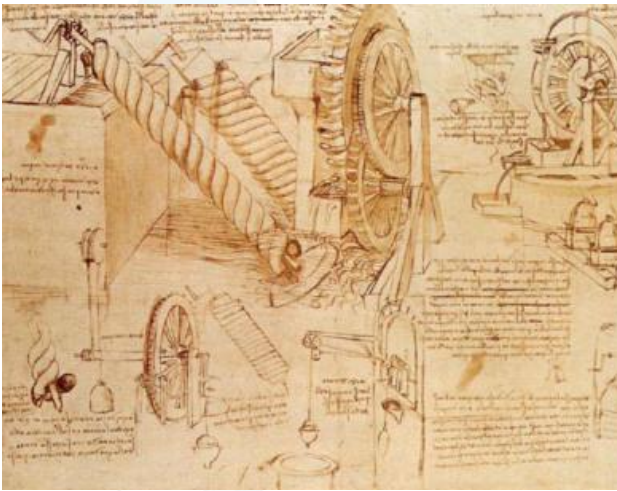
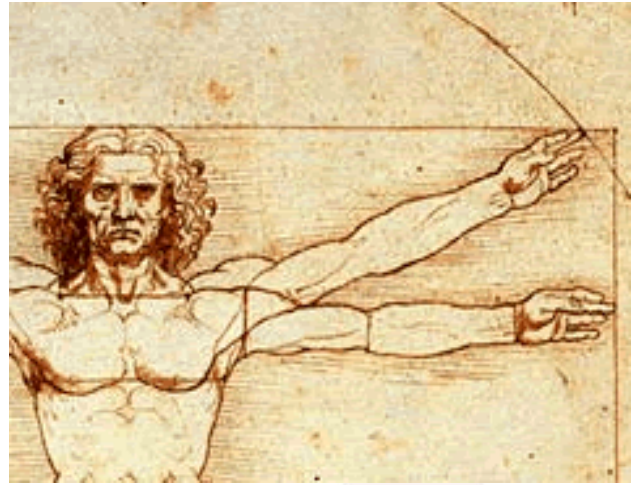


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## Main Applicable Standards

Entalpica Power Generating sets are built and realized according the international, European standards

- Generating set and Diesel and gas engine : ISO 3046 - ISO 8528
- Alternator : NEMA MG1.22 - IEC 34.1, B.S. 5000 - 4999
- Control panel : IEC 439.1

## Our Quality and Control System

According to ISO quality system, Entalpica are certified with ISO9001:2008





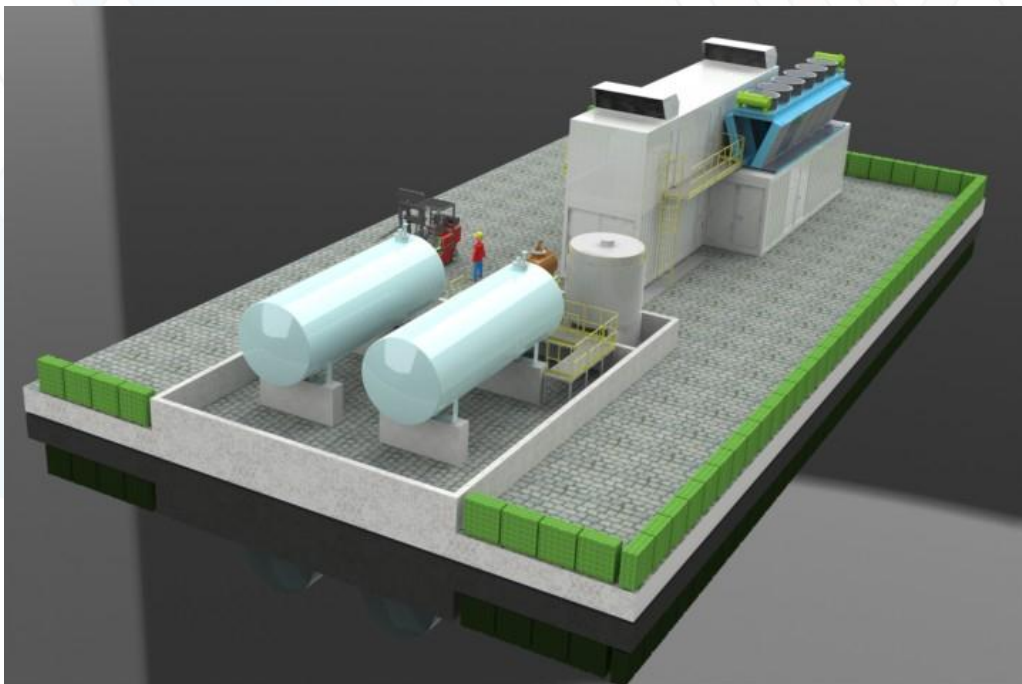
## Diesel Power Generating Sets

**entalpica** would like to take the opportunity to introduce their standard products of Diesel Power Generating Sets, **entalpica's** Power Generation Sets are solid, safe, reliable and built according to the international standards and developed as per the latest technology.

### Our mission and target

Entalpica offers a different solutions of a Standard and Customized Products with a size starting from 100 kVA to 5000 kVA applicable for emergency stand by, black start and continuous power generating sets, suitable for domestic, industrial and Oil & Gas applications.

The target of Entalpica are focusing to achieve a customer satisfaction, requirements and demands by using the new technology in power generation, high quality products and high reliability and service.



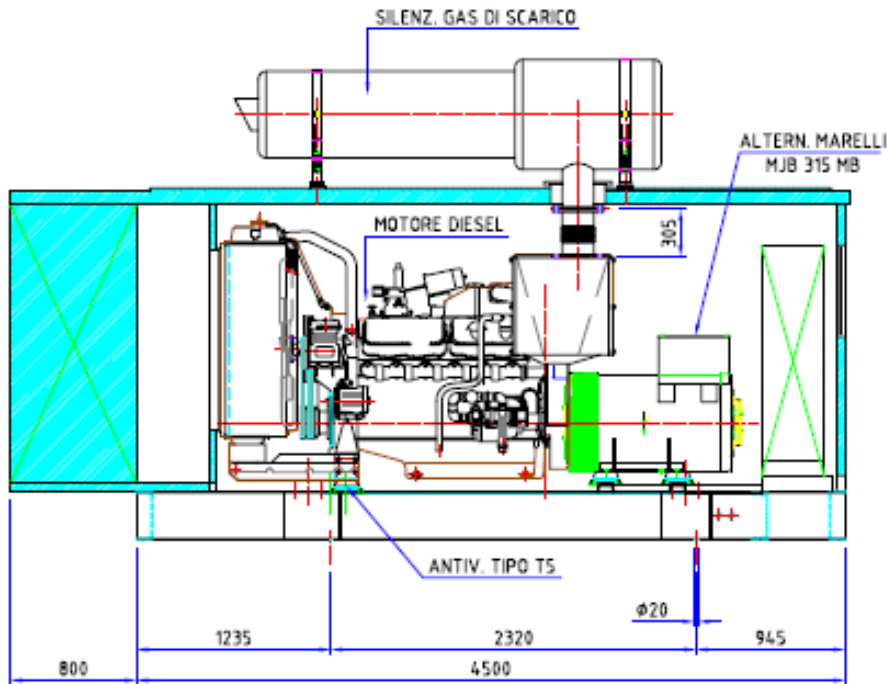
## Main Feature of the Diesel Generating Set's:

A diesel Power Generator is a package combination of a diesel engine, an alternator, main components (such as Base frame, Sound proof enclosure, control system, cooling radiator, exhaust gas system ...etc.) and various accessory and auxiliary devices (such as , preheating system, circuit breakers, and starting system...etc.).

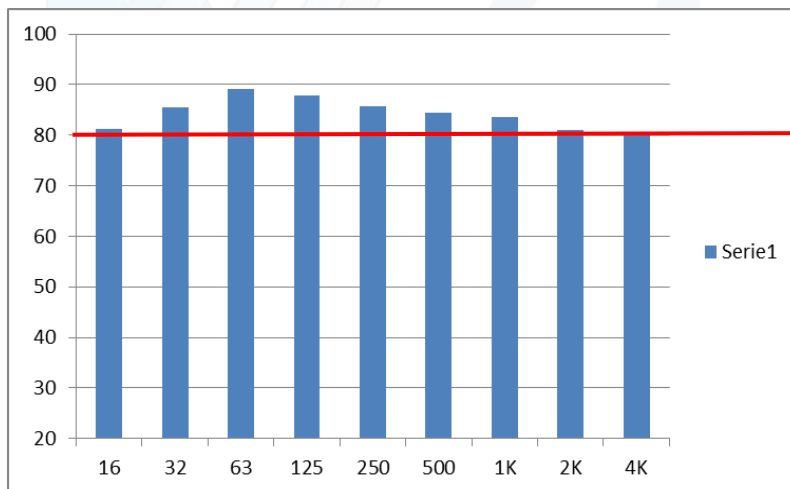


Our R&D engineering department is working always to fill full the project special specifications and requirements, such as noise level attenuation, dynamic vibration, exhaust gas emission, ventilation system due to high ambient temperature and ATEX requirements due to hazardous area.

- An example of a complete generating layout



- An example of noise octave band at various frequencies



80 dB

To meet the customer demands and the a special technical requirements, Entalpica are providing a power generating set's realized by using a worldwide types of diesel engines (Such as GET, Mitsubishi, MTU, MWM, Cummins, Deutz, Volvo...etc.) with many size as illustrated in the table of our standard products size, moreover, Entalpica can provide also a customized products which matching customer special specifications and requirements.



**GET Engine example  
(12V250)**



**Mitsubishi engine example  
(S6UPTA)**



**MTU**



**CUMMINS**



**DEUTZ**



**VOLVO**



## Diesel Power Generating Set

Electrical Power Factor:  $\cos \phi = 0.8$

SMALL	Model	Standby	Standby	Engine Speed	Prime Power	Prime Power
		kVA @ 50 HZ	kWe @ 50 HZ	R.P.M	kVA @ 50 HZ	kWe @ 50 HZ
	END100	100	80	1500	91	73
	END150	150	120	1500	136	109
	END200	200	160	1500	182	145
	END250	250	200	1500	227	182
	END300	300	240	1500	273	218
	END350	350	280	1500	318	255
	END400	400	320	1500	364	291
	END450	450	360	1500	409	327
END500	500	400	1500	455	364	
END550	550	440	1500	500	400	

## Diesel Power Generating Set

Electrical Power Factor:  $\cos \phi = 0.8$

MEDIUM	Model	Standby	Standby	Engine Speed	Prime Power	Prime Power
		kVA @ 50 HZ	kWe @ 50 HZ	R.P.M	kVA @ 50 HZ	kWe @ 50 HZ
	END600	600	480	1500	545	436
	END700	700	560	1500	636	509
	END800	800	640	1500	727	582
	END900	900	720	1500	818	654
	END1000	1000	800	1500	909	727
	END1250	1250	1000	1500	1136	909
	END1500	1500	1200	1500	1364	1091
	END1750	1750	1400	1500	1591	1273
END2000	2000	1600	1500	1818	1454	
END2250	2250	1800	1500	2045	1636	

## Diesel Power Generating Set

Electrical Power Factor:  $\cos \phi = 0.8$

LARGE	Model	Standby	Standby	Engine Speed	Prime	Prime
		kVA @ 60 HZ	kWe @ 60 HZ	R.P.M	kVA @ 60 HZ	kWe @ 60 HZ
	END2500	2500	2000	1000	2273	1818
	END2750	2750	2200	1000	2500	2000
	END3000	3000	2400	1000	2727	2182
	END3250	3250	2600	1000	2954	2363
	END3500	3500	2800	1000	3182	2545
	END3750	3750	3000	1000	3409	2727
	END4000	4000	3200	1000	3636	2909
	END4250	4250	3400	1000	3863	3091
END4500	4500	3600	1000	4091	3272	
END5000	5000	4000	1000	4545	3636	

