

KOOLTRONIC FAN QUICK SHEET



**TYPE 12
MAINTAINED**



**NEMA
TYPE 3R
MAINTAINED**



**NEMA
TYPE 4 OR 4X
MAINTAINED**



Advantage Series KBFF Filter Fans - Designed for cooling the interior of cabinets containing electronics, the Advantage Series KBFF Filter Fans are a cost-effective solution for a variety of applications. These Filter Fans can be used where filtered ambient air is acceptable, and where the equipment can tolerate temperatures slightly above ambient. Five sizes are available, featuring quick, snap-in mounting and offering airflows suitable for a variety of applications.

Sentry Series Filter Fans - These fans offer the same convenience, versatility and reliability as the Advantage Series Filter Fans with the added protection of a NEMA 3R rating. With capacities of 69-172 CFM (fan airflow with filter), these models are an excellent choice for telecommunications and other outdoor applications. They are available in a variety of sizes, voltages and protection levels, and are capable of dissipating high heat loads economically.

Guardian/GuardianX Series Filter Fans - This line of filter fans consists of the KNP40FL and the KNP60FL, offering 45 CFM and 192 CFM respectively (fan airflow with filter), and available in 115 or 230 Volt. All Guardian Series Filter Fans have a NEMA 4 Rating. The GuardianX Series Filter Fans, with a NEMA 4X Rating, are offered with a stainless steel shell. These fans are needed for washdown, wastewater treatment or other challenging outdoor or indoor applications.



High Performance Fans - These fans are ideal for applications where space limitations and/or higher static pressures prevent the use of conventional fans. Densely packed printed circuit board arrays and duplicating equipment are examples of environments for which High Performance Fans were designed. Offering capacities of 385 CFM, these versatile fans can either pressurize or exhaust, are ruggedly constructed and operate quietly.

Thin Fans - Designed for cooling electronics, these compact fans are unsurpassed for their economy of space. Delivering from 210 to 840 CFM, the powerful Thin Fans provide cool air in a wide distribution throughout an enclosure. They can be mounted in virtually any position: directly to a panel, door or at the top or bottom of an enclosure. Each fan can either pressurize or exhaust by simply reversing orientation.

Twin & Triple Packaged Fans - In low static pressure applications these fans provide high airflow in a thin package. Offering capacities from 250 to 440 CFM, these versatile fans are designed to operate quietly in both intake and exhaust applications. Mounted vertically or horizontally, these minimum vibration fans require little space, leaving virtually the entire cabinet free for power supplies or other components.



Filter Box Fans - High airflow with low noise operation make these versatile packaged fans very popular in a wide range of operations, especially with their minimal internal cabinet depth requirement. With capacities from 105 to 1310 CFM these fans have reversible airflow, can be installed internally or externally, vertically or horizontally, and with or without a filter on either side.

KoolTray II - The KoolTray II delivers cool air to hot spots by localizing fan placement to the heat generating area(s). With its 1 3/4 inch single-U height it fits under card racks or near heat-producing sources. Standard units are available in 1, 2 or 3 row models. The 19 inch unit width is standard, offering up to 105 CFM per fan, static pressure up to .34 inches W. G. and a low sound level.

Axial Fans offer a wide selection of capacities and styles to meet your cooling needs. They are ideal for clean-environment applications where there is minimal static pressure and equipment can tolerate temperatures higher than ambient. All applicable components are UL/CSA Recognized. Kooltronic also designs and manufactures fans to meet unique specifications.

FEATURES AND BENEFITS OF KOOLTRONIC, INC.



- Kooltronic-designed fans are manufactured in the USA.
- Kooltronic has a 170,000 sq. ft. manufacturing and testing facility.
- 100% testing on all Kooltronic-designed products.
- Kooltronic's Quality System is ISO 9001: 2008 Certified.
- Environmental chamber and laboratory on site.
- Contract laboratory facilities for complete system analysis.
- Founded in 1956, Kooltronic is a privately owned company.
- Painted units have baked powder finish.
- Full line of options for custom applications.
- Automated and custom paint booths.
- Custom design - prototype program.
- Precision ball bearing motors.
- Kooltronic designs products using solid modeling software.

General Specifications for all Fans

Rugged Construction: Precision-engineered heavy-gauge steel construction on all painted units insures fans stand up under tough applications. The Advantage Series Filter Fan's plastic enclosure consists of an ABS/PC alloy (Blend) and is self-extinguishing according to UL94V-0.

Baked Powder Finish: Durable, baked-on powder finish is standard on painted fans. Custom finishes and colors available. Depending upon request and quantity, the Advantage Series Filter Fans plastic parts can be supplied in different colors.

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 fan's intake air for maximum motor life. All motors meet Federal Specifications 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 [-29°C] to 250°F [121°C]. Consult Kooltronic for motors designed to meet unique applications 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.

For more information on our thermal management products please visit:



kooltronic.com



Kooltronic Fan Selection Guide

Fan Series	Low to Moderate Static Pressure	Moderate Static Pressure	NEMA 3R Rated	NEMA 4 Rated	NEMA 4X Rated	Capacity CFM
Advantage KBFF Filter Fans	✓					29.43 - 341.4 [▼]
Sentry Series Filter Fans	✓		✓			51 - 188
Guardian Filter Fans	✓			✓		45 - 92
GuardianX Filter Fans	✓				✓	45 - 92
High Performance fans	✓	✓				200 - 385
Thin Fans						210 - 840
Twin & Triple Packaged Fans	✓					250 - 440
Filter Box Fans		✓				105 - 1310
KoolTray II	✓					105 per fan

[▼] Fan with grille airflow.

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