

3R Type Filtered Fan Systems

Ice Qube filtered fan systems have been designed for cooling of electronic equipment housed within an enclosure where conditions are not extremely harsh and the electronics can operate at temperatures slightly above ambient temperatures. The filtered fan systems have been tested and approved for *either indoor or outdoor use*.

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

Installation and Operation

Please read complete instructions before beginning installation.

Ice Qube filtered fan systems are shipped to you partially assembled. You will have to remove the four mounting nuts on both the intake and exhaust packages and separate the mounting plate from the hood to install the system.

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

****Note - The filtered fan system is also available as a "push / pull" configuration.***

Look for intake and exhaust labels on the equipment.

2. Make sure gasket material has been applied to the perimeter of both the intake and exhaust hoods on the side which has the mounting studs protruding.
3. From the outside of the enclosure, insert the intake and exhaust hood studs (gasket side toward enclosure) into the enclosure cutouts, filter side down. From the inside of enclosure, install the mounting plate over the four studs, fan facing inside of enclosure, and secure the mounting plate to the hood and enclosure using the provided 1/4-20 nuts. Use a wrench to torque the nuts, slightly compressing the gasket material to maintain a good seal. ****Note - Over tightening the nuts may result in broken studs.***
4. Remove the filter rack screws and install the filters (*exhaust - metal mesh, intake - polypropylene*) into the filter rack located at the bottom of the hood. Re-install the filter rack screws securing the filter rack and filter to the bottom of the hood.
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.*