

Range Configurations

Retrotec Blower Door Fan systems create airflow over a very wide range. The Open Range yields the most flow, but as fan speed is decreased the fan pressure drops too low to be accurately measured. Range Rings and Plates can then be installed to restrict the fan inlet, forcing the fan speed to be increased to maintain the required flow and increase the fan pressure.

Use the Range Configurations shown below to optimize the fan pressure readings.

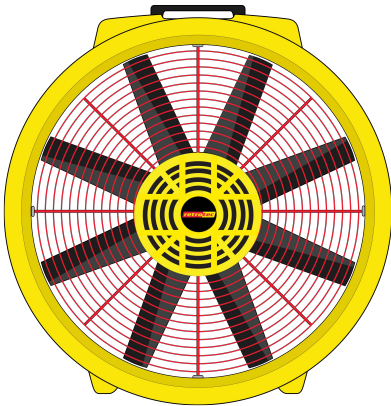
- If you cannot achieve the desired building pressure, use a more open range.
- If your gauge says "TOO LOW", change to more restrictive range.

Large flow ranges for large and leaky buildings

There are six high flow Range options:

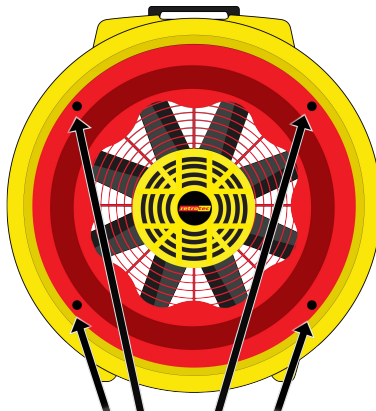
Open Range

all Range Rings and Plates are removed



Range A

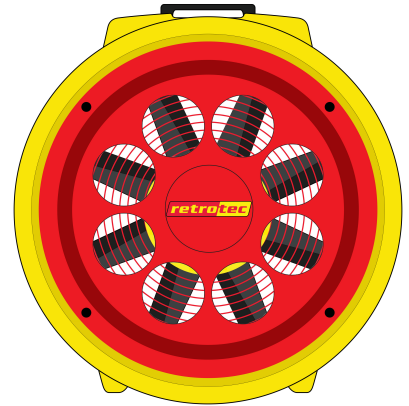
install the largest Ring



If large plate contains 4 Pins, ensure they are aligned & inserted. 8 extra Pins included and can be used for future replacement.

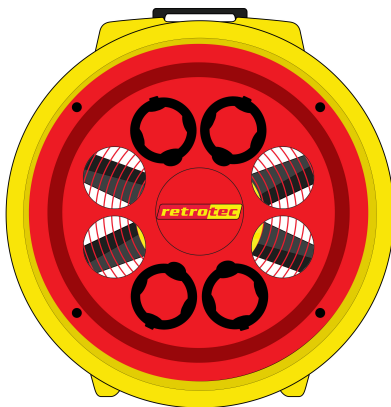
Range B

add the B Ring on top of the A Ring; a good place to start a test



Range B4

4 holes open



Range B2

2 holes open



Range B1

1 hole open

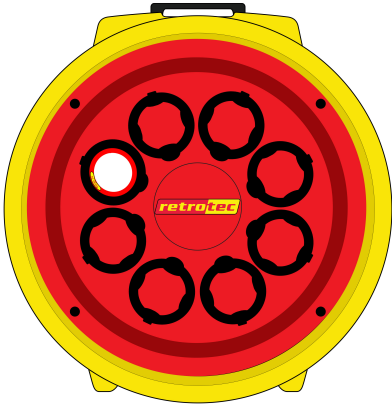


Optional Range Configurations

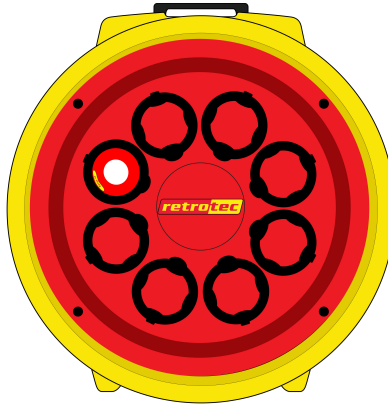
Low flow Ranges for very tight enclosures

Further reduce or restrict the flow:

Range B74



Range B47



Range B29



Fan Model	Voltage	Hz	Maximum Flow at 50 Pa on Range Configuration								
			Open	Ring A	B8	B4	B2	B1	B74	B47	B29
5000	120/240	60	5694	4286	2497	1144	509	270	135	61	23
6000	120/240	60	7744	4760	2917	1288	541	294	161	72	26

Fan Model	Voltage	Hz	Minimum Flow at 50 Pa on Range Configuration								
			Open	Ring A	B8	B4	B2	B1	B74	B47	B29
5000	120/240	60	2111	1291	830	393	188	111	37	21	9.1
6000	120/240	60	2722	1444	830.1	348	142	95	37	21	9.1

Performance will vary based on altitude, temperature, run time, power cable length, local voltage variations, tip clearance, and fan calibration.

For the latest documentation, visit retrotec.com