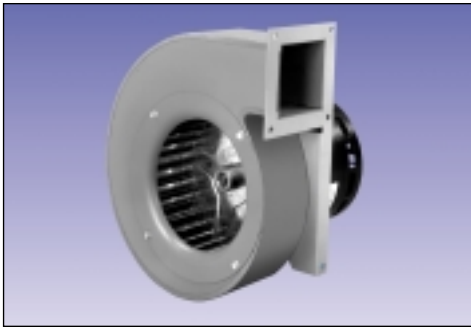


HIGH PRESSURE CENTRIFUGAL BLOWERS



KBB51

STANDARD FEATURES

- Baked Powder Finish
- Capacities: 160 to 475 CFM
- Designed for mid-range static pressure
- Full performance in any mounting position
- Rugged construction
- UL/CSA precision ball-bearing motors
- 12" [304.8mm] (minimum) power and ground leads

ACCESSORIES AND OPTIONS*

- Airflow Switch
- Other voltages and frequencies
- Special external paint finishes
- Special line cords or connectors

*See accompanying literature for more information.

TECHNICAL DATA**

Model	CFM@ 0" S.P.	Cutoff S.P.	RPM Nominal
KBB38	160	1.90	3425
KBB47	200	2.40	3000
KBB51	260	2.60	3500
KBB58	300	3.60	3475
KBB63	390	4.70	3375
KBB65	475	6.30	3000

Model	Amps		Watts	Approximate Weight	
	Run	L.R.		Lbs.	[kg]
KBB38	0.9	2.1	100	8	3.6
KBB47	1.8	2.1	200	8	3.6
KBB51	2.4	13.6	230	13	5.9
KBB58	2.9	13.6	290	13	5.9
KBB63	4.6	15.0	290	15	6.8
KBB65	7.6	15.0	810	16	7.3

Note: Power input is substantially reduced at higher static pressures.

**115V, 60 Hz. operation

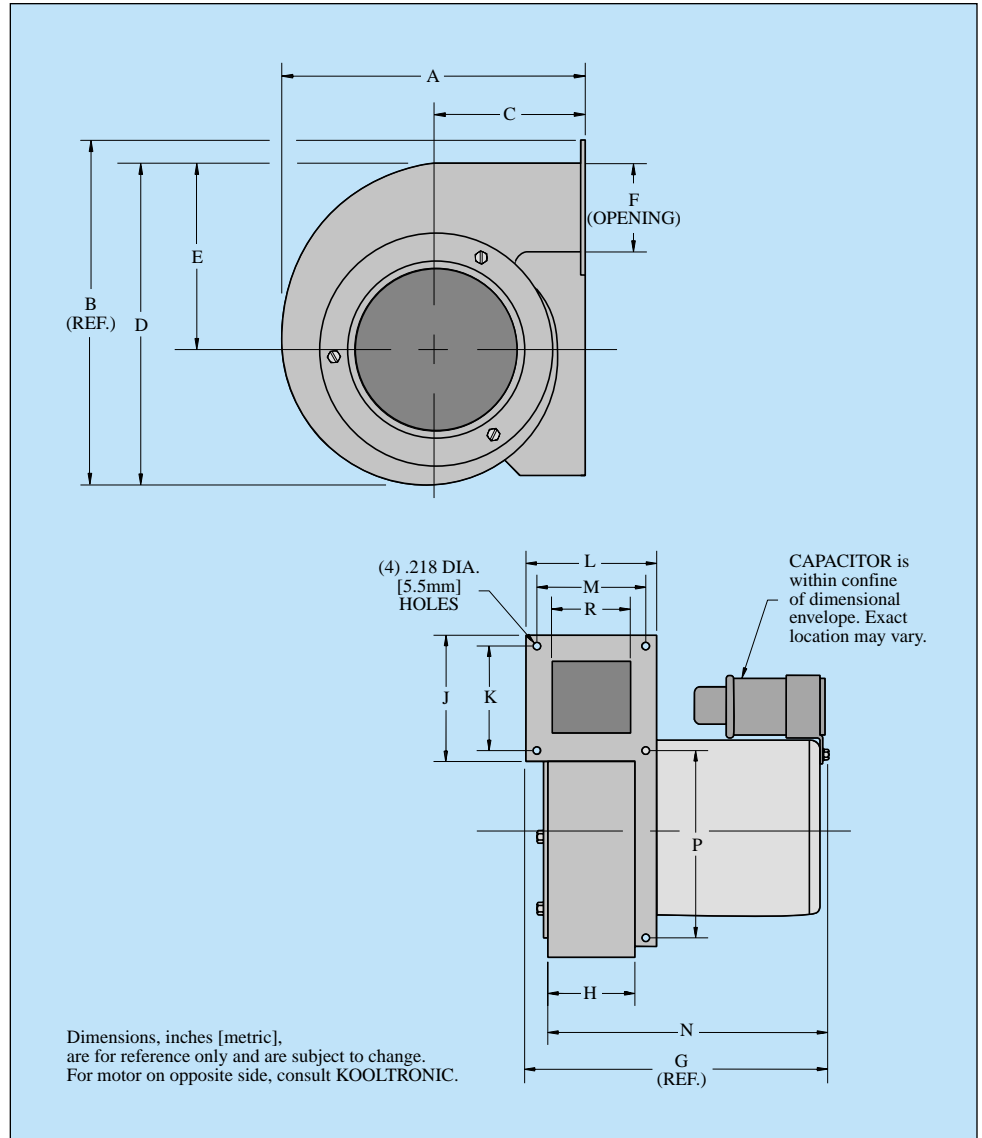
HOW TO ORDER

Specify model number. For 230 VAC operation, add a 2 after the K. Example: K2BB51.

For assistance in model selection, refer to the *Blower and Fan Selection Guides*, contact KOOLTRONIC, or use one of our design aid software programs, available FREE.

CALL 1-800-321-KOOL (5665)
or FAX 609-466-1114

**POPULAR MODELS ARE
STOCKED AND READY TO SHIP**



DIMENSIONS (inches [metric])

Model	A	B	C	D	E	F	G
KBB38	6.38 [162.1]	7.38 [187.5]	3.00 [76.2]	6.75 [171.5]	3.88 [98.6]	2.00 [50.8]	7.50 [190.5]
KBB47	7.31 [185.7]	8.19 [208.0]	3.50 [88.9]	7.56 [192.0]	4.38 [111.3]	2.31 [58.7]	7.38 [187.5]
KBB51	8.13 [206.5]	9.25 [235.0]	4.00 [101.6]	8.63 [219.2]	5.00 [127.0]	2.38 [60.5]	8.44 [214.4]
KBB58	8.56 [217.4]	9.88 [251.0]	4.00 [101.6]	9.25 [235.0]	5.31 [134.9]	2.63 [66.8]	8.63 [219.2]
KBB63	9.69 [246.1]	11.19 [284.2]	4.19 [106.4]	10.56 [268.2]	5.94 [150.9]	2.63 [66.8]	8.75 [222.3]
KBB65	9.63 [244.6]	11.31 [287.3]	4.50 [114.3]	10.56 [268.2]	6.06 [153.9]	3.81 [96.8]	9.00 [228.6]

Model	H	J	K	L	M	N	P	R
KBB38	2.50 [63.5]	3.25 [82.6]	2.63 [66.8]	3.50 [88.9]	2.88 [73.2]	7.00 [177.8]		* 2.38 [60.5]
KBB47	2.25 [57.2]	3.63 [92.2]	3.00 [76.2]	3.50 [88.9]	2.88 [73.2]	6.75 [171.5]		* 2.00 [50.8]
KBB51	2.50 [63.5]	3.63 [92.2]	3.00 [76.2]	3.75 [95.3]	3.13 [79.5]	7.81 [198.4]	5.38 [136.7]	2.38 [60.5]
KBB58	2.50 [63.5]	4.00 [101.6]	3.38 [85.9]	3.75 [95.3]	3.13 [79.5]	8.00 [203.2]	5.75 [146.1]	2.38 [60.5]
KBB63	2.50 [63.5]	4.00 [101.6]	3.38 [85.9]	3.75 [95.3]	3.13 [79.5]	8.06 [204.7]	5.75 [146.1]	2.38 [60.5]
KBB65	2.75 [69.9]	5.31 [134.9]	4.56 [115.8]	4.25 [108.0]	3.50 [88.9]	8.25 [209.6]	4.56 [115.8]	2.63 [66.8]

HIGH PRESSURE CENTRIFUGAL BLOWERS PERFORMANCE CHARTS

Airflow vs. static pressure curves are shown for 60 Hz and 50 Hz (broken line) inputs. Static pressure is in inches of water.

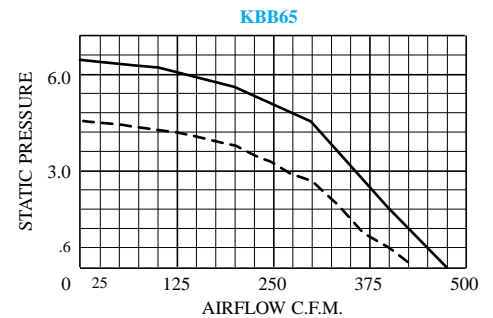
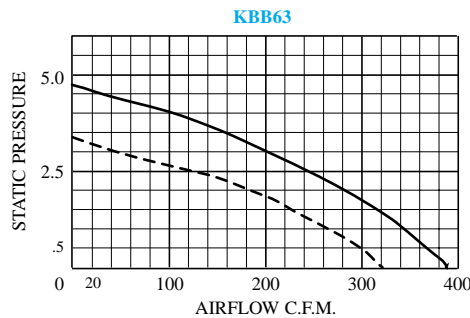
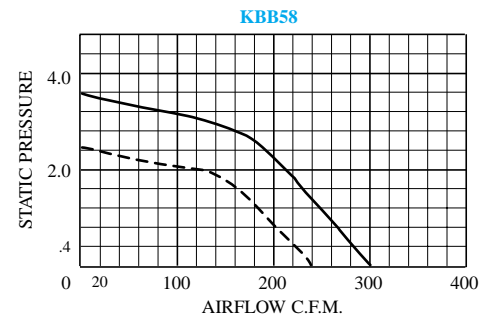
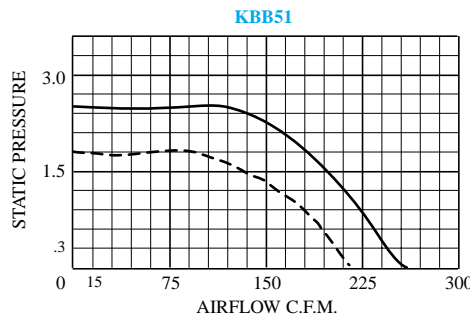
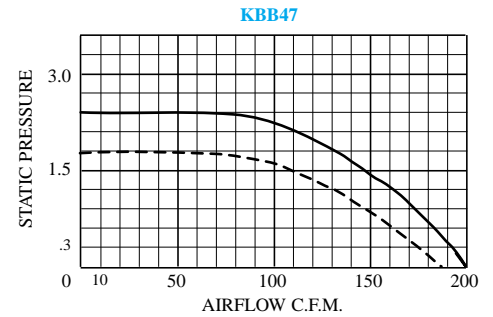
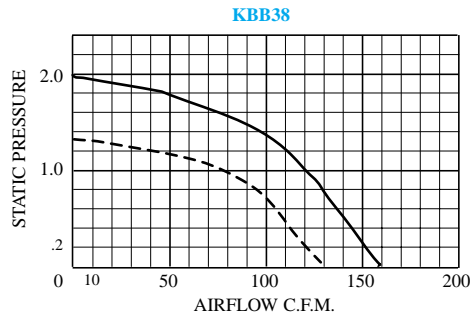
CONVERSION FACTORS

Multiply airflow in cubic feet per minute (CFM) by:

- 1.7 to obtain airflow in cubic meters per hour (m³/hr.)
- 0.47 to obtain airflow in liters per second (L/S)

Multiply static pressure in inches of water ("H₂O) by:

- 25.4 to obtain static pressure in millimeters of water (mm H₂O)
- 249 to obtain static pressure in Pascals (Pa)



DESCRIPTION

High Pressure Centrifugal Blowers fill the performance range between *Single Centrifugal Blowers* and *High Pressure Radial Blowers*. They have been specifically engineered for applications requiring higher airflow against somewhat lower static pressures than *High Pressure Radial Blowers*.

These high pressure blowers are available in a variety of sizes and output capacities, to satisfy many airflow/static pressure requirements. Representative performance: 120 CFM to 430 CFM at 1" [25.4mm] static pressure; 120 CFM to 375 CFM at 2.5" [63.5mm] static pressure.

AIRFLOW SWITCH

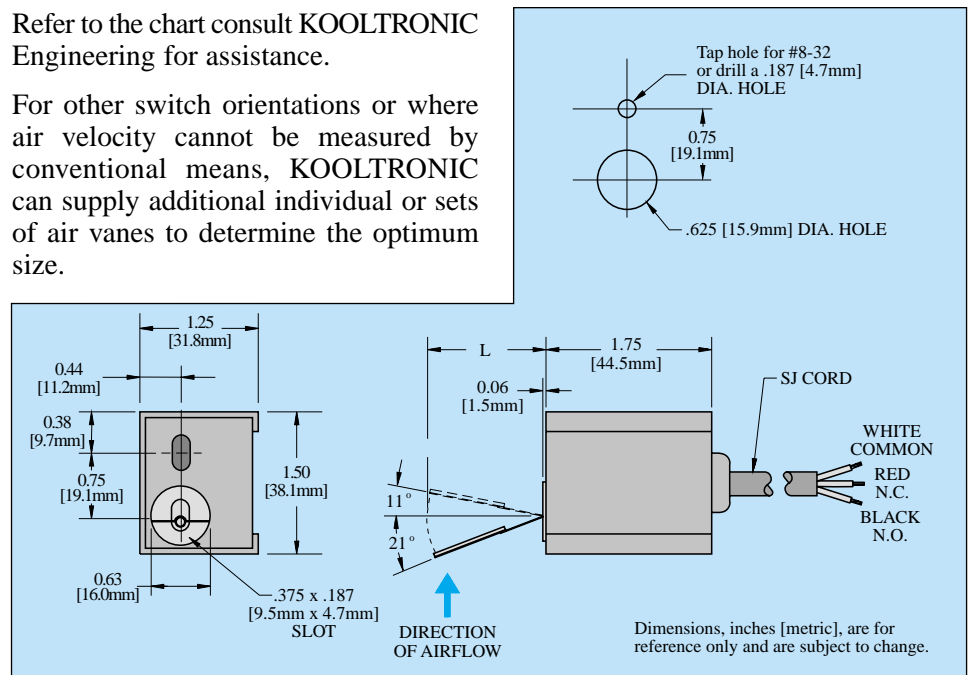
Protects equipment against damage caused by loss of cooling airflow, by activating an alarm or turning off power. The switch can be mounted on any suitable surface which allows the stainless steel air vane to be placed in the critical airstream. This switch is a single-pole double-throw type, with normally open and normally closed contacts.

The UL rating for the rotary snap action switch is 5 amps at 250 volts AC. A 36" [914.4mm], three wire SJT power cord is provided, allowing connection to normally open or normally closed circuits.

The choice of air vanes is determined by location and orientation in the airstream, and the normal operating air velocity at the point of installation.

Refer to the chart consult KOOLTRONIC Engineering for assistance.

For other switch orientations or where air velocity cannot be measured by conventional means, KOOLTRONIC can supply additional individual or sets of air vanes to determine the optimum size.



TECHNICAL DATA

Orientation of Airflow Switch

Model	Dim. "L" Max. Inches [metric]	Vane Length Inches [metric]	Orientation of Airflow Switch							
			Vertical Airstream				Horizontal Airstream			
			Airstream Up		Airstream Down		Arm Horizontal		Arm Vertical Vane Down	
			Increasing Air	Decreasing Air	Increasing Air	Decreasing Air	Increasing Air	Decreasing Air	Increasing Air	Decreasing Air
			Actuate ft/min	Deactuate ft/min	Actuate ft/min	Deactuate ft/min	Actuate ft/min	Deactuate ft/min	Actuate ft/min	Deactuate ft/min
KV-1	3.38 [85.9]	2.88 [73.2]	660	590	-	-	620	530	630	520
KV-2	2.75 [69.9]	2.25 [57.2]	840	750	-	-	790	670	800	660
KV-3	2.44 [62.0]	1.94 [49.3]	980	870	-	-	860	750	860	770
KV-4	2.19 [55.6]	1.69 [42.9]	1010	960	640	610	980	870	980	820
KV-5	1.94 [49.3]	1.44 [36.6]	1180	1130	880	720	1070	930	1050	960
KV-6	1.56 [39.6]	1.06 [26.9]	1520	1370	1210	1050	1370	1260	1410	1290
KV-7	1.44 [36.6]	0.94 [23.9]	1670	1520	1380	1290	1570	1430	1600	1430
KV-8	1.25 [31.8]	0.75 [19.1]	2020	1880	1940	1780	2010	1710	2080	1780
KV-9	1.13 [28.7]	0.63 [16.0]	2360	2180	2350	1930	2340	2060	2510	2150