

## Emergency Balance Range

⚡ POWER (PRP / ESP):  
**100 / 110 kVA (80 / 88 kW)**

📡 FREQUENCY  
**50Hz**

⚡ VOLTAGE  
**400/230V**

🌍 EMISSIONS LEVEL:  
**EU Stage II**

Ⓢ CE CERTIFIED



**BGP 110 ST**



**BGPS 110 ST**

## 1. General technical data

### 1.1. Version, dimensions and weight

| Version                                   | Open        | Soundproofed |
|---|-------------|--------------|
| <b>Dimensions</b>                         | <b>3K1B</b> | <b>CK1B</b>  |
| L (mm)                                    | 2150        | 2667         |
| W (mm)                                    | 1100        | 1122         |
| H (mm)                                    | 1712        | 1715         |
| Weight with liquids and without fuel (kg) | 1225        | 1510         |

### 1.2. Main technical data

|   |                             |     |
|---|-----------------------------|-----|
| <b>Engine</b>                             | <b>PERKINS 1104C-44TAG2</b> |     |
| <b>Alternator</b>                         | <b>STAMFORD UCI274C</b>     |     |
| Fuel                                      | Diesel                      |     |
| Type of execution                         | G3                          |     |
| Control panel                             | DSE 6120 MKIII              |     |
| Fuel tank (l)                             | 238                         | 238 |
| Sound level-Lp(A) (dB(A)@1m) <sup>1</sup> | N/A (Indoor)                | 78  |
| Sound level-Lp(A) (dB(A)@7m) <sup>1</sup> | N/A (Indoor)                | 70  |
| Sound power-LW(A) (dB(A))                 | N/A (Indoor)                | 95  |

<sup>1</sup>The sound levels may vary depending on the measurement conditions.

| Voltage  | PRP <sup>2</sup> (KVA/KW) | ESP <sup>2</sup> (KVA/KW) | PRP Amperage (A) | ESP Amperage (A) |
|----------|---------------------------|---------------------------|------------------|------------------|
| 400/230V | <b>100 / 80</b>           | <b>110 / 88</b>           | <b>144,3</b>     | <b>158,8</b>     |

<sup>2</sup>PRP: Continuous power ("Prime Power"). ESP: Emergency Standby Power according to ISO8528-1.

**Tolerance of maximum active power (kW) ±5%**

## **i** Directives and Regulations

**ENVIRONMENTAL CONDITIONS STANDARD ISO 8528-1:2018: 25°C, 100kPa and 30% relative humidity:**

- **Prime Power (PRP):** Data on electrical power available at variable load without limit of hours per year. An overload of 10% is allowed for 1h out of 12. According to ISO 8528-1:2018.
- **Emergency Standby Power (ESP):** Data on electrical capacity available at variable load in case of emergency according to ISO 8528-1:2018.

**The DAGARTECH Generator bears the CE marking which includes the following directives:**

- **2006/42/EC.** Machine Safety Directive.
- **EN ISO 8528-13:2016.** Part 13: Safety. Alternating current generators powered by reciprocating internal combustion engines.
- **2014/30/EU.** Electromagnetic Compatibility Directive.
- **2000/14/EC.** Noise Emissions Directive. Sound power levels evaluated in accordance with the procedure laid down in the directive.
- **Directive 2011/65/EU** on the restriction of the use of certain hazardous substances in electrical and electronic equipment (RoHS 2).

\* Confirm the height of the equipment. This value may vary depending on whether a lifting beam is included in the standard scope of supply.

## 2. Engine specifications

| 400/230V · 50Hz (1500 rpm)                       |                                     | BGP 110 ST           |      | BGPS 110 ST  |     |      |     |
|--|-------------------------------------|----------------------|------|--------------|-----|------|-----|
| <b>2.1. General technical data of the engine</b> | Version                             | Open                 |      | Soundproofed |     |      |     |
|  | Make and model                      | PERKINS 1104C-44TAG2 |      |              |     |      |     |
|  | Emissions                           | EU Stage II          |      |              |     |      |     |
|  | r.p.m.                              | 1500                 |      |              |     |      |     |
|  | Maximum ESP power (kWm)             | 97,9                 |      |              |     |      |     |
|  | Power PRP (kWm)                     | 89                   |      |              |     |      |     |
|  | Fuel                                | Diesel               |      |              |     |      |     |
|  | No. of cylinders                    | 4                    |      |              |     |      |     |
|  | Cylinder capacity (c.c.)            | 4400                 |      |              |     |      |     |
|  | Compression ratio                   | 18,3:1               |      |              |     |      |     |
|  | Cooling system                      | Water-cooled         |      |              |     |      |     |
|  | Type of regulation                  | Electronic           |      |              |     |      |     |
| Type of engine/injection/suction                 | Diesel / direct / Turbocharged      |                      |      |              |     |      |     |
| <b>2.2. Fuel</b>                                 | Type of fuel                        | Diesel               |      |              |     |      |     |
|  | Fuel tank capacity                  | 238                  |      | 238          |     |      |     |
| <b>2.3. Consumption and autonomy</b>             |                                     | Open                 |      | Soundproofed |     |      |     |
|  |                                     | Consumption (l/h)    |      | Autonomy (h) |     |      |     |
|  |                                     | PRP                  | ESP  | PRP          | ESP | PRP  | ESP |
|  | <b>50%</b>                          | 11,8                 | -    | 20,2         | -   | 20,2 | -   |
|  | <b>75%</b>                          | 17,1                 | -    | 13,9         | -   | 13,9 | -   |
|  | <b>100%</b>                         | 22,6                 | 24,9 | 10,5         | 9,6 | 10,5 | 9,6 |
| <b>2.4. Cooling system</b>                       | Version                             | Open                 |      | Soundproofed |     |      |     |
|  | Fan flow (m³/min)                   | 165,6                |      | 165,6        |     |      |     |
|  | Radiator back pressure (kPa)        | 200                  |      | 200          |     |      |     |
|  | Fan power consumption (kW)          | N/A                  |      |              |     |      |     |
|  | Total refrigerant capacity (l)      | 12,6                 |      |              |     |      |     |
| <b>2.5. Lubrication system</b>                   | Oil capacity (l)                    | 8                    |      |              |     |      |     |
|  | Oil consumption (%)                 | 0,15                 |      |              |     |      |     |
| <b>2.6. Intake system</b>                        | Combustion air intake flow (m³/min) | 6                    |      |              |     |      |     |

| 400/230V · 50Hz (1500 rpm)       |  | BGP 110 ST  | BGPS 110 ST         |
|----------------------------------|--|-------------|---------------------|
| <b>2.7. Starter system</b>       | <i>Version</i>                         | <b>Open</b> | <b>Soundproofed</b> |
|                                  | No. of batteries                       | 1           |                     |
|                                  | Battery characteristics                | 12V 60Ah    |                     |
|                                  | Start-up voltage (V)                   | 12V         |                     |
| Common data for both versions    |  |             |                     |
| <b>2.8. Exhaust system</b>       | Exhaust gas flow (m <sup>3</sup> /min) | 15,2 [PRP]  | 16,3 [ESP]          |
|                                  | Exhaust gas temperature (°C)           | 514 [PRP]   | 543 [ESP]           |
|                                  | <i>Version</i>                         | <b>Open</b> | <b>Soundproofed</b> |
|                                  | Exhaust outside diameter (mm)          | 3" (Ø 76,2) | 3" (Ø 76,2)         |
|                                  | Exhaust attenuation level (dB(A))      | -10         | -25                 |
| Max. exhaust back pressure (kPa) | 15                                     |             |                     |

Radiator level sensor not available for Baudouin 4M06 series engines.

### 3. Alternator specifications

| <b>3.1. General technical data of the alternator</b> | <i>Version</i> | <b>Open</b>             | <b>Soundproofed</b> |             |
|--|----------------|-------------------------|---------------------|-------------|
|  | Make and model | <b>STAMFORD UCI274C</b> |                     |             |
| No. of poles   | 4              |                         |                     |             |
| Insulation class                                     | H              |                         |                     |             |
| No. of threads                                       | 12             |                         |                     |             |
| Mechanical protection index                          | IP23           |                         |                     |             |
| Voltage Regulator (AVR)                              | AS440          |                         |                     |             |
| Voltage regulation                                   | ±1%            |                         |                     |             |
| ESP power 27°C (kVA)                                 | 110            |                         |                     |             |
| Power PRP 40°C (kVA)                                 | 100            |                         |                     |             |
| No. of phases  | 3              |                         |                     |             |
| Power factor (cos φ)                                 | 0,8            |                         |                     |             |
| Performance η (%)                                    |                |                         |                     |             |
|  | <b>50%</b>     | <b>75%</b>              | <b>100%</b>         | <b>110%</b> |
|  | 92,2%          | 91,5%                   | 90,3%               | 89,8%       |

**i** Standard regulations that the alternator meets:

AS 1359 | IEC 34-11 | BS EN 60034-1 | VDE 0530 | BS 5000 | CAN/CSA-C22.2-100 | NEMA MG1-32

**Low wave distortion: THD (100% load) = 2% | THF < 2%**

Complies with: EN61000-6-3, EN61000-6-2 regarding radio interference.

400/230V · 50Hz (1500 rpm)

BGP 110 ST

BGPS 110 ST

## 4. Bench Specifications

- Unit mounted on **electro-welded high-resistance steel bench**, painted with epoxy-polyester powder paint.
- Connection of the assembly to the bench by means of **anti-vibration dampers**.
- **Fuel tank located on the bench itself**. The engine is equipped with a measuring gauge and fuel system.
- **Tested in a salt spray chamber according to ASTM B-117-09, resistance 500h**.

## 5. Soundproof Canopy Specifications



The canopy is part of the scope of supply of the soundproof generator sets. Open generators do not include a canopy.

- **Electro-welded canopy made of high resistance galvanized steel** painted with electrostatic epoxy-polyester powder
- Interior soundproofing by means of a **lining with soundproofing material**.
- **Attenuation silencer -25dB(A)** for the evacuation of gases to the outside with protective cover.
- **Tested in a salt spray chamber according to ASTM B-117-09, resistance 720H. IP44 mechanical protection degree**.

**THE CANOPIES OF THE EMERGENCY BALANCE RANGE ARE MADE OF HIGH-RESISTANCE GALVANIZED STEEL AND ARE ELECTRO-WELDED AND PAINTED WITH ELECTROSTATIC EPOXY-POLYESTER POWDER PAINT.**



In addition, they are equipped with a **coating with noise-insulating material** (polyurethane foam with outer veil). We also incorporated a **silencer attenuation device for the evacuation of gases to the outside**, featuring a rain cap.

*Our canopies are tested in a salt spray chamber according to standard **ASTM B-117-09** (resistance 720H. **IP44 mechanical protection grade**).*

## 6. Control panel

### 6.1. Main elements of the control panel

- Protection panel, distribution with **automatic control module** which allows you to work in manual, automatic or signal mode.
- **Push button** for **emergency stop**.
- **Deep Sea Electronics battery charger**, designed to be permanently connected to the battery and maintain 100% of the charge. The charger switches to float mode when charging is complete:

|       |                  |
|-------|------------------|
| Model | DSE 9150 12V, 3A |
|-------|------------------|

#### Protections:

- **4-pole magnetothermic protection** against overloads and short circuits.
- **Protection fuses** for the control set.

### 6.2. Circuit breaker

|       |               |
|-------|---------------|
| Model | Chint 160A 4P |
|-------|---------------|

### 6.3. Control module



|  |
|--|
| <ol style="list-style-type: none"> <li>1. Transfer to the generator (manual mode)</li> <li>2. Start engine (manual mode)</li> <li>3. Silence alarm</li> <li>4. Automatic mode</li> <li>5. Test mode</li> <li>6. Manual mode</li> <li>7. Genset stop</li> <li>8. MAIN NETWORK transfer (manual mode)</li> <li>9. Navigation keyboard</li> <li>10. Main status and instrument display</li> </ol> |
|--|

|       |                |
|-------|----------------|
| Model | DSE 6120 MKIII |
|-------|----------------|

The DSE 6120 MKIII is an Automatic Mains Failure (AMF) control module designed for use in a wide range of applications with diesel or gas generators. Upon detecting a power supply interruption, it automatically starts the generator and shuts it down once the mains power is restored. It also allows operation in manual and test modes.

This module allows monitoring of multiple engine parameters and displays alerts, statuses, and alarms on a backlit LCD screen. It is compatible with both electronic (CAN) and non-electronic engines, offering configurable inputs and outputs to suit various needs. Additionally, it includes USB communication and allows expansion via DSENet<sup>®</sup>.

Its configuration is straightforward and can be done using the DSE Configuration Suite software or directly from its front panel. It also features advanced functionalities such as event and performance monitoring, remote communications, and PLC programming capabilities.

The module dimensions are 216 mm x 158 mm x 43 mm, with a panel cutout of 184 mm x 137 mm and a maximum panel thickness of 8 mm. It is an ideal solution for applications that require reliable control and monitoring of the generator.

#### **i** Environmental Tests that the module passes:

BS EN 61000-6-2 (electromagnetic compatibility) | BS EN 61000-6-4 (electromagnetic compatibility) | BS EN 60950 (electrical safety) | BS EN 61000-6-2 (temperature) | BS EN 60068-2-6 (vibrations) | BS EN 60068-2-27 (shock)

400/230V - 50Hz (1500 rpm)

PERKINS 1104C-44TAG2 | STAMFORD UCI274C

### 6.3. Control module


**Standard** ✓

**Option** □

*Model*
**DSE 6120 MKIII**
**DSE 7320 MKII**

#### Operating modes

|             |   |   |
|-------------|---|---|
| STOP mode   | ✓ | ✓ |
| MANUAL mode | ✓ | ✓ |
| TEST mode   | ✓ | ✓ |
| AUTO mode   | ✓ | ✓ |

#### Module configuration options

|    |   |   |
|----|---|---|
| PC | ✓ | ✓ |
|----|---|---|

#### Generator readings

|  |   |   |
|--|---|---|
| Generator voltage (F-F)                          | ✓ | ✓ |
| Generator voltage (F-N)                          | ✓ | ✓ |
| Generator current (A)                            | ✓ | ✓ |
| Generator frequency                              | ✓ | ✓ |
| Generator load F-N (kW / kVA / kVAr)             | ✓ | ✓ |
| Total generator load (kW / kVA / kVAr)           | ✓ | ✓ |
| Average generator power factor                   | ✓ | ✓ |
| Accumulated generator load (kW, kVAh, kWh, kVAh) | ✓ | ✓ |

#### Network readings

|                                      |   |   |
|--------------------------------------|---|---|
| Network voltages (ph-N)              | ✓ | ✓ |
| Network voltages (ph-ph)             | ✓ | ✓ |
| Grid frequency                       | ✓ | ✓ |
| Network current (A)                  | □ | □ |
| Network load ph-N (kW / kVA / kVAr)  | □ | □ |
| Total network load (kW / kVA / kVAr) | □ | □ |

#### Engine readings

|                      |   |   |
|----------------------|---|---|
| Coolant temperature  | ✓ | ✓ |
| Oil pressure         | ✓ | ✓ |
| Engine fuel level    | ✓ | ✓ |
| Engine battery volts | ✓ | ✓ |
| Engine speed         | ✓ | ✓ |
| Engine run time      | ✓ | ✓ |

#### Caption

- ✓ Included
- Optional
- ✗ Not available
- ⓘ Consult

Readings available at control module level.

**Confirm the availability of these readings for this generator and engine.**

Ask us for further readings in generating sets equipped with electronically managed engines and DSE 7320MKII control module.



**DO YOU WANT A SUPERIOR PERFORMANCE CONTROL MODULE?**

Contact us and tell us what you need.

400/230V - 50Hz (1500 rpm)

PERKINS 1104C-44TAG2 | STAMFORD UCI274C

### 6.3. Control module


**Standard** 

DSE 6120 MKIII


**Option** 

DSE 7320 MKII

Model

#### Engine protections

|                                   |                                     |                                     |
|-----------------------------------|-------------------------------------|-------------------------------------|
| High water temperature            | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |
| Low oil pressure                  | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |
| Low water level                   | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |
| Fuel reserve by sensor            | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |
| Second fuel tank control          | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |
| Shutdown failure                  | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |
| Battery voltage failure           | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |
| Battery charge alternator failure | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |
| Overspeed                         | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |
| Underfrequency                    | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |
| Failure to start                  | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |
| Emergency stop                    | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |
| Maintenance notice                | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |
| Maintenance Alert                 | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |
| Low load operation warning        | <input type="checkbox"/>            | <input type="checkbox"/>            |

#### Alternator protections

|                          |                                     |                                     |
|--------------------------|-------------------------------------|-------------------------------------|
| High frequency           | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |
| Low frequency            | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |
| High voltage             | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |
| Low voltage              | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |
| Short circuit            | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |
| Asymmetry between phases | <input type="checkbox"/>            | <input type="checkbox"/>            |
| Incorrect phase sequence | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |
| Reverse power            | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |
| Breaker Trip 4 poles     | <input type="checkbox"/>            | <input type="checkbox"/>            |
| Overpressure alarm       | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |

#### Counters

|                 |                                     |                                     |
|-----------------|-------------------------------------|-------------------------------------|
| Hour meter      | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |
| Kilowatt meter  | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |
| Starter counter | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |

#### Caption

- Included
- Optional
- Not available
- Consult

Readings available at control module level.

**Confirm the availability of these readings for this generator and engine.**

Ask us for further readings in generating sets equipped with electronically managed engines and DSE 7320MKII control module.


**DO YOU WANT A SUPERIOR PERFORMANCE CONTROL MODULE?**

Contact us and tell us what you need.

### 6.3. Control module


**Standard** ✓

**DSE 6120 MKIII**

**Option** □

**DSE 7320 MKII**

| Model                                     | DSE 6120 MKIII           | DSE 7320 MKII            |
|---|--------------------------|--------------------------|
| <b>Communications</b>                     |                          |                          |
| RS232                                     | ✗                        | ✓                        |
| RS485                                     | ✗                        | ✓                        |
| USB communication port                    | ✓                        | ✓                        |
| Modbus IP                                 | □ DSE 855/890/891        | □ DSE 855/890/891        |
| Modbus RS 485                             | □ DSE 855/890/891        | ✓                        |
| PC Software (Mimic)                       | ✓                        | ✓                        |
| GSM/GRPS MODEM                            | □ DSE 890                | □ DSE 890                |
| Remote display < 1km                      | ✗                        | □ DSE 2520               |
| Remote monitoring                         | □ DSE 855/890            | □ DSE 855/890            |
| Input expansion                           | □ DSE 2130 8 inputs      | □ DSE 2130 8 inputs      |
| Input expansion (Thermocouple)            | □ DSE 2133               | □ DSE 2133               |
| Output expansion                          | □ DSE 2152/2157 8 inputs | □ DSE 2152/2157 8 inputs |
| Status LED expansion                      | □ DSE 2548               | □ DSE 2548               |
| SNMP protocol                             | □ DSE 892                | □ DSE 892                |
| <b>Services</b>                           |                          |                          |
| Configurable alarm history                | 250                      | 250                      |
| External start                            | ✓                        | ✓                        |
| Start-up inhibition                       | □                        | □                        |
| Network Failure Start                     | ✓                        | ✓                        |
| Activation of group counter               | ✓                        | ✓                        |
| Activation of grid and group counter      | ✓                        | ✓                        |
| Control of fuel transfer                  | ✓                        | ✓                        |
| Motor temperature control                 | ✓                        | ✓                        |
| Forced group operation                    | ✓                        | ✓                        |
| Free programmable alarms                  | ✓                        | ✓                        |
| Group start function in test mode         | ✓                        | ✓                        |
| Free programmable outputs                 | ✓                        | ✓                        |
| Multilingual                              | ✓                        | ✓                        |
| <b>Special applications</b>               |                          |                          |
| GPS localisation                          | □ DSE 890                | □ DSE 890                |
| Calendar scheduler                        | ✓                        | ✓                        |
| DSE configuration suite via PC            | ✓                        | ✓                        |
| Front panel module configuration with PIN | ✓                        | ✓                        |
| Alternative work                          | ✗                        | ✓                        |
| Programmable PLC                          | ✓                        | ✓                        |
| Power save mode                           | ✓                        | ✓                        |
| Alternative configurations                | ✓                        | ✓                        |
| Dummy load control / load shedding        | ✗                        | ✓ 5 Stage dummy load     |

**Caption**

- ✓ Included
- Optional
- ✗ Not available
- ⓘ Consult

Readings available at control module level.

**Confirm the availability of these readings for this generator and engine.**

**Ask us for further readings** in generating sets equipped with electronically managed engines and DSE 7320MKII control module.


**DO YOU WANT A SUPERIOR PERFORMANCE CONTROL MODULE?**

Contact us and tell us what you need.

400/230V - 50Hz (1500 rpm)

PERKINS 1104C-44TAG2 | STAMFORD UCI274C

## 7. Detailed supply scope

### Engine

PERKINS 1104C-44TAG2, EU STAGE II, 1500 RPM, WATER-COOLED, WITH ELECTRONIC REGULATION ENGINE.

- 4-cylinder inline Diesel engine, 4-stroke with Electronic fuel regulation by means of a fuel pump, original from the manufacturer.
- Equipped with direct injection and Turbocharged suction system. Original manufacturer's particle separator filter.
- Industrial exhaust gas silencer of -10 dB(A).  INCLUDED
- Residential exhaust silencer of -25 dB(A).  INCLUDED
- Refrigeration through cooling liquid, fully distributed in the closed circuit run by an engine driven pump, tropicalised radiator, original from the engine manufacturer.
- Crankshaft-driven pump lubrication system. The filter is a full-flow insert cartridge, front housing, original from the engine manufacturer.
- Air intake system for turbo-fed combustion with two-stage filter, original from the engine manufacturer.
- Electric motor starting system, battery (no maintenance) with disconnecter and load alternator driven by the 12V starter, original elements from the engine manufacturer.
- Protection from hot and moving parts.

### Alternator

STAMFORD UCI274C ALTERNATOR OF 12 WIRES AND 4 POLES, BRUSHLESS AND WITH ELECTRONIC VOLTAGE REGULATION TYPE AVR (AS440).

- With IP23 protection class and H insulation class.
- Brushless 4-pole alternator. Robust mechanical structure with easy access to connections and components. H insulation class, coil pitch 2/3 and self-excited AVR. IP23 protection degree.
- Protection with premium epoxy resins. High voltage parts are impregnated under vacuum, which always means very good insulation.

**Do you have any queries about the supply?**  
Get in touch with us.



Caption: .....



INCLUDED IN OPEN GENERATOR SETS



INCLUDED IN SILENT GENERATOR SETS

400/230V - 50Hz (1500 rpm)

PERKINS 1104C-44TAG2 | STAMFORD UCI274C

## Bench

- Bench made of high-strength electro-welded steel.
- Painted with electrostatic epoxy-polyester powder paint.
- Anti-vibration dampers from the engine block to the bedplate.
- Fuel tank included on the bench itself. Equipped with cleaning record to facilitate maintenance work.
- With measuring gauge and installation of fuel to the engine.
- Liquid drainage connection to the outside.
- **Bench tested in a salt spray chamber according to ASTM B-117-09 (500h resistance).**

## Soundproofed canopy (not included in open models)

- Electro-welded canopy of high resistance galvanized steel.
- Painted with electrostatic epoxy-polyester powder paint.
- Interior soundproofing by means of coating with noise-insulating material (polyurethane foam with outer veil).
- With IP44 mechanical protection level.
- **Canopy tested in salt spray chamber according to ASTM B-117-09 (resistance 720h).**

## Control panel

- **DeepSea Electronics automatic control module, DSE 6120 MKIII which allows you to work in manual, automatic or signal mode.**
  - It offers multiple event logging and is fully configurable through DeepSea Electronics' free-access specific configuration software.
  - Three-phase network and group detection with measurement for configurations upon network failure.
- **DSE 9150 12V, 3A DeepSea Electronics battery charger.**
  - Designed to be permanently connected to the battery and maintain 100% of the charge. The charger switches to float mode when charging is complete.
- **Protections:**
  - 4-pole magnetothermic protection against overloads and short circuits.
  - Protection fuses for the control set.

400/230V - 50Hz (1500 rpm)

PERKINS 1104C-44TAG2 | STAMFORD UCI274C

## 7. Detailed supply scope

### Other equipment

- Interior fuel filling nozzle.
- Tropicalised Radiator for work at 50 °C\*
- Prepared for maintenance intervals every 500 hours\*.
- Push button for emergency stop.
- Reinforced pole centrally-mounted from 90 kVA (Optional for models below 90kVA).

## 8. Featured options available



### Kit 1: Network failure

Adding an **engine heater** to your generator will ensure that your genset starts smoothly in the event of any failure in the electrical network, and without cold or moisture becoming an issue.



The readings and alarm kit is included within the standard supply scope of the equipment starting from 275kVA of power.

### Kit 2: Readings and alarm<sup>1</sup>

Your generator can provide you with very useful information in the event of any malfunction, maintenance work, or simply during its operation. If this is an important aspect for you, do not hesitate to include this kit in its equipment, which includes:

- Radiator level alarm sensor.
- Oil pressure reading sensor.
- Temperature reading sensor.

<sup>1</sup>Radiator level probe not available for Baudouin 4M06 series engines..



### Kit 3: Exhaust installation

If you need a **versatile solution for venting gases from your installation to the outside**, choose this kit, equipped with 2 clamps and 3 meters of galvanized steel flexible hose.



✓ AVAILABLE FOR OPEN GENERATOR SETS



Check the availability of these options according to the model, and if you don't find what you're looking for, contact us. We have many more options to offer you.

\* Consult the specification according to the model.

<sup>1</sup>Maintenance intervals may vary depending on the climate and working conditions.

## 9. Even more options



24 hour tank


 External ROTH tanks  
 DUO SYSTEM

### AUTONOMY OPTIONS

**Increase the autonomy of your generator up to 48 hours, including special tanks**

You can choose between different integrated tanks to increase the autonomy of the unit up to 48 hours of operation. You can also incorporate automatic fuel transfer systems for supply from external tanks.

#### — External tanks:

- External tank 400 l (ROTH DUO SYSTEM).
- External tank 620 l (ROTH DUO SYSTEM).
- External tank 1,000 l (ROTH DUO SYSTEM).
- External tank 1,500 l (ROTH DUO SYSTEM).



Fuel particle separator filter

### ENGINE - ALTERNATOR OPTIONS

You can choose between different integrated tanks to increase the autonomy of the unit up to 48 hours of operation. You can also incorporate automatic fuel transfer systems for supply from external tanks.

- Electronic engine regulation/management (for models with mechanical regulation).
- Fuel particle separator filter.
- Manual oil drainage pump.
- 6-way fuel valve kit.
- Alternator anti-condensation heaters.
- Superior alternator impregnation systems.
- AVR MX341 + PMG  $\pm$  1% STAMFORD.
- AVR MX321 + PMG  $\pm$  0.5% STAMFORD.
- Alternator Extra Prive (for generator sets with MECC ALTE alternator).

400/230V - 50Hz (1500 rpm)

PERKINS 1104C-44TAG2 | STAMFORD UCI274C



Central lifting beam

### MECHANICAL OPTIONS

- Retention bath (see change of dimensions).
- Sensor on retention bath (requires retention bath).
- SilentBlocks for levelling.
- Damping - anti-vibration springs.
- Central lifting beam (for generators < 85kVA).
- Non-standard RAL colour:  AVAILABLE



DSE 2157



DSE 334 network surveillance

### COMMUNICATION OPTIONS

- DSE 7320 MKII control card extra price (for models with the DSE 6020 MKII control card in the standard scope of supply).
- DSE 2157 8 potential free output (requires DSE 7320MKII).
- DSE 2130 8 inputs (requires DSE 7320MKII).
- DSE 2548 8 LED diodes (requires DSE 7320MKII).
- DSE 855.
- DSE 890 webnet.
- DSE 7420 module.
- DSE 334 network surveillance.



Socomec motorised switchboard

### POWER OPTIONS

- Differential protection.
- As an option, you can include a switch cabinet attached to the generating set.
- Switching with Schneider contactors. 25 to 125 A.
- Socomec motorised switches:  $\geq 125A$ .

Caption: .....

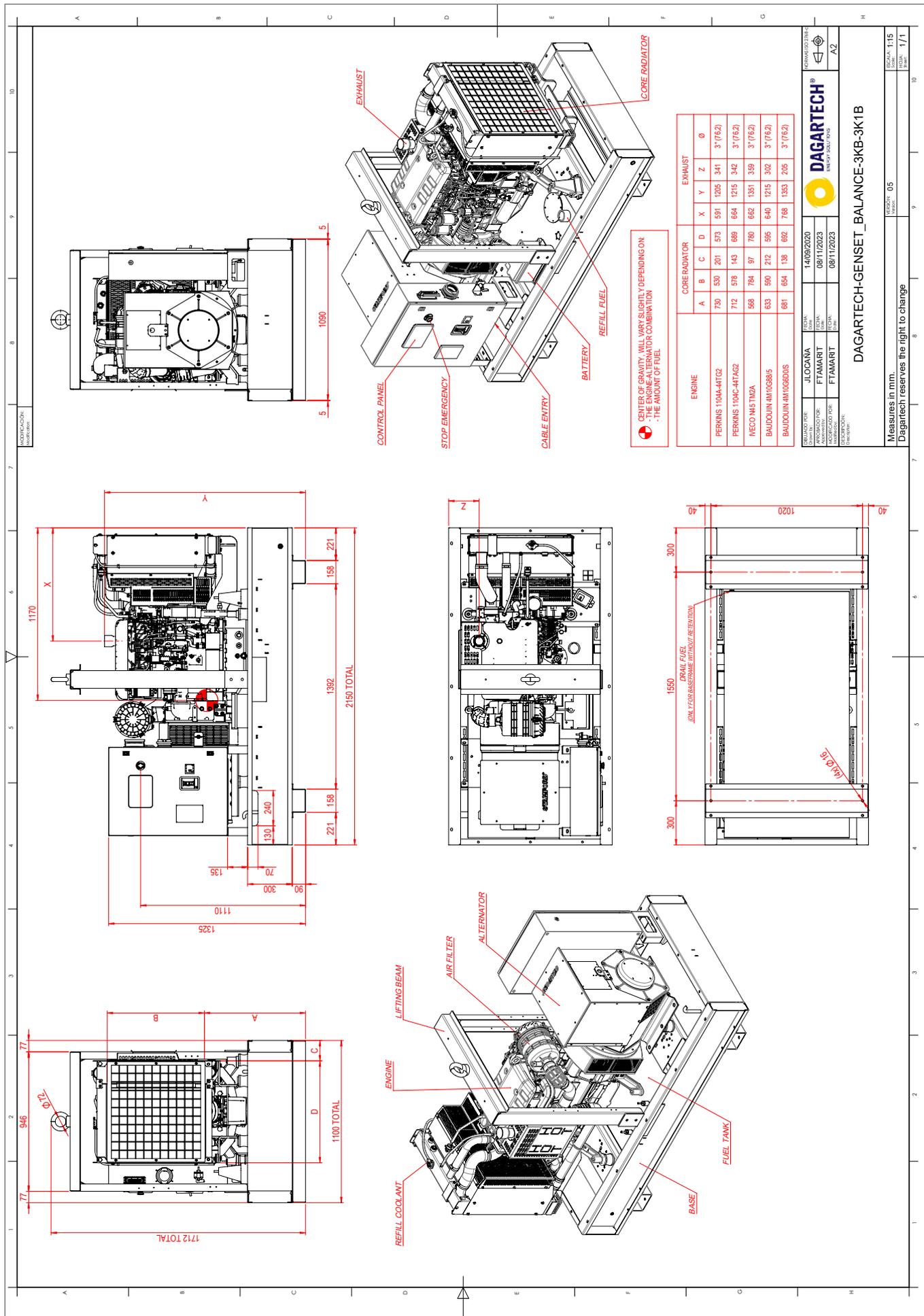


AVAILABLE IN OPEN GENERATOR SETS

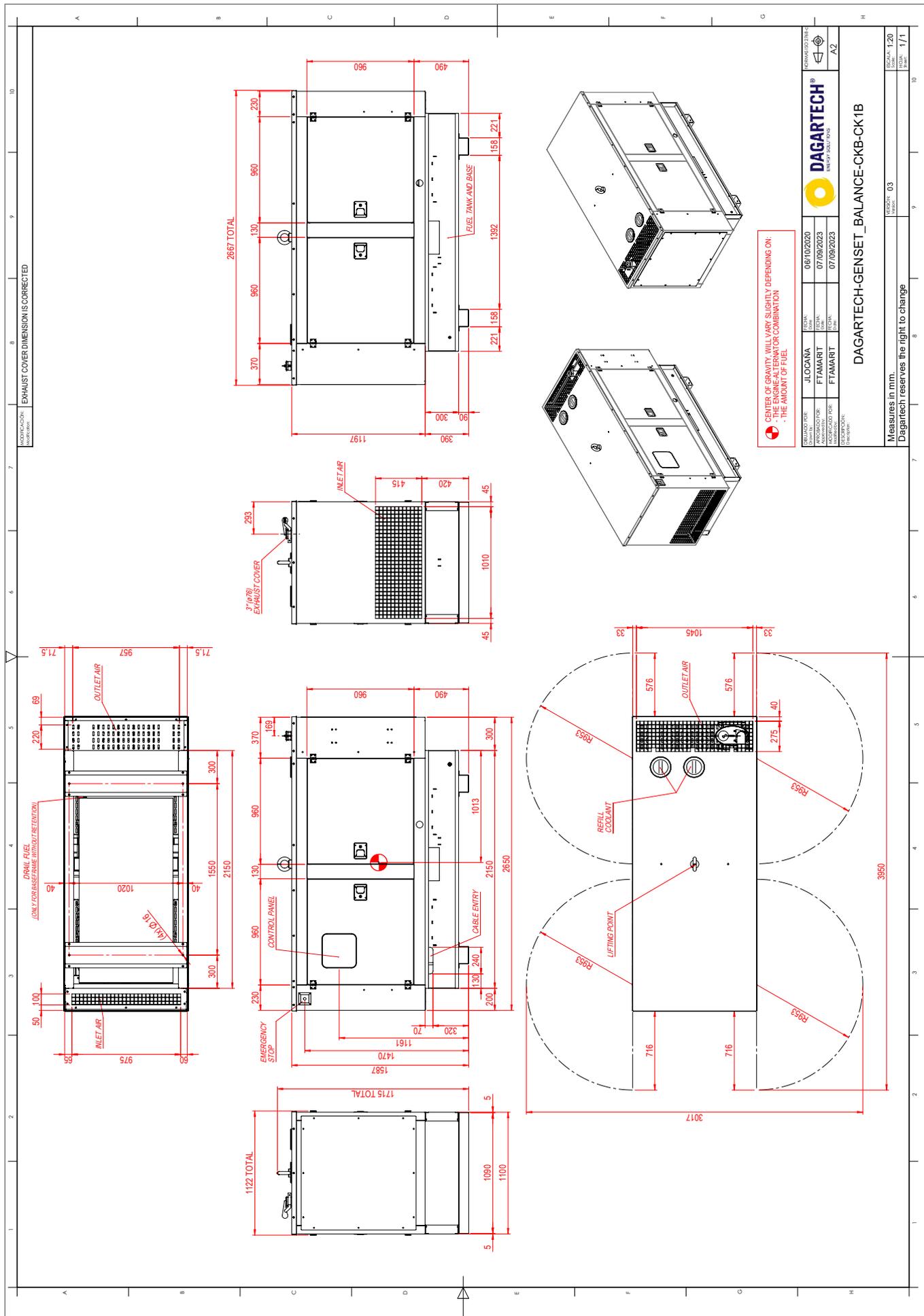


AVAILABLE IN SILENT GENERATOR SETS

V.0-2026. Last update: 13/03/2026 Technical drawing for orientation purposes. The dimensions may vary depending on the equipment. Dagartech reserves the right to modify the data in this technical sheet without prior notice.



V.0-2026. Last update: 13/03/2026 Technical drawing for orientation purposes. The dimensions may vary depending on the equipment. Dagartech reserves the right to modify the data in this technical sheet without prior notice.



⚠️ CENTER OF GRAVITY WILL VARY SLIGHTLY DEPENDING ON:  
 - THE GENERATOR/ALTERNATOR COMBINATION  
 - THE AMOUNT OF FUEL

|               |         |        |            |
|---------------|---------|--------|------------|
| REVISED FOR:  | JLOCAMA | FECHA: | 08/10/2020 |
| APROBADO POR: | FTAMART | FECHA: | 07/09/2023 |
| APROBADO POR: | FTAMART | FECHA: | 07/09/2023 |
| APROBADO POR: | FTAMART | FECHA: | 07/09/2023 |

**DAGARTECH**  
 ENERGY SOLUTIONS

**DAGARTECH-GENSET\_BALANCE-CKB-CK1B**

Measures in mm.  
 Dagartech reserves the right to change

|           |     |
|-----------|-----|
| REVISION: | 03  |
| SCALE:    | 1/1 |



¿Necesitas el plano de instalación de la **versión 24 horas**?

Do you need the technical drawing for the **24-hour version**?

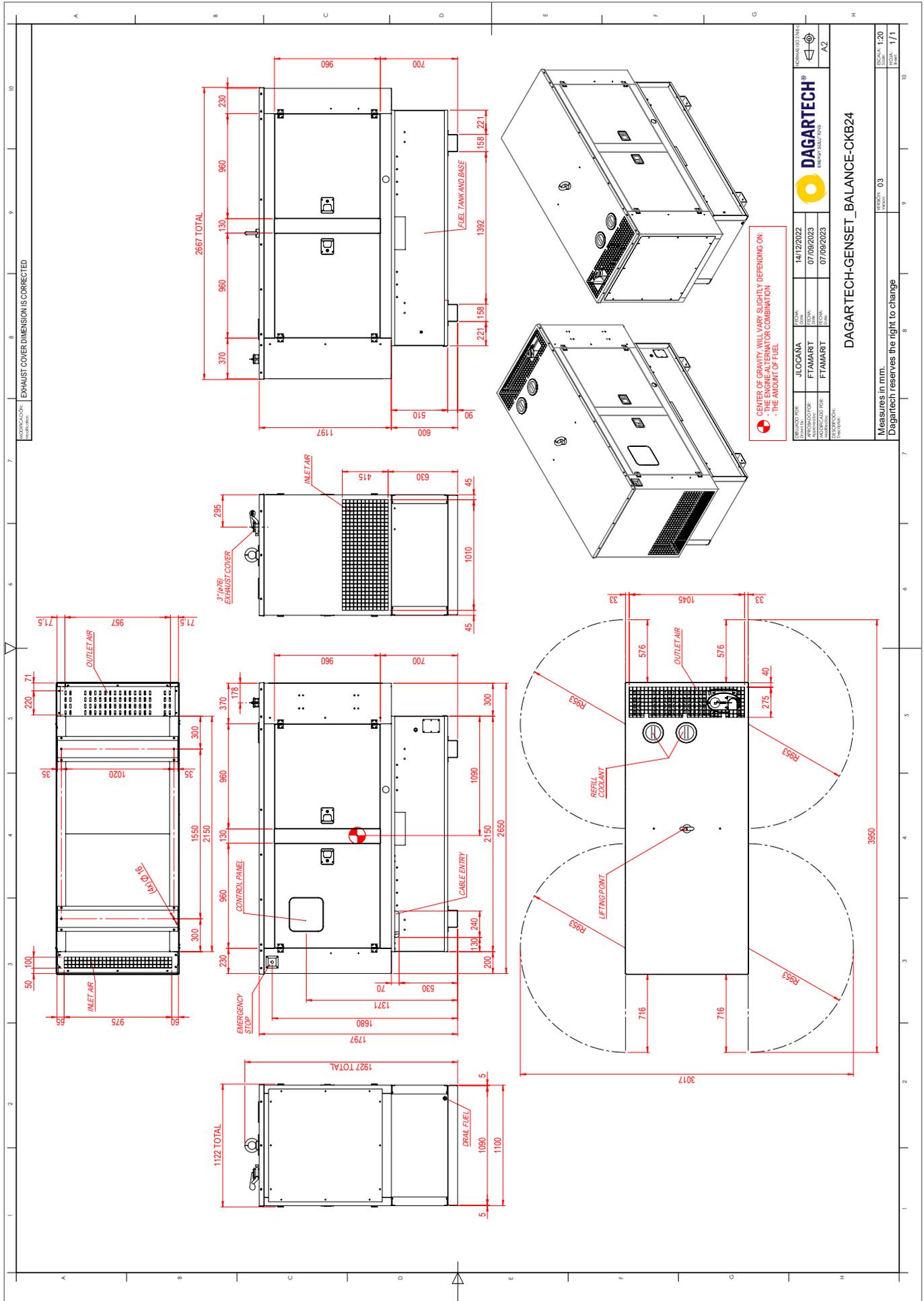
Avez-vous besoin du plan d'installation pour la **version 24 heures** ?

Necessita de plano de instalação em versão com depósito de **48 horas**?

Brauchen Sie die Installationszeichnung für die **24-Stunden-Version**?

T +34 976 141 655  
[info@dagartech.com](mailto:info@dagartech.com)

V.0-2026. Last update: 13/03/2026. Technical drawing for orientation purposes. The dimensions may vary depending on the equipment. Dagartech reserves the right to modify the data in this technical sheet without prior notice.



⚠️ CENTER OF GRAVITY WILL VARY SLIGHTLY DEPENDING ON:  
 - THE GENERATOR/ALTERNATOR COMBINATION  
 - THE AMOUNT OF FUEL

|               |         |        |            |
|---------------|---------|--------|------------|
| REVISED FOR:  | JLOCAMA | FECHA: | 14/12/2022 |
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**DAGARTECH**  
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DAGARTECH-GENSET\_BALANCE-CKB24

|  |             |
|--|-------------|
| MEASURES IN mm.                        | Scale: 1:20 |
| Dagartech reserves the right to change | Scale: 1/1  |



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