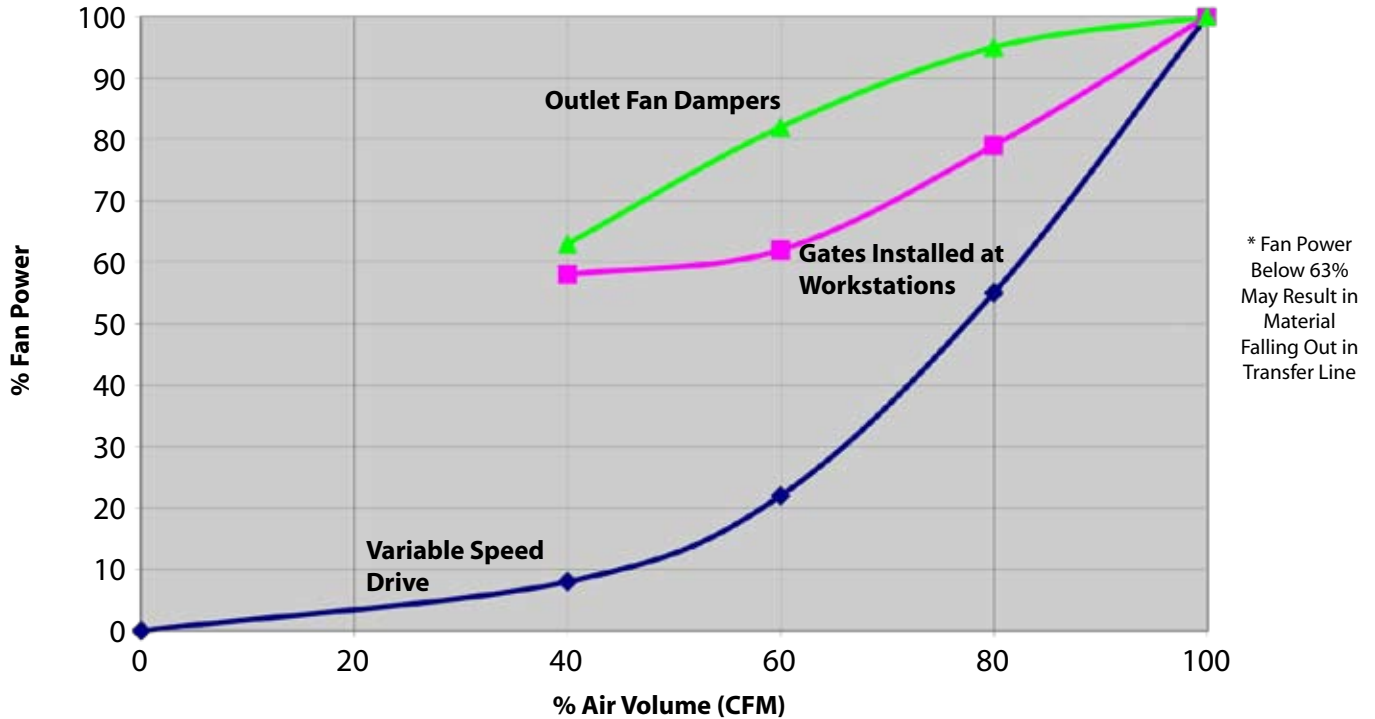


Expectations and Results

Dantherm Energy Management System



Dantherm Automation Cost Savings Data - From Actual System Measurements

System Configuration	Electrical Energy Savings
Constant operation of fan (Typical system without Energy Management)	0%
System with automatic dampers controlled by machine operation. VFDs are not installed on fans	20-40%
System with automatic dampers controlled by machine operation. Fan speed modulated by VFD connected to pressure sensor in pipe system	25-40%
System with automatic dampers controlled by PLC controller. PLC program optimizes system performance by modulating fan speed with VFD and opening and closing automatic dampers. Machine operation sensors are tied in to PLC controller to provide a completely integrated system.	25-60%