

Selecting "free hanging" ambient air filtration equipment.

Step 1 – Determine the AER – Air Exchange Rate from Table 1 that best fits your application needs.

Step 2 – Determine the total cubic feet of your plant work area
 Total cubic feet = L X W X H (maximum height 20')

Where:

L = length of your workspace (feet)

W = width of your workspace (feet)

H= height of your ceiling in the workspace (feet)

Note – we dimensions only to 20 feet as smoke, dust and fumes will stratify well below this height.

Step 3 - Now divide the total cubic feet by the AER determined in Step 1.

Step 4 - Divide this total by the CFM of the unit you prefer to use.

T-3000 is 3000 CFM

T-3500 is 3500 CFM

T-4500 is 4500 CFM

T-6000 is 6000 CFM

T-7500 is 7500 CFM

Example:

Workspace is 100' long X 60' wide X 18' tall
 Total cubic feet is: 100 X 60 X 18 = 108,000 cubic feet

Welding application

Medium use 5 as the AER (air exchange rate)
 (from Table 1) 108,000/ 5 = 21,600

Assume using a T-3500 (3500 CFM unit)
 21,600/3500 = 6.17 or 6 units to handle the application.

Application (Table 1)	Air Exchange Rate (Minutes)
Welding	4-6
Grinding	6
Plasma Cutting - Collection over a wet table	6-8
Oil Mist	6-8
Diesel Smoke	8
Foundry	6-8
Plastic Smoke	8-10
Wood Working	8-10
General Ambient Air	10

Step 5 – Determine the best location or placement for units.

Our qualified staff is always on hand to help you with determining CFM requirement, placement and then final selection of the units that will provide you the best "cost of ownership" in regards to electrical consumption and filter service costs.

NOTE:Source capture may be required to meet OSHA, PEL or TWA requirements.
 General guidelines only, consult factory for specific details.

TYPICAL T-STYLE FACTORY LAYOUT

