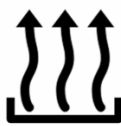




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Image for demonstration purposes



**Generating Set**  
**RENTAL BUILDING - Diesel**

**GE.KOS5.050/045.RB+011**

1500 rpm - Threephase - 50Hz - 400V  
Automatic panel without switching on board



## Standard equipment

### ⚙️ Canopy Soundproofing

Removable soundproof canopy  
Painting canopy (RAL) in galvanized sheet steel  
Soundproofing with class 1 polyester material  
Handles with key lock and automatic closing  
Special baffles for air intake and air expulsion  
Inspection doors with hermetic gasket  
Automatic doorstop  
Externally and internally washable with sprayer

### ⚙️ Exhaust

Residential exhaust system -35dB(A)  
Exhaust rain cap

### ⚙️ Fuel Supply

Single wall daily tank with 110% bunded base  
Plug & Play fuel connections  
Bulk tank connections with 3 way valve  
Automatic shutdown system for low fuel level  
Fuel gauge  
Mechanical fuel gauge  
Increased fuel hatch for washing

### ⚙️ Handling

Oversized lifting hook  
Base frame with anti-overturning forklift pockets  
Loadable side by side for truck transportation  
Rubber Bumpers

### ⚙️ Base Frame

Bunded base at 110% of fuel tank capacity  
Anti-vibrating mounting pads  
Battery compartment externally accessible for easy service

### ⚙️ Engine

High coolant temperature and low oil pressure shutdown system  
Oil change pump  
Engine liquids (oil and antifreeze)  
Tropicalized radiator  
Rotating parts protection  
Battery disconnecter lockable

### ⚙️ Alternator

AVR Automatic Voltage Regulator  
Impregnation for marine environment  
IP23

### ⚙️ Panel & connection

Emergency Stop button  
Switch on panel board  
RCD with adjustable current and excludible  
Tamperproof panel IP55  
Male socket for battery charger and engine pre-heater (if provided) power supply  
Cable output from rear  
IP44 wiring  
Start-up battery (pre-charged)  
Plug & Play connector for Bus communication between controller (Only variant +14)  
Sockets module with magnetothermal circuit breaker and Differential  
Grounding point  
Total power terminal box (excluded variant +12)

### ⚙️ Documentation

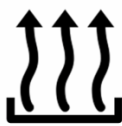
CE conformity declaration  
User and Maintenance manual  
Test report  
Wirings diagrams  
IP 55 Document pocket  
Exploded drawing with spare parts codes

### ⚙️ Normatives

All Generating sets are compliant to CE Marking  
2014/30/UE Electromagnetic compatibility  
2000/14/CE Noise Emission for outdoor use  
Factory-designed systems built according to ISO 9001:2015  
CEI EN 60204-1:2018 - Electrical equipment of machines



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## Primary data

### General Information

Speed	RPM	1500
Frequency	Hz	50
PRP	KVA	44,9
PRP - Prime power	KW	35,9
LTP - Standby power	KVA	49,6
LTP - Standby power	KW	39,7
Standard Voltage	V	400/230
Current	A	63,58
Voltage for current calculation	V	400
COSFI	0,8	0,8

### General electrical protection

Circuit-breaker rated current	A	63
Type		Switch disconnecter on panel board
Circuit-breaker poles	N	4P
Optional/notes circuit-breaker		Opening coil
Additional protection		Adjustable and excludable Differential protection
Protection device		Control module
Adjustments tripping set-point (I <sub>d</sub> )	mA	30 - 5000
Adjustments tripping time (t)	sec.	0 - 30

### Noise level +/- 3dB(A)

LWA	dB(A)	86
Sound pressure level @ 7 mt	dB(A)	61
Sound pressure level @ 1 mt	dB(A)	70

### Fuel Consumption

TYPE		Diesel
Standard Fuel Tank capacity	lt	250
Autonomy @ 75% load	h	37
Fuel consumption at 100% load	lt/h	9,1
Fuel consumption at 75% load	lt/h	6,8
Fuel consumption at 50% load	lt/h	4,5

### General data

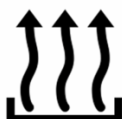
Rated capacity	Ah	1x100
Auxiliary Voltage	V	12
Exhaust diameter	mm	80

### Weight and Dimensions

Dimensions (L x w x h)	cm	225x115x165
Weight with liquids (excluding optionals and fuel)	Kg (+/-3%)	1138



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## Engine

Factory		<b>Kohler</b>
Model		<b>KDI 2504 TCR CAC</b>
Emissions stage		<b>Stage 5</b>
Speed governor		<b>Electronic</b>
Radiator	°C	<b>50</b>
Cooling	<i>Tipo</i>	<b>liquid (water + 50% Parafllu11)</b>
Active net power	<i>Kwm</i>	<b>41</b>
Nominal net power	<i>CV</i>	<b>55,7</b>
Cycle	<i>Tipo</i>	<b>4 strokes</b>
Injection	<i>Tipo</i>	<b>Direct</b>
Aspiration	<i>Tipo</i>	<b>Turbo</b>
Numbers of cylinders	<i>N</i>	<b>4</b>
Cylinders arrangement		<b>L</b>
Bore	<i>mm</i>	<b>88</b>
Stroke	<i>mm</i>	<b>102</b>
Total displacement	<i>lt</i>	<b>2,482</b>
Engine oil features		<b>15W40-API CI-4/CH-4 ACEA E5-E7</b>
Total oil capacity	<i>lt</i>	<b>11,5</b>
Total coolant capacity	<i>lt</i>	<b>6,5</b>
ISO 8528-5 class		<b>G3</b>

## Alternator

**\* May vary based on stock availability. However, a primary brand will be used.**

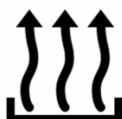
Factory		<b>Stamford</b>
Model		<b>S1L2-R1</b>
Single-phase Range	<i>KVA</i>	<b>50</b>
Voltage Regulator (voltage accuracy)	<i>+/- %</i>	<b>1</b>
Poles	<i>N°</i>	<b>4</b>
Phases	<i>N°</i>	<b>3+N</b>
Standard windings connection		<b>Star Series</b>
Stator/rotor impregnation		<b>H (Outdoor Temp 40°C)</b>
Efficiency	<i>%</i>	<b>89,2</b>
Engine coupling		<b>Elastic disk</b>
Short circuit current		<b>&gt;= 300% (3In)</b>
Protection degree	<i>IP</i>	<b>23</b>
Cooling system		<b>Self ventilating</b>
Maxium overspeed	<i>rpm</i>	<b>2250</b>
Waveform distortion	<i>%</i>	<b>&lt;5</b>
Exciter		<b>Diode bridge</b>

## Standard operating environmental conditions

Ambient temperature	°C	<b>25</b>
Relative Humidity	<i>%</i>	<b>30</b>
Max altitude	<i>mt</i>	<b>1000</b>



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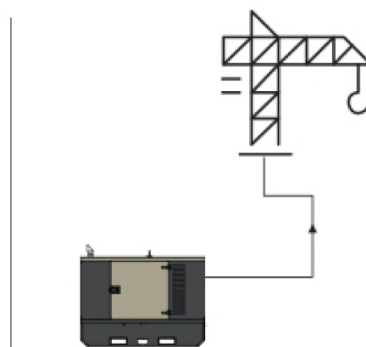


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## Control Systems on board QPE-C-SC-3F-4P-63-01RB



operating scheme - schema di funzionamento

### QPE Automatic panel without switching on board

The QPE-C control panel represents the evolution of the panel for the control and management of the gen set. With its microprocessor logic it is able to meet any user requested features. The dual operation mode manual and automatic guarantees to every type of functionality protection, analysis and control of the generating set in order to make the management easy and efficient. Variant without transfer switch on board. ATS panel type QC as optional. The panel manages the QC panels directly or any other ATS panel.

#### Mechanical features

Protection degree	IP	55
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#### Battery charger

Model		ELCOS - CB1
Maximum output current	A	2,5
Output DC voltage (selectable)	Vdc	12-24
Input AC voltage (selectable)	Vac	220-260
Frequency	Hz	50-60

#### Sockets module

Protection	Type	Differential Magnetothermal breakers
Differential Sensivity	mA	30 (only for 16A and 32A)
Sockets		N. 1 CE Schuko 16A 230V
Sockets		N. 1 CE 2P+T 16A 230V
Sockets		N. 1 CE 3P+N+T 16A 400V
Sockets		N. 1 CE 3P+N+T 32A 400V
Sockets		N. 1 CE 3P+N+T 63A 400V
Male socket		N. 1 CE 2P+T 16A 230V

#### Data Communication

Data connection port		RS-485
Communication protocol		Mod-bus RTU-8N1

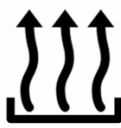
#### Remotable functions in terminal box

GS start

GS lock



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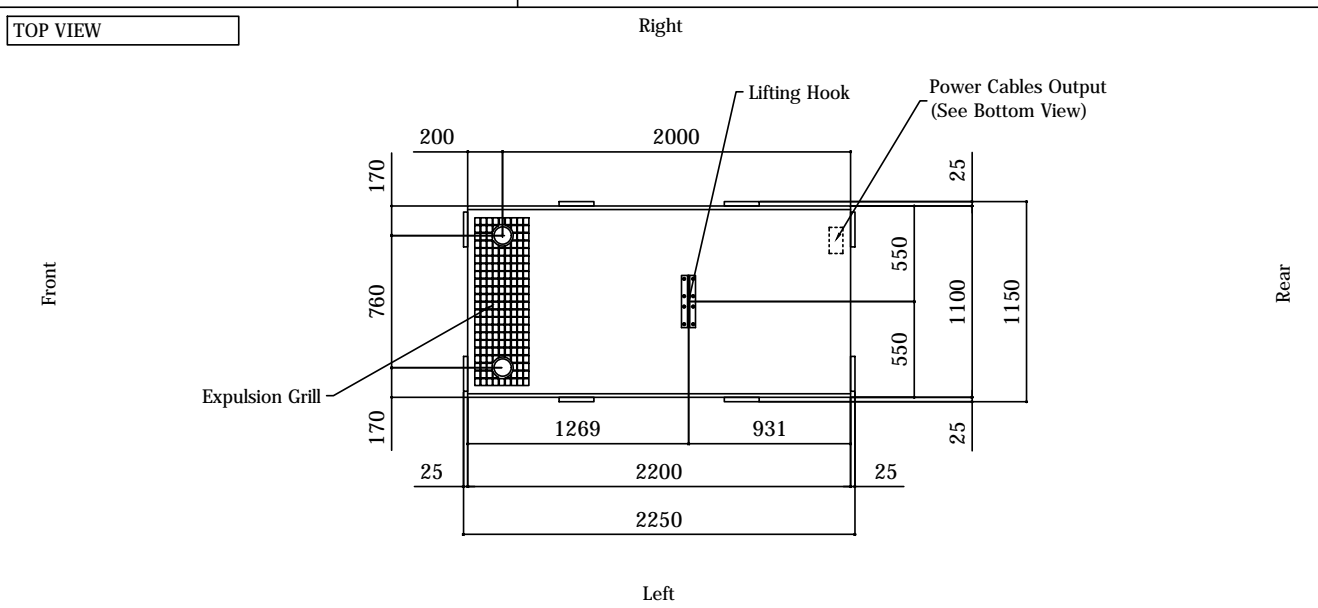
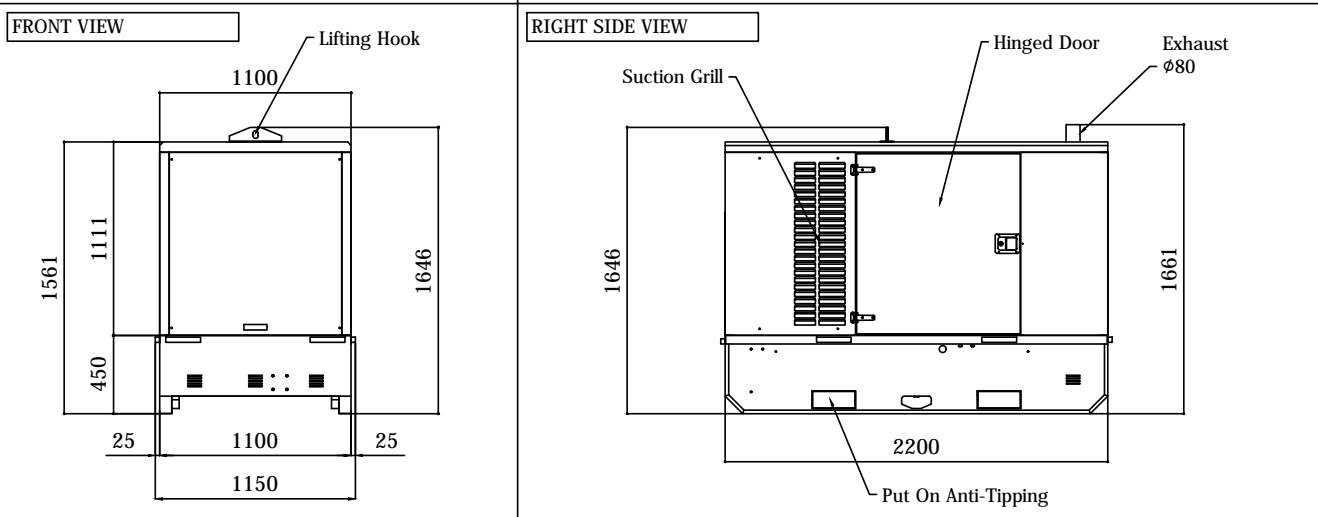
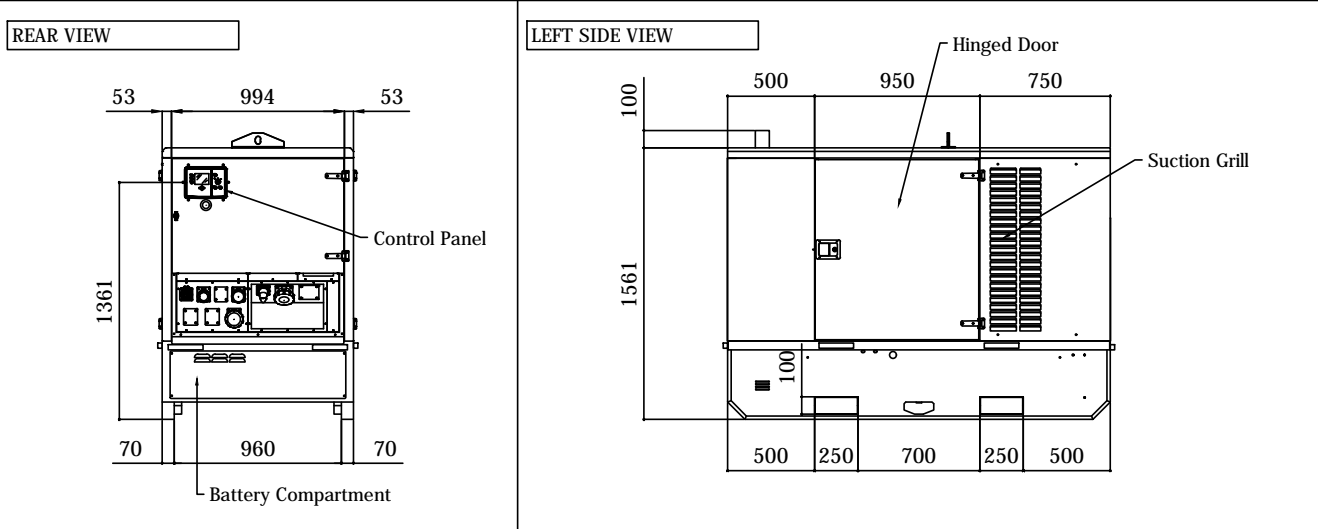
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Sheet:	C 2200.RB	RENTAL BUILDING	Exhaust side:	Type:	STANDARD	Rev:	00	Last Update:	Apr 29, 2020	Page 1/2
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**OVERALL DIMENSIONS [mm]**

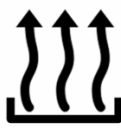


**IMPORTANT:**

- 1) Form and dimension refer to the generating set on catalogue
- 2) Form and dimension are subject to change in order to update or improve the products



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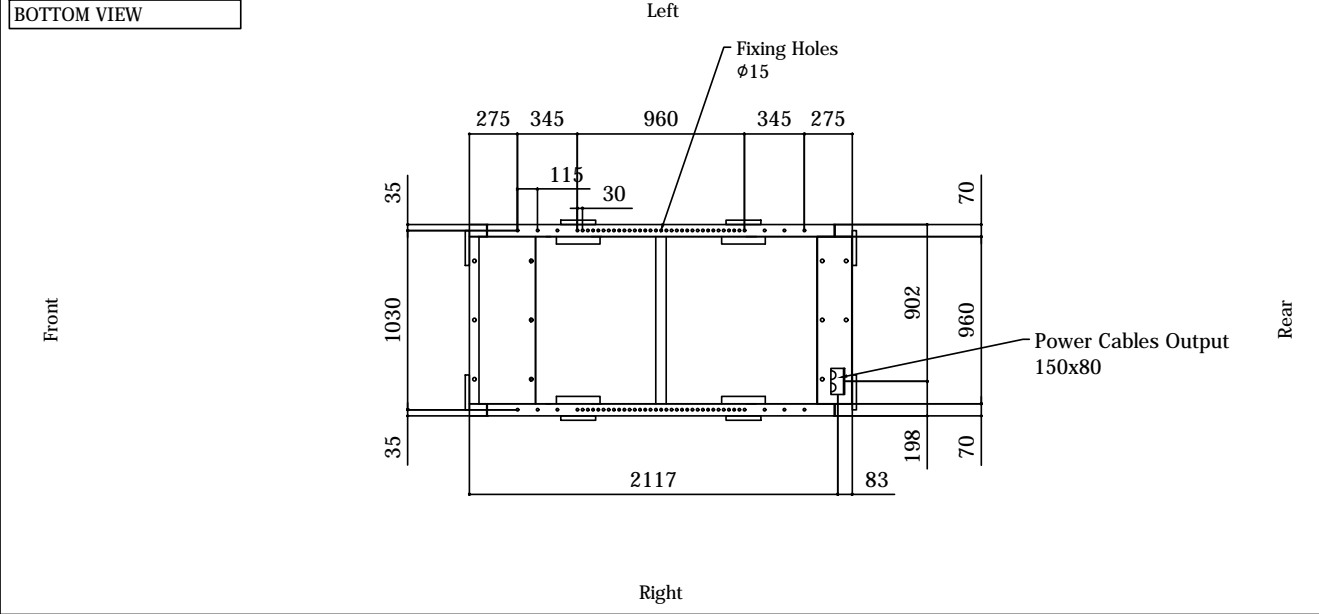


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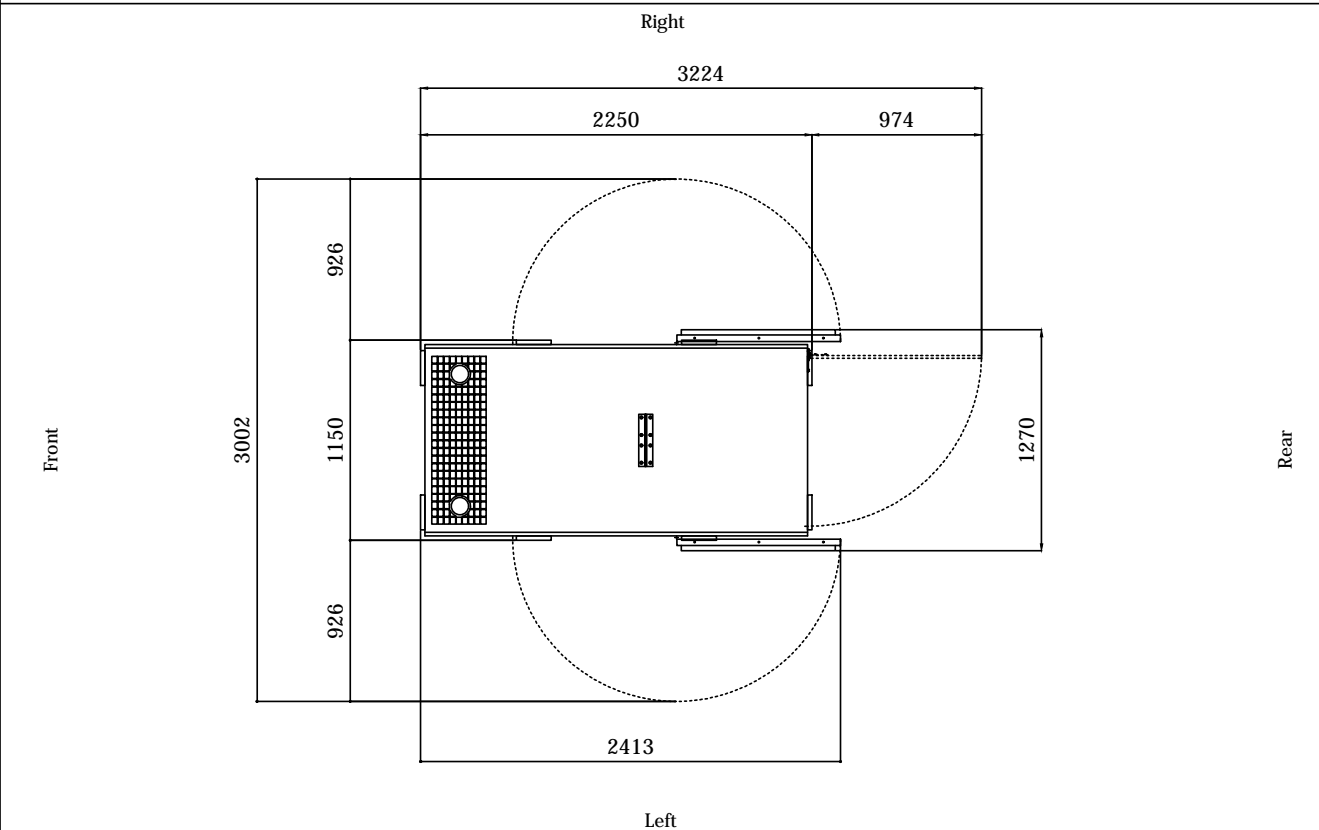


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Sheet:	C 2200.RB	RENTAL BUILDING	Exhaust side:	Type:	STANDARD	Rev:	00	Last Update:	Apr 29, 2020	Page 2/2
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**DIMENSIONS WITH OPEN DOORS [mm]**



Note: With Lifting-Off Door Solution consider only canopy dimensions.  
 (Models with "Control Panel" behind rear door will mount a special cover to protect it)

**VENTILATION OF THE ROOM**

The windows area in the generating set room needs to be (recommended):  
 Aspiration: 0.55 m<sup>2</sup>  
 Expulsion: 0.35 m<sup>2</sup>  
 ATTENTION: for a correct ventilation the expulsion air and the exhaust gas needs to be conveyed in the open-air

- IMPORTANT:**
- 1) Form and dimension refer to the generating set on catalogue
  - 2) Form and dimension are subject to change in order to update or improve the products