

FAN OPTIMIZATION CHECKLIST

This checklist will help you to determine if your fan system has energy savings opportunities for further study. The higher your score, the better the savings opportunity.

FAN DESCRIPTION AND/OR LOCATION: _____

1) Motor HP = _____ ÷ 100 = _____ points

For questions 2–5, if the statement is true, insert the indicated number of points.

2) This fan operates more than 6000 hours per year (1 point) _____ points

Note that fans that use a Variable Frequency Drive (VFD), are already very efficient and there is no need for further study.

3) CONTROL	POINTS	4) MAINTENANCE & PRODUCTION	POINTS	5) SYSTEM EFFECT	POINTS
The motor overloads unless the damper restricts the airflow (2 points)		The system is unstable or hard to control (2 points)		There is a 90° turn in the ductwork right beside the fan inlet or outlet (2 points)	
There is a spill or bypass in the ductwork (2 points)		The system is unreliable and breaks down frequently (2 points)		There is a 90° turn in the ductwork near the fan inlet or outlet (1 point)	
There is a damper on the discharge side of the fan (2 points)		There is not enough flow or pressure for production (1 point)		There is a dirt leg at the bottom of the inlet duct (2 points)	
There is a damper on the inlet side of the fan (1 point)		The system is excessively noisy (1 point)		There is no outlet duct (1 point)	
There is a variable inlet vane (1 point)		There is buildup on the fan blades (1 point)		The inlet duct is sharp or restricted (1 point)	
There is a system damper (not near the inlet or outlet) (1 point)		The ductwork cracks and needs to be welded frequently (1 point)			
The damper controlling this fan is mostly closed (1 point)		This fan is radial-type and is handling clean air (1 point)			
TOTAL		TOTAL		TOTAL	

GRAND TOTAL

Last step: If there are no points in sections 3 to 5, enter 0 as the Grand Total. Otherwise, total the points from sections 1 through 5 and enter that number in Grand Total. If your score is more than 4, your Fan System is a good candidate for an in-depth study.



To find out how you can receive funding for an in-depth study of your fan system, contact your Key Account Manager, or give our Customer Care people a call.
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