

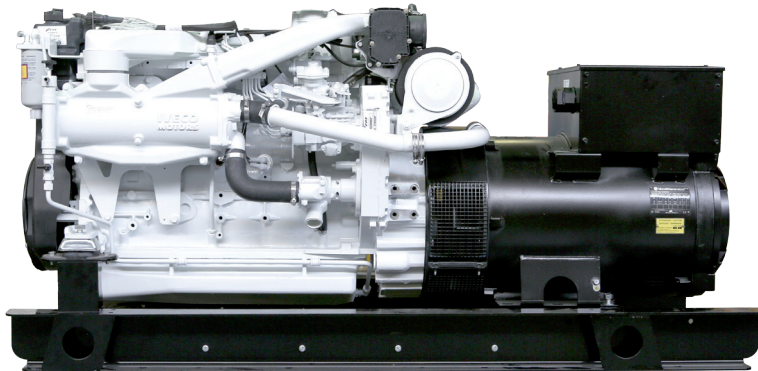


**HIMOINSA®**  
THE ENERGY

**MODELS: HFMW 80 T5**  
**HFMW 100 T6**

**HIMOINSA MARINE SYSTEMS**

Powered by FPT\_IVECO



THREE PHASE



MD12



DIESEL



WATER-COOLED

**SERVICE**

|                    | Frequency (Hz) | Voltage (V) | Power* |    |             |
|--------------------|----------------|-------------|--------|----|-------------|
|                    |                |             | kVa    | Kw | Amperes (A) |
| <b>HFMW-80 T5</b>  | 50             | 400/230     | 80     | 64 | 115,5       |
|                    | 50             | 380/220     | 80     | 64 | 121,5       |
| <b>HFMW-100 T6</b> | 60             | 480/277     | 100    | 79 | 119         |
|                    | 60             | 440/254     | 100    | 79 | 130         |
|                    | 60             | 220/127     | 100    | 79 | 260         |
|                    | 60             | 208/120     | 100    | 79 | 275         |

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

**Ambient conditions of reference:** 1000 mbar, 25 °C, 30% relative humidity, 30°C T<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)* |
|-----------------------------|-------------|------------|-------------|-----------------|--------------------|
| <b>Without sound shield</b> | 1920        | 796,5      | 924         | 1095            | -                  |
| <b>With sound shield</b>    | 2260        | 980        | 1147,5      | 1480            | 70                 |

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

**HIMOINSA HEADQUARTERS**

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**ENGINE SPECIFICATIONS**

|   |                      |                                |      |
|---|----------------------|--------------------------------|------|
| Rated Output                                | kWm                  |                                |      |
| Manufacturer                                |                      | FPT IVECO                      |      |
| Model                                       |                      | NEF 280 - N67MNTM28            |      |
| Injection Type                              |                      | Direct                         |      |
| Aspiration type                             |                      | Turbo charged and after cooled |      |
| 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 Consumption100% | l/h                            | 14   |
|   | Fuel Consumption 80% | l/h                            | 10,7 |
|   | Fuel Consumption 50% | l/h                            | 8,1  |
| 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 enviroment |      |
| Inner diameter exhaust pipe                 | mm                   | 70                             |      |
| Outer diameter inlet raw water              | mm                   | 45                             |      |
| Outer diameter outlet raw water             | mm                   | 45                             |      |

**GENERATOR SPECIFICATIONS**

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





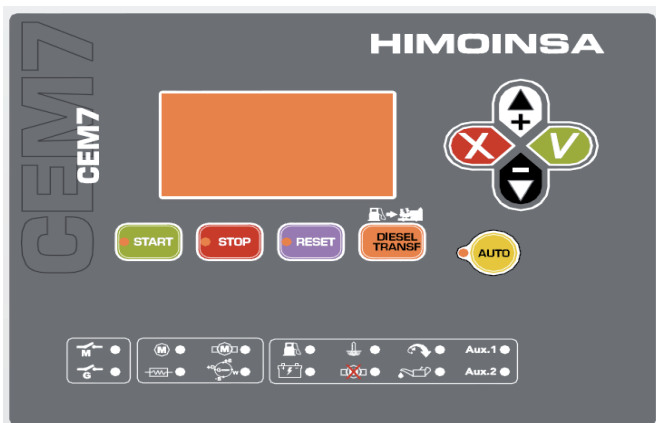
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## CONTROL PANEL



### Descripción General

La central **CEM7** es un equipo de supervisión y control de alimentación a través de grupo electrógeno. La central está compuesta de: 1.El modulo de VISUALIZACIÓN 2. El módulo de MEDIDAS.

**MÓDULO DE VISUALIZACIÓN** Realiza las tareas informativas del estado del grupo electrógeno, así como permitir al usuario comandar, programar y configurar el funcionamiento de la central. Se compone de un display retroiluminado y distintos LEDs para la monitorización del estado de la central y pulsadores que permiten al usuario comandar y programar la central.

**MÓDULO DE MEDIDAS** Realiza las tareas de supervisión y control de la central. Dicho módulo se sitúa a fondo de panel para disminuir el cableado y así aumentar la inmunidad de la central frente a ruido electromagnético.

Todas las señales, sensores y actuadores se cablean al módulo de medidas. La conexión entre el módulo de medidas y el de visualización se realiza mediante un bus de comunicación CAN, lo que permite la interconexión de módulos adicionales con lo que se garantiza la escalabilidad de la central.

### 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 digital 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

#### ENGINE READINGS

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



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## ENGINE PANEL



### CHARACTERISTICS:

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

## GROUP PANEL S2



Panel with thermal magnetic protection

### CHARACTERISTICS:

- 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
- 4strokes-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 connectio nelectrical 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 sound proofed version



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### APPLICATION DATA

| Exhaust System                          |            | 1500 rpm | 1800 rpm |
|---|------------|----------|----------|
| Maximum exhaust temperature             | °C         | 333      | 385      |
| Exhaust Gas Flow                        | kg/h       | 663      | 800      |
| Maximum allowed back pressure           | kPa (mbar) | 10 (100) |          |
| Exhaust Flange Size( external diameter) | mm         | 70       |          |

| Air Inlet System                    |            | 1500 rpm | 1800 rpm |
|-------------------------------------|------------|----------|----------|
| Intake Air Flow                     | m³/h       | 540      | n/a      |
| Alternator fan air flow             | m³/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) |          |

| Cooling System                        |       | 1500 rpm                    | 1800 rpm |
|---------------------------------------|-------|-----------------------------|----------|
| Recommended Coolant                   | Type  | Liquid (water + 50% glicol) |          |
| 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                          |          |

| Starting System                                    |    | 1500 rpm | 1800 rpm |
|--|----|----------|----------|
| Battery-minimum capacity recommended               | Ah | 120      |          |
| Battery-minimum cold cranking capacity recommended | A  | 650      |          |
| Voltage  | V  | 12       |          |

| Fuel System                |            | 1500 rpm | 1800 rpm |
|----------------------------|------------|----------|----------|
| Fuel specifications        | Type       | EN 590   |          |
| Feed pump max suction head | m          | < 2      |          |
| Fuel inlet max restriction | kPa (mbar) | 15(150)  |          |
| Max fuel temperature       | °C         | 40       |          |



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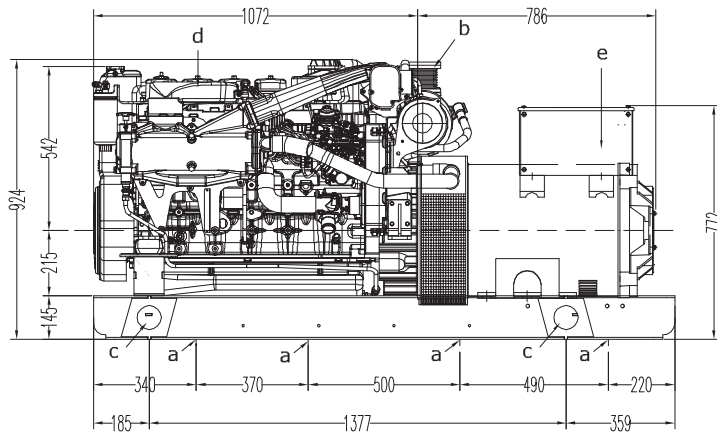


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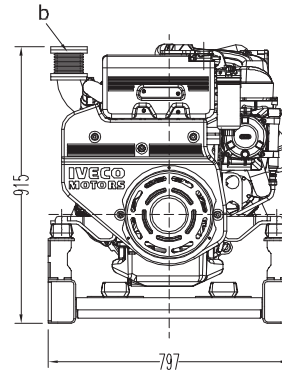
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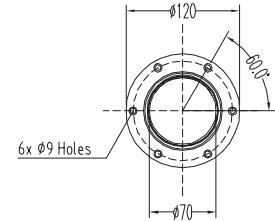
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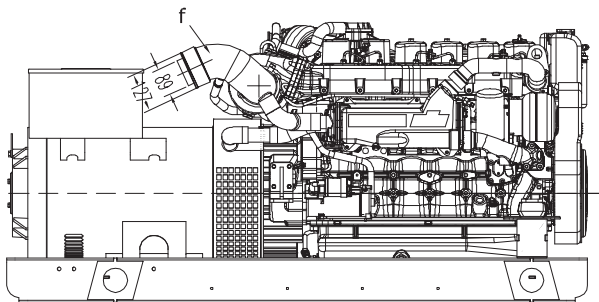
VISTA LATERAL IZQUIERDA  
LATERAL LEFT VIEW



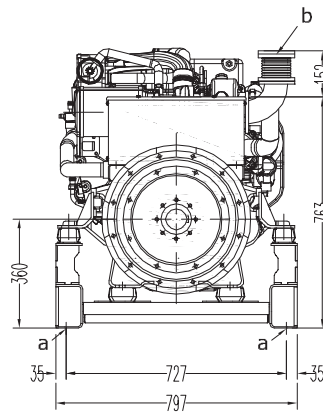
VISTA FRONTAL  
FRONT VIEW



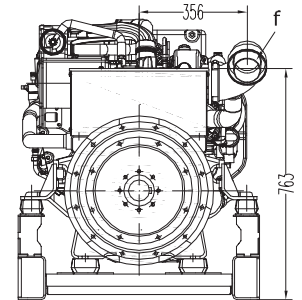
[b] - DETALLE SALIDA ESCAPE SECO  
[b] - EXHAUST DRY DETAIL  
Escala / Scale: 1/8



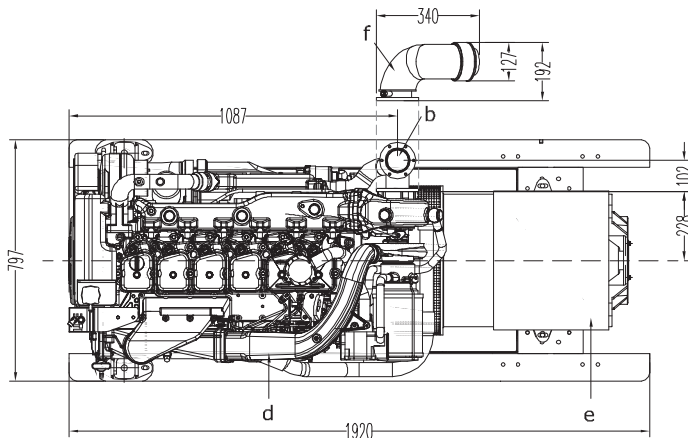
VISTA LATERAL DERECHA  
LATERAL RIGHT VIEW



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 MJBMM 225 MA | ALTERNATOR MARELLI MJBMM 225 MA |
| f | OPCIONAL ESCAPE HÚMEDO          | EXHAUST WET OUTLET              |



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