



For Models

PAC-22 | PR5.0 | PR8.0 | PR10.0 | PR10.0-V | FM-2000 | PR20.0 | FM-14 | FM-22

**OWNER'S MANUAL**  
**FLUSH MOUNT**  
**COMMERCIAL AIR CLEANERS**  
**INSTALLATION & SERVICE MANUAL**

## FLUSH MOUNT SERIES COMPARISON CHART

| Model                                                         | PAC-22                                                                                                                                                                                                                                     | PR8.0                                                                             | PR10.0                                                                             | PR10.0-V                                                                            | FM-2000                                                                             | PR20.0                                                                              | FM-14                                                                               | FM-22                                                                               |
|---------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
|                                                               |                                                                                                                                                           |  |  |  |  |  |  |  |
|                                                               |                                                                                                                                                                                                                                            |                                                                                   |                                                                                    | Carbon V-BANK<br>Version                                                            |                                                                                     | Carbon V-BANK<br>Version                                                            | Solid Ceiling<br>Installation                                                       | Solid Ceiling<br>Installation                                                       |
| <b>Capacity*</b>                                              | 250 Ft <sup>2</sup>   2,000 Ft <sup>3</sup>                                                                                                                                                                                                | 250 Ft <sup>2</sup>   2,000 Ft <sup>3</sup>                                       | 400 Ft <sup>2</sup>   4,000 Ft <sup>3</sup>                                        | 400 Ft <sup>2</sup>   4,000 Ft <sup>3</sup>                                         | 800 Ft <sup>2</sup>   8,000 Ft <sup>3</sup>                                         | 800 Ft <sup>2</sup>   8,000 Ft <sup>3</sup>                                         | 250 Ft <sup>2</sup>   2,000 Ft <sup>3</sup>                                         | 400 Ft <sup>2</sup>   4,000 Ft <sup>3</sup>                                         |
| <b>CFM (Low   High)</b>                                       | 275   375                                                                                                                                                                                                                                  | 275   375                                                                         | 650   850                                                                          | 650   850                                                                           | 1,250   1,650                                                                       | 1,250   1,650                                                                       | 275   375                                                                           | 650   850                                                                           |
| <b>Sound @ 5' (Low   High)</b>                                |                                                                                                                                                                                                                                            | 62 d(B)A   64 d(B)A                                                               | 65 d(B)A   67 d(B)A                                                                | 65 d(B)A   67 d(B)A                                                                 | 67 d(B)A   67 d(B)A                                                                 | 67 d(B)A   67 d(B)A                                                                 | 60 d(B)A   62 d(B)A                                                                 | 65 d(B)A   67 d(B)A                                                                 |
| <b>Dimensions (L x W x H)</b>                                 | 23-3/4" x 23-3/4" x 12"                                                                                                                                                                                                                    | 46-1/2" x 23-3/4" x 12"                                                           | 46-1/2" x 23-3/4" x 12"                                                            | 46-1/2" x 23-3/4" x 12"                                                             | 46-1/2" x 23-3/4" x 17"                                                             | 46-1/2" x 23-3/4" x 17"                                                             | 46-1/2" x 14-1/4" x 12"                                                             | 46-1/2" x 22" x 12"                                                                 |
| <b>Amps</b>                                                   | 2.17 amps                                                                                                                                                                                                                                  | 1.1 amps                                                                          | 4.2 amps                                                                           | 4.2 amps                                                                            | 9.2 amps                                                                            | 9.2 amps                                                                            | 1.1 amps                                                                            | 4.2 amps                                                                            |
| <b>Weight</b>                                                 | 55 lbs.                                                                                                                                                                                                                                    | 75 lbs.                                                                           | 85 lbs.                                                                            | 105 lbs.                                                                            | 135 lbs.                                                                            | 150 lbs.                                                                            | 60 lbs.                                                                             | 85 lbs.                                                                             |
| <b>Clearance Required</b>                                     | 13" above ceiling                                                                                                                                                                                                                          | 13" above ceiling                                                                 | 13" above ceiling                                                                  | 13" above ceiling                                                                   | 18" above ceiling                                                                   | 18" above ceiling                                                                   | 13" above ceiling                                                                   | 13" above ceiling                                                                   |
| <b>Installation Options</b>                                   | 2' x 2' Ceiling Tile                                                                                                                                                                                                                       | Two - 2' x 2' Suspended Ceiling Tiles – or – One - 2' x 4' Suspended Ceiling Tile |                                                                                    |                                                                                     |                                                                                     |                                                                                     | 16" on Center Joists                                                                | 24" on Center Joists                                                                |
| <b>Cabinet</b>                                                | Aluminum – <b>White</b>                                                                                                                                                                                                                    | Aluminum – Available in <b>White or Black</b>                                     |                                                                                    |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |
| <b>Electrical / Wiring</b>                                    | 120V   60 Hz   8-foot - 3 Prong Grounded Plug for Easy 'Plug & Play' set-up. Can also be hard-wired.<br><b>Optional remote control is available for the following models only; PR8.0, PR10.0, PR10.0/V, FM-2000, PR-20.0, FM-14, FM-22</b> |                                                                                   |                                                                                    |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |
| <b>Media (Each unit includes filters for the first year.)</b> | (12) Pre-Filters<br>(6) Carbon Filters<br>(1) 3" HEPA Filter                                                                                                                                                                               | (12) Pre-Filters<br>(6) Carbon Filters<br>(1) 6" HEPA Filter                      | (12) Pre-Filters<br>(6) Carbon Filters<br>(1) 12" HEPA Filter                      | (12) Pre-Filters<br>(1) <b>18# Carbon V-Bank</b><br>(1) 6" HEPA Filter              | (12) Pre-Filters<br>(6) Carbon Filters<br>(1) 12" HEPA Filter                       | (12) Pre-Filters<br>(1) <b>18# Carbon V-Bank</b><br>(1) 6" HEPA Filter              | (12) Pre-Filters<br>(6) Carbon Filters<br>(1) 12" HEPA Filter                       | (12) Pre-Filters<br>(6) Carbon Filters<br>(1) 12" HEPA Filter                       |
| <b>Warranty</b>                                               | 1 Year Manufacturer's Warranty                                                                                                                                                                                                             |                                                                                   |                                                                                    |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |
| <b>Certifications</b>                                         | All electrical components and fan motor are UL Listed and CSA Certified                                                                                                                                                                    |                                                                                   |                                                                                    |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |
| <b>Installation Hardware</b>                                  | Each system includes (2) Eye-Bolts   (2) Eye Lags   Industrial Hanging Wire.                                                                                                                                                               |                                                                                   |                                                                                    |                                                                                     |                                                                                     |                                                                                     | Not included – secure to joists.                                                    |                                                                                     |

**\*NOTE:** (Capacity is configured at a ceiling height of 10-feet.) Capacity is not only dependent on the square footage or cubic footage. It is also dependent on number of people (smokers), type of smoke, ability to open doors/windows, airflow capabilities, temperature & humidity levels. Under-sizing your application will result in filters loading quickly and motor/blower stress. Please discuss your specific application with your Pure n Natural rep.



## PLEASE READ AND SAVE THESE INSTRUCTIONS

### WARNINGS:

1. Always unplug or disconnect the air cleaner from power supply before servicing.
2. To reduce the risk of electric shock or injury to persons, do not expose to water or rain, do not use in a window.
3. Do not use this fan with any solid-state speed control device.
4. **It is highly recommended that a licensed electrician or licensed HVAC contractor install units.**

## INSTALLING YOUR FLUSH MOUNT AIR CLEANER

### EQUIPMENT

The FLUSH MOUNT series of air cleaners are equipped with 2 eye bolts, 2 eye lags and industrial hanging wire. These units can be plugged in or hard wired. Each unit includes enough filters for approximately one (1) year.

### SUSPENDED CEILING INSTALLATION:

*(NOTE: A system being installed into a drop ceiling that has joists, steel girder, or exposed beams above can be hung without eye lags (see step 4). At least one eye lag will be needed if your system is being installed into a ceiling that is solid above. (see step 5))*

**Step 1.** Remove the system from the shipping container. Remove the adjustable louver door from inside the system. After you have removed the adjustable louver door, remove the industrial staples and the HEPA bar and then slip out the HEPA filter. The HEPA filter is a pleated media surface with a particle board frame. Removing the HEPA filter will make the system lighter for installation purposes.

**Step 2.** On either side of the system there are two mounting holes where the eye bolts are inserted. It's easiest to screw the eye bolts into these mounting holes before mounting into the ceiling. If the area above the drop ceiling is tight for space, then you may need to put the eye bolts in the mounting holes after you have the system into the drop ceiling.

**Step 3.** Remove the ceiling tile(s). Depending on your model, the system will fit into either one 2' x 2', two 2' x 2' or one 2' x 4' suspended ceiling tiles.

**Step 4.** A system being installed into a drop ceiling that has joints, steel girders or exposed beams above can be hung without the eye lags (see step 5). At least one eye lag will be needed if your system is being installed into a ceiling that is solid above (see step 6).

**Step 5.** Locate either a joist, girder or beam that is directly above the tile where your system will be installed. After you have located a joist, girder or beam, drape the industrial hanging wire over the apparatus so that either side is evenly dispersed. Line up the eye bolts with the hanging wire so they are vertical. Thread one end of the hanging wire through one of the eye bolts, loop the wire and twist tightly together. Thread the opposite end of the hanging wire through the opposite eye bolt. Pull the wire tight. The system should be only slightly resting on the grid work of the drop ceiling. After you have adjusted the weight of the system on the grid work, then loop the wire and twist tightly together.



**Step 6.** Locate a stud in the solid ceiling that is directly above the tile where the system will be installed. Fasten the eye lag into the stud making sure to line up the eye lag with the eye bolts on the system so the hanging wire will hang vertically. Thread the hanging wire through the eye lag so that either side is evenly dispersed. Thread one end of the hanging wire through one eye bolt, loop the wire and twist tightly together. Thread the opposite end of the hanging wire through the opposite eye bolt. Pull the wire tight. The system should be only slightly resting on the grid work of the drop ceiling. After you have adjusted the weight of the system on the grid work, then loop the wire and twist tightly.

**Step 7.** After the system is installed, put your HEPA filter back into the system. Make sure the HEPA filter is snug. Replace the HEPA bar and the adjustable louver door.

## **SOLID CEILING INSTALLATION – FM-14 & FM-22**

*(NOTE: The FM-14 & FM-22 units do not include installation hardware as they are secured right to the joists.)*

**Step 1.** Remove the system from the shipping container and remove all 3 filters, including HEPA filter and HEPA bar at exit end.

**Step 2.** After deciding location and direction of air flow, locate the studs between which the unit will be positioned.

**Step 3.** Mark out the area where the ceiling will be cut. (FM-22 - Min. 47" x 22-½" | FM-14 – Min. 47" x 15")

**Step 4.** Remove the piece of ceiling that has been cut, and remove all screws, nails, etc. from the cut-out area.

**Step 5.** Locate an electrical source from above the cut-out area and plug in the unit.

**Step 6.** Remove service door and screws that hold the door frame. Also remove adjustable exit louver.

**Step 7.** Raise unit into the ceiling. Leave the unit protruding from the ceiling depending on the thickness of molding that you are using to frame around unit.

**Step 8.** From inside the unit, affix (screw) unit to studs. Position the screws as close to the top of the studs as possible. This will make the removal of the adjustable exit louver easier. We suggest the use of 1-½" to 2" Phillips pan head screws and fender washers for stability. We also suggest that you use 2 screws in each quadrant for support.

**Step 9.** Replace service door frame to unit, install Pre-Filter and Carbon Filters, and clip on the service door. At opposite end of unit, install the HEPA Filter and HEPA bar. Replace the adjustable exit louver.

**Step 10.** Frame unit in with your choice of material. (See #7)



**For units with factory installed remote controls:** Units are equipped with a remote transmitter and receiver (2 included key fobs). The key fobs are programmed to work ONLY with the unit they were programmed to. (For multiple units, each key fob is tagged with a corresponding number also found on the air cleaner.) In order for the remote-control key fob to work properly, please keep the rocker switch on the unit in the **OFF** position. If your key fob(s) get lost or misplaced, you can control the air cleaner by using the rocker switch on the air cleaner.



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# FILTER MAINTENANCE

The intake door is located closest to the HI/OFF/LO switch on the face of the system. Unclip the two latches on the intake door and the door will swing down.

**Pre-Filters - Each system comes with (12) pre-filters which should be replaced, on average, every 3 to 4 weeks.**  
**PRE-FILTERS CANNOT BE WASHED.**

The Pre-Filter removes larger particles such as lint, hair, dust, and pollen. Not only does it remove the larger particles, it also helps prolong the life of the HEPA filter in the system. The Pre-Filter is the first filter behind the intake door. Peel away dirty Pre-Filter and discard. Install the new Pre filter with the white side out. Close door.



**Carbon Filters – The PAC-22, PR5.0, PR8.0, PR10.0, FM-2000, FM-14 & FM-22 systems come with (6) carbon filters which should be replaced, on average, every 2 months.**  
**CARBON FILTERS CANNOT BE WASHED.**

Carbon removes odors by adsorbing the odor molecules into the filter. Since activated carbon can only adsorb a certain amount of molecules, it will begin releasing the trapped molecules, once it is full, back into the air if not properly maintained. Thus, proper maintenance of the carbon filter is required to keep your environment fresh & clean smelling. The carbon filter is located behind the Pre-Filter. Follow the pre-filter changing instructions from Step 1. Remove Carbon Filter, discard and replace with new Carbon Filter.



**Carbon V-Bank Filter – The PR20.0 & PR10.0-V systems comes with (1) 18 lb. carbon V-Bank filter which should be replaced, on average, every 12 months.**  
**V-BANK FILTERS CANNOT BE WASHED.**

The 18-pound Carbon V-Bank Filter is an excellent choice when the need to control tobacco smells is required - including cigar & cigarette smoke odors, and marijuana odors. Activated Carbon removes odors by adsorbing gases & VOC's into the porous carbon granules. It can hold many times its weight in odor molecules. However, once carbon becomes "saturated" it loses its efficiency. Thus, proper maintenance of the carbon filter is required to keep your environment fresh & clean smelling. The carbon V-bank filter is located behind the Pre-Filter. Follow the pre-filter changing instructions from Step 1. Remove carbon v-bank filter, discard and replace with new carbon v-bank filter.



**HEPA Filter - Each system comes with (1) HEPA filter which should be replaced once per year.**  
**HEPA FILTERS CANNOT BE WASHED.**

The HEPA filter removes the very small particles, such as smoke (tobacco, burning wood, oil, rosin), dust mites, spores, mold spores, pollen, spray paint, spray paint dust, ashes, cement dust, auto emissions, textile fibers, fiberglass, hairspray, insecticide dust, copier toner and most viruses just to name a few. The HEPA filter is extremely important for superior air filtration and when used and maintained properly it will dramatically improve your indoor air quality. Remove the adjustable louver door. Remove the HEPA Bar. The HEPA Filter is a pleated media surface with a metal frame. Slip the HEPA Filter out of the system, discard and replace with new HEPA Filter.



Filter maintenance may vary according to each situation.

**ALWAYS USE REPLACEMENT FILTERS & PARTS FROM PURE N NATURAL.**

**TO ORDER REPLACEMENT PARTS CALL 1-800-237-9199 OR VISIT [PURENNATURAL.COM](http://PURENNATURAL.COM)**

| Purchase Date:                         | Serial Number:    | Model #:                               |                   |
|----------------------------------------|-------------------|----------------------------------------|-------------------|
| HEPA (Annual Filter Kit) Purchase Date | ___ / ___ / _____ | HEPA (Annual Filter Kit) Purchase Date | ___ / ___ / _____ |
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