

**50 GT/GTC 230 TAC**

Three-Phase

**General data**

|                        |                    |                  |          |
|------------------------|--------------------|------------------|----------|
| <b>Maximum power*:</b> | 39,6 kW (49,5 kVA) | <b>Voltage:</b>  | 230 V    |
| <b>Prime Power**:</b>  | 36 kW              | <b>Amperage:</b> | 124,26 A |
| <b>Frequency:</b>      | 50 Hz              | <b>Phases:</b>   | 3        |

**Dimensions and weights**

|                                     |         |                                  |         |
|-------------------------------------|---------|----------------------------------|---------|
| <b>Total length without canopy:</b> | 1655 mm | <b>Total length with canopy:</b> | 1875 mm |
| <b>Total width without canopy:</b>  | 840 mm  | <b>Total width with canopy:</b>  | 840 mm  |
| <b>Total height without canopy:</b> | 800 mm  | <b>Total height with canopy:</b> | 848 mm  |
| <b>Dry weight without canopy:</b>   | 690 Kg  | <b>Dry weight with canopy:</b>   | 795 Kg  |

**Engine**

|                                  |                        |                              |                         |
|----------------------------------|------------------------|------------------------------|-------------------------|
| <b>Base engine manufacturer:</b> | Mitsubishi             | <b>Diameter:</b>             | 94 mm (3,7 in)          |
| <b>Model Solé Diesel:</b>        | SM-105                 | <b>Stroke:</b>               | 120 mm (4,72 in)        |
| <b>Type:</b>                     | 4 No. of Strokes       | <b>Compression ratio:</b>    | 22:1                    |
| <b>Engine RPM:</b>               | 1500                   | <b>Injection system:</b>     | Mechanical and indirect |
| <b>Number of cylinders:</b>      | 6                      | <b>Intake system:</b>        | Naturally aspirated     |
| <b>Total displacement:</b>       | 4996 cc                | <b>SAE Flywheel housing:</b> | SAE 3                   |
| <b>Oil:</b>                      | SAE 15W40              | <b>Coolant capacity:</b>     | 21 L (5,55 gal)         |
| <b>Oil capacity:</b>             | 12 L (3,17 gal)        | <b>Flywheel:</b>             | SAE 11 1/2              |
| <b>Power:</b>                    | 42,6 kW (57,94 CV)     | <b>Coolant flow rate:</b>    | 80 l/min (21,13 gal/m)  |
| <b>Salt water flow rate:</b>     | 38 l/min (10,04 gal/m) | <b>Intake air flow rate:</b> | 3,3 m3/m                |

Rating conditions according to ISO 3046 (100 kPa barometric pressure, 30 % relative humidity and 25 °C (77 ° F))

\* Maximum output power: maximum power supplied by the genset at full load

\*\* Prime Power: rated power according to ISO 3046 and ISO 8528-1. 10 % overload capacity one hour in twelve hours.

1 kW  $\cong$  1,36 CV 1 kW  $\cong$  1,36 HP (metric) 1 kW  $\cong$  1,36 CH

## Fuel system details

|                          |                       |                             |                     |
|--------------------------|-----------------------|-----------------------------|---------------------|
| <b>Consumption 25%:</b>  | 3,8 L/H (1 Gal/H)     | <b>Fuel type:</b>           | Diesel              |
| <b>Consumption 50%:</b>  | 5,9 L/H (1,56 Gal/H)  | <b>Fuel standards:</b>      | Fueloil diesel ASTM |
| <b>Consumption 75%:</b>  | 8,6 L/H (2,27 Gal/H)  | <b>Injection pump type:</b> | In line             |
| <b>Consumption 100%:</b> | 11,6 L/H (3,06 Gal/H) | <b>Governor type:</b>       | Mechanical          |

## Electrical system

|                         |          |                            |      |
|-------------------------|----------|----------------------------|------|
| <b>Battery voltage:</b> | 12 V     | <b>Stop solenoid type:</b> | ETR  |
| <b>Starter motor:</b>   | 3 kW     | <b>Alternator:</b>         | 50 A |
| <b>Earth isolated:</b>  | Included |                            |      |

## Installation details

|  |                 |                                       |                  |
|--|-----------------|---------------------------------------|------------------|
| <b>Exhaust hose inner diameter:</b>      | 75 mm (2,95 in) | <b>Maximum fuel lift height:</b>      | 0,6 m (1,97 ft)  |
| <b>Sea water hose inner diameter:</b>    | 32 mm (1,26 in) | <b>Maximum raw water lift height:</b> | 2,5 m (98,43 in) |
| <b>Fuel feeding hose inner diameter:</b> | G1/8            | <b>Maximum sea water temperature:</b> | 32 °C (89,6 °F)  |
| <b>Fuel return hose inner diameter:</b>  | -               | <b>Maximum installation angle***:</b> | 15 °             |
| <b>Minimum battery capacity:</b>         | 12 V 95 Ah      |                                       |                  |

## Alternator details

|                         |            |                                       |                        |
|-------------------------|------------|---------------------------------------|------------------------|
| <b>Brand:</b>           | Meccalte   | <b>Cos φ:</b>                         | 0,8                    |
| <b>Model:</b>           | ECP32-1M/4 | <b>Tropicalized:</b>                  | Yes                    |
| <b>Regulator type:</b>  | DSR        | <b>Excitation system:</b>             | BRUSHLESS              |
| <b>Number of poles:</b> | 4          | <b>Voltage regulation accuracy**:</b> | 1%                     |
| <b>Isolation type*:</b> | H          | <b>Standards:</b>                     | EN60034-1, IEC 60034-1 |
| <b>IP protection*:</b>  | 23         | <b>Alternator type:</b>               | Synchronous            |

## Standard equipment

|  |   |
|--|---|
| Earth isolated   | Spray stop kit                          |
| Double wall injection pipes and fuel leak alarm        | Sensors certified by the rating company |
| Dual fuel filter kit                                   | Reinforced bed and silentblocks         |
| Control panel for CO-40 engine                         | 6 m wiring extension                    |
| Documentation: manual, test, declaration of conformity | Packaging                               |
| Belt protection  | Oil extraction pump                     |

## Optional accessories

|  |  |
|--|--|
| Siphon break kit mandatory if generator is below waterline                               | Water Filters                                      |
| Engine electrical system at 24 V   | Sea water cock                                     |
| Service/Cruise Kits: fuel and oil filters, raw water pump, impeller, alternator belt,... | Welcome Kit  |
| Dry Exhaust system   | Fuel filter/water separator                        |
| Exhaust System   | Gas/Water Separator                                |
| Keel Cooling conversion for dry and wet exhaust  | Raw water hose                                     |
| Electronic regulator   | Paralel system                                     |
| Electronic actuator  | TAC certificate by serial number for generator set |
| Exhaust Hose   |  |

\* Other protections available

\*\* With load from 0 to 100%, speed variation from -2% up to +5%, power factor 0,8 linear and balanced load.

\*\*\* In all directions

For other requirements please contact the Sales Dept.



# COMAP PANEL CO 40

## General Description

- Control, monitoring and protection for marine engines (signal alternator not included)
- For Emergency, Auxiliary, Harbor and Propulsion engines
- Redundant module ID-RPU with hardwired safety functions activated in backup mode
- Switching between primary and secondary battery (with ID-RPU module)
- Connection to engine via primary J1939 and backup J1587 buses
- Event driven History record
- 14 binary inputs, 14 binary outputs, 8 analog inputs
- Slave panels for remote control
- Type approval from major certification societies
- Configuration protected by password
- Running hour indication
- Multilanguage

## ID – RPU Redundant Protection Unit

- 1 Emergency stop input
- 5 Shutdown inputs
- 1 RPM input
- Common warning and common shutdown output terminals
- Stop solenoid, fuel solenoid outputs
- Redundant power supply
- I/O broken wire detection

## Technical data

- Power supply: Nominal power supply 24 VDC
- Power supply range 6 - 36 VDC
- Current consumption (depends on supply voltage)  
0,34 A at 8 VDC 0,12 A at 24 VDC 0,09 A at 36 VDC
- Battery voltage measurement tolerance 2% at 24 V
- RTC battery life-cycle 10 year
- Operating temperature -10 to +70 °C
- Storage temperature -30 to +80 °C
- Humidity 95% Without condensation
- Flash memory data retention time 10 years

## Standard Conformity

- Low Voltage Directive  
EN 61010-1:95 +A1:97
- Electromagnetic Compatibility  
EN 61000-6-2, October 2001  
EN 61000-6-4, October 2001  
IEC 60533, Ed. 2; 1999-11



## Physical

- 180 x 120 mm front panel mounted case
- Weight 800g
- Graphic black-lit LCD display 128x64 pixel resolution with icons and bar graphs
- LED status indicators / Lamp test
- Protection front panel IP65

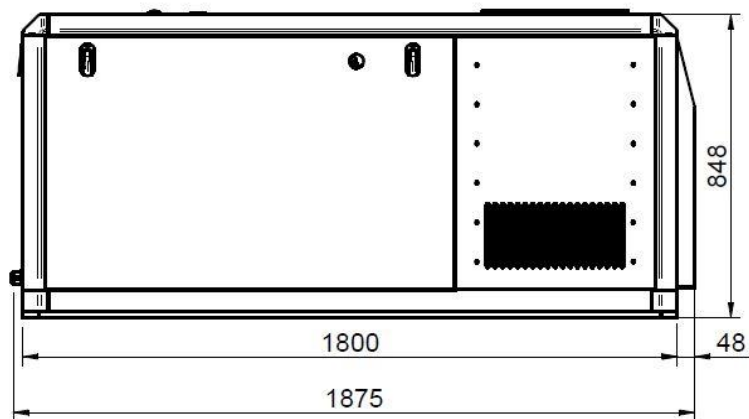
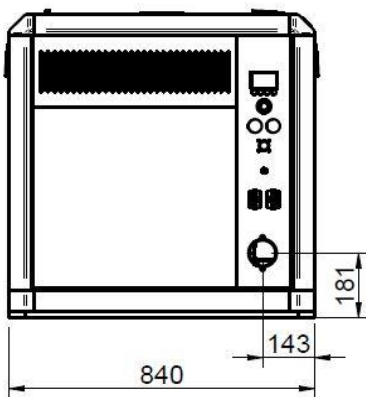
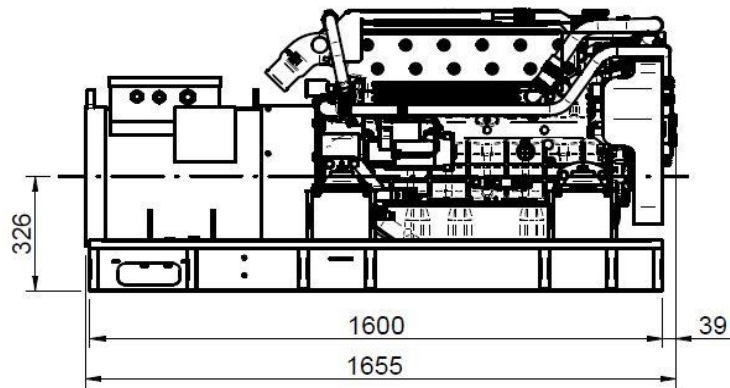
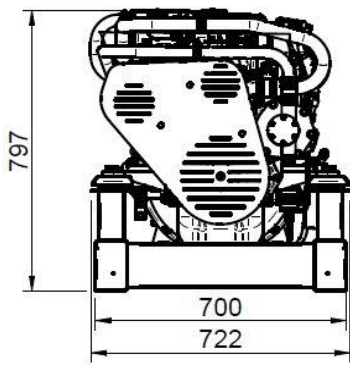
## Display information

- Oil Pressure (bar)
- Oil Temperature (°C)
- Coolant Temperature (°C)
- Coolant Pressure (bar)
- Battery Voltage (V)
- RPM
- History log

## Alarm Management

- High coolant temperature
- High oil temperature
- Fuel leakages
- Low oil pressure
- Low coolant pressure
- Overspeed
- Emergency stop
- Low battery voltage
- Maintenance request
- Sensor Fails (FLS)

## Dimensions



Authorized dealer

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