. Can
 you please advise us the recommended result factor can be above
 indicated.

Sincerely,
 James S. Anderson, Jr.
 John S. Anderson, Jr.



**ACCURACY
 CHECKED BY
 CASE INSTITUTE
 OF TECHNOLOGY
 CLEVELAND, OHIO**



83 CUBIC FEET PER MINUTE HOME SANITATION SYSTEM

In this test the Kirby is operating just as it will when you use it to clean the carpets and rugs in your home. The conditions under which the Kirby was tested are identical with those for all other units tested in this study. It is obvious that the Kirby moves a larger volume of air than any other machine and, therefore, it can be rated as having the highest cleaning power.

Even though the Kirby has the ability to move a large volume of air, we further improve its ability to clean by vibrating the carpet to loosen the deeply embedded dirt. We call this our Triple Cushion Vibration. These two characteristics — largest volume of air plus Triple Cushion Vibration — make the Kirby the greatest piece of home cleaning equipment yet devised.

In this test the Kirby Suction Relief Vent is open to reduce the suction of the carpet. This enables you to clean more easily lighter weight floor coverings which otherwise might be pulled up into the ducts by the strong flow of air. You can see by comparison that the volume of air received has been reduced about 15%. The right air flow for these lighter floor coverings.

Effect of Suction Relief Vent

70
cubic feet per minute



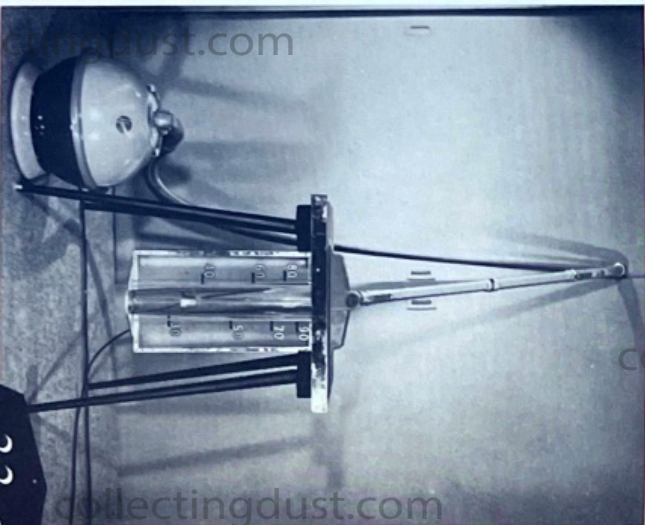
Kirby Tank Type

By comparing this test of the Kirby tank-type with the others, you can see for yourself that the Kirby air tank compares favorably with the most powerful tanks tested, and is superior to most tanks tested.

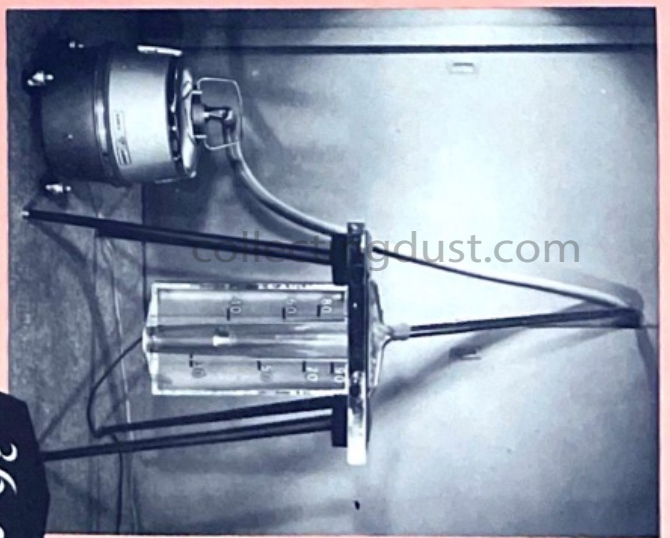
40
cubic feet per minute



32 cfm



33 cfm



36 cfm



36 cfm

Effect of Suction Relief Vent

In this test the Kirby Suction Relief Vent is open to reduce the suction at the carpet. This enables you to clean more easily light-weight floor coverings which otherwise might be pulled up into the nozzle by the strong flow of air. You can see by comparison that the volume of air moved has been reduced about 15%, the right air flow for these lighter floor coverings.

70 cubic feet per minute

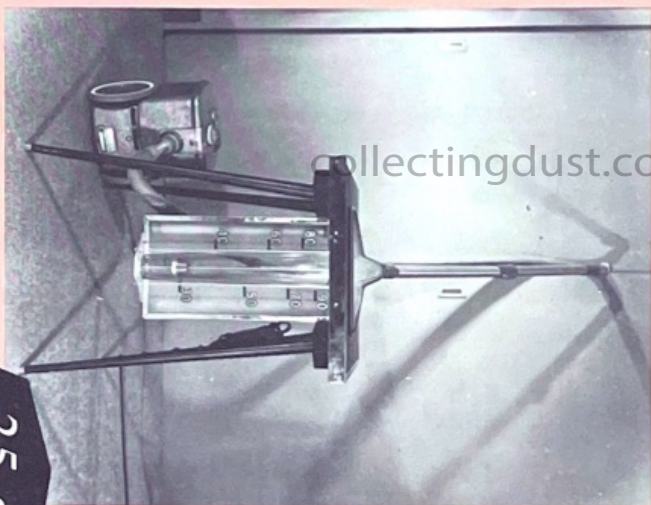


Kirby Tank Type

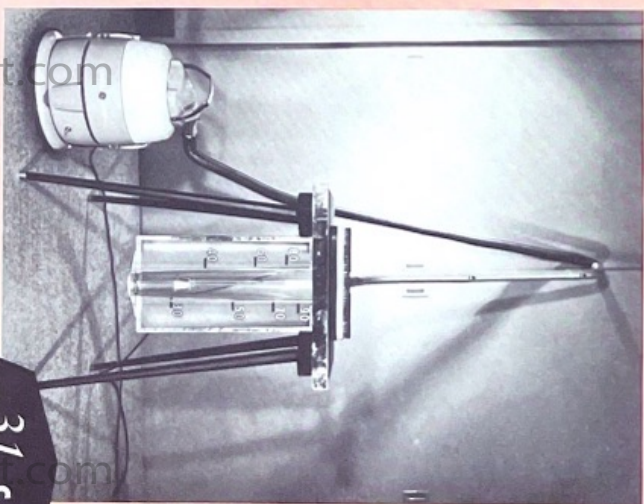
By comparing this test of the Kirby tank-type with the others, you can see for yourself that the Kirby tank compares favorably with the most powerful tank tested, and is superior to most tanks in

40 cubic feet per minute

31 cfm



25 cfm



31 cfm

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collectin

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ectingdust.com

collectingdust.com



39 cfm

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41 cfm

collectingdust.com

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