

Engine Horsepower & Exhaust Flow Guide

Engine Data

The data shown in this section is a collection of information gathered by Donaldson from various sources and should be used for estimating.

For exact information, consult your engine manufacturer.

Allis Chalmers
 Case
 Caterpillar
 Continental Motors
 Cummins
 Detroit Diesel
 Deutz
 Ford
 Hatz Diesel
 Hino
 Isuzu
 Iveco
 John Deere
 Kohler
 Kubota
 Lister
 Lombardini
 Mack
 Mercedes-Benz
 Mitsubishi
 MTU of North America
 Navistar
 Nissan
 Perkins
 Renault
 Same
 Teledyne
 Volkswagen
 Volvo
 Waukesha
 White Eng
 Yanmar

Engine Exhaust Flow Rate Calculation

Exhaust flow rate may be calculated using the following formula. Exhaust temperature and intake airflow rate must be determined to calculate the exhaust flow rate. Exhaust temperature and manufacturers maximum backpressure may be approximated using the chart below.

$$\left(\frac{\text{Exhaust Temp. (°F)} + 460}{540} \right) \times \text{Intake Airflow (CFM)} = \text{Exhaust Flow}$$

Engine Type	Engine Temperature	Maximum Backpressure
Diesel 2-Cycle Naturally Aspirated	= 900°F	4" Hg
Diesel 2-Cycle Turbo	= 750°F	3" Hg
Diesel 4-Cycle Naturally Aspirated	= 1000°F	3" Hg
Diesel 4-Cycle Turbo	= 900°F	3" Hg
Gasoline (all types)	= 1200°F	4" Hg

Note: If you are specifying a dual muffler system divide engine's exhaust flow (CFM) by two.

Engine Airflow Calculations

CFM intake rate is available from the engine manufacturer. If CFM specifications are not available, use the volumetric efficiency calculation. A simple calculation for cfm is to multiple the horsepower of your engine by 2.5.

4-Cycle Engine Airflow Calculation

$$\left(\frac{\text{Engine Size (CID)} \times \text{RPM}}{3456} \right) \times \text{Volumetric Efficiency} = \text{Intake Airflow (CFM)}$$

2-Cycle Engine Airflow Calculation

$$\left(\frac{\text{Engine Size (CID)} \times \text{RPM}}{1728} \right) \times \text{Volumetric Efficiency} = \text{Intake Airflow (CFM)}$$

Volumetric Efficiency

Engine volumetric efficiency ratings are best obtained from your engine manufacturer. Engines operating with electronic controls could have volumetric efficiency ratings of more than 2.0. Airflow on these engines should be verified by the engine manufacturer.

4 Cycle GAS Engine	Naturally Aspirated	= .70 - .80
2 and 4 Cycle DIESEL Engine	Naturally Aspirated	= .90
	Turbo*	= 1.50 - 3.00*

* If VE rating is not available, Donaldson recommends using the highest value to insure proper airflow.

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Lei Shi



Engine Hp Exhaust Flow Guide Donaldson Company:

The Enigmatic Realm of **Engine Hp Exhaust Flow Guide Donaldson Company**: Unleashing the Language is Inner Magic

In a fast-paced digital era where connections and knowledge intertwine, the enigmatic realm of language reveals its inherent magic. Its capacity to stir emotions, ignite contemplation, and catalyze profound transformations is nothing short of extraordinary. Within the captivating pages of **Engine Hp Exhaust Flow Guide Donaldson Company** a literary masterpiece penned with a renowned author, readers embark on a transformative journey, unlocking the secrets and untapped potential embedded within each word. In this evaluation, we shall explore the book's core themes, assess its distinct writing style, and delve into its lasting affect the hearts and minds of people who partake in its reading experience.

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Table of Contents Engine Hp Exhaust Flow Guide Donaldson Company

1. Understanding the eBook Engine Hp Exhaust Flow Guide Donaldson Company
 - The Rise of Digital Reading Engine Hp Exhaust Flow Guide Donaldson Company
 - Advantages of eBooks Over Traditional Books
2. Identifying Engine Hp Exhaust Flow Guide Donaldson Company
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Engine Hp Exhaust Flow Guide Donaldson Company
 - User-Friendly Interface
4. Exploring eBook Recommendations from Engine Hp Exhaust Flow Guide Donaldson Company
 - Personalized Recommendations
 - Engine Hp Exhaust Flow Guide Donaldson Company User Reviews and Ratings
 - Engine Hp Exhaust Flow Guide Donaldson Company and Bestseller Lists

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 - Engine Hp Exhaust Flow Guide Donaldson Company eBook Subscription Services
 - Engine Hp Exhaust Flow Guide Donaldson Company Budget-Friendly Options
6. Navigating Engine Hp Exhaust Flow Guide Donaldson Company eBook Formats
 - ePub, PDF, MOBI, and More
 - Engine Hp Exhaust Flow Guide Donaldson Company Compatibility with Devices
 - Engine Hp Exhaust Flow Guide Donaldson Company Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Engine Hp Exhaust Flow Guide Donaldson Company
 - Highlighting and Note-Taking Engine Hp Exhaust Flow Guide Donaldson Company
 - Interactive Elements Engine Hp Exhaust Flow Guide Donaldson Company
8. Staying Engaged with Engine Hp Exhaust Flow Guide Donaldson Company
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Engine Hp Exhaust Flow Guide Donaldson Company
9. Balancing eBooks and Physical Books Engine Hp Exhaust Flow Guide Donaldson Company
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Engine Hp Exhaust Flow Guide Donaldson Company
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Engine Hp Exhaust Flow Guide Donaldson Company
 - Setting Reading Goals Engine Hp Exhaust Flow Guide Donaldson Company
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Engine Hp Exhaust Flow Guide Donaldson Company
 - Fact-Checking eBook Content of Engine Hp Exhaust Flow Guide Donaldson Company
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning

- Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
- Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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