

## Key Rivet Design – Single Inlet

4.25 inch (108 mm) Diameter

Key Rivet™ blower wheels (also known as Fergas wheels) outperform competitors' tab-lock design by using a unique "key rivet" manufacturing technique that results in a wheel which is lighter and five times stronger than those made by traditional tab-lock methods.

The Key Rivet wheel, compared to a similar size tab-lock wheel, provides higher performance with a quieter and more efficient operation.

This wheel diameter is manufactured at Beckett Air. Existing tooling is available for several other diameters and widths.



## Specifications

Configuration Number	Dia. "D"		Width "W"		No. of Blades	Max Rivet Hgt. "H"		Blade-to-Blade I.D. "K"		App. Wt. Steel		Max RPM
	in.	mm	in.	mm		in.	mm	in.	mm	Lbs.	kg	
F108-25S	4.25	108	0.98	25	34	0.04	1.1	3.35	85	0.23	0.10	7100
F108-32S			1.26	32						0.26	0.12	7100
F108-34S			1.34	34						0.27	0.12	7100
F108-42S			1.65	42						0.30	0.14	7100
F108-52S			2.04	52						0.34	0.15	6400
F108-62S			2.44	62						0.37	0.17	6400
F108-75S			2.95	75						0.40	0.18	6000

Maximum RPM is based on stationary installations and ambient operating temperatures. Please contact Beckett Air for information regarding applications outside these parameters.

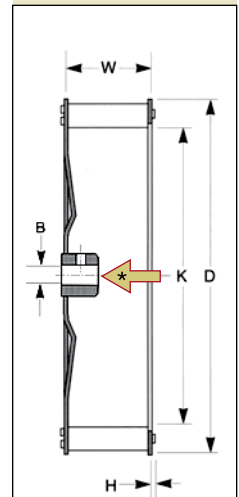
## Options

Rotation <sup>1</sup>	Wheel Material <sup>2</sup>		Secondary Coatings <sup>3</sup>	Std. Hub Bores "B" <sup>4</sup>		Hub Material	Other <sup>5,6,7</sup>
				In.	mm		
CW, CCW	Aluminum	Standard Option	Paint, E-coating, Nickel Plating	1/4, 5/16, 3/8, 1/2	6.4, 7.9, 9.5, 12.7	Aluminum, Nickel-Plated Steel, Plain Steel, Zinc-Plated	Housings, Backplates, Balancing
	Aluminized Steel	Standard Option					
	Galvanized Steel	Standard Option					
	Galvalume	Custom Option					
	Galvanneal	Custom Option					
	Plain Steel	Custom Option					

### Notes

- Rotation is defined by note on dimensional reference drawings.
- Materials listed as Standard Option are most commonly used in Key Rivet wheels but other materials listed as Custom Option are available.
- Secondary coatings are applied to fully assembled wheel.
- Standard hub has one set screw. Hubs with two screws and/or metric bore sizes are also available.
- For quoting purposes, Beckett Air will quote a standard housing for the wheel that is selected if required. Customers can also submit a specific engineered design for a final quotation.
- Backplates used on the wheels listed in this category are flat but concave backplates are available in some diameters.
- Rotating static balance to .040 ounce-inch (standard). Dynamic (two plane) balance and/or reduced static balance tolerances (optional).

### Dimensional Reference

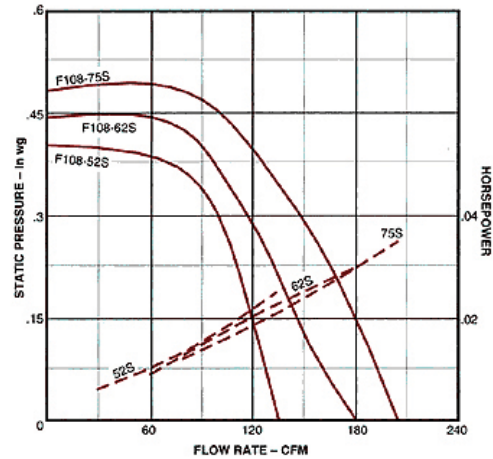
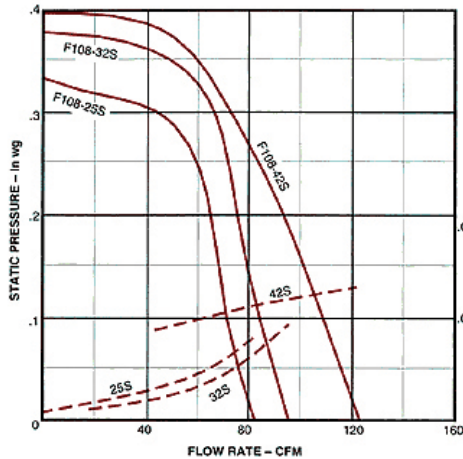


\*Rotation for single-inlet blower wheels is determined by viewing the open end (inlet side).

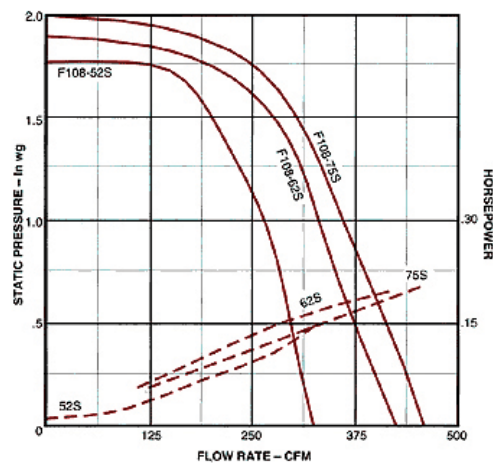
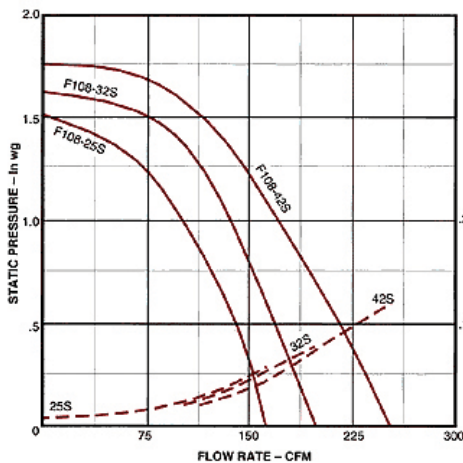
## Airflow Characteristics

Performance charts below are for reference only. Actual airflow, static pressure and horsepower characteristics are dependent on application, motor used, inlet/outlet dimensions and other factors. Beckett Air can provide samples of wheels or perform testing on blower wheels as installed to confirm actual performance characteristics.

### 1725 RPM



### 3450 RPM



## Typical Applications

HVAC	Household Appliances	Commercial Food Preparation	Electronics Cooling	Commercial Applications	Transportation Cooling/Heating
Central Heating	Water Heaters	Warming Cabinets	Server Enclosures	Air Doors / Curtains	Train
Air Conditioning	Bathroom Ventilation	Convection Ovens	Medical Devices	Clean Technology	Bus
Commercial Fan Coils	Range Hoods	Combi Ovens	Business Machines	Process Cooling & Drying	Truck
Exhaust Fans		Counter Top Ovens		De-Dusting Systems	Off Road
Hearth Products		Induction Cooktops		Elevator Exhaust Fan	Auto Vent & Heater
Convection Heaters		Ventilation Systems		Motor Cooling	
Radiant Heaters					

All data listed in this informational sheet is subject to change without notice.

For more information, go to [www.beckettair.com](http://www.beckettair.com) or contact Beckett Air, Inc.

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