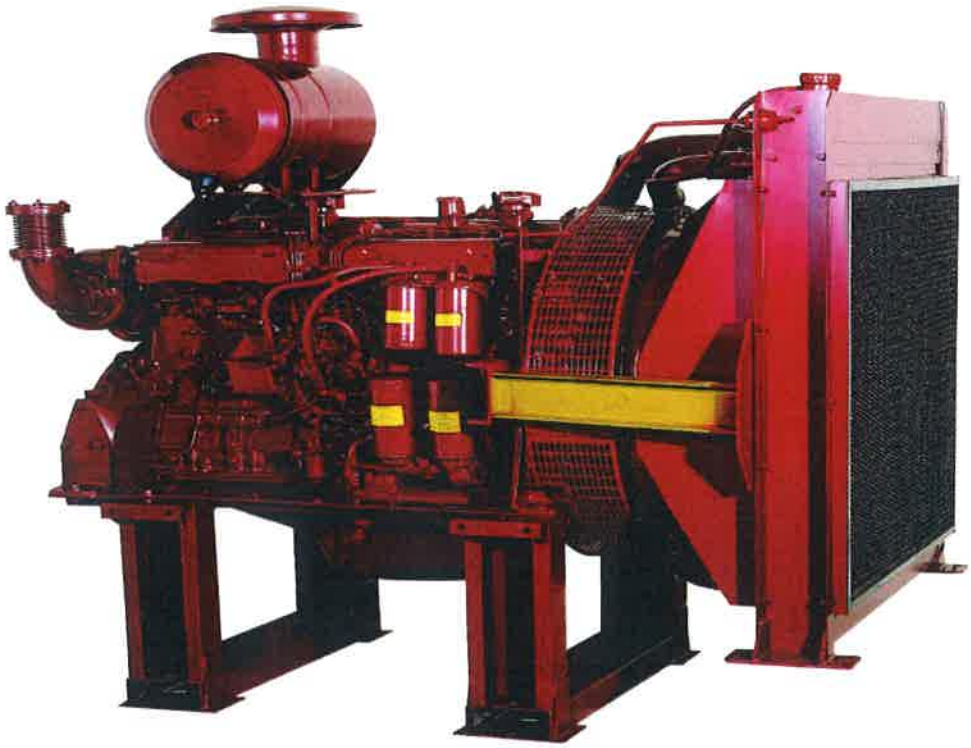
GENSET ENGINE

8210SRi27



PERFORMANCES

RATINGS		50 Hz		60 Hz	
		PRIME	STAND-BY	PRIME	STAND-BY
Rated output	**kWm**	**306**	**337**	**313**	**344**

Ratings in accordance with ISO 8528 - Standard reference conditions : 25°C air inlet temperature ; 1000 mbar ; 30% relative humidity - Power factor 0.8

PRIME POWER
The Prime Power is the maximum power available with varying loads for an unlimited number of hours. The average power output during a 24 h period of operation must not exceed 80% of the declared prime power between the prescribed maintenance intervals and at standard environmental conditions. A 10% overload is permissible for 1 hour every 12 hours of operation.

STAND-BY POWER
This is the maximum power available for a period of 500 hours/year with a mean load factor of 90% of the declared stand-by power. No kind of overload is permissible for this use.

TECHNICAL DATA

Engine model		8210SRi27
Diesel 4 stroke - Injection type		direct
N° of cylinders		6 in line
Total displacement	L	13.8
Bore x Stroke	mm	137 x 156
Compression ratio		16.5 : 1
Aspiration		turbocharged aftercooled

Cooling system		liquid (water + 50% Paraflu11)
Lube oil specifications		ACEA E3-API CF4/MILL2104E/F
Lube oil consumption		< 0.5% of fuel consumption
Fuel specifications		EN 590
Speed governor		electronic (G3 class)
Engine rotating mass moment of inertia	$kg.m^2$	3.928
Flywheel housing / Flywheel		SAE 1/14"

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TECHNICAL DATA

		RPM	1500	1800
BMEP		kPa	1765	1510
Fuel consumption at :	100% load	l/h	74.1	80.7
	75% load	l/h	56.1	61.4
	50% load	l/h	38.7	44.5

AIR INDUCTION SYSTEM

Intake air flow.	m^3/h	1600	1830
Maximum suggested intake restriction :			
with clean air filter	kPa	2.45	
with dirty air filter	kPa	4.9	

INJECTION

Injection system		mechanical
Max speed drop steady conditions		isochronous
Max fuel feed pump suction head	m	0.8

EXHAUST SYSTEM

Exhaust gas flow	kg/h	1950	2210
Max exhaust temperature at full load (at 25°C - after turbine)	°C	500	470
Max allowable exhaut backpressure	kPa	4.9	

COOLING SYSTEM

Coolant capacity : engine only	liters	~ 30	
engine + radiator	liters	~ 85	
Cooling water flow rate	l/min	361	433
Max allowable pressure drop on external water circuit	Pa	9.8	10
Pusher fan air flow	m^3/s	5.7	8.0
Pusher fan head (static)	Pa	490	
Pusher fan absorbed power	kW	12	24
Max engine outlet water temperature (Alarm)	°C	98	
ATB (without canopy) - nominal rating	°C	55	

No remote cooling radiator allowed

LUBRICATION SYSTEM

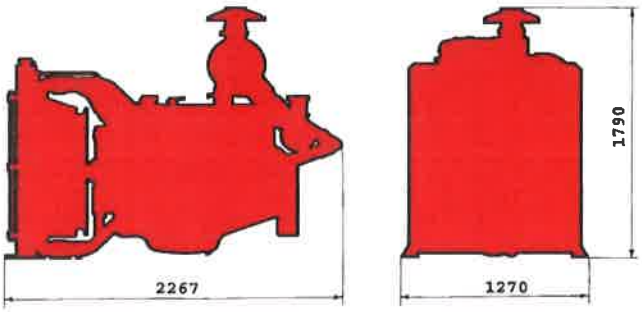
Lube oil total system incl. sump, filters etc.	kg (l)	~ 25 (27.5)
Oil capacity of standard sump :		
at min. level	kg (l)	~ 12 (13.2)
at max level	kg (l)	~ 20 (22)
Maximum oil temperature	°C	120
Oil pressure (min/max)	kPa	196

	RPM	1500	1800
HEAT REJECTION (at full load conditions)			
Engine to coolant (water + oil)	kcal/kWh	330	350
Engine to exhaust	kcal/kWh	660	735
Radiated to ambient	kcal/kWh	60	50
Engine supercharged air to coolant	kcal/kWh	144	160

ELECTRIC STARTING SYSTEM

Cranking motor rating	kW	6.6
Auxiliary voltage	Vcc	24
Battery-charge alternator	A	30
Starting batteries :		
Recommended capacity	Ah	2 x 155
Discharge current	A	660

DIMENSIONS AND WEIGHTS



Engine dry weight, standard configuration kg 1410

Publication P4A048011E - 101.04
Specifications subject to change without notice
illustrations may include optional equipment.

Local distributor

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2H ENERGY IVECO Group

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