

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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