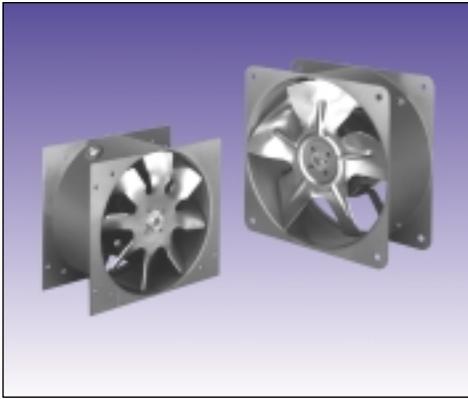


HIGH PERFORMANCE FANS



KJ200 KB654

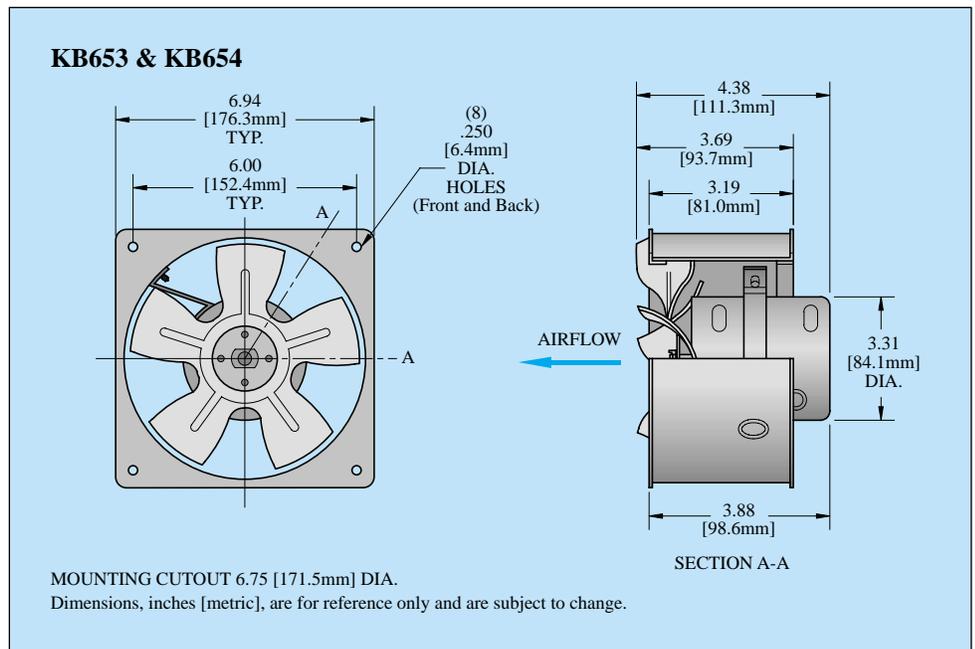
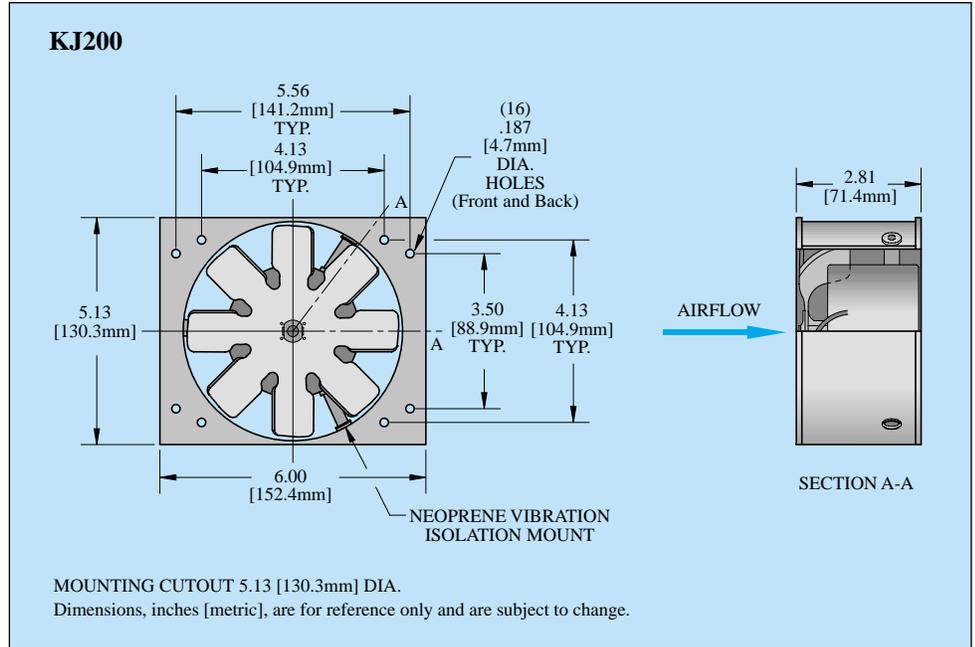
STANDARD FEATURES

- Baked Powder Finish*
- Capacities: 200 to 385 CFM*
- UL/CSA precision ball-bearing motors*
- Quiet operation*
- Rugged construction*
- 12" [304.8mm] (minimum) power and ground leads*

ACCESSORIES AND OPTIONS*

- Filter Recoating Adhesive
- Special external paint finishes
- Special line cord or connectors
- Variable Speed Control

*See accompanying literature for more information.



HOW TO ORDER

FANS: Specify model number. For 230 VAC operation, add a 2 after the K. Example: K2B654.

*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**

TECHNICAL DATA **

Model	CFM@ 0" S.P.	RPM Nominal	Amps		Watts	Approximate Weight	
			Run.	L.R.		Lbs.	[kg]
KJ200	200	3100	0.8	1.1	55	4	1.8
KB653	385	3200	1.8	1.8	120	5	2.3
KB654	380	3300	1.6	1.6	116	5	2.3

**115V, 60 Hz. operation

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

CAUTION: We strongly recommend proper guarding of fans to prevent serious injury.

HIGH PERFORMANCE FANS CHARTS

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

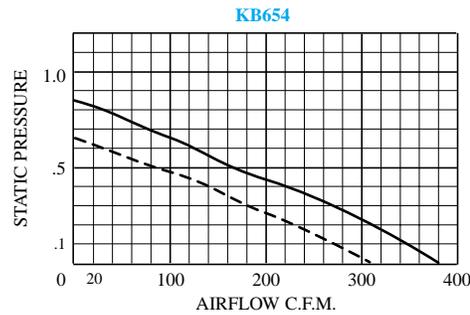
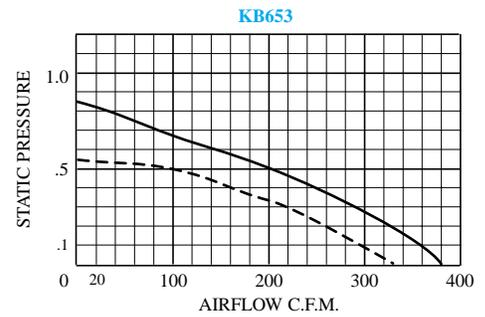
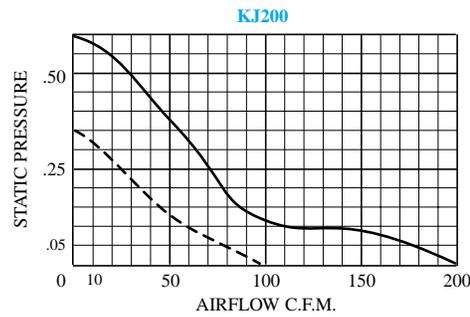
CONVERSION FACTORS

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 Performance Fans are ideal in applications which present the challenges of severe space limitations and/or higher static pressures that prevent the use of conventional fans. Typical uses include computer tape drive servo motors, densely packed printed circuit board arrays and duplicating equipment.

KJ200 KOOL-JET: The **Kool-Jet High Performance Fan** is specifically designed to overcome severe space limitations in electronics and instrumentation cooling.

The excellent pressure characteristics of the **Kool-Jet Fan** result from the adaptation of tube-axial fan principles. Either push or pull airflow is available in one unit. It is the only shock-mounted fan of its type, eliminating transfer of vibration or AC hum into equipment.

The **KJ200** delivers up to double the cooling power of similar-sized units with minimal extra cost. The all-metal design is virtually indestructible in normal use.

KB653 AND KB654: Within its recommended operating range (150-300 CFM), the **KB654** fan provides more air than other fans of comparable size. It is also quieter and less costly. For applications with higher static pressures, specify Model **KB653**. Both models can be mounted to pressurize or exhaust the enclosure. (Pressurizing, with use of a filter, is preferred.)

STANDARD FEATURES

RUGGED CONSTRUCTION: Precision-engineered heavy gauge steel construction of all cabinets and blowers insures fans stand up under tough applications.

BAKED POWDER FINISH: Durable, baked-on gray powder finish is standard. Other finishes are available.

BALL-BEARING MOTORS: All motors, whether permanent split capacitor or shaded pole, are UL/CSA Recognized and include automatic-reset thermal overload protection. Designed for low temperature rise, KOOLTRONIC motors are also cooled by fans' intake air, for maximum motor life. All motors meet Federal Specification CC-M-1807A, and include double-sealed or double-shielded precision ball bearings which meet Federal specification FF-B-171A. Special permanent lubricants perform over a broad temperature range: -20°F [-28.9°C] to 250°F [121.1°C].

POWER: 115 VAC or 230 VAC, 50/60 Hz is standard. For multiphase power, other voltages and frequencies or brushless DC applications, consult KOOLTRONIC.

LEADS: 12" [304.8mm] (minimum) power and ground leads.

ACCESSORIES AND OPTIONS*

FILTER RECOATING ADHESIVE: This compound is a superior product for recoating all permanent filters after washing. The adhesives penetrate dirt layers to keep the filter surface tacky for longer effective performance between washings. Part No. A-16 - one pint container.

SPECIAL EXTERNAL PAINT FINISHES

SPECIAL LINE CORD OR CONNECTORS

VARIABLE SPEED CONTROL: This solid state device operates to maintain the preset temperature range within an electronics enclosure at minimum power consumption and audible noise levels. As the control senses temperature changes outside of the optimum range, it responds by automatically adjusting the motor speed of the blower or fan supplying the cooling air.

In many cases, the selection of cooling equipment for sensitive electronics is based on worst-case conditions. In normal operations, these rarely occur, so that considerably less cooling air is often sufficient.

Under such conditions, the use of a variable speed control reduces power consumption, lowers audible noise levels, prolongs motor life, and reduces filter maintenance, when operating at temperatures below the full-speed level.

The control is preset for full-speed operation at 90F, at 1/3 lower speed at 80F, and modulates the motor speed proportionally at the interim temperatures. The Variable Speed Control is suitable for use with virtually all KOOLTRONIC blowers and fans, as well as air-to-air heat exchangers.

*Contact KOOLTRONIC for information.

ACCESSORIES FOR HIGH PERFORMANCE FANS

The following accessories, available at moderate cost, add versatility to the application of these High Performance Fans.

KJ200 FAN

FILTER: Model 200F: (5.88" x 4.31" x 0.50" [149.4mm x 109.5mm x 12.7mm]). All KOOLTRONIC filters consist of a multi-layer grid of sturdy corrugated aluminum, securely held in a one-piece aluminum frame. Filters are required wherever air is drawn into an electronics enclosure or related cooling equipment to keep internal parts as clean as possible.

A non-drying adhesive coating traps a high percentage of particulate matter. These washable, reusable filters are designed to last the life of the cooling unit. Replacements are available for those which become damaged or otherwise non-serviceable.

FILTER HOLDER: Model 200H: Set of two brackets, each 5.13" [130.3mm] long x 0.50" [12.7mm] wide x less than 0.75" [19.1mm] deep. A pair of 6-32 x 0.38" [9.7mm] studs on 3.50" [88.9mm] centers, on both sides of each bracket, allows mounting to fan and cabinet or other mounting surface in enclosure. If unused, studs can be clipped off. Filter slides in easily.

GUARD: Model 200G: Precision-made protective guard complies with OSHA and UL safety standards. Fully covers either side of fan. Mounting holes on 3.50" [88.9mm] centers align with outer holes on fan. (See KJ200 diagram.) Adds less than 0.25" [6.35mm] to depth of fan.

KB653 & KB654 FANS

FILTER: Model 654F: 8.25" [209.6mm] square x 0.50" [12.7mm] deep. See FILTER description above.

FILTER HOLDER: Model 654HF: 9.25" [235.00mm] square x less than 1.50" [38.1mm] deep. Precision-made heavy-gauge steel construction. Can be mounted either internally or externally on enclosure, using (4) .187" [4.75mm] diameter holes on an 8.75" [222.3mm] square. Suggested use is on the intake (motor) side of the fan, to which the filter holder attaches using (4) .250" [6.35mm] diameter holes on a 6.00" [152.4mm] square. (See KB653 and KB654 diagram.) Adds less than 0.75" [19.1mm] to depth of fan. Filter inserts easily.

GUARD: Model 654G: Made of sturdy corrosion-protected wire, these guards comply with OSHA and UL safety standards. Suggested use is on blade side of fans and on motor side, if being used without a filter. Adds less than 0.75" [19.1mm] to depth of fan.

KOOLTRONIC also designs and manufactures a variety of Fans to meet *unique* specifications. We invite your inquiries about our modification and custom-design capabilities.