

Exhaust System Survey Form

Survey Date

Location Information

Organization

Location (Building)

Room Description

Contact Name

ID

System Information

Sequence Number

Serial Number

Make

FNAL Number

Model

Hood Type

Exhaust Type

Atmospheric Hazards

Operation Description

Used

Per

Measurement & Survey Information

Surveyor

ID

Instrument Used

Sticker Information

Maximum Sash Height Sticker completed and attached Yes NoMaximum Duct-to-Work Distance Sticker completed and attached Yes NoNotice - Surveyed on Sticker completed and attached Yes NoSubstandard AirFlow Sticker completed and attached Yes No

Required Information

| | Abrasive Blast Booth | Abrasive Blast Cabinet | Downdraft Table | Canopy Hood | Lab Hood | Paint Booth | Power Tool Exhaust | Slot Exhaust | Vehicle Exhaust | Welding Duct Exhaust |
|--------------------------------|----------------------|------------------------|-----------------|-------------|----------|-------------|--------------------|--------------|-----------------|----------------------|
| Maximum Dimension (X) | X | | | | | X | X | | X | |
| Maximum Dimension (Y) | X | | | | | X | X | | X | |
| Maximum Duct-to-work Distance | | | | | | | | | X | |
| Dimension (X) of Adjusted Hood | | | | | | X | X | | | |
| Dimension (Y) of Adjusted Hood | | | | | | X | X | | | |
| Minimum Velocity | X | | | | X | X | X | X | X | X |
| Minimum Average Velocity | | | | X | | X | X | | | |
| Minimum Flow | | | | | | | | | X | X |
| Minimum Average Flow | X | | | | | | | | | |
| Minimum Static Pressure | | | X* | | | | | | | |
| Horizontal Hood Overhang | | | | | X | | | | | |

X* - (For non-enclosed systems measure Duct Diameter in feet)

X* - (For non-enclosed systems measure Duct Diameter in feet.)

| | | | |
|---|----------------------|--|----------------------|
| Maximum Dimension (X) of Hood Opening (ft) | <input type="text"/> | Horizontal Hood Overhang (ft) | <input type="text"/> |
| Maximum Duct-To-Work Distance (ft) | <input type="text"/> | Maximum Dimension(Y) of Hood Opening (ft) | <input type="text"/> |
| Dimension (X) of Adjusted Hood Opening (ft) | <input type="text"/> | Dimension (Y) of Adjusted Hood Opening (ft) | <input type="text"/> |
| Minimum Velocity Through Opening (fpm) | <input type="text"/> | Minimum Average Velocity Through Opening (fpm) | <input type="text"/> |
| Minimum Flow Rate (cfm) | <input type="text"/> | Minimum Average Flowrate (cfm) | <input type="text"/> |
| Actual Static Pressure (H2O) | <input type="text"/> | [For non-enclosed systems: Duct Diameter (ft)] | <input type="text"/> |

Comments/Notes

Sketch Information

Attach a picture of the hood opening below, and indicate measured air velocities.

| | |
|-----------------------|---|
| AB Booth: | Minimum average flow across work= 80 cfm/ft ² Minimum velocity at inlets= 250 fpm |
| AB Cabinet: | Minimum static pressure during blasting= 0.043" H ₂ O (This static pressure insures a minimum inward leakage of 500 fpm) |
| Downdraft Table: | Minimum average velocity at work piece= 100 fpm |
| Canopy Hood: | Minimum velocity at hood edge during operation = 100 fpm Horizontal hood overhang= 0.4*D, where D is the vertical distance between the work surface and through bottom of the hood |
| Lab Hood: | Minimum average velocity in plane of sash = 80-100 fpm |
| Paint Booth: | Minimum average velocity in plane of opening = 125 fpm for face area greater than 4ft ² Minimum velocity in plane of opening = 100 fpm for face area less than or equal to 4ft ² |
| Power Tool Exhaust: | Minimum velocity at point of operation = 500-2000 fpm <u>Note:</u> The lower end of this range applies to low toxicity contaminants in infrequent operations. The upper end applies to high toxicity contaminants in infrequent operations. |
| Slot Exhaust: | Minimum flowrate = 50-10 cfm/ft ² of work surface Minimum flowrate at work = 50-100 fpm Maximum slot to work distance = 2 feet For fumes and fine dusts: Q=350 cfm/ft of hood width Maximum slot to work distance = 2 feet |
| Vehicle Exhaust: | Minimum flow per vehicle = 400 cfm |
| Welding Duct Exhaust: | Minimum velocity at work = 100 fpm |