

RECESSED TWIN PACKAGED BLOWERS



STANDARD FEATURES

- Baked Powder Finish
- Capacities: 130 to 800 CFM
- Full air delivery, minimum panel height
- Heavy-gauge steel enclosures
- EIA-notched flanges
- Attractive 19" [482.6mm] stainless steel grilles
- UL/CSA precision ball-bearing motors
- Dual inlet quadruplex blower design
- Inlet air cools motor for longer life
- Permanent filters
- Exhaust guards included
- Three foot [0.9m] (minimum) SJT 3-wire power cord

ACCESSORIES AND OPTIONS*

- Adapters
- Airflow Switch
- EMI/RFI Shielding
- Filter Recoating Adhesive
- Filters for replacement
- Grille Assemblies for replacement
- Other voltages and frequencies
- Special external paint finishes
- Special line cord or connectors

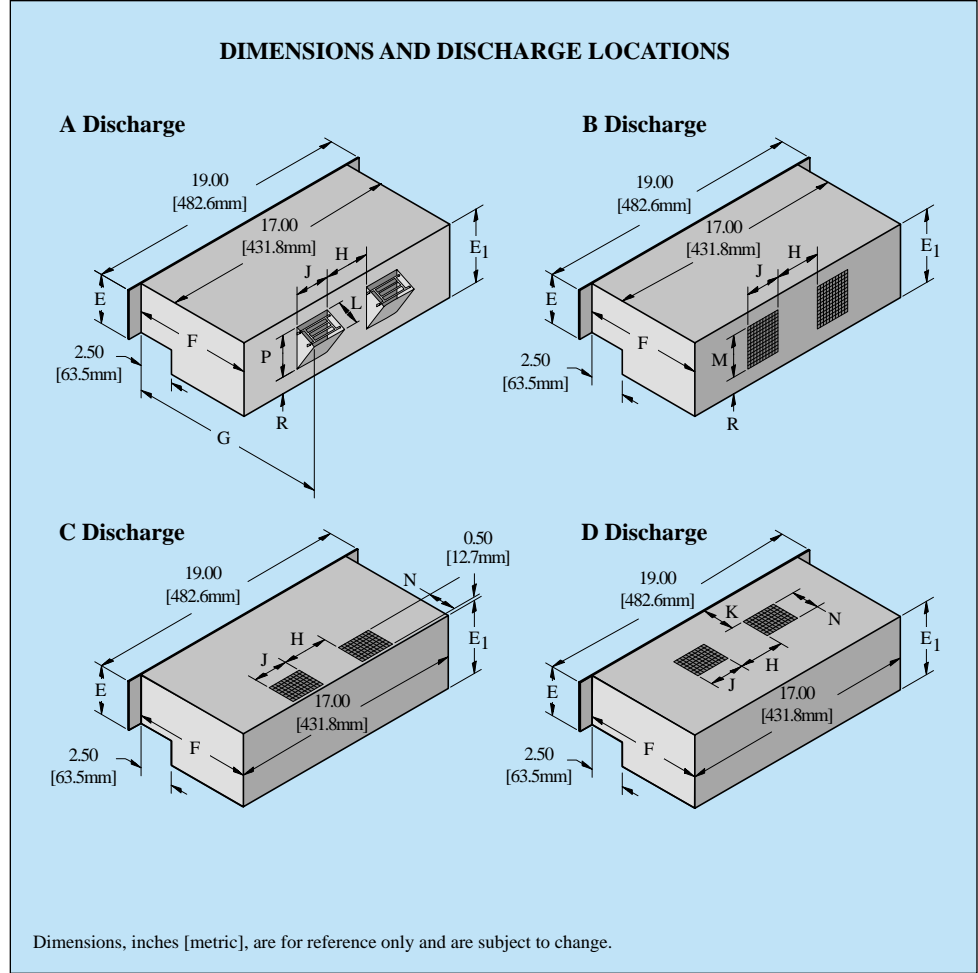
*See opposite side for more information.

TECHNICAL DATA**

Model	CFM@ 0" S.P.	Cutoff S.P.	RPM Nominal
KPL528	130	0.87	3150
KPL529	300	0.87	3000
KPL701	330	0.42	1600
KPL729	470	1.40	3250
KPL877	525	0.82	1500
KPL1051	800	1.00	1500

Model	Amps		Watts	Approximate Weight	
	Run	L.R.		Lbs.	[kg]
KPL528	0.8	1.3	65	14	6.4
KPL529	1.4	1.9	95	15	6.8
KPL701	1.1	1.6	85	19	8.6
KPL729	1.7	3.1	185	21	9.5
KPL877	1.3	1.9	140	30	13.6
KPL1051	2.5	5.1	260	37	16.8

**115V, 60 Hz. operation



DIMENSIONS (inches [metric])

Model	Discharge Available	Max. Panel Height		F	G	H	J
		E	E ₁				
KPL528	A B C D	3.50 [88.9]	5.25 [133.4]	8.50 [215.9]	9.94 [252.5]	3.25 [82.6]	2.50 [63.5]
KPL529	A B C D	3.50 [88.9]	5.25 [133.4]	8.50 [215.9]	9.94 [252.5]	4.50 [114.3]	4.50 [114.3]
KPL701	A B C D	5.25 [133.4]	7.00 [177.8]	10.50 [266.7]	12.31 [312.7]	3.25 [82.6]	4.75 [120.7]
KPL729	A B C D	5.25 [133.4]	7.00 [177.8]	10.50 [266.7]	12.50 [317.5]	4.44 [112.8]	4.88 [124.0]
KPL877	A B C D	7.00 [177.8]	8.75 [222.3]	12.50 [317.5]	14.06 [357.1]	2.13 [54.1]	5.94 [150.9]
KPL1051	A B C D	8.75 [222.3]	10.50 [266.7]	12.75 [323.9]	14.38 [365.3]	4.00 [101.6]	4.56 [115.8]

Model	Discharge Available	K	L	M	N	P	R
KPL529	A B C D	2.38 [60.5]	1.88 [47.8]	3.00 [76.2]	1.94 [49.3]	3.00 [76.2]	1.19 [30.2]
KPL701	A B C D	1.94 [49.3]	3.50 [88.9]	5.50 [139.7]	3.31 [84.1]	5.50 [139.7]	0.88 [22.4]
KPL729	A B C D	1.94 [49.3]	2.50 [63.5]	4.00 [101.6]	2.50 [63.5]	4.00 [101.6]	1.44 [36.6]
KPL877	A B C D	1.75 [44.5]	4.19 [106.4]	6.13 [155.7]	3.63 [92.2]	6.13 [155.7]	1.25 [31.8]
KPL1051	A B C D	1.50 [38.1]	5.38 [136.7]	7.44 [189.0]	4.19 [106.4]	7.44 [189.0]	1.81 [46.0]

HOW TO ORDER

Specify model number, adding discharge suffix A, B, C or D. Example: KPL529B. For 230 VAC operation, add a 2 after the K. Example: K2PL529B.

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

RECESSED TWIN PACKAGED 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.

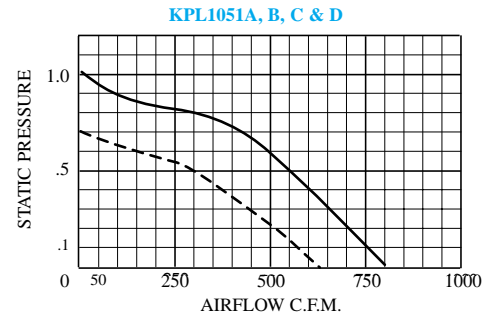
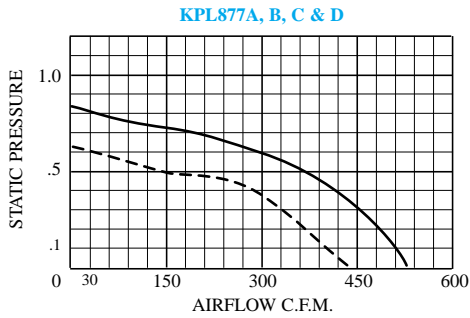
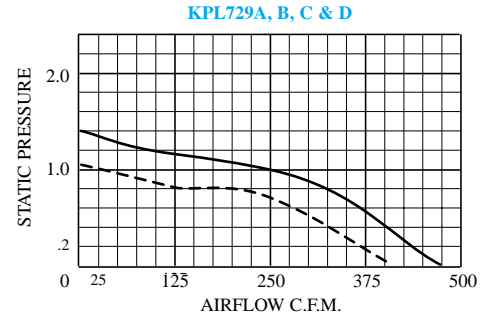
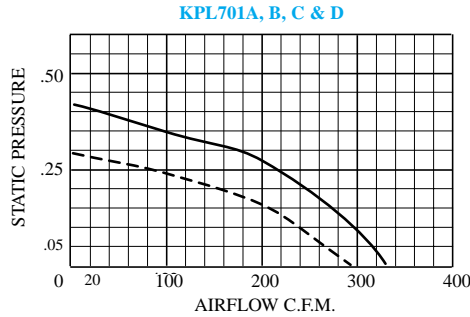
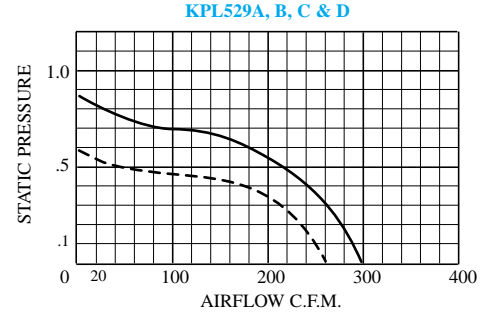
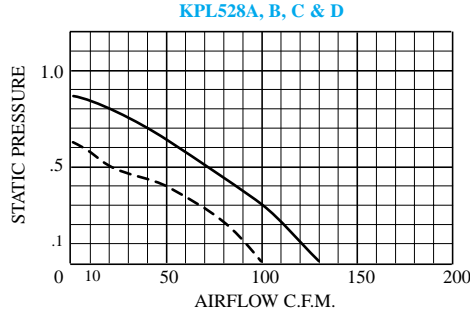
CONVERSION FACTORS

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

Where panel space is a critical element in the design and packaging of an electronics system, KOOLTRONIC *Recessed Twin Packaged Blowers* provide maximum air delivery using a minimum of panel height. Extending into the often wasted space in the base of the cabinet below the panel mounting area, these recessed units save a full 1.75" [44.5mm] of panel height. There is no loss of airflow because the size of the open grille design still provides sufficient area to meet air delivery requirements.

The *Recessed Twin Packaged Blowers* utilize the same powerful quadruplex blowers featured in *Standard Twin Packaged Blowers*. They provide the same excellent performance and service-life characteristics.

STANDARD FEATURES

RUGGED CONSTRUCTION: Precision-engineered heavy-gauge steel construction insures blower will stand up under tough industrial applications. EIA-notched flanges extend 17" [431.8mm] blower cabinet to 19" [482.6mm] panel width.

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

PRECISION 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 the blowers' 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). Consult KOOLTRONIC for motors designed to meet military or extreme environmental specifications.

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

GRILLE: All units include attractive 19" [482.6mm] wide stainless steel grilles with knurled captive fasteners for easy removal. Grille area is 65% open and complies with OSHA and UL safety standards.

PERMANENT FILTERS: Designed to last the life of the unit, the filters included with all packaged blowers 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.

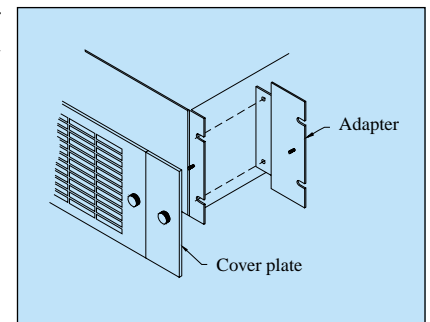
POWER CORD: All 115 VAC, 50/60 Hz units are supplied with a minimum of 36" [914.4mm] type SJT three-wire cord with molded plug included, internally grounded and securely locked to the case by a strain relief bushing. 230 VAC, 50/60 Hz blowers are supplied without a plug. Special lengths and/or plugs are available.

EXHAUST GUARDS: Included on all packaged blowers.

ACCESSORIES AND OPTIONS*

ADAPTERS: (Set of two) These extend the width of any 19" [482.6mm] KOOLTRONIC Packaged Blower to permit mounting in a cabinet designed for 24" [609.6mm] units. The EIA-notched adapters are covered by a plate of mirror-finish stainless steel to match KOOLTRONIC Standard Grilles.

These adapters are non-structural. Therefore, Packaged Blowers must be supported at the rear, due to their weight.



Models

Mirror Finish	Brushed Finish	Height Inches [metric]
KA24-3M	KA24-3	3.50 [88.9]
KA24-5M	KA24-5	5.25 [133.4]
KA24-7M	KA24-7	7.00 [177.8]
KA24-8M	KA24-8	8.75 [222.3]
KA24-10M	KA24-10	10.50 [266.7]

AIRFLOW SWITCH: See accompanying literature for more information.

EMI/RFI SHIELDING: See EMI/RFI-Shielded Twin Packaged Blowers.

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.

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.

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.

KPL528, KPL529 - Part No. 3501F (16.63" x 3.13" x 0.50" [422.3mm x 79.5mm x 12.7mm])

KPL701, KPL729 - Part No. 5251F (16.63" x 5.13" x 0.50" [422.3mm x 130.3mm x 12.7mm])

KPL877 - Part No. 7001F (16.63" x 6.63" x 0.50" [422.3mm x 168.4mm x 12.7mm])

KPL1051 - Part No. 8751F (16.63" x 8.38" x 0.50" [422.3mm x 212.9mm x 12.7mm])

*Contact KOOLTRONIC for information.

AIRFLOW SWITCH

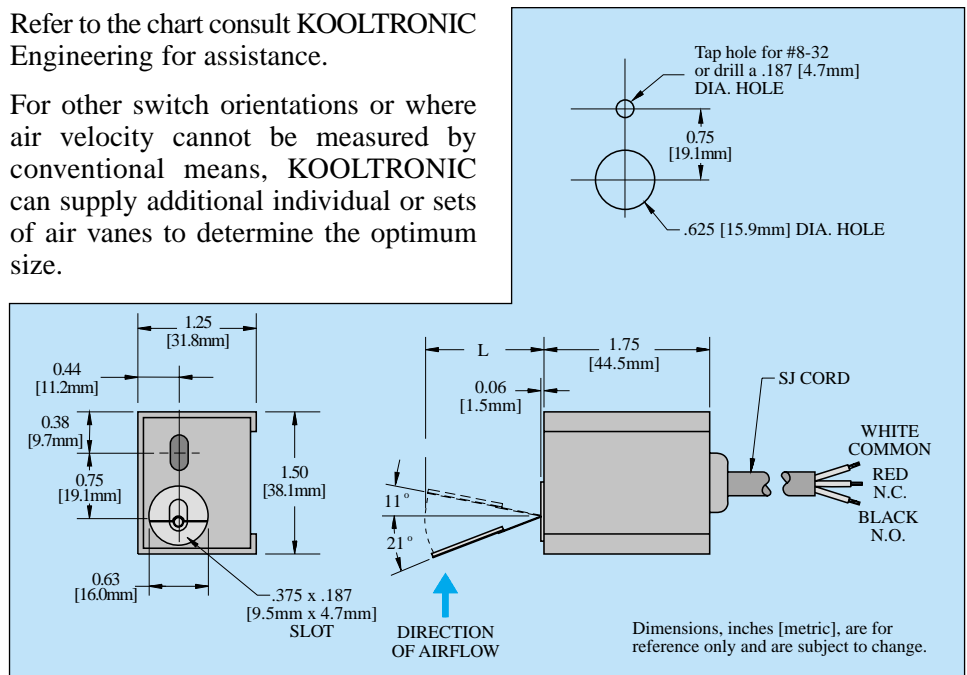
Protects equipment against damage caused by loss of cooling airflow, by activating an alarm or turning off power. The switch can be mounted on any suitable surface which allows the stainless steel air vane to be placed in the critical airstream. This switch is a single-pole double-throw type, with normally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