

HVLS LAYOUT QUESTIONNAIRE



The HVLS fan is only as good as the location in which it is installed. It can be very easy to assume that the fan will move the air no matter where it is installed, however this is not always the case. The fan layout in a building needs to be analyzed and configured so that there is consistent air movement throughout the desired areas, and so that there are no “dead zones” where the air remains stagnant.

Canarm provides a free fan layout service for our customers. Simply provide a floor plan to your sales representative and they will work with the engineering team to determine the perfect fan layout for your application.

The airflow produced by the HVLS fan is unique in that most of the air movement is along the floor. The fan pushes the air downwards in a column (air column size determined by the diameter of the fan). The air is then forced outwards covering a larger floor area. When determining placement of fans, you must consider possible obstructions that may interfere with this lateral airflow.

When placing the HVLS fan, consider both the vertical area directly below it (fan diameter plus 2-4 feet), and the horizontal area up to 140 feet in diameter around the fan. Any obstructions may cause turbulent or diminished airflow and ultimately reduce the effectiveness of the fan.

When determining optimal placement of your fan, keep in mind your cooling goals. If the primary objective is cooling your employees then there is no point of placing a fan over racks of products.

Please consider the following questions and provide as much information to assist us in determining the best layout for your HVLS fans. For all instances, a full CAD layout with all of the specifications listed below will be the easiest way for Canarm to make a suitable plan for your installation (sample layout shown below).

Building Size:

Length: _____ Width: _____ Height: _____

A detailed sketch or CAD drawing of layout is especially important for non-rectangular buildings.

Machine/Employee Locations:

How many machines? _____

Please add locations to sketch including a legend for the types of machines.

How many employees work in the areas where you want to install fans? Please add the locations and numbers of employees in each area to the sketch.

Racking, Shelving, Storage, and Garage Doors:

Please provide all locations of racking and storage areas that might restrict airflow and that do not require cooling.

Since the height of the racks might interfere with the suspension distance of the HVLS, it is imperative that you provide accurate height estimations.

The HVLS fans can be used as air curtains if needed. Multiple HVLS fans can be located in front of doors to create a wall.

Ventilation:

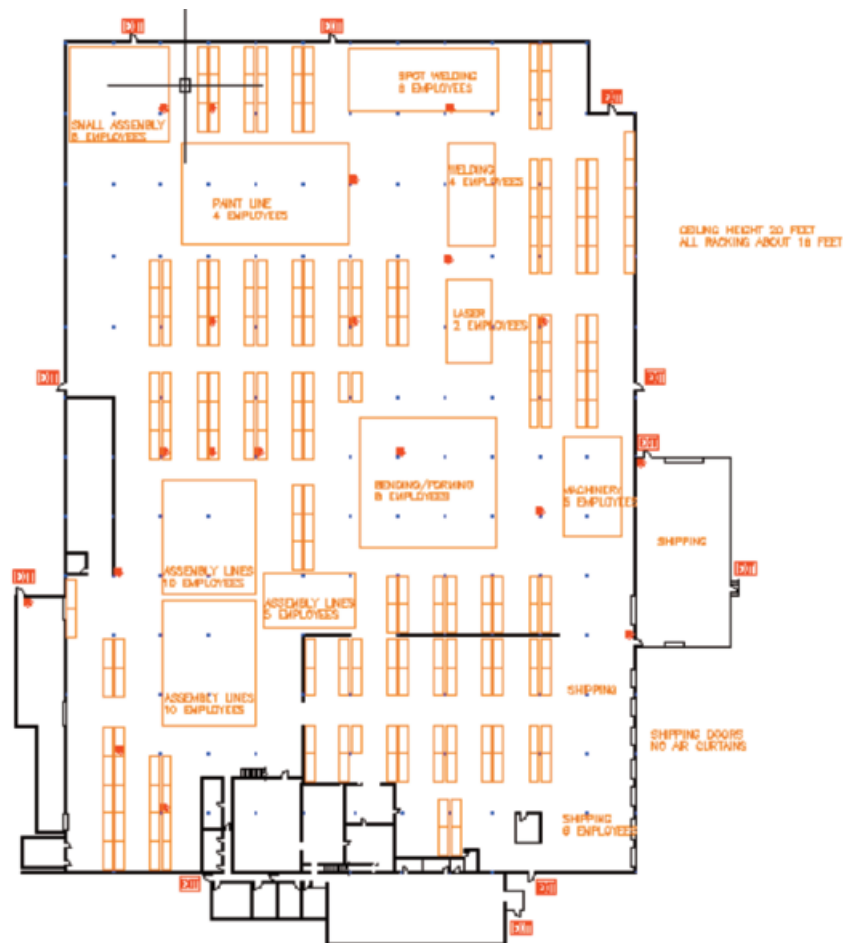
Please indicate on your sketch all ventilation units (currently or planned) including heaters, A/C, circulation, exhaust, etc. This will assist in planning the air movement of the HVLS fans.

CAD Drawing:

As mentioned before, the easiest way for Canarm to provide the best layout is for you to send a 2D drawing of the building to your sales representative. This will ensure the suggested location of the HVLS fans is accurate. Please be as detailed as possible in depicting all structures and work areas.

Layout Example:

Example of a usable layout, drawn to scale in a .dwg.



We are happy to help answer any questions prior to designing the layout. Please contact your sales representative for assistance.

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