

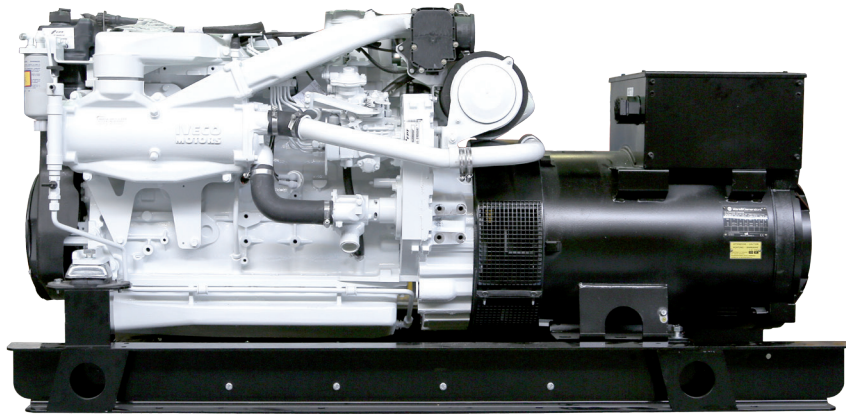


**HIMOINSA®**  
THE ENERGY

**MODELS: HFMW 115 T5**  
**HFMW 135 T6**

Powered by FPT\_IVECO

**HIMOINSA MARINE SYSTEMS**



THREE PHASE



MD12



DIESEL



WATER-COOLED

**SERVICE**

Power\*

	Frequency (Hz)	Voltage (V)	kVa	Kw	Amperes (A)
HFMW-115 T5	50	400/230	115	92	164,5
	50	380/220	115	92	173,2
HFMW-135 T6	60	480/277	136	109	163,6
	60	440/254	136	109	178,5
	60	220/127	136	109	356,9
	60	208/120	136	109	377,5

\* **Continuous power:** Unlimited running time at rated power.

**Ambient conditions of reference:** 1000 mbar, 25°C, 30% relative humidity, 30°C<sup>a</sup> raw water  
Three phase output at 0,8 power factor.

**WEIGHT and DIMENSIONS**

	Length (mm)	Width (mm)	Height (mm)	Weight (dry) kg	Sound level dB(A)*
Without sound shield	1920	796,5	924	1165	-
With sound shield	2260	980	1147,5	1550	70

\*Sound Power level at 7m, by 2000/14/CE Noise emissions outdoor equipment. (amened by 2005/88/CE)

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ENGINE SPECIFICATIONS		1500 rpm	1800 rpm	
Rated Output	kWm	100	120	
Manufacturer		FPT IVECO		
Model		N67MNTM28		
Injection Type		Direct		
Aspiration Type		Turbocharged and aftercooled		
Cylinders Arrangement		6 - L		
Bore and Stroke	mm	104 x132		
Displacement	L	6,7		
Cooling System		Liquid(water + 50% glycol)		
Lube Oil Specifications		ACEA E3 - E5		
Compression Ratio		17,5:1		
Fuel Consumption	rpm	1500	1800	
	Fuel Consumption 100%	l/h	25,2	30,4
	Fuel Consumption 80%	l/h	18,8	22,9
	Fuel Consumption 50%	l/h	12,7	15,8
Lube Oil Consumption Full Load		< 0,2 fuel consumption		
Total oil capacity including tubes, filters	L	16,5		
Total Coolant Capacity	L	24,5		
Governor		Mechanical		
Air Filter		Dry		
Exhaust Type		Suitable for marine environment		
Inner diameter exhaust pipe	mm	70		
Outer diameter inlet raw water	mm	45		
Outer diameter outlet raw water	mm	45		

**GENERATOR SPECIFICATIONS**

Polos	n°	4
Winding Connections (standard)		Star- Serie
Frame Mounting		SAE3 - 11" 1/2
Bearing		Single bearing
Coupling	Tipo	B2 ( flexible disc.)
Winding protection		Windings treatment against humidity environment
Enclosure (according IEC-34-5)	Clase	IP23
Insulation		F
Refrigeration		Forces
Voltage regulation		± 2%
Exciter system		self-excited, brushless
Voltage Regulator		A.V.R ( Electronic)



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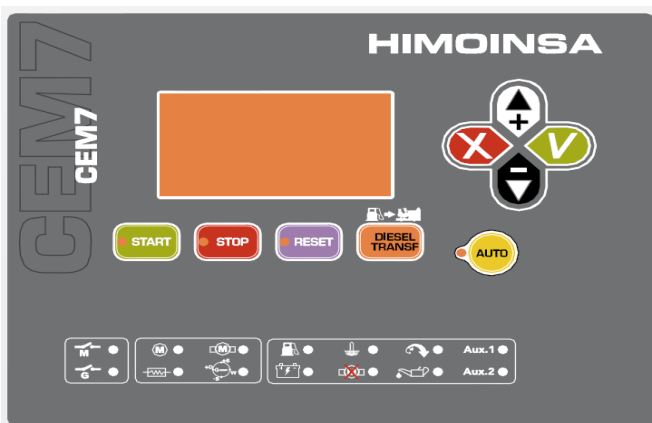
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## CONTROL PANEL



### General Description

The **CEM7** controller unit is a device able to control the operation, motoring and protection of a generator set. The controller unit consists of 2 different modules: The **VISUALIZATION** module and the **MEASUREMENTS** module.

**VISUALIZATION MODULE** provides information about the status of the device and, at the same time, allows the user to interact with it. It consists on a backlit display and various LEDs for motoring the status of the controller and buttons that allow the user to control, program and configure the functions of the unit.

**MEASUREMENTS MODULE** Controls and monitors the control board. It is located in the rear part of the panel, in order to reduce the wiring and to avoid electromagnetic disturbances. Every signal, sensor and actuator is connected to this module.

The connexion between the visualization module and the measurements module is made with a CAN communication bus. This feature allows the intercommunication of other modules to the main controller with a scalability warranty.

### Controllers Features

#### GENERATOR READINGS

- Voltage among phases
- Voltage among phases and neutral
- Amperage
- Frequency
- Apparent power (kVA)
- Active power (kW)
- Reactive power (kVAr)
- Power factor

#### ALTERNATOR PROTECTIONS

- High frequency
- Low frequency
- High voltage
- Low voltage
- Short-circuit
- Asymmetry among phases
- Incorrect phase sequence
- Inverse power
- Overload
- Genset signal droop

#### ENGINE PROTECTIONS

- High water temperature
- High coolant temperature by sensor
- Low engine temperature by sensor
- Low oil pressure
- Low oil pressure by sensor
- Low coolant level
- Low coolant shutdown
- Fuel storage
- Fuel storage by sensor
- Stop failure
- Battery voltage failure
- Battery charge alternator failure
- Overspeed
- Underspeed
- Start failure
- Emergency stop

#### LECTURAS DE MOTOR

- Coolant temperature
- Oil pressure
- Fuel level (%)
- Battery voltage
- R.P.M
- Battery charge alternator voltage



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## CUADRO DE MOTOR



### CARACTERÍSTICAS:

- Coolan Temperature Indicator
- Engine Oil Pressure Indicator
- Revolution Counter
- Voltmeter
- Indicator and Alarm Module

## CUADRO DE GRUPO S2



Cuadro de Grupo con Protección  
Magnetotérmica y Diferencial

### CARACTERÍSTICAS:

- Electronic Control Panel CEM7
- Metalic Panel
- Thermal Magnetic Protection
- Differential Relay
- Emergency Stop



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## GENERATING SETS STANDARD AND OPTIONAL FEATURES

### OPEN SET VERSION

#### Engine

- Diesel engine
- 4 strokes-cycle
- Water-cooled
- 12V Electrical system
- Water separator decanting filter (no visible level)
- Electronic governor
- Bulbos de ATA
- Bulbos de BTA
- Dry air cleaner
- Dry exhaust elbow with flexible joint
- Mobile componets guards

#### Alternator

- Self-excited and self-regulated
- 4 polos
- A.V.R (Electronic)
- IP23 protection degree
- Insulation F class
- Single bearing
- Coupling flexible disc

#### Electrical system

- Control and power electric panel, with measurements devices and controller
- 4 poles circuit breaker
- Earth leakage protection adjustable (time & sensibility)
- Battery charge alternator with ground connection
- Ground connection electrical installation with connection ready for bonding
- Starting battery installed and connected to the engine (supports included)\*

### SOUNDPROOFED VERSION

- Sound attenuated canopy made of high quality steel metal
- High mechanical strenght
- Powser coating (poliester epoxidico)
- Easy acces for service mainteance (coolant, oil, filters without removed canopy)
- Emergency stop button
- System ECCS ( Enviromental Conditions Control System)

\* Scope of supply standard for soundproofed version



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**APPLICATION DATA**

<b>Exhaust System</b>		<b>1500 rpm</b>	<b>1800 rpm</b>
Maximum exhaust temperature	°C	448	414
Exhaust Gas Flow	kg/h	669,2	802,6
Maximum allowed back pressure	kPa (mbar)	10(100)	
Exhaust Flange Size (external diameter)	mm	70	

<b>Air Inlet System</b>		<b>1500 rpm</b>	<b>1800 rpm</b>
Intake Air Flow	m <sup>3</sup> /h	540	649
Alternator fan air flow	m <sup>3</sup> /s	0,31	0,39
Engine room ambient temperature	°C	< 50	
Air intake restriction, clean filter	kPa (mbar)	3,5 (35)	
Air intake restriction dirty filter	kPa (mbar)	6,5 (65)	

<b>Cooling System</b>		<b>1500 rpm</b>	<b>1800 rpm</b>
Recommended Coolant	Type	Liquid(water + 50% glycol)	
Coolant pump flow	l/min	111	140
Sea water pump height above sea level	m	< 2	
Intake pipeline diameter	mm	45	
Outlet pipe outer diameter	mm	45	

<b>Starting System</b>		<b>1500 rpm</b>	<b>1800 rpm</b>
Battery-minimum capacity recommended	Ah	120	
Battery-minimum cold cranking capacity recommended	A	650	
Voltage	V	12	

<b>Fuel System</b>		<b>1500 rpm</b>	<b>1800 rpm</b>
Fuel specifications	Type	590	
Feed pump max suction head	m	< 2	
Fuel inlet max restriction	kPa (mbar)	15(150)	
Max fuel temperature	°C	60	



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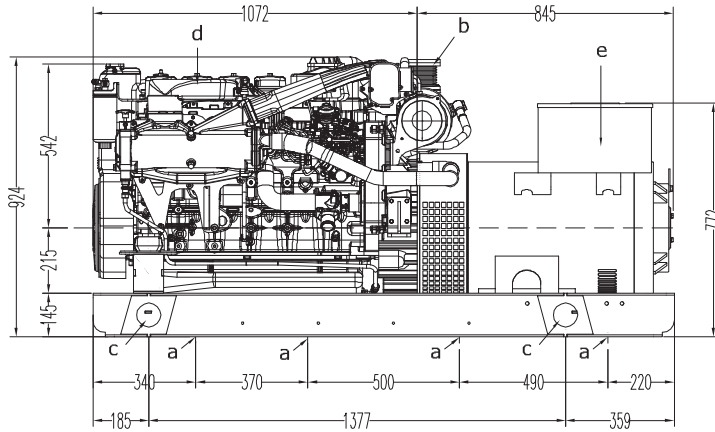


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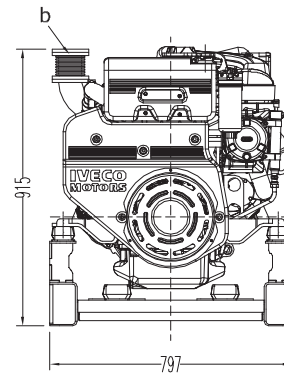
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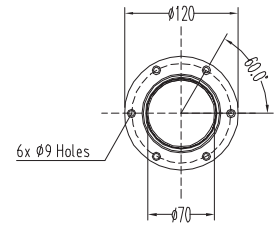
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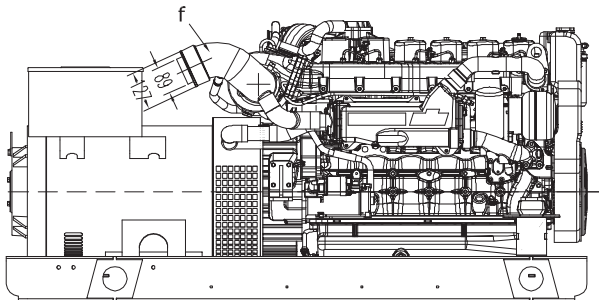
VISTA LATERAL IZQUIERDA  
LATERAL LEFT VIEW



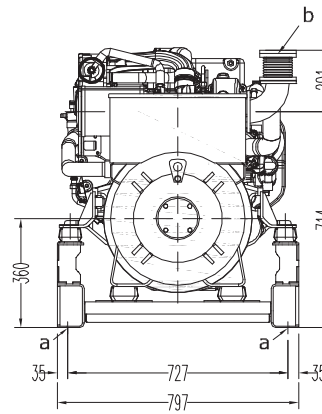
VISTA FRONTAL  
FRONT VIEW



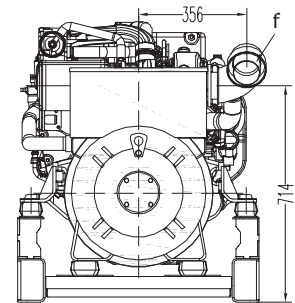
[b] - DETALLE SALIDA ESCAPE SECO  
[b] - EXHAUST DRY DETAIL  
Escala / Scale: 1/8



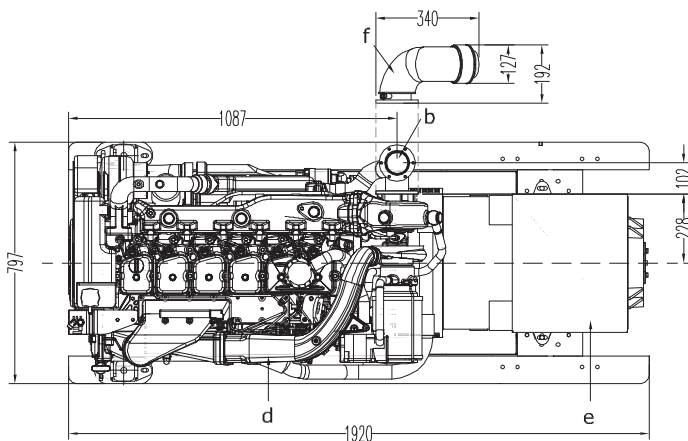
VISTA LATERAL DERECHA  
LATERAL RIGHT VIEW



VISTA POSTERIOR CON ESCAPE SECO  
REAR VIEW WITH EXHAUST DRY



VISTA POSTERIOR CON ESCAPE HÚMEDO  
REAR VIEW WITH EXHAUST WET



VISTA SUPERIOR  
UPPER VIEW

	NOTAS	NOTES
a	FIJACIÓN GRUPO (8xØ18mm)	FLOOR TO FASTENING (8xØ18mm)
b	SALIDA ESCAPE EN SECO	EXHAUST DRY OUTLET
c	PUNTO DE IZADO	HOISTED POINT
d	MOTOR IVECO NEF67 MNT M28	ENGINE IVECO NEF67 MNT M28
e	ALTERNADOR MARELLI M3BM 225 LA	ALTERNATOR MARELLI M3BM 225 LA
f	OPCIONAL ESCAPE HÚMEDO	EXHAUST WET OUTLET



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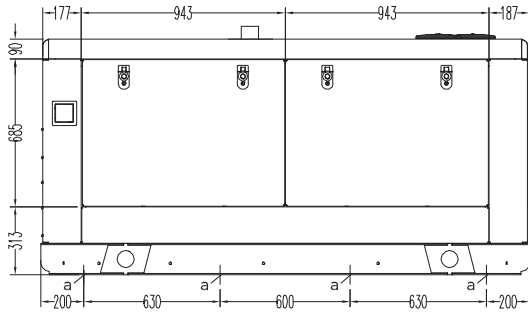


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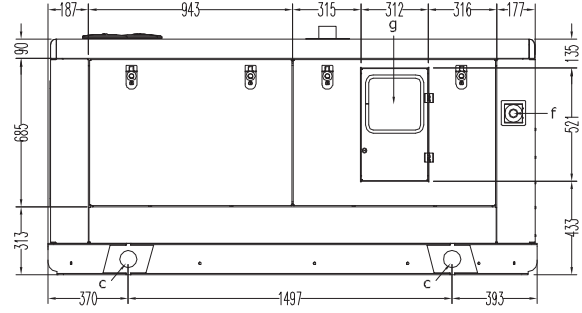
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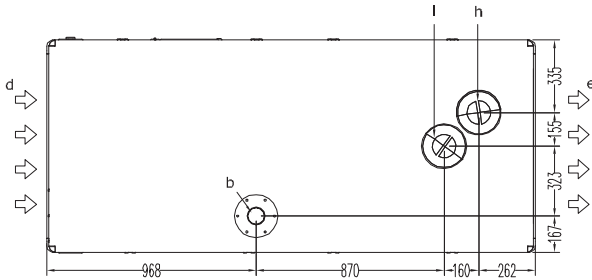
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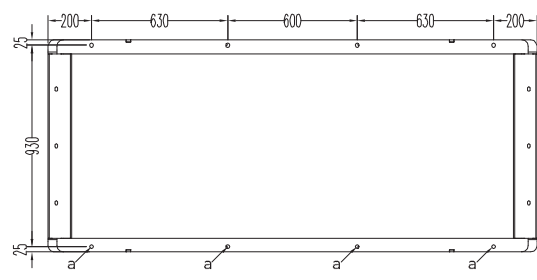
VISTA LATERAL DERECHA / LATERAL RIGHT VIEW



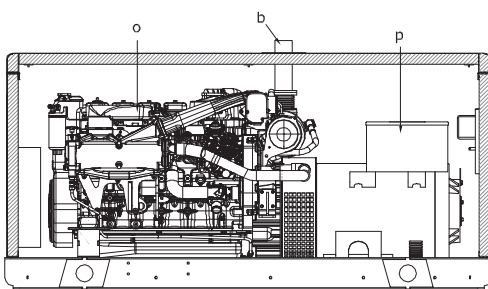
VISTA LATERAL IZQUIERDA / LATERAL LEFT VIEW



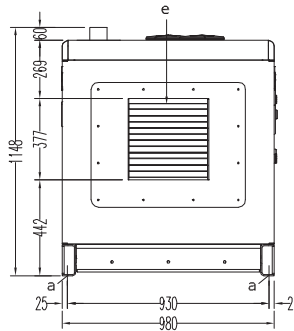
VISTA SUPERIOR / UPPER VIEW



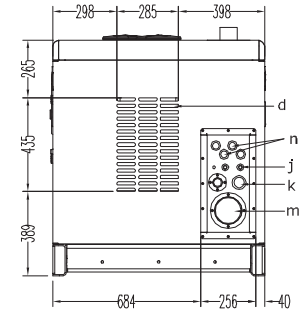
VISTA INFERIOR / LOWER VIEW



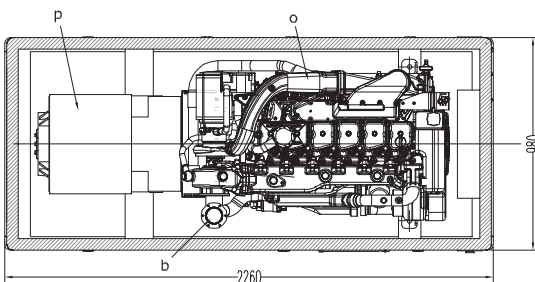
VISTA LATERAL INTERIOR / INTERIOR LATERAL SECTION



VISTA FRONTAL / FRONT VIEW



VISTA POSTERIOR / REAR VIEW



VISTA SUPERIOR INTERIOR / INTERIOR UPPER VIEW

	NOTAS	NOTES
a	FIJACIÓN GRUPO (8xØ18mm)	FLOOR TO FASTENING (8xØ18mm)
b	SALIDA ESCAPE EN SECO Ø70 mm	EXHAUST DRY OUTLET Ø70 mm
c	PUUNTO DE IZADO	HOISTED POINT
d	ENTRADA DE AIRE	AIR INLET
e	SALIDA DE AIRE	AIR OUTLET
f	PARADA DE EMERGENCIA	EMERGENCY STOP
g	PUERTA DE ACCESO A CUADRO	DOOR CONTROL BOX
h	ACCESO LLENADO LÍQUIDO REFRIGERANTE	COLLANT FILL ACCESS PORT
i	ACCESO LLENADO ACEITE MOTOR	OIL FILL ACCESS PORT
j	CONEXIONES EXTERIORES COMBUSTIBLE	FUEL OIL EXTERNAL CONNECTION
k	CONEXIONES EXTERIORES AGUA DE MAR	SEA WATER INLET / OUTLET
m	SALIDA ESCAPE HÚMEDO	EXHAUST WET OUTLET
n	SALIDA DE CABLE DE POTENCIA	OPENNING FOR CUSTOMER LOAD LEADS
o	MOTOR IVECO NEF57 M1T M28	ENGINE IVECO NEF57 M1T M28
p	ALTERNADOR MARELLI MBM 225 LA	ALTERNATOR MARELLI MBM 225 LA



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