

Voltage: 380/220V

Frequency: 50Hz

Power Factor: 1

Protection: IP23

insulation Class: H

ISO9001, OHSAS18001, ISO14001, CE Certified

40KW Natural gas generator - Perkins OEM

Genset Model		JVNF-40
Rated Power (kW/kVA)		40/50
Rated Current (A)		90
Dimension (mm)		2150*800*1430
Gross Weight (kg)		1100
Gas engine	Brand	PERKINS OEM
	Model	1006-NG
	Configuration	Water-cooled, 4-stroke, 6 cylinder inline
	Rated Power (kW/kVA)	55/68
	Rated Speed (rpm)	1500
	Cylinder No.	L6
	Bore*Stroke (mm)	100x127
	Cooling Method	Water cooling
	Oil Consumption (g/kw.h)	<1
	Gas Consumption (m3/kw.h)	0.3 @100% load
	Starting method	12V DC
Alternator	Brand	STAMFORD
	Model	FLD224D
	Rated Power (kW/kVA)	40/50
	Efficiency	92,50%
	Voltage Regulation	$\leq \pm 1$
	Voltage Regulation	Brushless, Self Excitation
	Insulation Class	H
Control System	Brand	DEESEA
	Model	DES 6020
	Working Voltage	DC8.0V to DC35.0V, continuous
	Overall Dimensions (mm)	197*152*47
	Panel Cutout (mm)	186*141
	Working Condition	Temperature: (-25~70)°C; Humidity: (20~90)%
	Weight	0.56kg
Gas system	Ignition system	ECU controlled,
	Gas regulator	MADAS
	Air/gas mixer	IMPCO
	E-throttle	BOSCH
	High voltage coil	TORCH
	Ignition sparkle	BOSCH

Requirements for natural gas

1. Methane should be at least **90%**
2. Natural gas temperature should be between **0-60 °C**
3. No impurity should be in the gas. Water in the gas should be less than **20g/Nm³**.
4. Heat value should be at least **5500kcal/m³**, if less than this value, the power of the engine will be declined.
5. Gas pressure should be **3-100KPa**, if the pressure is less than 3KPa, booster fan will be necessary.
6. The gas should be dehydrated and desulfurated. Make sure that there is no liquid in the gas. **H₂S<200mg/Nm³**

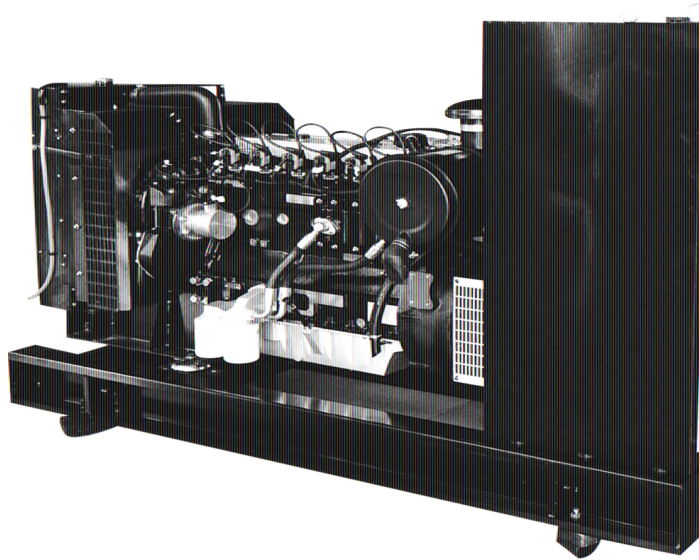


Image 1# - natural gas generator - OPEN type



Image 2# - natural gas generator - SOUND PROOF type

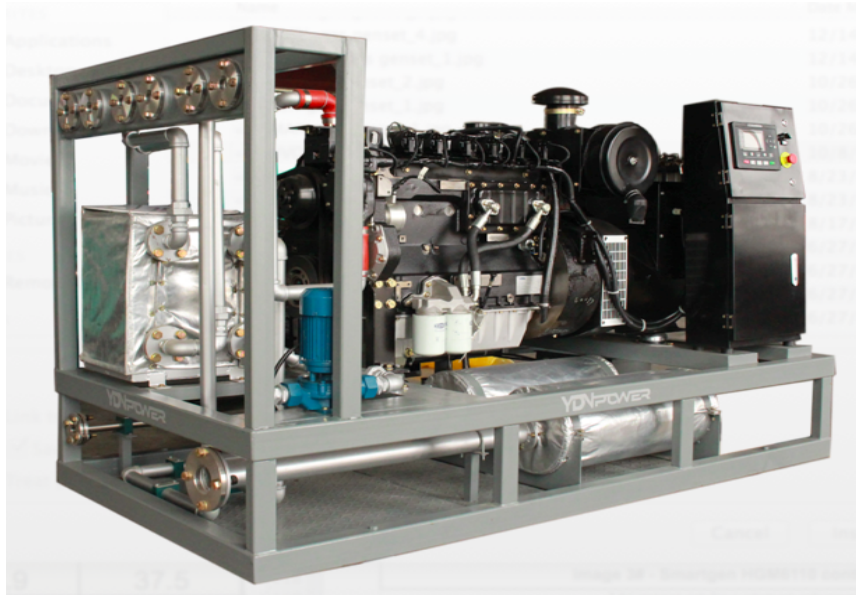


Image 3# - CHP heat recovery from water jacket, exhaust plus heat exchanger