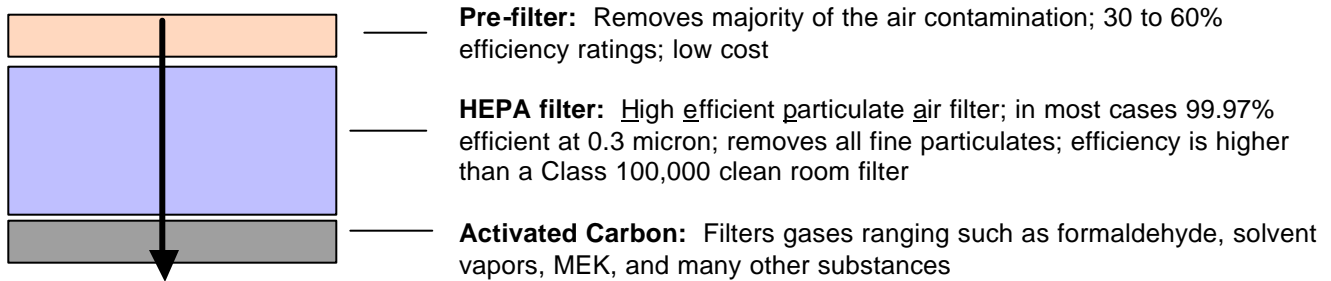


## Application Specific Filtration Methods

The filtration of air includes two methods:

- Particle (dust and fumes) removal
- Gas filtration which is the removal of vapors from solvents, etc., or other gases in “molecular” form

Our filter units apply both methods and contain a multi-stage filtration as shown in the schematic below:



Optional **after-filters** can be supplied with the F8200 series. These filters further reduce the particle count in the exhaust which may be helpful in semi-cleanroom application conditions.

Depending on the application the filters may vary in size and efficiency. Most applications in the electronics industry require heavy particle filtration and while some require predominately a “gas-phase” filtration.

### Guideline for Filtration Method

| Application                          | Air Contamination Levels |                  | Filtration Method |        |                  |
|--------------------------------------|--------------------------|------------------|-------------------|--------|------------------|
|                                      | Particulate              | Gases            | Pre               | HEPA   | Carbon           |
| Hand solder fumes                    | moderate                 | low              | yes               | yes    | moderate         |
| Reflow / Curing                      | moderate                 | low              | yes               | yes    | moderate         |
| Wave solder w/ flux based on alcohol | high                     | moderate         | yes               | yes    | moderate to high |
| Wave solder w/ flux based on water   | high                     | none             | yes               | yes    | not needed       |
| Conformal Coating                    | moderate                 | moderate to high | yes               | varied | high             |