

Dual Fuel Engines

Dual fuel: flexible generation

Guascor Energy's dual fuel engines allow flexible generation for industrial applications.

With more than 50 years of history in the development and manufacture of internal combustion engines, Guascor Energy offers a wide range of solutions specifically optimized to work with different fuel types.

Our portfolio engines powered by fuel gases, such as natural gas, biogas or even propane, synthesis gas or low-carbon mine gas.



Why Dual Fuel Engines?



Less emissions

25% decrease in NOx emissions compared to solely Diesel engines.



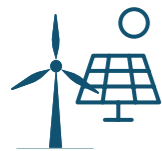
Less opaque fumes

Reduction of exhaust fumes opacity by 30% on full load



Easy to service

Economic and simple maintenance.

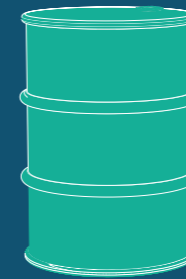


Ideal for remote sites

Ideal for power generation applications where gas supply is most guaranteed, since a dual fuel engine can operate solely on Diesel at 100% capacity (if cannot operate solely on gas).

30% Diesel

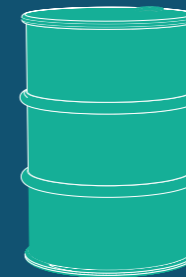
70% Gas



Dual fuel engines operate at maximum efficiency on a 70% gas and 30% Diesel mixture.

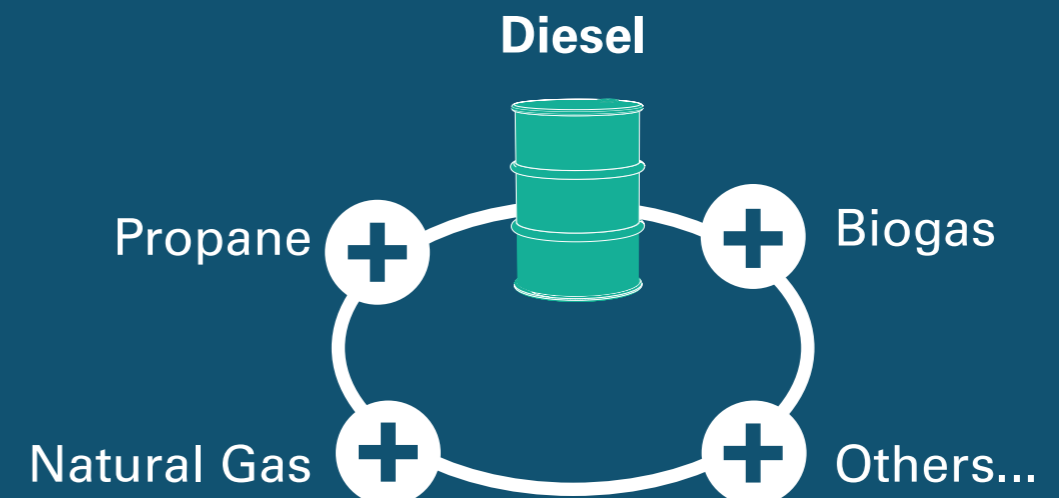
15% Diesel

85% Gas



They can also operate at 80% of their capacity on a 15% Diesel and 85% gas mixture.

Fuel Flexibility. Dual fuel engines can be fueled with Diesel oil and different types of gas (Natural Gas, Propane, Biogas...)

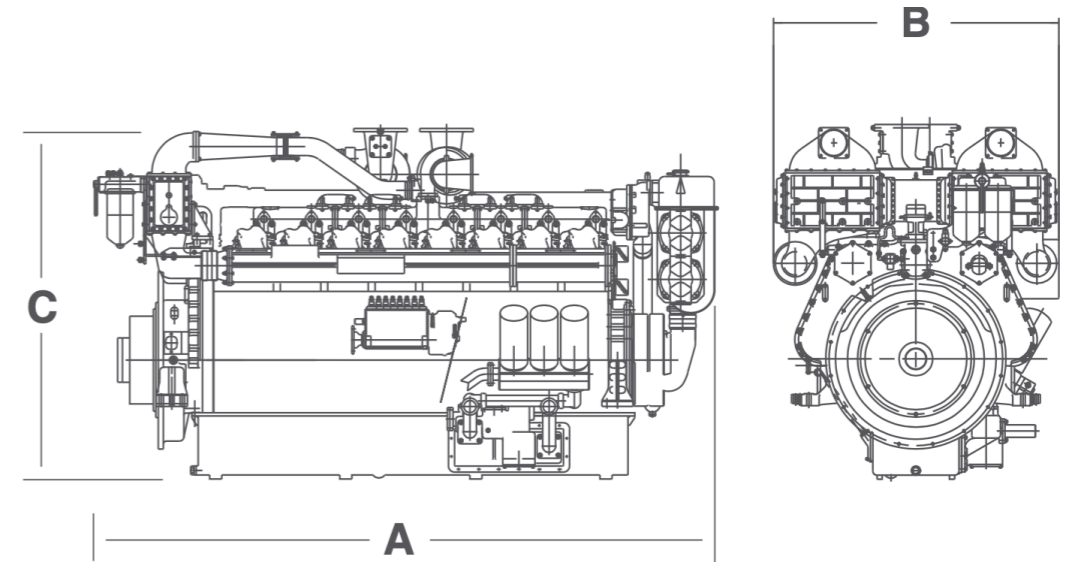


Technical specifications

ENGINE TYPE		SFD180	SFD240	SFD360	SFD480								
SPEED	rpm	1500											
COMPRESSION RATIO		14:1											
FUEL TYPE		NATURAL GAS - DIESEL OIL											
LHV DIESEL FUEL	kJ/kg	42700											
INTERCOOLER WATER TEMPERATURE	°C	55											
AMBIENT CONDITIONS		ISO 3049/1											
NUMBER OF CYLINDERS	#	6L	8L	12V	16V								
DISPLACEMENT	L	18	24	36	48								
MECHANICAL POWER	kWb	360	360	288	480	480	384	720	720	575	960	960	768
DIESEL RATIO	%	100	30	15	100	30	15	100	30	15	100	30	15
GAS RATIO	%	0	70	85	0	70	85	0	70	85	0	70	85

DIMENSIONS		SFD180	SFD240	SFD360	SFD480
A*	mm	1832	2304	2656	3126
B	mm	945	945	1408	1408
C	mm	1450	1459	1738	1738

* Engine only
 These characteristics correspond to applications in parallel to the network. For others, please consult.
 The increase in the percentage of gas would affect the power, for other variations in composition, please consult.



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