# BECKETT

## Forward Curved Centrifugal Wheels

### Key Rivet Design – Single Inlet

7.08 inch (180 mm) Diameter

Key Rivet<sup>™</sup> 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	Max Rivet Hgt. "H"		Blade-to-Blade I.D. "K"		App. Wt. Steel		Max
	in.	mm	in.	mm	Diades	in	mm	in.	mm	Lbs.	kg	
F180-25S	7.08		0.98	25	38	0.05	1.2	5.95	151	0.46	0.21	3100
F180-34S			1.34	34						0.50	0.23	3100
F180-52S		8 180	2.04	52						0.61	0.28	2800
F180-62S			2.44	62						0.66	0.30	2800
F180-75S			2.95	75						0.72	0.33	2800
F180-82S			3.23	82						0.75	0.34	
F180-88S			3.46	88						0.79	0.36	2200
F180-102S			4.02	102						0.86	0.39	2200

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

#### Notes

1 Rotation is defined by note on dimensional reference drawings.

2 Materials listed as Standard Option are most commonly used in Key Rivet wheels but other materials listed as Custom Option are available.

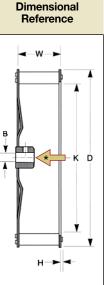
3 Secondary coatings are applied to fully assembled wheel.

4 Standard hub has one set screw. Hubs with two screws and/or metric bore sizes are also available.

5 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.

6 Backplates used on the wheels listed in this category are flat but concave backplates are available in some diameters.

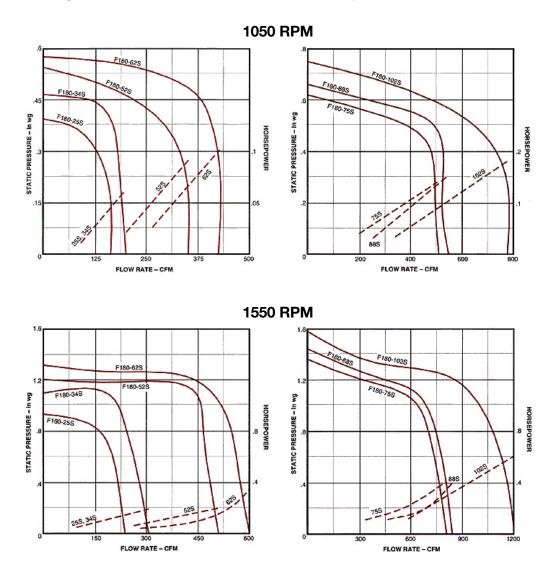
7 Rotating static balance to .040 ounce-inch (standard). Dynamic (two plane) balance and/or reduced static balance tolerances (optional).



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

#### **Airflow Characteristics**

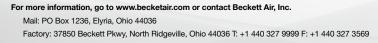
Performance charts below are for reference only. Actual airflow, static pressure and horsepower characteristics are dependent on application, motor used, inlet/outlet dimensions and other factors. Beckett Air can provide samples of wheels or perform testing on blower wheels as installed to confirm actual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



#### **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.





Ref. KR180S (12/2020)