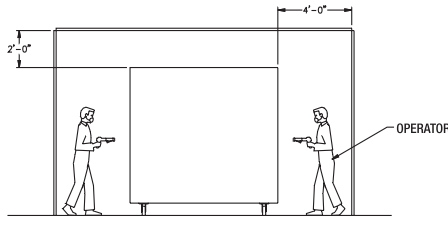


Design Considerations

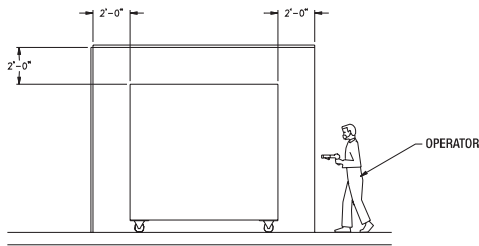
Batch Booth

Nordson Econo-Coat batch booths are designed for the operator to roll a part or a rack of parts into the booth for coating. General guidelines for selecting the work area are to maintain a minimum two-foot clearance between the top of the part and booth roof.

- (a) If the operator enters the booth and sprays the part, a clearance of four feet should be maintained between the side of the part that is being sprayed and the booth wall.



- (b) If the operator sprays the part from outside the booth, a clearance of two feet must be maintained between the part and the booth walls.

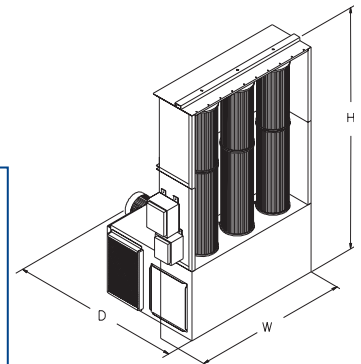


There should be adequate clearance (at least three feet) between the powder collection modules and surrounding objects such as walls, etc., to ensure unobstructed air flow out of the final filters.

For ease of reference, a list of standard booth sizes is provided in ascending order by inside work area height (see specifications).

Calculations

- $(\text{Part/rack height} + 1 \text{ ft.}) \times (\text{part/rack width} + 1 \text{ ft.}) \times (2) = (\) \text{ sq. ft.}$
- $\text{Conveyor slot width} \times \text{length} = (\) \text{ sq. ft.}$
- $\text{Keyhole height} \times \text{width} \times (2) = (\) \text{ sq. ft.}$
- $\text{Operator opening height} \times \text{width} \times \text{number of openings} = (\) \text{ sq. ft.}$
- $\text{Total square feet of opening} \times 100 \text{ FPM} = \text{total CFM required.}$

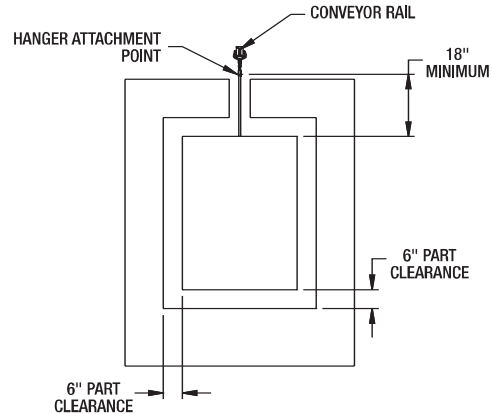


Conveyor Booth

Econo-Coat conveyor booths are designed for the operator to coat one or both sides of a part and/or rack of parts with a manual spray gun as they pass through the booth. (Automatic powder coating systems must meet stringent safety requirements and require fire detection and suppression systems.)

Manual openings allow adequate access to apply powder to passing parts/racks.

Part-rack entry and exit openings provide a 6-inch clearance around the part/rack envelope. Booths are sized to deliver 100 feet per minute of airflow velocity through all booth openings to ensure complete oversprayed powder containment.



Calculation to properly determine a booth's air flow requirements with its total open area is exhibited below.

Two standard conveyor booths are available. Customized booths can be engineered.

* This module sold only with canopy. Other modules available separately.



Model EC-2001*



Model EC-34M1



Model EC-53M1



Model EC-60M1