FAN SELECTION

Before carrying out fan selection, some basic information should be determined.

1- Air flow rate which should be moved in a certain period of time and expressed in such units as m^3/h or m^3/min, etc.;

2- Static or total pressure expressed in such units as mmSS, Pa or mbar, which is required to be provided by the fan during operation;

3- Density of the air or gas to pass through the fan.

Apart from these three properties, it is further desired that the following issues which we describe in a sequence:

4- Acceptable noise level in the environment where the fan will operate;

5- The source of energy by which the power as required by the fan will be provided should be known. For this purpose, the following issues should be known in case use is made of electric energy:

a- Is the electric energy provided direct current or alternative current?

b- If an alternative electric current is involved, is such current mono-phase or tri-phase?

c- What is the voltage of the electric current?

d- Is there any condition involved, which will cause any requirement for ex-proof design in the operating conditions of the motor?

6- Number of the fans required for feeding the installation?

7- Is there any condition involved, which will pose danger for the fan and require a special construction? It should be clarified whether or not there is any process requiring the use of such a special construction and material as high air temperature, flammable or combustible gas, damp and solution-containing weather conditions, etc.

8- Direction of air exhaust from the fans and the position of the motor shaft; the motor shaft may have a horizontal, vertical or inclined position.

9- Whether or not there are such components as valves, filters, etc. at the inlet or outlet of the fan.

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