



Engine Fans

A. Kahane



Engine Fans

Noise generated by quiet engine fans Francis J. Montegani, John W. Schaefer, Ralph F. Schmiedlin, 1976 **A Comparison of Auto Engine Cooling Fans** Dennis J. DeGroot, 1972 **1896 Illustrated General Catalogue of the Buffalo Horizontal and Upright Steam Engines, Mechanical Draft Fans and Apparatus, Steel Plate Steam and Pulley Fans, Fan System of Heating, Ventilating Fans, Blowers and Exhausters ...** Buffalo Forge Company, 1896

High-Performance Automotive Cooling Systems John F. Kershaw, 2019-06-15 When considering how well modern cars perform in many areas it is easy to forget some of the issues motorists had on a regular basis 40 years ago Cars needed maintenance regularly plugs and points had to be replaced on a frequent basis the expected engine life was 100 000 miles rather than double and triple the expectation that you see today and an everyday hassle especially in warm climates was being the victim of an overheating car It was not uncommon on a hot day to see cars stuck in traffic spewing coolant onto the ground with the hoods up in a desperate attempt to cool off Fast forward to today and it is easy to forget that modern cars even have coolant The temp needle moves to where it is supposed to be and never moves again until you shut the car off For drivers of vintage cars this level of reliability is also attainable In **High Performance Automotive Cooling Systems** author Dr John Kershaw explains the basics of a cooling system operation provides an examination of coolant and radiator options explains how to manage coolant speed through your engine and why it is important examines how to manage airflow through your radiator takes a thorough look at cooling fans and finally uses all this information in the testing and installation of all these components Muscle cars and hot rod engines today are pushed to the limit with stroker kits and power adders straining the capabilities of your cooling system to extremes never seen before Whether you are a fan of modern performance cars or a fan of more modern performance in vintage cars this book will help you build a robust cooling system to match today's horsepower demands and help you keep your cool **Noise Generated by Quiet Engine Fans**, 1974 *Noise Generated by Quiet Engine Fans. 3* F. J. Montegani, J. W. Schaefer, R. F. Schmiedlin, 1976 *Noise Generated by Quiet Engine Fans* Francis J. Montegani, 1972 **Noise Generated by Quiet Engine Fans** Francis J. Montegani, 1974 *Noise Generated by Quiet Engine Fans: Fan A*, 1972 *Study of Variable Cycle Engines Equipped with Supersonic Fans*, 1975 Noise Generated by Quiet Engine Fans. 2, 1974 A significant effort within the NASA Quiet Engine Program has been devoted to acoustical evaluation at the Lewis Research Center noise test facility of a family of full scale fans This report documents the noise results obtained with fan A a 1.5 pressure ratio 1160 ft/sec tip speed fan The fan is described and some aerodynamic operating data are given Far field noise around the fan was measured for a variety of configurations pertaining to acoustical treatment and over a range of operating conditions Complete results of 1/3 octave band analysis of the data are presented in tabular form Included also are power spectra and sideline perceived noise levels Some representative 1/3 octave band data

are presented graphically and sample graphs of continuous narrow band spectra are also provided Heavy-Duty Nonmetallic Engine Cooling Fans--Material, Manufacturing, and Test Considerations Cooling Systems Standards Committee,2012 The following topics are included in this report Section 2 References Section 3 DefinitionsSection 4 Material SelectionSection 5 Production ConsiderationsSection 6 Initial Structural IntegritySection 7 In Vehicle TestingSection 8 Laboratory Testing The Material Selection section lists environmental factors and material properties which should be considered when determining appropriate fan materials for a given application The Production Considerations section covers various aspects of machine selection mold design and process control The Initial Structural Integrity section lists factors which should be considered in addition to those covered by Section 3 of SAE J1390 The In Vehicle Testing section lists factors which should be considered in addition to those covered by Section 4 of SAE J1390 The Laboratory Testing section addresses some test considerations and methods for nonmetallic fans which differ from those used with metallic fans or which were not included in Section 5 of SAE J1390 This document is cancelled because its technical content has been merged with that of SAE J1390 Engine Cooling Fan Structural Analysis Test Method for Measuring Performance of Engine Cooling Fans Cooling Systems Standards Committee,2019 This SAE Recommended Practice is intended for use in testing and evaluating the approximate performance of engine driven cooling fans This performance would include flow pressure and power This flow and pressure information is used to estimate the engine cooling performance This power consumption is used to estimate net engine power per SAE J1349 The procedure also provides a general description of equipment necessary to measure the approximate fan performance The test conditions in the procedure generally will not match those of the installation for which cooling and fuel consumption information is desired The performance of a given fan depends on the geometric details of the installation including the shroud and its clearance These details should be duplicated in the test setup if accurate performance measurement is expected The performance at a given air density and speed also depends on the volumetric flow rate or the pressure rise across the fan since these two parameters are mutually dependent These parameters depend on the pressure drop across the radiator core and the ram pressure due to vehicle motion For these reasons the test procedure should be recognized as providing only an approximate measure of installed fan performance Although the test procedure is based on running the fan with a motoring dynamometer the actual installation can be used as a test fixture if an accurate torque meter is available In this case the same qualifications discussed apply For the effect of a fan clutch in reducing fan use and power consumption which is not a part of this procedure refer to SAE J1342 Performance testing of electric cooling fan assemblies is covered in SAE J2867 This document has been updated to improve readability and clarity and Figure 1 moved to its appropriate section **Charts of Pressure Rise Obtainable with Airfoil-type Axial-flow Cooling Fans** A. Kahane,1947 Charts are presented to show the pressure rise that is obtainable in an engine cooling installation with a typical airfoil type propeller speed fan The charts cover fans of the stator rotor rotor

stator and rotor alone configurations with blades incorporating both the highly cambered 65 series blower blade sections and the conventional low cambered airfoil sections The effects of operation of a geared fan with rotational speeds limited by compressibility considerations and the effects of initial rotational inflow are indicated Use of the charts to predict the pressure rise obtainable with any fan of the types considered is illustrated in a sample calculation

Ducted Fan Design, Volume 1 F. Marc de Piolenc, George E. Wright, Jr., 2001-06-01 Presents a simplified method of designing ducted fans for light aircraft propulsion Includes a survey of ducted fan powered aircraft ranging from amateur built airplanes to military models and prototypes Detailed discussion of engines and list of suitable powerplants drawn from automobiles ATVs and personal watercraft Extensive technical bibliography and list of sources

Engine Cooling Fan Structural Analysis Cooling Systems Standards Committee, 2012 Three levels of fan structural analysis are included in this practice 1 Initial Structural Integrity 2 In vehicle Testing 3 Durability Test Methods The Initial Structural Integrity section describes analytical and test methods used to predict potential resonance and therefore possible fatigue accumulation The In vehicle or machine section enumerates the general procedure used to conduct a fan strain gage test Various considerations that may affect the outcome of strain gage data have been described for the user of this procedure to adapt or discard depending on the particular application The Durability Test Methods section describes the detailed test procedures that may be used depending on type of fan equipment availability and end objective Each of the previous levels builds upon information derived from the previous level Engineering judgment is required as to the applicability of each level to a different vehicle environment or a new fan design This SAE Recommended Practice is applicable to medium and heavy duty trucks buses construction equipment industrial and agricultural equipment It does not necessarily include passenger cars and light trucks The usage of nonmetallic construction necessitates areas of evaluation not required by metallic designs Chief among these are temperature extremes moisture content impact resistance chemical attack material purity homogeneity and aging weathering Areas of evaluation affecting both metallic and nonmetallic fans but requiring somewhat different approaches with nonmetallic parts include natural frequency determination and durability testing The technical content of J1474 Heavy Duty Nonmetallic Engine Cooling Fans Material Manufacturing and Test Considerations has been incorporated so both metallic and nonmetallic fans are covered by this document Various spelling grammar and punctuation mistakes have been corrected

Ducted Fan Design: Volume 1 - Propulsion Physics and Design of Fans and Long-Chord Ducts Marc de Piolenc, George E. Wright Jr., 2018-09-26 Presents a simplified method of designing ducted fans for light aircraft propulsion Includes a survey of ducted fan powered aircraft ranging from amateur built airplanes to military models and prototypes Detailed discussion of engines and list of suitable powerplants drawn from automobiles ATVs and personal watercraft Extensive technical bibliography and list of sources

Laboratory Testing of Light Duty Vehicle Electric Cooling Fan Assemblies for Airflow Performance Cooling Systems Standards Committee, 2014 This SAE Recommended

Practice is intended for use in testing and evaluating the performance of Light Duty automotive electric engine cooling fans. These Electric Cooling Fan (ECF) Assemblies are purchased by Light Duty Truck and Passenger Car OEMs from suppliers. They are purchased as complete assemblies consisting of the fan's motor and shroud (see Figure 1). This Recommended Practice will only consider such complete assemblies. Some purchased assemblies using brush-type motors may also include control devices such as power resistors or pulse width modulation (PWM) electronics for speed control. In the case of brushless motor technology, the controller is an integral part of the motor where it also performs the commutation process electronically. The performance measurement would include fan output in terms of airflow and pressure and fan input electric power in terms of voltage and current. This information could then be used to calculate the efficiency of the assembly, including aerodynamic efficiency of the fan and shroud and electrical efficiency of the motor. The electric power consumption could be used to estimate vehicle energy as it relates to electrical charging system sizing and fuel economy. The test conditions in the procedure generally will not always match those of the installation for which cooling electric energy consumption and fuel consumption information is desired. The performance of a given fan depends on the installation details of the application, including the effects of system resistance and geometry of the grille, heat exchangers, and underhood geometry of the engine and other underhood components. These details should be duplicated in the test setup to the greatest extent possible if accurate performance measurement is expected. Vehicle level airflow performance will also be affected by the bumper profile and any other shape that would influence how the airflow enters the grille. Includes Fan, Motor, Shroud, Stators, Electrical Connector, and Pressure Relief Flaps for High Vehicle Speed Applications. This Recommended Practice is intended to describe a Standard method for measuring the performance characteristics of electric cooling fans (ECF), also known as electric motor fans or electric motor driven fans. Today there is a wide range of conditions under which OEMs request and/or ECF Suppliers measure and report performance. This current condition results in unnecessary variation in the data and its interpretation, making it difficult to use the data for vehicle performance prediction and even to accurately compare the performance of fans from different suppliers or even from the same supplier. The major ECF suppliers support the concept of having an Industry Standard for Performance Measurement.

Improved Airplane Performance with Engine Cooling Fans Wright Aeronautical Corporation, 1944
An Observation on Tone Cut-off in Static Test Data from Jet Engine Fans Marcus F. Heidmann, 1975

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Engine Fans Introduction

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