

MAC-21VFD

RPS PART NUMBER FM37VFD

VENTILATION UNIT



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The MAC-21VFD is a modular ventilation unit capable of providing High Efficiency Particulate Air (HEPA) filtration with 99.97% efficiency @ 0.3 microns, at flow rates ranging from 500 CFM at 2 inches of static pressure to 390 CFM at 4 inches of static pressure. The MAC-21VFD is an assembly of three modules: 1) Power Module– a direct drive blower/motor and base assembly; 2) Filter Module- prefilter & HEPA filter housing assembly; 3) Quick-mount handling cart and mounting platform for the power module and filter module.

This unit has been evaluated to the applicable CSA standards, for use in Canada and the United States under products: Class 3812-81-Fans and Blowers, certified to US and Canadian Standards, Class 3812-01-Fans and Blowers.

FEATURES:

- Stainless steel power module with an integrally-mounted motor directly driving a cast aluminum blower. The motor/blower is mounted to a stainless steel base that contains a manual starter with thermal overload protection, a Start/Stop toggle switch, and a power cord receptacle.
- Motor is 3/4 HP, 3450 RPM.
- Blower rated at 500 CFM @ 2" static pressure water gage (sp.wg.) and 390 CFM @ 4" sp.wg.
- Filter module is a portable stainless steel housing that holds the prefilter, HEPA filter, or carbon element. It is a two-piece assembly consisting of a housing cover and housing body. Filter modules may be arranged in single, double, HEPA, carbon, or mixed element filtration trains to suit job needs.
- The filter module accepts a slide-in prefilter through a separate prefilter compartment door in the filter module housing cover. This separate prefilter compartment allows quick and easy prefilter change-out without disturbing the HEPA filter seal and may be performed without shutting down the unit.
- The filter module housing cover is equipped with an "Accessory Track" that accepts a number of different flex duct inlet adapters or special attachments such as the snorkel arm or 55 gallon drum capture velocity hood. The housing cover is equipped with 8" flex duct female docking adapter inlet.
- The quick mount cart functions as the mounting platform and handling device for the Modular Air Cleaning system. Components are constructed from stainless steel tubing resembling a "hand truck" in design.
- 99.97% HEPA filter, 350 CFM @ 1" static pressure water gage. Element nominal 12.5" x 12.5" x 8" with 3/4" flanged lip on inlet face. DOP tested at 100% and 20% of rated flow.
- Prefilter, Polyester with internally heat sealed wire ring, 13.5" x 13.5", MERV 6.
- Minihelic gage: 0-10" water gage.
- Dimensions: 20" L x 19" W x 46" H. Weight: approx. 140 lbs.
- Electrical Rating: 120/230V, 11/5.5A, 1 phase, 60 Hz.

SPARE PARTS:

- [HEPA Filter - AK78](#)
- [Prefilter - AK66](#)

OPTIONS:

- [Spark Arresting Prefilter - AK67](#)

NOTE: Information provided is subject to change. Please contact RPS directly for recent modifications.



MAC-21VFD FAN CURVE

