

Dual Fuel System

This sheet helps the HEINZMANN application engineers to calculate and advice the proper dual-fuel equipment for your engine application. Please fill in this form and do not hesitate to contact HEINZMANN in case of doubts or questions. For repeated identical applications this procedure will not be required. Please use always the latest order form which you can download at: <http://www.heinzmann.com/en/engine-and-turbine-management/system-solutions/dual-fuel-management>

CUSTOMER INFORMATION

Company:	Division:	
Contact person:	Customer-ID:	Date:
Email:	Fax:	Phone:
Order No.:	HEINZMANN:	
Address:		

ACTUAL CONDITION

Total running hours:	h	Running hours per year	
Commissioning date of the engine		Last maintenance of the fuel system	
Load collective (typical load when engine is running)			% or kW
Actual diesel price		Actual gas price	

TECHNICAL DATA OF THE ACTUAL DIESEL ENGINE

GENERAL ENGINE DATA

Engine Type and Producer

Max. Diesel power	kW	Cylinder displacement	Liter
Engine speed	rpm	Cylinder number	
Inline-engine	V-engine	Mechanical efficiency of diesel engine	%

AIR INTAKE SYSTEM

Air system configuration (please attach flow diagram if available)

Turbocharger (TC)	yes	no	Number of TC	Configuration of TC
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Max. boost pressure abs.	bar
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Max. inlet air temperature after intercooler at full load	°C
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Valve timing (Important for engine speed < 1000 rpm)

Intake valve open	°CA	Intake valve close	°CA
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Exhaust valve open	°CA	Exhaust valve close	°CA
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DIESEL FUEL SYSTEM

Diesel Fuel pump	Diesel Governor Type
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Diesel Fuel Type

Heat value	MJ/kg
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Diesel flow meter available	yes	no	Lambda at diesel full load
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SIGNAL AVAILABILITY

Actual diesel position/quantity	yes	no
Actual load (generator)	yes	no
Exhaust temperature for every cylinder	yes	no

APPLICATION

Generator Island or mains parallel operation

Other? Please explain:

DUAL FUEL SYSTEM

GAS SPECIFICATIONS

Gas type		Lowest heat value	MJ/nm ³
Gas density	kg/nm ³	Stoichiometric air requirement	m ³ /m ³
Range (only for variable fuel quality):			% CH ₄
Available gas pressure:	bar	Available gas flow	nm ³

GAS TRAIN

Is gas train requested from Heinzmann	yes	no
Is gas flow meter available	yes	no

SYSTEM COMMUNICATION AND MOUNTING PLACE FOR HEINZMANN COMPONENTS

Mounting place for controllers extra Switch cabinet customer switch cabinet

Is camshaft trigger disc available? yes no

Is it possible to change diesel specific injection parameters to optimize Dual Fuel efficiency?

yes no

Communication abilities with diesel ECU (analogue, CAN, e.a.?)

Is it possible to use sensors from the actual diesel configuration? yes no

Communication abilities with diesel PLC (analogue, CAN, e.a.?)

Monitoring and parameter setting 4-Lines-Display Touch screen DC Desk

IMPORTANT INFORMATION

BUILD UP AND COMMISSIONING:

- HZM can't do the mechanical build up of the Dual Fuel components, customer is responsible for this
- HZM can offer a training course to give the service personal the technical knowledge to start up and calibrate the dual fuel system
- HZM can do the commissioning of the dual fuel system when mechanical build up is finished

SCOPE OF DELIVERY FROM HZM SIDE

- Please be aware that extra parts (such as mechanical parts, adapters, supports, gas pipes, etc.) needed for the installation of the gas valves are not included.
- Please look into the cost estimation to see the scope of supply (depends on the project)