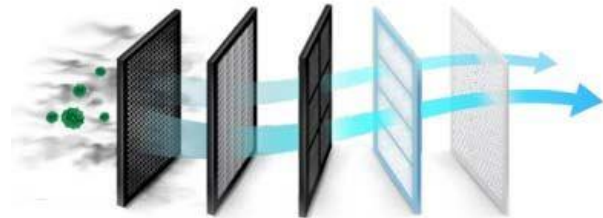


Sager Power Systems Thermal Product Showcase – February 2021

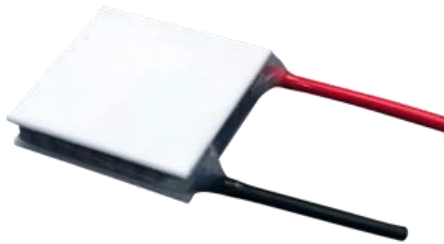
ebmpapst



The Importance of Indoor Air Quality

During this past year, we have all spent a lot of quality time indoors, but what about our indoor air quality? An excellent way to ensure clean indoor air is the use of air purifiers. There are several types of purifiers, each using different technologies to either trap or destroy contaminants. No matter which type of air purifier is used, they must all do one thing: Move air through the device in order for it to be cleaned. **In this [article from ebmpapst](#)**, we'll learn about choosing the right type of air mover to use and what style motor is best for driving it.

New and Featured Thermal Solutions from [Sager Electronics](#)



ETX Series Premium Thermoelectric Cooler

Assembled with advanced thermoelectric materials, Laird Thermal Systems' new HiTemp ETX series is a high-performance thermoelectric cooler which boosts cooling capacity by up to 10%. The ETX series uses an enhanced thermoelectric module construction that prevents performance degradation in high temperature environments. When compared to standard materials creating a maximum temperature differential (ΔT) of 83°C, the series features a higher thermal insulating barrier, and is available in multiple configurations.



RV45 DC Centrifugal Fan

ebm-papst's new RV45 DC Centrifugal fan is remarkably quiet and powerful, offering dynamic air delivery in a compact size for critical respiratory applications as well as a variety of industrial applications. The RV45's aerodynamics and motor are optimized for quick speed changes, while its compact size (64 x 69.5 x 54.5 mm) and innovative design keep it lightweight and virtually silent. The RV45 is an ideal solution for any number of demanding tasks in the medical or industrial market.

Features:



Copper-Water Heat Pipes

Aavid heat pipes are designed for high heat load or gravity sensitive applications where reliability and long life are critical. Ductile copper walls and sintered powder wick enable bending or flattening to meet an application's thermal and geometric requirements that can reduce overall height, increase surface contact, or route heat pipes around keep-out areas.

Features:

- Passive components with no moving parts



New Oil Proof Fan Models

Featuring high airflow and static pressure, Sanyo Denki has developed and released four new oil proof fan models. Able to be used in a worry-free manner, the windings and electronic components of these fans are structurally protected by materials with excellent oil resistance and stable operation is maintained even in harsh oil mist environments. These fans deliver a maximum static pressure of 0.68 inchH₂O and a maximum airflow of 10.9 CFM, an increase of 89% and 19% respectively compared to the current model. Sanyo Denki's

Features:

- Reliable solid-state
- High-temperature operation
- No sound or vibration
- RoHS-compliant
- Environmentally-friendly

[More info...](#)

- Highly dynamic blower
- Weight optimized rotor and impeller
- Compact motor design, low vibration
- Integrated high-quality connector system
- Low noise – inside an CPAP Application less than 25 dB(A)

[More info...](#)

- Withstand freeze-thaw cycles and temperatures ranging from -55°C to 180°C
- Copper enables design flexibility with bending and flattening options
- Water working fluid covers most operating temperatures with high heat transport capacity

[More info...](#)

oil proof fan models are ideal for applications involving machine tools, control panels, inverters, industrial equipment.

Features:

- High airflow
- High static pressure
- Oil-proof

[More info...](#)



Showcase Standouts



Extreme or harsh operating environments put additional wear and stress on electronic equipment. Conditions such as high or low temperatures, moisture, dust, humidity require fans that remain operational despite these extreme environments.



Technical Team Corner

Meet Sager Power Systems Sales Engineer (PSE) Lisa Auffrey. Lisa has been selling power products and thermal solutions for twenty years, and been a PSE at Sager for the past three years.

Sales Territory: North East North - Rhode Island, Maine, New Hampshire, Massachusetts and Vermont

Education: M.A., Management | Harvard University
B.S., Electrical Engineering / Management Engineering
| Worcester Polytechnic Institute

For this first installment of our Thermal Showcase, we look at some top picks for IP68 & IP69K rated fans ideal for these extreme conditions:

- **ebm-papst IP68 DC Centrifugal Fans Series:**
[RER133](#), [RER160](#), [RER175](#), [RER190](#) (133mm, 160mm, 175mm, 190mm)
- **Sanyo Denki IP68 DC Axial Fan Series:**
[9WPA](#) (60mm, 80mm, 92mm)
- **Sunon IP68 DC Axial Fan Series:**
[GF6015](#), [GF8025](#), [GF9225](#) (60mm, 80mm, 92mm)
- **NMB IP69K DC Axial Fan Series:**
[04020VA](#), [06020VA](#), [09225VA](#), [12038VA](#), [17250VA](#) (40mm, 60mm, 92mm, 120mm, 172mm)



The best part of being a Power Sales Engineer is working with the engineers at the OEMs to identify and qualify their power and thermal requirements. The Sager line card offers the leading players for AC/DC and DC/DC converters, having these lines enables me to find a solution to meet my customer's needs. Also, the Sager team is great to work with, I have the opportunity to work with some of the best Field Service Reps, Inside Sales Reps, and Sales and Marketing Management. We as a team give

our customers and suppliers the best support and are highly respected in the industry.

Although I have worked at Sager for just 3 years, I've worked alongside the Sager organization for many years as a direct sales person and Manufacturer's Representative.

Fun fact: I just finished my Master's degree with the support of my Sager family!

Contact a Sager Power Systems representative for more information: (866) 588-1750 or power@sager.com.



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