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Calculation of the Fan Per Area in Cooling Towers – an Important Aspect [By Netra Infra Tech](#)

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Air Speed (Feet Per Minute) X Area (Square Feet) = CFM

Not every person is going to have a glimpse at the CFM, but for all those who actually do it is a useful tool. In much simpler words than those of the formula, it is the quantity of air produce by a fan's movement.

The quantity of air depends on a number of other factors as well, like for instance the diameter as well as the shape of the blades, the speed at which all the blades turn, i.e. the revolutions per minute or RPM, the horsepower (HP) of the motor, plus the overall fan design. All these combined features set up the air moving ability of any fan. The fan capacity is calculated in terms of cubic feet, and again, this is how the CFM (cubic feet per minute) is actually determined.

The CFM and the RPM are the two vital things to search for in any fan, so that one is guaranteed accurately with effective operation of the fan. If any person is only acquainted with the RPM, whereas not the CFM, or vice versa, the person must feel sure in their fan purchase. Only if the person knows one of the cooling tower design calculations, the person is guaranteed of any well-working fan. Although, if anyone is not pleased with all these calculations, this is not just the criteria one can make use of for evaluating the fan performance.

One of the most important qualifications, second to the RPM and the CFM calculation is the noise level or the decibel rating, subsequent to the next qualification of the vibration. It always advised to search for fan whose noise levels rated in the sones or the decibels.

A standard calculation of the airflow points out how many cubic feet of the air passes by the stationary point in just one minute. The greater the number, the more air is being enforced all the way through the system. The volumetric flow rate of the liquid or the gas in the cubic feet per minute equals the CFM, or one CFM equals about 2 liters per second.

These fan manufacturers base all their calculations on the standard measurement with the clean and dry air at the density of around 0.075 pounds mass per cubic foot, with barometric pressure at the sea level of 29.92 inches of the mercury, and the temperature of 70°F. All these standard measurements are utilized to find out SCFM, i.e. Standard Cubic Feet Per Minute of the fan used in a Forced Draft Cooling Tower or any other kind of cooling towers.

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