Emergency Balance Range

POWER (PRP / ESP):
318 / 348 kVA (254 / 278 kW)

FREQUENCY
60Hz

VOLTAGE
208/120V

EMISSIONS LEVEL:
EU Stage II

CE CERTIFIED

BGVW 280 ST | **BGVSW 280 ST**

1. General technical data

1.1. Version, dimensions and weight

Version	Open	Soundproofed
Dimensions	**5K1B-VB**	**EK1B-VB**
L (mm)	2975	3850
W (mm)	1400	1453
H (mm)	2075	2053
Weight with liquids and without fuel (kg)	2200	3100

1.2. Main technical data

Engine	**VOLVO TAD843GE**	
Alternator	**STAMFORD S4L1D-D**	
Fuel	Diesel	
Type of execution	G3	
Control panel	DSE 7320 MKII	
Fuel tank (l)	666	666
Sound level-Lp(A) (dB(A)@1m)[1]	N/A (Indoor)	80
Sound level-Lp(A) (dB(A)@7m)[1]	N/A (Indoor)	69
Sound power-LW(A) (dB(A))	N/A (Indoor)	97

[1]The sound levels may vary depending on the measurement conditions.

Voltage	PRP[2] (KVA/KW)	ESP[2] (KVA/KW)	PRP Amperage (A)	ESP Amperage (A)
208/120V	**318** / 254	**348** / 278	882,7	966
220/127V	**319** / 255	**347** / 278	837,2	910,6
380/220V	**311** / 249	**340** / 272	472,5	516,6
480/277V	**319** / 255	**349** / 279	383,7	419,8

[2]PRP: Continuous power ("Prime Power"). ESP: Emergency Standby Power according to ISO8528-1.
Tolerance of maximum active power (kW) ±5%

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 pole is included in the standard scope of supply.

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2. Engine specifications

208/120V · 60Hz (1800 rpm)		BGVW 280 ST	BGVSW 280 ST
2.1. General technical data of the engine	*Version*	**Open**	**Soundproofed**
	Make and model	**VOLVO TAD843GE**	
	Emissions	EU Stage II	
	r.p.m.	1800	
	Maximum ESP power (kWm)	301	
	Power PRP (kWm)	274	
	Fuel	Diesel	
	No. of cylinders	6	
	Cylinder capacity (c.c.)	7700	
	Compression ratio	17,5:1	
	Cooling system	Water-cooled	
	Type of regulation	Electronic	
	Type of engine/injection/suction	Diesel / direct / Turbocharged	
2.2. Fuel	Type of fuel	Diesel	
	Fuel tank capacity	666	666

			Open		Soundproofed	
2.3. Consumption and autonomy	**Consumption (l/h)**		**Autonomy (h)**		**Autonomy (h)**	
		PRP	**ESP**	**PRP**	**ESP**	**PRP**	**ESP**
	50%	34,9	-	19,1	-	19,1	-
	75%	49,9	-	13,3	-	13,3	-
	100%	66,5	70,6	10	9,4	10	9,4

	Version	Open	Soundproofed
2.4. Cooling system	Fan flow (m^3/s)	7,4	7,4
	Radiator back pressure (Pa)	100	100
	Fan power consumption (kW)	20	
	Total refrigerant capacity (l)	41	
2.5. Lubrication system	Oil capacity (l)	27	
	Oil consumption (N/A0)	0N/A	
2.6. Intake system	Combustion air intake flow (m^3/min)	21,8	

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<<Tension>> · <<Frecuencia>> (<<rpm>> rpm)	<<Modelo>>	<<Modelo insonorizado>>

2.7. Starter system

Version	**Open**	**Soundproofed**
No. of batteries	2	
Battery characteristics	12V 44Ah	
Start-up voltage (V)	24V	

2.8. Exhaust system

	Common data for both versions	
Exhaust gas flow (N/A)	N/A [PRP]	N/A [ESP]
Exhaust gas temperature (°C)	460 [PRP]	500 [ESP]
Version	**Open**	**Soundproofed**
Exhaust outside diameter (mm)	5" (Ø 127)	5" (Ø 127)
Exhaust attenuation level (dB(A))	-10	-25
Max. exhaust back pressure (kPa)	5	

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

3. Alternator specifications

3.1. General technical data of the alternator

Voltage	**208/120V**	**220/127V**	**380/220V**	**480/277V**
Model	**STAMFORD S4L1D-D**	**STAMFORD S4L1D-D**	**STAMFORD S4L1D-F**	**STAMFORD S4L1D-D**
No. of poles	4	4	4	4
Insulation class	H	H	H	H
No. of threads	12	12	12	12
Mechanical protection index	IP23	IP23	IP23	IP23
Voltage Regulator (AVR)	AS440	AS440	AS440	AS440
Voltage regulation	±1%	±1%	±1%	±1%
ESP power 27°C (kVA)	375	410	435	430
Power PRP 40°C (kVA)	344	370	395,8	390
No. of phases	3	3	3	3
Power factor (cos φ)	0,8	0,8	0,8	0,8

	Performance η (%)			
Voltage	**50%**	**75%**	**100%**	**110%**
<<Tension>>	94,0%	93,8%	92,8%	92,4%
220/127V	94,1%	93,8%	92,9%	92,2%
380/220V	N/A	N/A	90,6%	90,1%
480/277V	94,1%	94,0%	93,1%	92,6%

ⓘ 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.

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4. Bench Specifications

- Unit mounted on **electro-welded high-resistance steel bench**, painted with electrostatic 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 paint
- 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**).*

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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 BC2405 24V, 5A

Protections:

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

6.2. Circuit breaker

Modelo 208/120V	Chint 1000A 4P
Modelo 220/127V	Chint 1000A 4P
Modelo 380/220V	Chint 630A 4P
Modelo 480/277V	Chint 400A 4P

6.3. Control module

1. 4 configurable indicator LEDS
2. Generator on load
3. Transfer to the generator (manual mode)
4. Start engine (manual mode)
5. Silence alarm
6. Automatic mode
7. Test mode
8. Manual mode
9. Genset stop
10. MAIN NETWORK transfer (manual mode)
11. Network on load
12. Navigation keyboard
13. Main status and instrument display

Model	DSE 7320 MKII

DSE 7320 MKII DEEP SEA control card with mains grid monitor. The genset will automatically start up when detecting a fault in the electric power network and it will turn off automatically as well, when the electrical supply is re-established. It can also work in manual mode and by signal. It allows you to monitor a wide range of generator parameters and display information alerts, status and alarms.

The module includes communication ports USB , RS232, RS485,and also DSENet® for system expansion. Possibility of Ethernet networking (plug).

The entire module is easily configurable via PC using the DSE specific software configuration.

It has 132x64p illuminated LCD display with 4 lines of text, 5-key navigation through menus, 9 configurable outputs and 8 configurable inputs, programmable clocks and alarms, reading and displaying parameter values, including RMS values.

Different operating modes: AUTOMATIC mode, MANUAL mode, SIGNAL mode and TEST mode.

Other alternative configurations are available upon request to extend the capabilities of the operation modes.

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 (Vibration) | BS EN 60068- 2-30 (Humidity) | BS EN 60068--2-27 (Shock).

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208/120V · 60Hz (1800 rpm) VOLVO TAD843GE | STAMFORD S4L1D-D

6.3. Control module

Standard

Model	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.

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208/120V · 60Hz (1800 rpm) VOLVO TAD843GE | STAMFORD S4L1D-D

6.3. Control module

	Standard
Model	DSE 7320 MKII
Engine protections	
High water temperature	✓
Low oil pressure	✓
Low water level	✓
Fuel reserve by sensor	✓
Second fuel tank control	✓
Shutdown failure	✓
Battery voltage failure	✓
Battery charge alternator failure	✓
Overspeed	✓
Underfrequency	✓
Failure to start	✓
Emergency stop	✓
Maintenance notice	✓
Maintenance Alert	✓
Alternator protections	
High frequency	✓
Low frequency	✓
High voltage	✓
Low voltage	✓
Short circuit	✓
Asymmetry between phases	◉
Incorrect phase sequence	✓
Reverse power	✓
Breaker Trip 4 poles	◉
Overpressure alarm	✓
Counters	
Hour meter	✓
Kilowatt meter	✓
Starter counter	✓

Caption

✓ Included ◉ Optional
✗ Not available ⓘ Consult

Readings available at control module level.

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

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6.3. Control module

Model	Standard ✓ DSE 7320 MKII
Communications	
RS232	✓
RS485	✓
USB communication port	✓
Modbus IP	⊙ DSE 855/890/891
Modbus RS 485	✓
PC Software (Mimic)	✓
GSM/GRPS MODEM	⊙ DSE 890
Remote display < 1km	⊙ DSE 2520
Remote monitoring	⊙ DSE 855/890
Input expansion	⊙ DSE 2130 8 inputs
Output expansion	⊙ DSE 2157 8 inputs
SNMP protocol	⊙ DSE 892
Services	
Configurable alarm history	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	✓
Special applications	
GPS localisation	⊙ 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?

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7. Detailed supply scope

Engine

ENGINE VOLVO TAD843GE, EU STAGE II OF 1800 RPM, WATER-COOLED AND WITH ELECTRONIC.

- Engine Diesel of 6 cylinders in line and 4-stroke, with regulation Electronic by means of a fuel pump, original from the manufacturer.
- Injection system direct and suction Turbocharged. With particle separator filter, original from the manufacturer.
- Industrial exhaust gas silencer of -10 dB(A). INCLUDED
- Residential exhaust silencer of <<Nivel de atenuacion esc INCLUDED izado (db(A))>>dB(A).
- Refrigeration through cooling liquid, fully distributed in the closed circuit run by an engine driven pump.
- 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 manufacturer.
- Electric motor starting system, battery (no maintenance) with disconnector and load alternator driven by the starter motor 24V.
- Protection from hot and moving parts.

Alternator

ALTERNATOR STAMFORD S4L1D-D OF 12 WIRES AND 4 POLES, BRUSHLESS AND WITH ELECTRONIC VOLTAGE REGULATION TYPE AVR (AS440)

- Alternator of 4 poles, brushless. Robust mechanical structure with easy access to connections and components. Insulation class H, coil pitch 2/3 and self-excited AVR.
- With protection degree IP23 and insulation class H.
- 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?
Contact us.

Caption:

INCLUDED IN OPEN GENERATOR SETS

INCLUDED IN SILENT GENERATOR SETS

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208/120V · 60Hz (1800 rpm) VOLVO TAD843GE | STAMFORD S4L1D-D

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 from 90 kVA of power onward.
- 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 7320 MKII 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.
- **DeepSea Electronics battery charger DSE BC2405 24V, 5A.**
  - 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.

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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[1]

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:

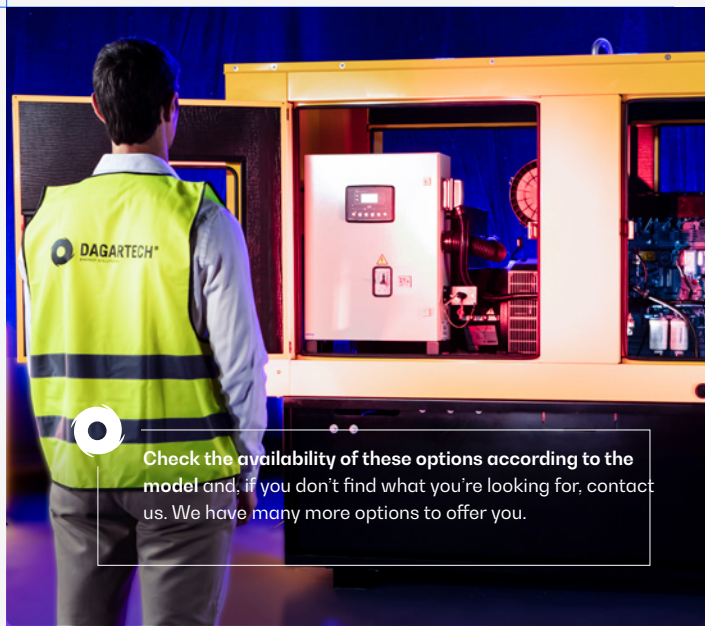
- **Radiator level alarm sensor.**
- **Oil pressure reading sensor.**
- **Temperature reading sensor.**

[1] Radiator level sensor 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 IN 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.
[1] Maintenance intervals may vary depending on the climate and working conditions.

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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 ± 1% STAMFORD.
- AVR MX321 + PMG ± 0.5% STAMFORD.
- Alternator change supplement (for units with MECC ALTE alternator).

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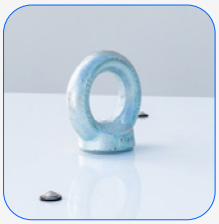

Central lifting pole

MECHANICAL OPTIONS

- Retention tray (see change of dimensions).
- Liquid leak sensor (requires retention tray).
- SilentBlocks for levelling.
- Damping - anti-vibration springs.
- Lifting pole (for generators < 85kVA).
- Non-standard RAL colou 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: ≥ 125A.

Caption:

AVAILABLE IN OPEN GENERATOR SETS

AVAILABLE IN SILENT GENERATOR SETS

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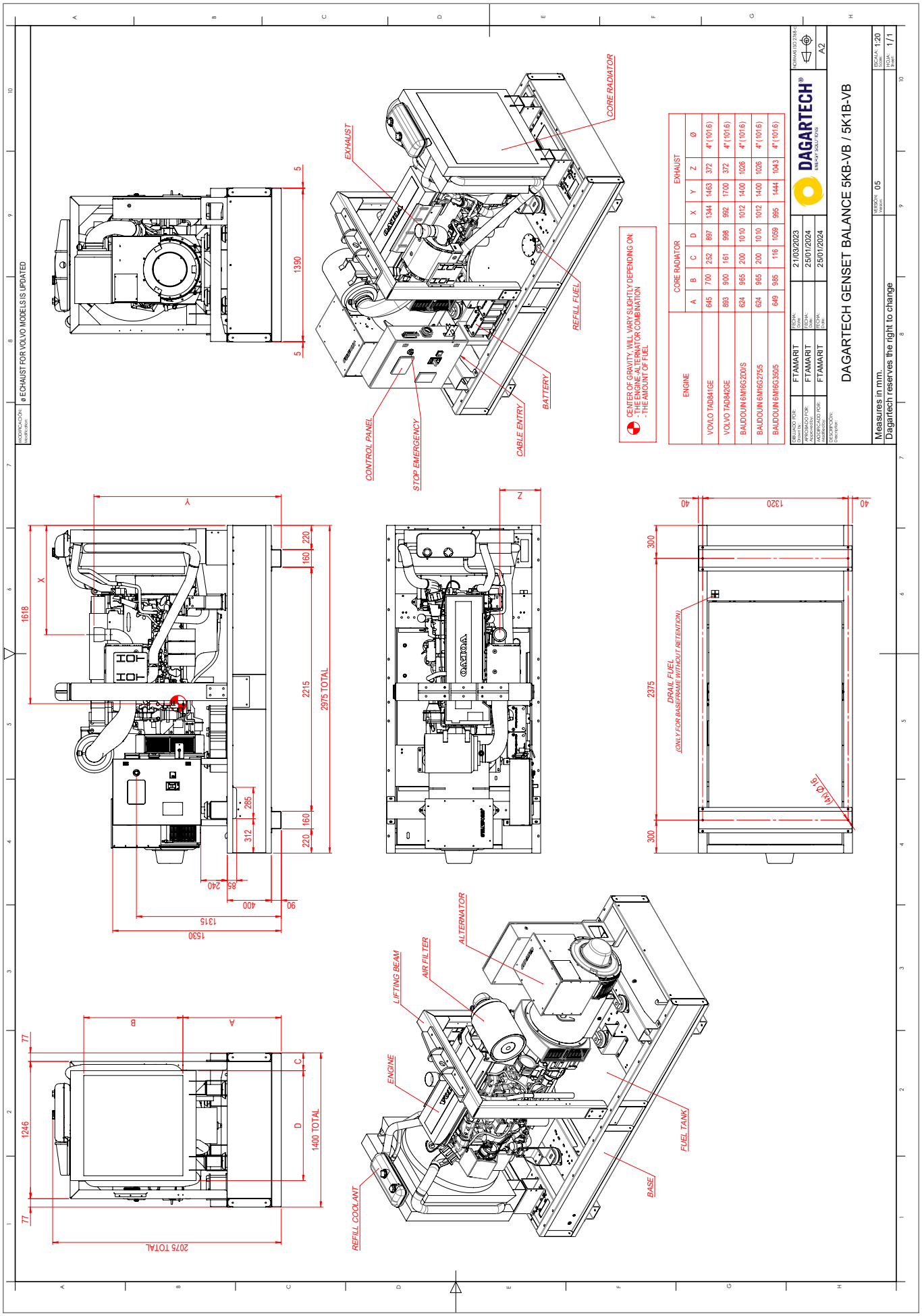
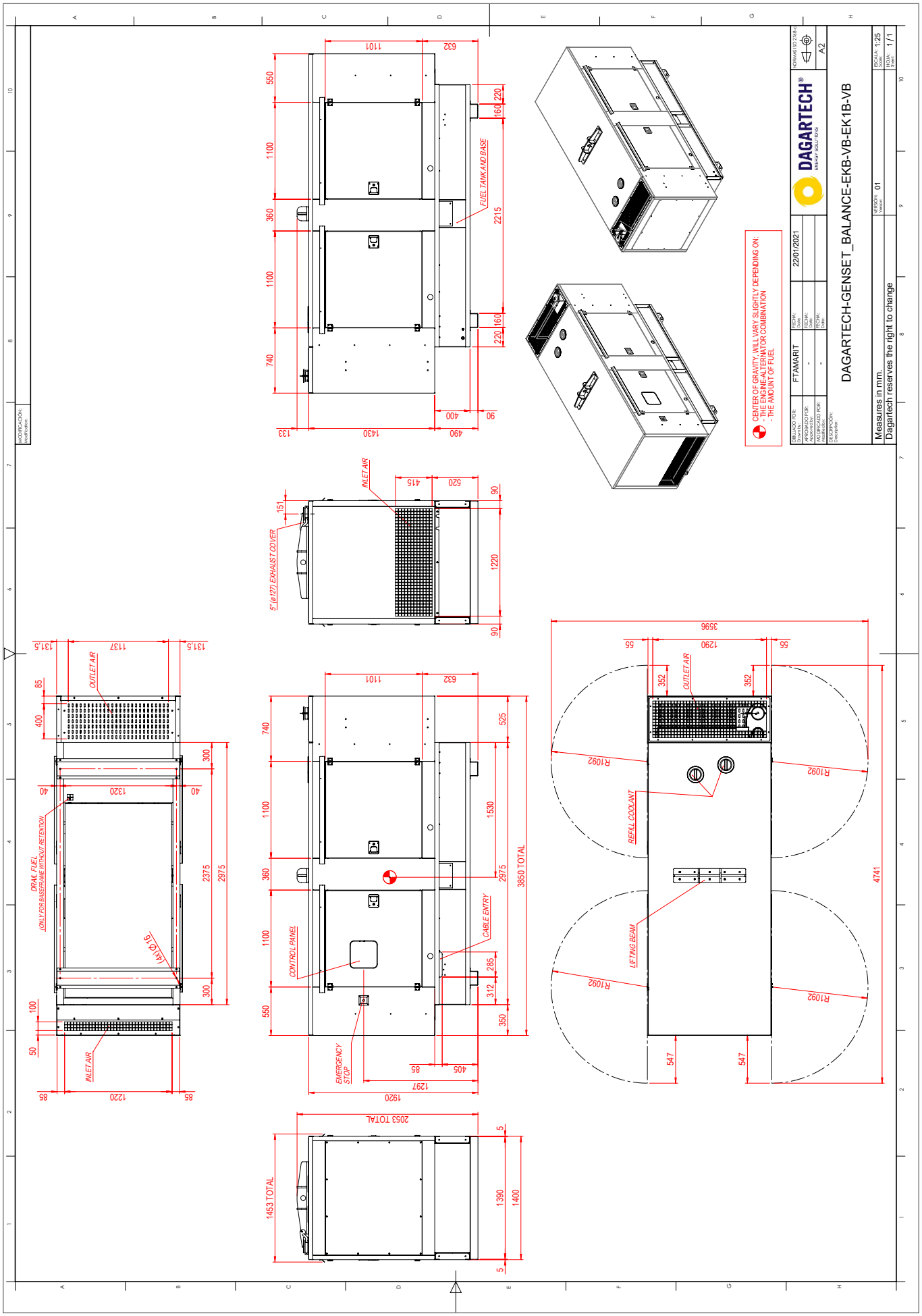


ENGINE	CORE RADIATOR				EXHAUST			
	A	B	C	D	X	Y	Z	Ø
VOVLO TAD841GE	645	700	252	897	1344	1463	372	4" (101.6)
VOLVO TAD842GE	893	900	161	998	992	1700	372	4" (101.6)
BAUDOUIN 6M16G200/S	624	965	200	1010	1012	1400	1026	4" (101.6)
BAUDOUIN 6M16G275/5	624	965	200	1010	1012	1400	1026	4" (101.6)
BAUDOUIN 6M16G350/5	649	985	116	1059	995	1444	1043	4" (101.6)

DIBUJADO POR: Drawn by:	FTAMARIT	FECHA: Date: 21/03/2023
APROBADO POR: Approved by:	FTAMARIT	FECHA: Date: 25/01/2024
MODIFICADO POR: Modified by:	FTAMARIT	FECHA: Date: 25/01/2024

MODIFICACIÓN: Modification
a ECHAUST FOR VOLVO MODELS IS UPDATED



¿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

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