

ELECTRICAL AUTOMATION SYSTEMS TOWARDS INTELLIGENT AND ENERGY EFFICIENCY APPLICATIONS

Musse Mohamud Ahmed



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APPLICATIONS

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FEG AND FMEG PRACTICAL CONSIDERATIONS – FAN SELECTIONS GUIDE

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34.1 EFG and FMEG

As have been noticed in previous chapters, the FEG is not the fan efficiency. It is about classification that represents the energy efficiency potential of a fan. It is the responsibility of the system designers to properly select fans to best suit the needs of the application. Therefore, for future regulations, the system designer may place a lower limit on acceptable FEG as part of an overall strategy to reduce fan energy consumption. The fan selection must be within 10 points of the peak total efficiency.

For fan selections through FEG Curves, the following criteria must be followed:

- a) Minimum FEG specifications
 - Would limit available fan ranges
- b) Select within 10 points of peak total efficiency
 - Assures selections close to peak total efficiency

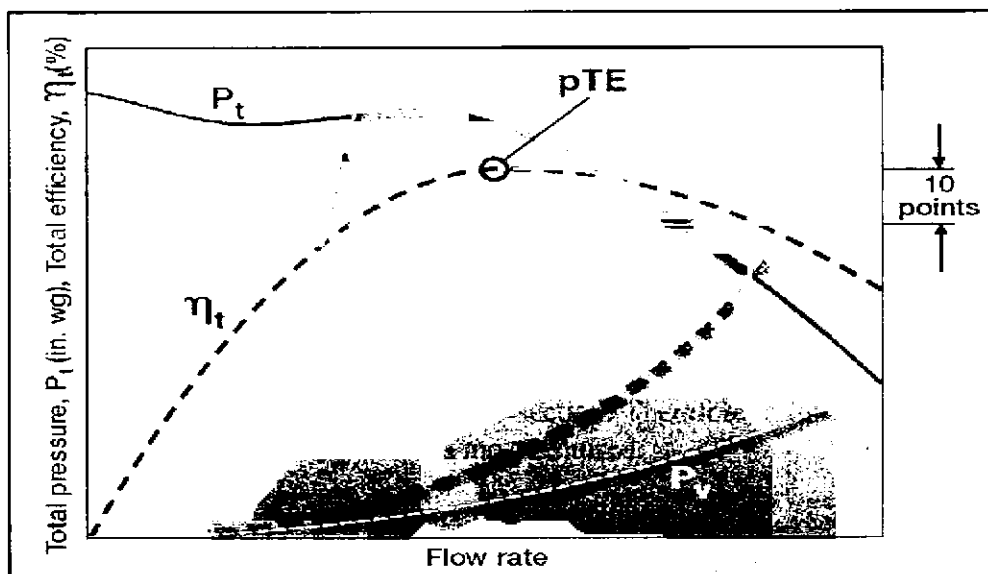


Figure 34.1: This Diagram Depicts a Typical Fan Curve and the Proposed 10-point Total Efficiency Band