

REFERRING TO LINES
GMN | GMS



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GENERAL PANEL INFORMATIONS

ACP | AUTOMATIC CONTROL PANEL (CONTROL ONLY)

All Generac Mobile Products Generators are equipped by default with this ACP panel. The control section is composed by the automatic control board, the key switch on/off and the emergency stop button.

AUTOMATIC AND MANUAL CONTROL BOARD

The automatic control board allows the manual start of the generator and to operate automatically in emergency to the public network. The automatic control board, in addition to the total management of the generator and switching network / group (LTS), it is designed for the full control and management of the generator remotely through a special PC interface executable by cable or by GSM modem.

MAJORS MEASURES AVAILABLE:

Generating set:

Voltage

Current

Frequency

Generating Set Power:

(kVA-kW-kVAr-Cosφ)

Mains: voltage.

Hours-counter.

Battery voltage. Engine speed r.p.m.

Fuel level (%)

Engine temperature

Oil Pressure

COMMAND AND OTHERS:

Four operation modes:

- OFF
- Manual starting
- Automatic starting
- Automatic test

Push-button for forcing Mains contactor or generator contactor.

Push-buttons:

- start/stop
- fault reset
- up/down/page/enter selection.

Acoustic alarm.

RS232 Communication port.



GENERIC PROTECTIONS:

- Engine protections:
- Low fuel level
- Low oil pressure
- High engine temperature

GENERETOR PROTECTIONS:

- under/over voltage
- overload
- under/over battery voltage
- battery charger failure

1. PLUGS & PANELS

ETB | ELECTRIC TRANSFER BAR

The power section consist in a large and robust bus bar. This bus bar has a cable passage opening from the bottom for easy power cable connection.

The terminal board is protected by a transparent cover. The bars are sized according to the rated current.



SIZE	DIMENSION PHASE BAR [mm]	DIMENSION NEUTRE BAR [mm]	DIMENSION EARTH BAR [mm]	Ø
400	30X5	20X5	20X5	Screw M12
630	30X10	20X5	20X5	Screw M12
800	40X10	40X5	40X5	Screw M12
1000	50X8	40X5	40X5	Screw M12
1250	50X6 (two bars)	50X6	50X6	Screw M12

LTS | LOAD TRANSFER SWITCH

This panel is built in a metal cabinet and supplied separated of the generator set (free standing, for wall mounting). It is an option of the ACP panel. The panel includes two change-over contactors electrically and mechanically interlocked (for transferring the load between mains and generating set) and all auxiliary controls. All these controls are wired to a plinth row installed in the panel for an easy connection to the ACP panel (that is mounted on the generator set). Five meters control cables are included.

MUST BE COMBINED WITH ACP+ETB OPTIONS

Load Transfer Switch panels are equipped with a pair of mechanically and electrically interlocked contactors assembled in a steel cubicle. They are fully pre-wired to terminal board as standard for easy connection of control and power cables.

System Operation

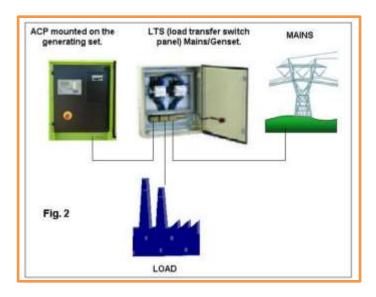
The ACP (mounted on the front of the panel) shows continuously the Mains source voltage (3 phases sensing); in case of Mains failure or voltage out of margin the ACP operates as follows:

- a. Opening of the Mains contactor (mounted into the LTS panel).
- b. Start the generating set and close of the generator contactor (mounted into the LTS panel); since this moment on, the load is supplied by the generating set.
- c. When the Mains is restored into the rated values, the ACP opens the Genset contactor (after an adjustable delay) and closes the Mains contactor; since this moment on, the power is supplied by the Mains source.
- d. The Generating set keeps running for an adjustable period of time to cool down the engine.



LTS | LOAD TRANSFER SWITCH

... follows



Other features and requirements:

- a. Emergency stop button
- b. Mechanically and electrically interlocked change over contactors (4Poles)
- c. Terminal board connector for ACP control panel is required (ETB).

Code	Model	Amps	Dimensions (H x W x D)	Weight apx. KGS
SY000A00015	LTS20	20 A	400x400x200	11
SY000A00016	LTS32	32 A	400x400x200	15
SY000A0003U	LTS45	45 A	400x400x200	17
SY000A0003V	LTS60	60 A	400x400x200	19
SY000A0003W	LTS90	90 A	700x500x250	25
SY000A0001C	LTS110	110 A	700x500x250	29
SY000A0001D	LTS140	140 A	700x500x250	30
SY000A0001E	LTS200	200 A	800x600x250	51
SY000A0001F	LTS325	325 A	1000x800x300	80
SY000A00085	LTS400	400 A	1000x800x300	92
SY000A00091	LTS500	500 A	1000x800x300	95
SY000A00092	LTS700 (*)	700 A	1600x1000x400	140
SY000A00099	LTS1000 (*)	1000 A	1600x1000x400	150

(*) including one ventilation fan; (**) including two ventilation fans. Up to 200 A Lts is wired by means of cables, from 325 A us wired by means of palatines Load Transfer Switch panels equipped with mechanical and electrical interlocked contactors, assembled in a steel cubicle, are available in different sizes. They are fully pre-wired for easy connection of control and power cables. Power cables between genset and panel are not included.

SST | STANDARD SOCKET KIT

The Standard Socket Kit is installed by default on generators from 22 to 50 kVA in both series GMN and GNS. **Socket is IP67**, and equipped with thermal magnetic protection.

three phase socket with differential protection. The differential protection is class A. **The socket kit is ONLY available on series GMN and GNS.** This kit contains:



1 x 400V/32A 3P+N+T CE

Installed by default on models:

GMN22Y GMN22P GMS22P



1 x 400V/63A 3P+N+T CE

Installed by default on models:

GMN30Y GMN50Y GMS30P GMS45P The images are for demonstration purposes only and may be different from the product actually supplied

SKE | SOCKET KIT "ENGLAND"

The socket kit **E** allows to meet customer needs with a kit of 5 output power sockets. **All sockets are IP67**. Each sockets are equipped with thermal magnetic protection.

All three phases sockets has common differential protection and each single phase sockets has its own differential protection. All the differential protection are class A protection. This kit contains:



1 x 400V/63A 3P+N+T



1 x 400V/32A 3P+N+T



3 x 230V/16A 2P+T

SKC | SOCKET KIT "C"

The socket kit **C** allows to meet customer needs with a kit of 4 output power sockets. **All sockets are IP67**. Each sockets are equipped with thermal magnetic protection.

All three phases sockets has common differential protection and each single phase sockets has its own differential protection. All the differential protection are class A. **The socket kit C is not available with MPP control panel**. This kit contains:



1 x 400V/125A 3P+N+T CE



1 x 400V/63A 3P+N+T CE



1 x 400V/32A 3P+N+T CE



1 x 230V/16A Schuko CE

SKB3 | SOCKET KIT "B3"

The socket kit **B3** allows to meet customer needs with a kit of 4 output power sockets. **All sockets are IP67**. Each sockets are equipped with thermal magnetic protection.

All three phases sockets has common differential protection and each single phase sockets has its own differential protection. All the differential protection are class A. **The socket kit B3 is not available with MPP control panel**. This kit contains:



1 x 400V/63A 3P+N+T CE



1 x 400V/32A 3P+N+T CE



1 x 400V/16A 3P+N+T CE



1 x 230V/16A Schuko CE

SKB2 | SOCKET KIT "B2"

The socket kit **B2** allows to meet customer needs with a kit of 5 output power sockets. **All sockets are IP67**. Each sockets are equipped with thermal magnetic protection.

All three phases sockets has common differential protection and each single phase sockets has its own differential protection. All the differential protection are class A. **The socket kit B2 is not available with MPP control panel**. This kit contains:



1 x 400V/63A 3P+N+T CE



1 x 400V/32A 3P+N+T CE



1 x 400V/16A 3P+N+T CE



1 x 230V/16A 2P+T CE



1 x 230V/16A Schuko CE

SKB1 | SOCKET KIT "B1"

The socket kit **B1** allows to meet customer needs with a kit of 5 output power sockets. **All sockets are IP67**. Each sockets are equipped with thermal magnetic protection.

All three phases sockets has common differential protection and each single phase sockets has its own differential protection. All the differential protection are class A. **The socket kit B2 is not available with MPP control panel**. This kit contains:



1 x 400V/32A 3P+N+T CE



1 x 400V/16A 3P+N+T CE



2 x 230V/16A 2P+T CE



1 x 230V/16A Schuko CE

2. SALES KIT OPTIONS

KRT | KIT RENTAL

The kit rental allows setting up the generator with fuel filter with water separator, fuel valve, battery switch, earth rod, docs folder. This Kit allows to have a generator closer to the rental business. This kit contains:

FUEL FILTER WITH WATER SEPARATOR

The water separator fuel filter allows to remove particulates and water from the fuel for a better working of the engine. Standard fuel filter with water separator for other series.



FUEL VALVE

The fuel valve allows the connection to an external tank to increase the autonomy of the generator. The fuel valve can be 3-way or 6-way fuel valve according to the generator model.



BATTERY SWITCH

The battery switch allows disconnect the battery pack when generator is switched off. Using the removable handle of the battery switch, it is possible to disconnect the batteries from the circuit to avoid discharge.



EARTH ROD

The earth rod consisting of a conductive rod driven into the ground. It is necessary for grounding when the generator is operating.



DOCS FOLDER

The docs folder is a practical plastic document holder where the machine documents can be stored and protected, always at your fingertips.

2. SALES KIT OPTIONS

KRT8 | KIT RENTAL

The kit rental allows setting up the generator with 6-way fuel valve, battery switch and earth rod. This Kit allows to have a generator much closer to the rental business. This kit contains:

FUEL VALVE

The fuel valve allows the connection to an external tank to increase the autonomy of the generator. The fuel valve can be 3-way or 6-way fuel valve according to the generator model.



BATTERY SWITCH

The battery switch allows disconnect the battery pack when generator is switched off. Using the removable handle of the battery switch, it is possible to disconnect the batteries from the circuit to avoid discharge.



EARTH ROD

The earth rod consisting of a conductive rod driven into the ground. It is necessary for grounding when the generator is operating. Earth rod with cross section 50x50x5 and a length of 1000mm. Connecting cable length of 5mt Ø95 is included.



2. SALES KIT OPTIONS

IMD INSULATION MONITORING DEVICE (Isometer)

The IMD supplements is an insulation monitoring for mobile generators. It monitors the insulation resistance RF of an unearthed AC system of 0V up to 300 V to earth that is supplied by a mobile generator. The currently measured insulation resistance is indicated on the LC display. In this way, any changes, for example, when circuits of loads are connected to the system, can be recognized easily. The maximum permissible system leakage capacitance Cemax is 5 μ F.

The IMD is useful to comply with the German legislation:

- IEC 60364-7-717, DIN VDE 0100-717 (2005) Electrical installations in mobile or transportable units.
- DIN VDE 0100-551 (VDE 0100-551), IEC 60364-5-551 Low-voltage generating sets (mobile generators).
- GW 308 "Mobile Stromerzeuger für Rohrleitungsbaustellen 8/00" (Mobile auxiliary power generators on pipeline site") (DVGW).
- BGI 867 (German Berufsgenossenschaft Information) Auswahl und Betrieb von Ersatzstromerzeugern auf Bau- und Montagestellen (Selecting and operating standby generators on construction and installation sites).



- Protection by electrical separation with insulation monitoring and disconnection
- Two separately adjustable response values
- Connection monitoring system/earth
- Power On LED, alarm LEDs: Alarm 1, Alarm 2
- Internal/external test/reset button
- Two separate alarm relays (one changeover contact each)
- N/O or N/C operation, selectable
- Fault memory behaviour selectable
- Self monitoring with automatic alarm
- Multi-functional LC display
- Adjustable response delay
- Two-module enclosure (36 mm)
- Push-wire terminal (two terminals per connection)

The IMD supplement replace the standard differential protection with ABB RD2. The currently measured insulation resistance is indicated on the display. In this way, any changes, when circuits of loads are connected to the system, can be recognized easily. When the value falls below the preset response values, the response delay "ton" starts. Once the response delay "ton" has elapsed, the alarm relays alarm switch and alarm LEDs light up. Two separately adjustable response values/alarm relays allow a distinction to be made between pre-warning and alarm. If the insulation resistance exceeds the release value (response value plus hysteresis), the alarm relays return to their initial position. If the fault memory is enabled, the alarm relays remain in the alarm state until the reset button is pressed or until the supply voltage is switched off. The device function can be tested using the test button. The parameterization of the device can be carried out via the LC display or the function keys integrated in the front plate.

2. SALES KIT OPTIONS

KPR | KIT PREMIUM

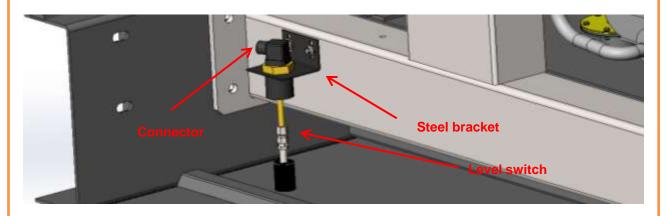
The KPR option, includes the leak proof tray, a leakage detection sensor and a manual oil drain pump. This kit contains:

LEAK PROOF TRAY (LPT)

LPT allows to retain eventual fuel and oil leakages up to 110% of potential standard tanks global volume.

LEAKAGE DETECTION SENSOR

The leakage detection sensor is necessary to have an alarm in case of leakage inside the LPT. The leak detection sensor is a single contact level switches in compact design. In case of leakages the LDS will alarm and activate the shutdown signal in the control unit.



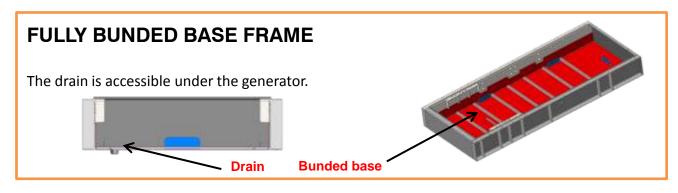
MANUAL OIL DRAIN PUMP

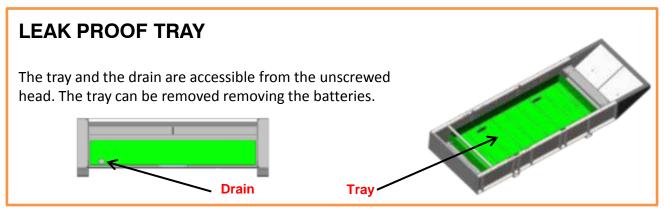
The manual oil drain pump allows to drain the oil from the engine easily and cleanly. Made in robust single body, it allows a safe and long lasting life.



LPT | LEAK PROOF TRAY

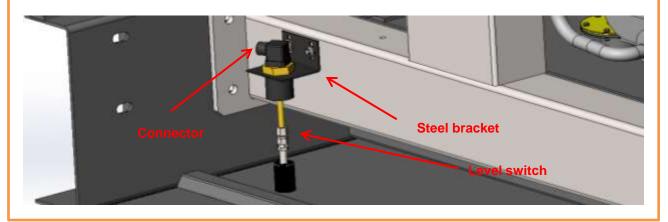
The LEAK PROOF TRAY supplement allows retaining eventually fuel and oil leakages. This kit contains:





LEAKAGE DETECTION SENSOR

Leak Detection Sensor allows to have an alarm in case of leakages. The leak detection sensor is a reliable single contact level switch with compact design. In case of leakages, LDS will signal to the control unit for alarm.



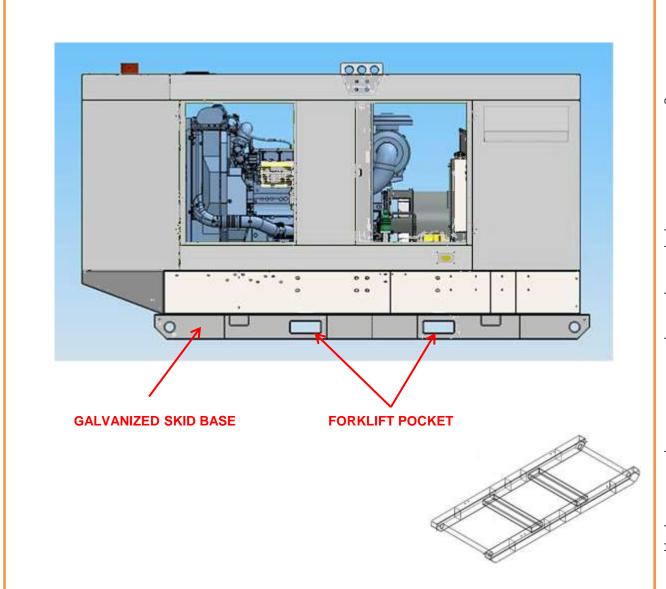
The images are for demonstration purposes only and may be different from the product actually supplied

3. ENGINE & CANOPY OPTIONS

GSB | GALVANIZED SKID BASE

The GSB accessory consist of a galvanized skid base screwed on the standard base frame. The sliding skid consist of an additional galvanized skid base with the same shape/footprint of base frame in order to raise the generator from the ground around 20cm.

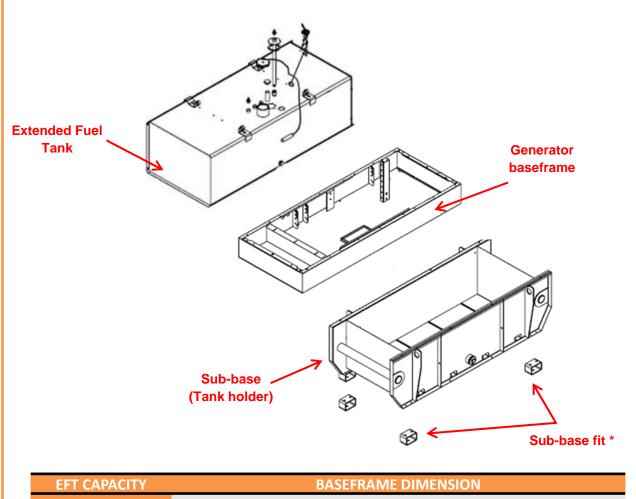
This skid allows an easier generator dragging on construction site where can be present many kind of materials which stick out from the ground and can damage the forklift pocket profiles. The GSB accessory is available only with canopy version. It can be order separately from generator.



3. ENGINE & CANOPY OPTIONS

EFT1 | EXTENDED FUEL TANK 1

The EFT supplement allows installing a bigger fuel tank instead the standard plastic fuel tank. Are available five capacity of EFT according to the generators model. **The extended fuel tank is not compatible with KRT supplement**.



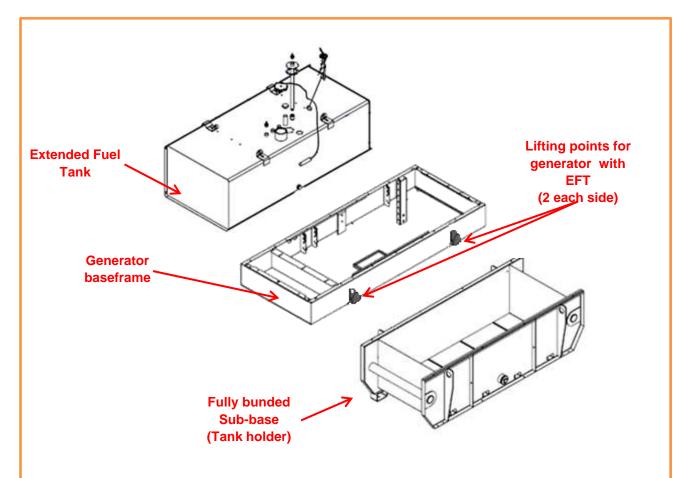
EFT CAPACITY	BASEFRAME DIMENSION
2101	1796x996x472 mm
450l	2000x1066x630 mm
7301	2285x1066x777 mm
8901	2420x1168x894 mm
1750 l	3400x1398x904 mm

^{*} The sub-base fit are in the EFT up to 730l. The sub-bases of 890l and 1750l have the fork pockets.

3. ENGINE & CANOPY OPTIONS

EFT2 | EXTENDED FUEL TANK 2

The EFT supplement allows installing a bigger fuel tank instead the standard plastic fuel tank. Are available five capacity of EFT according to the generators model. **The extended fuel tank is not compatible with LPT supplement**.



EFT CAPACITY	BASEFRAME DIMENSION
23301	3951x476x1606 mm
32701	3951x626x1618 mm
4180l	4400x646x1726 mm
4620l	4700x706x1886 mm

^{*} EFT 2330lt can be assembled for all generator models but sub-base dimensions are according to the max capacity available.

3. ENGINE & CANOPY OPTIONS

EFT1/2 | EXTENDED FUEL TANK TECHNICAL DATA

The EFT supplement allows installing a bigger fuel tank instead the standard plastic fuel tank. Are available five capacity of EFT according to the generators model. **The extended fuel tank is not compatible with KRT supplement**. Below listed values of extended running time.

GENERATING SET	ENGINE BRAND	ENGINE MODEL	EFT CAPACITY [I]	RUNNING TIME at 75% PRP with EFT [h]	RUNNING TIME at 100% PRP with EFT [h]
GMN 22Y	YAMAR	404D-22G	210	55,26	41,67
GMN 30Y	YAMAR	4TNV98-GPGE	450	77,32	58,06
GMN 50Y	YAMAR	4TNV98T-ZGPGE	450	54,09	40,54
GMS/N 22P	PERKINS	404D-22G	210	52,76	39,77
GMS 30P	PERKINS	1103A-33G	450	83,18	63,38
GMS 45P	PERKINS	1103A-33TG1	450	54,81	42,06
GMS 65P	PERKINS	1103A-33TG2	730	70,06	52,52
GMN 67P	PERKINS	1104D-44TG3	730	60,88	45,51
GMS 80P	PERKINS	1104A-44TG2	730	54,32	40,76
GMN 95P	PERKINS	1104D-E44TAG1	890	52,73	43,63
GMS 110P	PERKINS	1104C-44TAG2	890	49,39	39,38
GMN 115P	PERKINS	1104D-E44TAG2	890	52,26	35,99
GMS 150P	PERKINS	1106A-70TG1	1750	77,02	58,55
GMS 165P	PERKINS	1106A-70TAG2	1750	71,52	53,16
GMS 200P	PERKINS	1106A-70TAG3	1750	56,63	43,65
GMS 220P	PERKINS	1106A-70TAG4	1750	50,59	38,57
GMN 165V	VOLVO	TAD751GE	1750	60,08	49,67
GMN 200V	VOLVO	TAD752GE	1750	53,58	43,20
GMN 225V	VOLVO	TAD753GE	1750	49,13	38,98

GENERATING SET	ENGINE BRAND	ENGINE MODEL		EFT CA	PACITY		RUNNING TIME at 75% PRP with Max EFT available	RUNNING TIME at 100% PRP with Max EFT available
			2330l	3270l	4180l	4620l	[h]	[h]
GMS 275V	Volvo	TAD734GE	Χ				52,24	42,26
GMN 280V	Volvo	TAD754GE	Χ				50,22	40,88
GMS 330V	Volvo	TAD1342GE	Χ				48,05	36,73
GMS 370V	Volvo	TAD1342GE		Χ			60,11	45,95
GMS 415V	Volvo	TAD1343GE		Χ			56,26	42,71
GMN 420V	Volvo	TAD1354GE		Χ			52,56	41,34
GMS 455V	Volvo	TAD1355GE		Χ			47,95	38,77
GMN 505V	Volvo	TAD1650GE			Χ		56,84	43,24
GMS 510V	Volvo	TAD1345GE		Χ			46,46	35,21
GMN 555V	Volvo	TAD1651GE			Χ		51,32	39,81
GMS 560V	Volvo	TAD1641GE			Χ		53,88	40,01
GMS 650V	Volvo	TAD1642GE			Χ		46,52	34,5
GMS 705V	Volvo	TWD1643GE				Χ	42,93	31,91

3. ENGINE & CANOPY OPTIONS

PHS | PRE-HEATING SYSTEM (A) IMMERSION HEATER TYPE

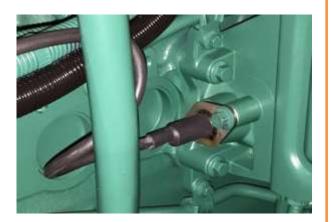
The coolant preheating system allows to maintain the engine at a temperature that ensures a quick start when required. The jacket water heater is designed to obtain a forced circulation of coolant in the engine block by means of a specifically designed rotary pump. This allows the temperature of the engine-block to remain constant during non-operation delays. By means of a flow rate imposed by the pump, the jacket water is forced through the heating chamber provided with electric resistors. The temperature is kept constant and can be pre-set by an adjustable thermostat which is mounted on the cooling line. Closing off the contact determines both the activation of the circulating pump and the powering of the electrical resistor.

GENERATING SET	ENGINE BRAND	ENGINE MODEL	HEATER TYPE	
GMS/N 22P	PERKINS	404D-22G	IMMERSION HEATER KIM-GLO 530W 240V	
GMS 110V	VOLVO	TAD531GE	IMMERSION HEATER 750W 230V	
GMS 150V	VOLVO	TAD532GE		
GMS 30P	PERKINS	1103A-33G		
GMS 45P	PERKINS	1103A-33TG1	IMMERSION HEATER 530W 230V	
GMS 65P	PERKINS	1103A-33TG2		
GMN 67P	PERKINS	1104D-44TG3	IMMERSION HEATER 600W 230V	
GMS 80P	PERKINS	1104A-44TG2		
GMN 95P	PERKINS	1104D-E44TAG1		
GMS 110P	PERKINS	1104C-44TAG2		
GMN 115P	PERKINS	1104D-E44TAG2		
GMN 22Y	YANMAR	404D-22G		
GMN 30Y	YANMAR	4TNV98-GPGE	IMMERSION HEATER 400W 230V	
GMN 50Y	YANMAR	4TNV98T-ZGPGE		
GMS 150P	PERKINS	1106A-70TG1		
GMS 165P	PERKINS	1106A-70TAG2	EXTERNAL WATER HEATER 1500W 230V	
GMN 200P	PERKINS	1106A-70TAG3		



ESTERNAL HEATER (i.e. as general reference)

System is composed by: quick starts engine all temperatures guaranteed, safety thermostat for protection from overheating and a thermostat for temperature control.



IMMERSION HEATER (i.e. as general reference)

The immersion heater has an electrical resistance heating element encased in a tube and directly placed in the water to be heated. A relay controls the heater to the attainment of a pre-set temperature.



3. ENGINE & CANOPY OPTIONS

PHS | PRE-HEATING SYSTEM (B) IMMERSION HEATER TYPE

The coolant preheating system allows to maintain the engine at a temperature that ensures a quick start when required. There are several types of pre-heating system according to generator model/power.

The coolant pre-heating system when it is external the connections with engine are made by flexible pipes with ball valves simplifying all operation of maintenance drainage.

HEATER 1500 W

GENERATING SET	ENGINE BRAND	ENGINE MODEL	TYPE
GMN 280V	VOLVO	TAD754GE	
GMS 330V	VOLVO	TAD1342GE	
GMN 360V	VOLVO	TAD1351GE	
GMS 370V	VOLVO	TAD1342GE	
GMV 405V	VOLVO	TAD1352GE	
GMS 415V	VOLVO	TAD1343GE	
GMN 420V	VOLVO	TAD1354GE	
GMN 455V	VOLVO	TAD1355GE	HEATER 1500 W
GMS 460V	VOLVO	TAD1344GE	
GMN 505V	VOLVO	TAD1650GE	
GMS 510V	VOLVO	TAD1345GE	
GMN 555V	VOLVO	TAD1651GE	
GMS 560V	VOLVO	TAD1641GE	
GMS 600V	VOLVO	TAD1642GE	
GMS 650V	VOLVO	TAD1642GE	
GMS 705V	VOLVO	TWD1643GE	

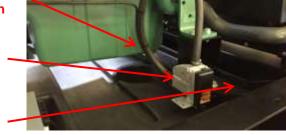
System is composed by: quick starts engine all temperatures guaranteed, safety thermostat for protection from overheating and a thermostat for temperature control of fluid with three possible ranges:

- $(60/80^{\circ}F = 10/27^{\circ}C)$
- $(80/100^{\circ}F = 27/38^{\circ}C)$
- $(100/120^{\circ}F = 38/49^{\circ}C)$
- No lead

Flexible pipes for engine connection

Thermostat

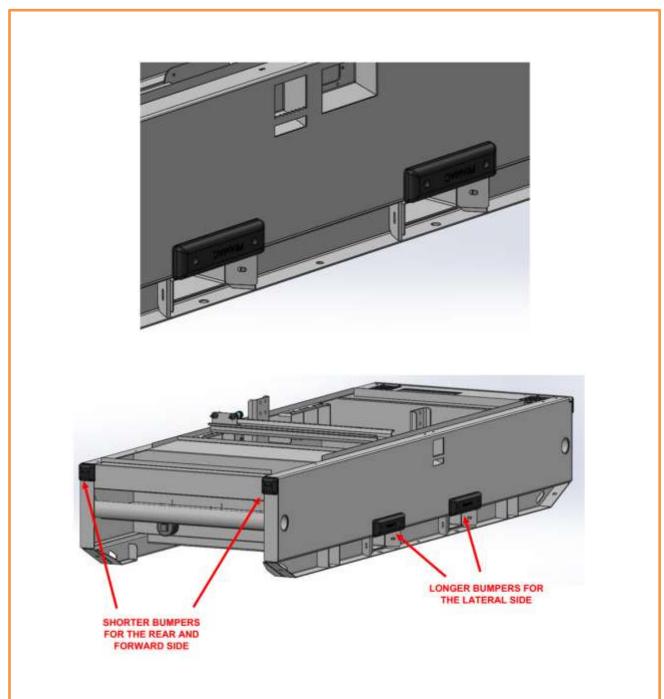
Jaket water heater



3. ENGINE & CANOPY OPTIONS

BFB | BASEFRAME BUMPERS (GMR only)

The BFB consist of a rubber protection on base frame in correspondence of forklift pockets openings. The base frame bumpers allows to have higher protection during handling.



3. ENGINE & CANOPY OPTIONS

GGS | GALVANIZED SLIDING SKID (GMR only)

The GGS supplement consist of a galvanized sliding skid screwed on the standard base frame. The sliding skid consist of two additional galvanized spars with same shape/footprint of base frame in order to raise the generator from the ground around 15cm. This skid allows an easier generator dragging on construction site where can be present many kind of materials which stick out from the ground and can damage the forklift pocket profiles.



GENERATORS ACRONYMS AND GLOSSARY

NOTES	
	= 0
	lages a
	ק מינו
	וסוקים מיו
	llay be dill
	eleli lic
	oii the broduct actually subblied
	Ictually
	applied.

GENERATORS ACRONYMS AND GLOSSARY

NOTES	
	Ieliolist
	urposes
	Olly all
	u illay be
	all el el
	the product actually supplied
	יחכר שכנת
	lally sup
	والم



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