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THINGS THAT EVERY CONSULTANT SHOULD KNOW BEFORE DRAFTING THE SPECIFICATION

9 things every consultant should know about Air Curtains:

- 1. Speed is not the only way to measure Air Curtains:**
The output of the air curtain device is measured in terms of velocity of air. The input power is varied and efforts are made to optimise the performance of the air curtain device.
- 2. Static Pressure plays a significant role in selection of the Air Curtain:** Your selection depends upon the frictional force that occurs when you try to push an object alongside a surface. Static Pressure is a pressure of fluid on a body when the latter is at rest relative to it.

3. **Air Curtain does not work in all the Wind Conditions:** Like if the air pressure outside is more than that of the pressure inside, then the air curtain won't work properly.
4. **In Hot Conditions, Air Curtain should be generally Installed Outside:** Air curtains are designed for indoor installations (environment: normal, basic) above or next to the door. Typical installation sites are production and industrial buildings, stores, transport terminals, car services, garages, markets, drying houses etc.
5. **Air Curtains will not work in a negative pressurized building:** Air doors work best when the pressure differential between the inside and outside of the building is as close to neutral as possible. Negative pressure, extreme temperature differences, elevators in close proximity, or extreme humidity can reduce the effectiveness of air doors.
6. Impeller **Diameter** and **RPM** play a major role in deciding the flow pattern.
7. **Air Curtains can be used to prevent Cold Air from escaping as in Blast Chillers to Hot Air in Ovens:** Air doors are often used where doors are required to stay open for operational purposes, such as loading docks and vehicle entrances. They help keep outside air, thus reducing infiltration through the opening. Cold draft can be avoided by mixing in warm air heated by the air door. Heated air doors are commonly used when supplemented heat is needed for a space and to reduce the wind chill factor, inside the opening in colder climate.

Things That Every Consultant should know...

8. **Centrifugal Vs Cross Flow:** Centrifugal Technology works best in non heated Air Curtains Cross flow. Technology is generally used in Heated Air Curtain.
9. **Value of Opening a Door:** Whenever a Door Opens for a Minute you lose Rs. 7 of Conditioned Air. Generally Air Curtains can be coupled with Limit Switch so that whenever a Door Opens Air Curtain Operates.