

## Filtered Fan Systems

**Ice Qube** filtered fan systems have been designed for cooling of electronic equipment housed within an enclosure in ambient conditions which are not extremely harsh, humidity is not a concern and the electronics can operate at temperatures slightly above ambient temperatures.

The **IQ100FP**, **IQ200FP**, **IQ500FP** and **IQ800FP** filtered fan systems come complete with intake and exhaust mounting plates, grilles, *intake filter (polypropylene)*, *exhaust filter (metal mesh)*, mounting hardware, gasket and power cord.

## Installation and Operation

*\*Please read complete instructions thoroughly before beginning installation.\**

**Ice Qube** filtered fan systems are shipped to you partially assembled. You will have to remove the two thumb screws on both the intake and exhaust packages and separate the mounting plate from the grille cover to install the system.

1. Prepare the enclosure by cutting a rectangle and drilling (4) holes for mounting the fan package to the enclosure. (see diagram for rectangle size and hole location) The openings for both the intake (fan) and exhaust are the same. For best performance, it is recommended to install the intake near the bottom of the enclosure and the exhaust near the top of the enclosure on opposite sides.

*\*Ice Qube systems have been designed as a direct replacement for other manufacturer's models\**

2. Apply the provided gasket material to the perimeter of both the intake and exhaust mounting plates (see diagram). Apply to the side which has the pem nuts protruding.
3. Attach the intake and exhaust mounting plates (gasket side toward enclosure) to the enclosure using the provided 10-32 x 3/4 bolts through the mounting holes located at the four corners of the mounting plates. Thread the 10-32 kep nuts onto the bolts from the inside of the enclosure. Use a wrench to secure nuts.
4. Using the provided thumb screws, attach the grille covers to the mounting plates being sure proper filters are in place. (*exhaust - metal mesh, intake - polypropylene*)
5. Attach the power cord to a properly grounded receptacle of proper voltage and current inside of your enclosure. If a receptacle is not available inside of your enclosure, you will have to provide access for electrical power to the fan.
6. After applying electrical power to the fan, it should begin operation immediately and continuously. *Listen for any unusual noise or vibration.*
7. It is recommended to clean the filters regularly (dependant upon ambient conditions) to assure peak performance. Clean filters by removing the filter and soaking it in warm water and a mild detergent solution. *It is recommended to remove power from the fan before removing the filter. Be sure filter is dry before installing.*