KP1010A, KP1010B, KP1010C & KP1010D FILTER BOX FANS
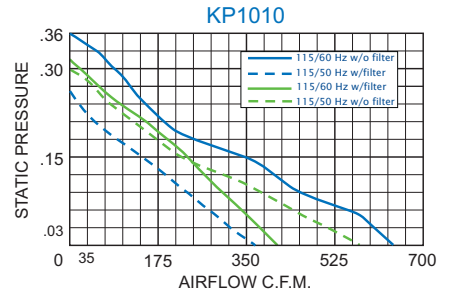
STANDARD FEATURES

Exceptionally quiet
Capacity: 640 CFM
Versatile mounting and adaptability
Rugged construction with baked powder finish
UL/CSA ball bearing motors
Attractive stainless steel grilles
All models can pressurize or exhaust

ACCESSORIES AND OPTIONS

Automatic Speed Control
Filters
Filter Recoating Adhesive
Special external paint finishes
Special line cord or connectors

PERFORMANCE GRAPH

KP1010

- 115/60 Hz w/o filter
- 115/50 Hz w/filter
- 115/60 Hz w/filter
- 115/50 Hz w/o filter

STATIC PRESSURE / AIRFLOW C.F.M.

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

TECHNICAL DATA

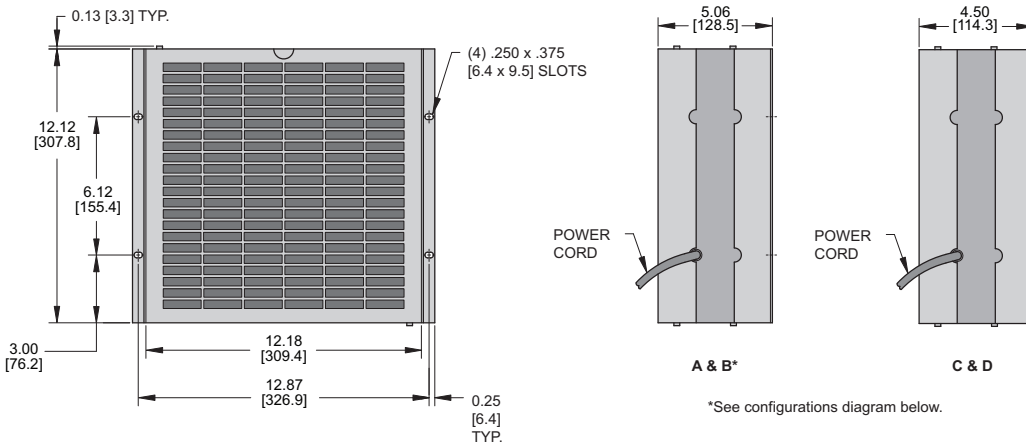| Model*	Normally In Stock	Volts	CFM @ 0" S.P.	RPM Nominal	Amps Run.	Amps L.R.	Watts	Approx. Weight Lbs.	Approx. Weight Kg.
KP1010	Yes	115/60	410	1525	1.5	2.2	111	15	6.8
KP1010		115/50	355	1275	1.3	2.2	93	15	6.8
K2P1010		230/60	410	1525	0.6	1.1	55	15	6.8
K2B1010		230/50	355	1275	0.7	1.1	46	15	6.8

* Append A, B, C or D to model number for configuration (see below).

The above CFM's are for A & B configurations (with filters).

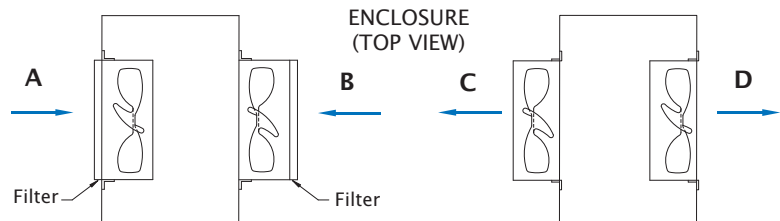For C & D configurations (without filters): 60Hz is 640 CFM and 50 Hz is 565 CFM.

DIMENSIONS inches [metric]

0.13 [3.3] TYP.
(4) .250 x .375 [6.4 x 9.5] SLOTS
12.12 [307.8]
6.12 [155.4]
3.00 [76.2]
12.18 [309.4]
12.87 [326.9]
0.25 [6.4] TYP.

5.06 [128.5]
4.50 [114.3]
POWER CORD
POWER CORD
A & B*
C & D

*See configurations diagram below.

FILTER BOX FANS: CONFIGURATIONS

ENCLOSURE (TOP VIEW)

A   B   C   D

Filter   Filter

Arrows show direction of airflow.
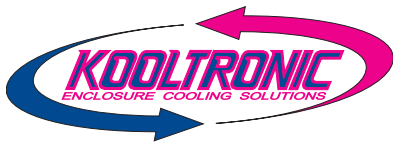A and B - used to pressurize the enclosure.   C and D - used to exhaust the enclosure.

HOW TO ORDER

FANS: Specify model number, adding configuration suffix A, B, C or D. Example: KP1010A For 230 VAC operation, add a 2 after the K. Example: K2P1010A.

ACCESSORIES: Specify model number.

Dimensions, inches [mm], are for reference only and subject to change.

kp1010.qxd (8/26/24) (CDR:20595)

DESCRIPTION

FILTER BOX FANS: High airflow with low noise operation makes these versatile packaged fans very popular in a wide range of applications, especially with their minimal internal cabinet depth requirement.

Reversible designs allow user to push or pull air through the enclosure. In addition, these fans can be installed internally or externally, vertically or horizontally, with or without a filter on either side. These fans operate virtually vibration-free. Front and rear grilles can be adjusted to accommodate or omit filter. Filters are easily removable for cleaning and replacement.

STANDARD FEATURES

RUGGED CONSTRUCTION: Precision-engineered heavy gauge steel construction 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.

POWER CORD: 115V, 60 Hz models include a 3-foot [0.9m] (minimum) three wire power cord with molded plug, internally grounded and securely locked to case by strain relief bushing. 230VAC 50/60 Hz units are supplied without plugs.

ACCESSORIES AND OPTIONS*

AUTOMATIC SPEED CONTROL: The Kooltronic Fan and Blower Automatic Speed Control (Part Number KSC100) is a solid state "smart" controller packaged in a NEMA 1 type enclosure for remote mounting. The allowable input power supply range is 95 to 250 Volts, 47 to 63 Hz. It is furnished standard with an IEC 320 connector, a power supply fuse and a temperature sensor. Additional temperature sensors are optional. Power cord is not provided.

The controller will operate single or multiple fans or blowers of compatible voltage and frequency up to a combined load of 6 Amps. The controller may be operated by either a control voltage signal of 0 to 10 VDC, a control current signal of 0 to 20 mA or one to three temperature sensors. With multiple temperature sensors the controller will respond to the highest sensed temperature.

The control circuit board is furnished with a terminal strip for field connecting the sensor and fan wires. A pressure type strain relief connector is furnished in the enclosure. If required by installation or by code, this connector can be replaced with a 1/2-inch [12.7mm] trade size conduit connector.

A wide variety of control logic options can be field programmed into the controller by means of a board mounted DIP switch. These include fan idle or starting speed at 30%, 40%, 50% or 60% of supply voltage, fan on or off below the idle setting, control temperature setting at 86°F (30°C), 95°F (35°C), 104°F (40°C), 113°F (45°C), and temperature differential settings of 7°F (4°C) and 18°F (10°C). The selectable fan on/off feature is operative when the temperature(s) drop below the control temperature setting.

Consult factory for use with compatible Kooltronic fans or blowers.

FILTER RECOATING ADHESIVE: This compound is a superior product for recoating filters after washing. The adhesives penetrate dirt layers to keep the filter surface tacky for longer effective performance between washings. Part No. A-16 - 10 ounce container.

FILTERS FOR REPLACEMENT: 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. These filters are reuseable, they may be washed and recoated with the approriate filter recoating adhesive. Replacements are available for those which become damaged or otherwise non-serviceable. KP1010 Fan Filter Part No. 10101F.

GRILLE ASSEMBLIES: These assemblies are ideal for venting applications on the enclosure. These attractive grilles are made of mirror-finish stainless steel. All are 19" [482.6mm] wide. They are 65% open, comply with OSHA and UL safety standards, and include knurled captive fasteners for easy attachment and removal.

SPECIAL EXTERNAL PAINT FINISHES

SPECIAL LINE CORD OR CONNECTORS

*Contact KOOLTRONIC for information.

ADDITIONAL SPECIFICATIONS

ENCLOSURES: Precision-engineered baked powder coated heavy-gauge steel construction.

GRILLES: Include a rear guard and an attractive stainless steel grille with knurled captive fasteners for easy removal. Grilles and guard comply with OSHA and UL safety standards.

FILTER: Furnished with each packaged fan. Recommended whenever air is drawn into the electronics cabinet. Filters consist of a multi-layer grid of sturdy corrugated aluminum in a one-piece aluminum frame. Adhesive coated to trap particulate matter, they are easy to remove, wash and treat with KOOLTRONIC A -16, an adhesive rejuvenating spray. Filters must be kept free of accumulations, to prevent reduction or loss of performance and/or damage to equipment.

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