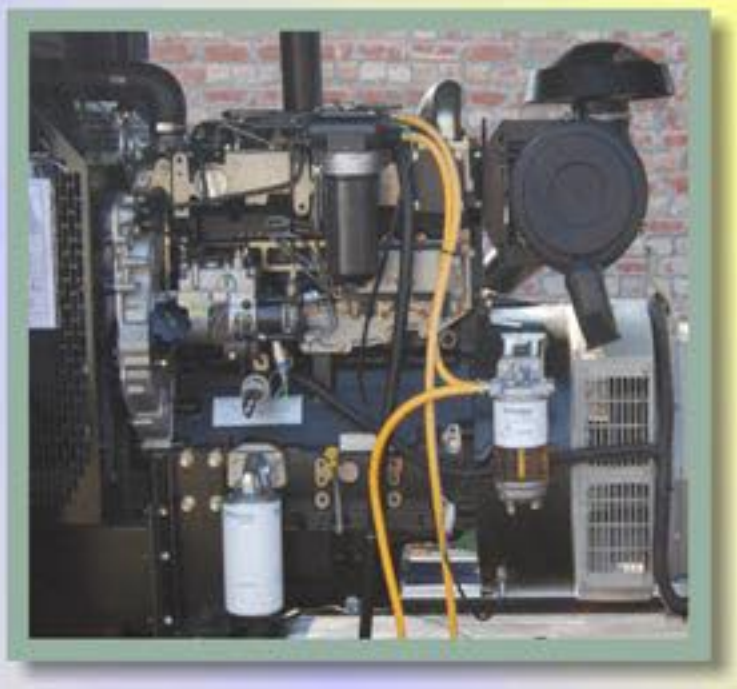

Technical Data

Generating Set Model:	GEMCO-10/11S	GEMCO-15/16.5S	GEMCO-16/18S	GEMCO-20/22S
Engine Make & Model:	Perkins 403A-15G	Perkins 403A-15G2	Perkins 404A-22G	Perkins 404A-22G1
Alternator	Meccalte UK	Meccalte UK	Meccalte UK	Meccalte UK
Number of Cylinder/Alignment:	3 in line	3 in line	4 in line	4 in line
Displacement: litres (cu.in)	1.5 (91.3)	1.5 (91.3)	2.2 (135.2)	2.2 (135.2)
Bore/Stroke: mm (in)	84.0 (3.3)	84.0 (3.3)	84.0 (3.3)	84.0 (3.3)
Compression Ratio:	22.5:1	22.5:1	23.3:1	23.3:1
Induction:	Naturally Aspirated	Naturally Aspirated	Naturally Aspirated	Naturally Aspirated
Frequency:	50 Hz	50 Hz	50 Hz	50 Hz
Engine Speed:	1500 RPM	1500 RPM	1500 RPM	1500 RPM
Gross Engine Power: kW (hp)	13.5 (18.0)	13.5 (18.0)	20.6 (28.0)	20.6 (28.0)
BMEP: kPa (psi)	722.0 (104.7)	722.0 (104.7)	743.0 (107.8)	743.0 (107.8)
Piston Speed: m/sec (ft/sec)	4.5 (14.8)	4.5 (14.8)	5.0 (16.4)	5.0 (16.4)
Fuel Tank Capacity: litres (US qal)	45 (11.9))	45 (11.9))	45 (11.9)	45 (11.9)
Fuel Consump Prime, l/hr (USq/hr)	3.6 (1.0)	3.6 (1.0)	4.9 (1.3)	5.3 (1.4)
Fuel Consump Standby, l/hr (USq/hr)	4.1 (1.1)	4.0 (1.1)	5.5 (1.5)	5.9 (1.6)
Heat Rejected to Exhaust System: kW (Btu/min)	10.3 (586)	10.3 (586)	16.6 (944)	16.6 (944)
Heat Rejected to Water & Lube Oil: kW (Btu/min)	14.6 (830)	14.6 (830)	21.6 (1228)	21.6 (1228)
Heat Radiation to Room: kW (Btu/min)	3.5 (199)	3.5 (199)	4.4 (250)	4.4 (250)
Exhaust Gas Temperature: °C (°F)	480 (896)	480 (896)	451 (844)	481 (898)
Radiator Cooling Air Flow: m^3/min (cfm) Cooling system designed to operate in ambient conditions up to 50°C (122°F)	31.2 (1102)	31.2 (1102)	33.0 (1165)	33.0 (1165)
Combustion Air Flow: m^3/min (cfm)	1.1 (38)	1.1 (38)	1.5 (51)	1.5 (51)
Exhaust Gas Flow: m^3/min (cfm)	2.2 (78)	2.2 (78)	4.2 (148)	4.5 (159)

Length: mm (in) 1320 (52.0)	1320 (52.0)	1320 (52.0)	1320 (52.0)
Width: mm (in) 552 (21.7)	552 (21.7)	552 (21.7)	552 (21.7)
Height: mm (in) 1179 (46.4)	1179 (46.4)	1179 (46.4)	1179 (46.4)

Note: Standard reference conditions 27°C (80°F) Air Intel Temp, 152.4m (500ft) A.S.L. 60% relative humidity. All engine performance data based on the above mentioned maximum continuous ratings. Fuel consumption data at full load with diesel fuel with specific gravity of 0.85 and conforming to BS2869: 1998, Class A2.

Prime Power

These ratings are applicable for supplying continuous electrical power (at variable load) in lieu of commercially purchased power. There is no limitation to the annual hours of operation and this model can supply 10% overload power for 1 hour in 12 hour.

Standby Power

These ratings are applicable for supplying continuous electrical power (at variable load) in the event of a utility power failure. No Overload is permitted on these ratings. The alternator on this model is peak continuous rated (as defined in (ISO 8528-3).

GEMCO

GENERAL ELECTROMAX COMPANY

11-KM, Jaranwala Road, Near Nazir CNG, Lahore - Pakistan.
Ph: +92-42-37902839-41 Fax : +92-42-37916484,
Email: gemcogenerators@yahoo.com web: www.gemco.com.pk