



Reliable Continuous Energy

FAN INSTALLATION INSTRUCTIONS

Gen4 PVT Cabinets

1 Air Vents, Filters and Fans:

For climates with ambient temperatures over 35°C, it is recommended that the cabinet be equipped with optional fans which include vents and filters.

The Filters should be examined on a regular basis and replaced or washed out if they become full of dust. The Filters are easily accessed from the front as shown in the photo.

The vents and fans are located near the bottom of each door behind a vent with louvers and filters. The fans pull air into the cabinet through the filters which prevent bugs and dust from entering. The warmer air is exhausted through the vents at the top of each door. There are no fans behind the top exhaust vents.



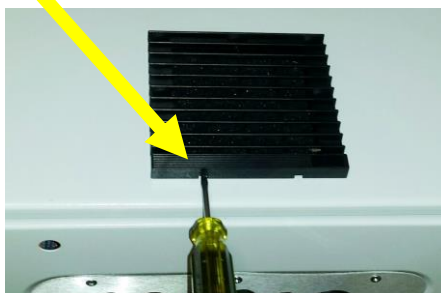
The 48 volt DC fans run from the 48 volt bus with fuse protection. The fans are controlled by a relay from the ASC which turns the fans on only when needed depending on the adjustable temperature thresholds set in the ASC.

The photo at the right shows one fan installed on the inside of the vent near the bottom of the door. Both fans pull cool air into the bottom of the cabinet.



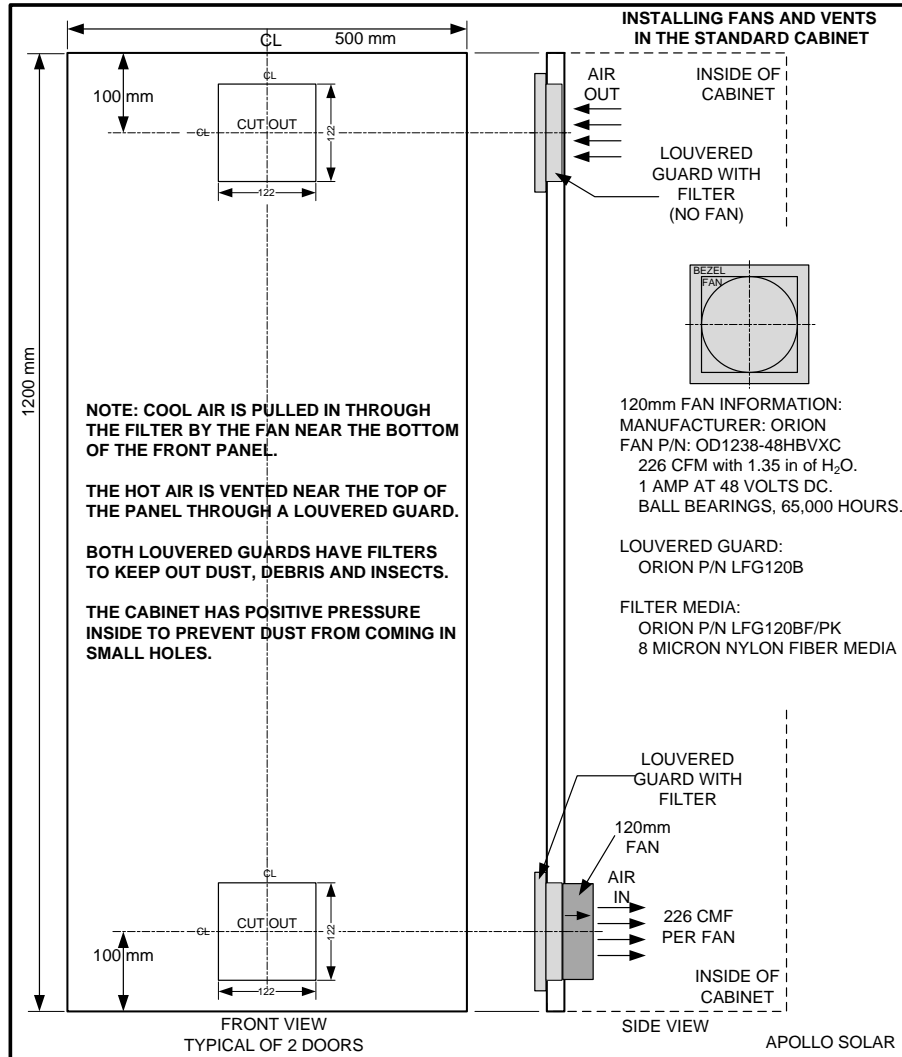
As shown below, the filters may be removed for cleaning or replacement from the front of the cabinet. The louvered grill comes off with the aid of a screwdriver to release the tabs at the bottom.

The filter material is captive behind the louvered grill.



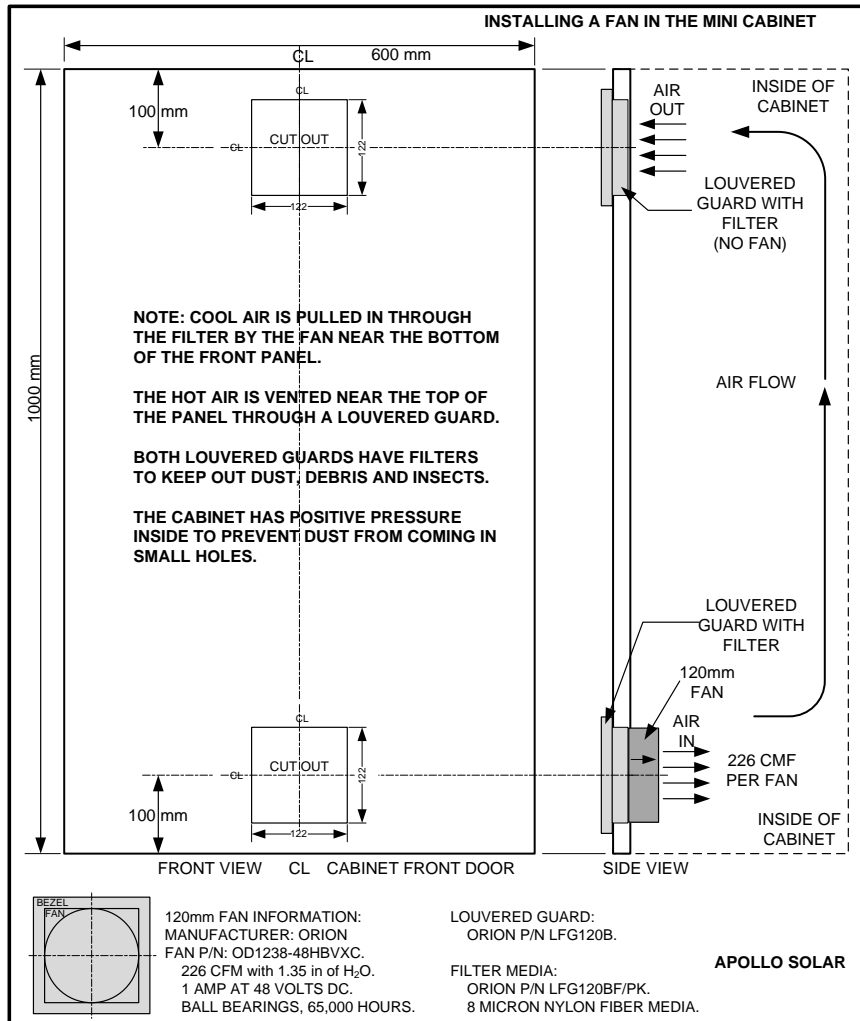
2 Installation of Fans, Vents and Filters in User Supplied Cabinets

If the customer has opted to supply the Cabinets, then Vents, Filters and Fans must be installed locally. The photos above and the drawings below show the location of the fans in the doors of the cabinets as well as the exact dimensions of the hole required for the recommended fans.



The Standard Cabinet (1000 x 1200 x 300mm deep) has 2 doors. A fan is required at the bottom of both doors. As described on the drawing, the outside air is drawn IN at the BOTTOM through a vent with a filter. The hot air is exhausted through the vents at the top of the doors. The slightly higher air pressure inside the cabinet keeps dust from entering any small holes in the cabinet.

The Mini Cabinet (600 x 1000 x 250mm deep) has 1 door. The Vents and Fan are installed in the center of the door at 100mm from the top and bottom as shown in the drawing below.



WIRING THE FANS:

The photo below shows the connectors with the 10 AMP fuse. The RED Wago block labeled Q is for the positive fan wires. The BLUE Wago R block is for the negative fan wires. The Wago blocks have 2 holes each to make it easy to connect 2 fans. The power for the 48 volt DC fans, the control relay and the temperature sensing and thermostat are all on the panel.

