Generating sets and water pumps: Energy at your fingertips.

Recreational activities

DIY

Gardening

Emergencies

Portable Power

PPW-DY-DO-US-93

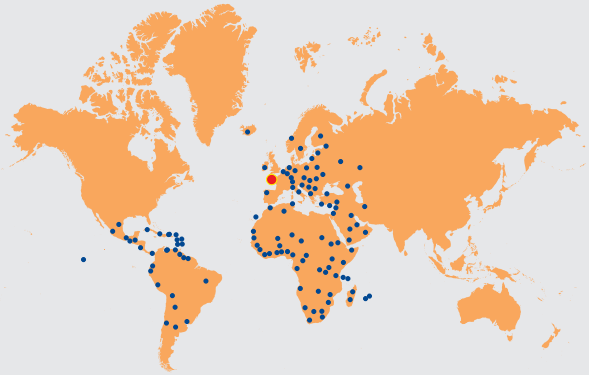
50HZ

ENGLISH

SDMO®

Global Power Solution™

Power that generates satisfaction.



- Distributor/Service Centres
- Head Office

SDMO Industries exports its products to more than 180 countries using its large network of agents, distributors and its 7 subsidiaries in: Argentina, Belgium, Brazil, Great Britain, Nigeria, Spain and the USA.

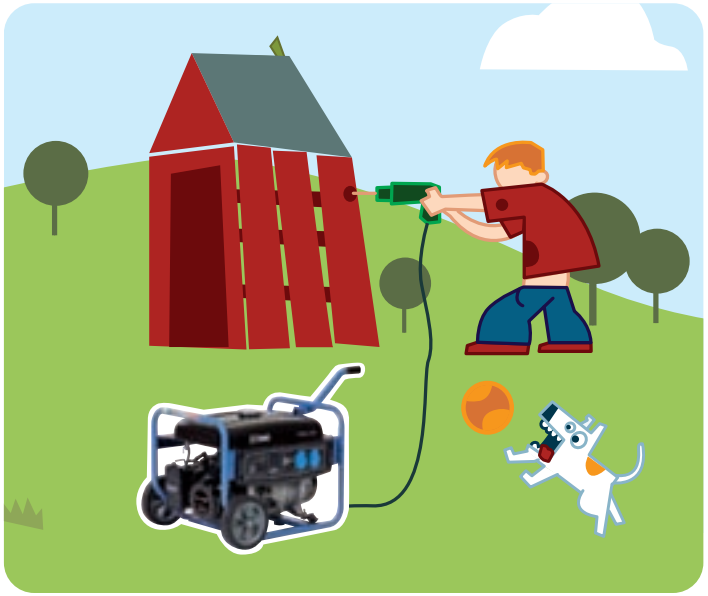
All over the world, from offshore drilling platforms to extreme desert conditions, from building sites to the most demanding industries, the reliability and performance of its generating sets has made SDMO® one of the world's top manufacturers.

Committed to a dynamic of continuous improvement, the SDMO® team spends every day devising and producing generating sets that are even more efficient, operate for longer, and are cleaner and easier to maintain and operate.

SDMO® can therefore offer you a selection of generating sets and water pumps each designed for the specific needs of the home, for recreation or for DIY, enabling you to benefit from the commitment to quality and safety of a large French manufacturer in conformity with the strictest standards.

Portable Power: SDMO's® promise.

Lighting, cooling, hot water, computer equipment, domestic appliances... it's difficult to imagine life without the constant comfort of electricity. The generating sets, from 0.9 to 5 kW, will provide you with power whenever and wherever you need it. The Portable Power products are designed for the demands of outdoor recreation and DIY and free you from any restrictions.



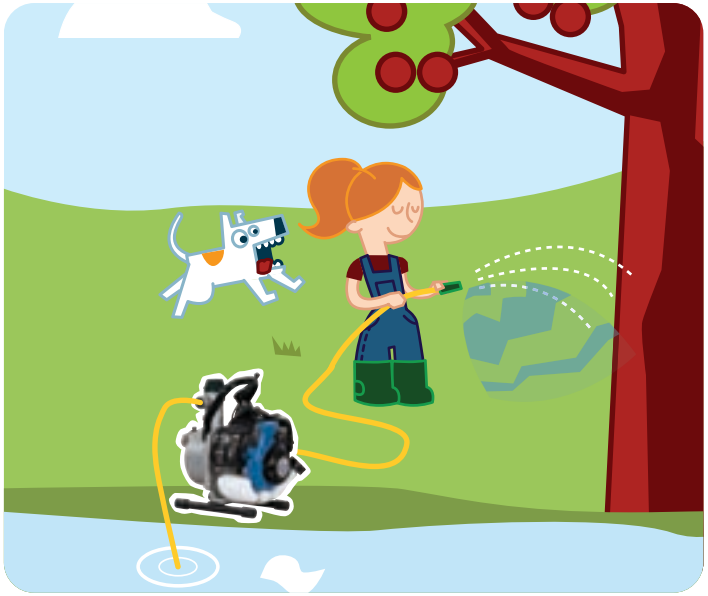
Warranty

All equipment in the Portable Power range described in this catalogue comes with a 2-year parts and labour warranty for personal, non-commercial use.

Safety and quality

In order to enable consumers to make an informed choice, genset manufacturers (< 10 kW) have signed up to the QUALIGEN charter on compliance with applicable regulations and European standards, particularly in the following areas:

- **User safety**
- **Commercial information**
- **Noise levels**
- **After sales service**
- **Electric output**



Noise levels

The symbol opposite the pictures of the gensets denotes their compliance with Directive 2000/14/EC on noise levels. The gensets shown on white lines in the tables do not comply with this directive.

Health and environment

All the products, accessories and options in the SDMO® Portable Power range scrupulously comply with the European Reach regulations requiring manufacturers and importers to ensure that they only manufacture, sell, import and use substances that are non harmful to human health or the environment. These provisions are based on the principle of precaution.

3 simple steps to choose the right generating set.

1 What will your generating set be used for?

DIY, gardening, recreation or emergencies... all have different requirements. Even if basic electrical devices do not need electrical current of any particular quality, computer equipment does. The Inverter technology, installed in all generating sets in the Inverter NEO range, supplies perfect current, identical to that supplied from a domestic electric socket, enabling those appliances with sensitive electronics to be used.
You should also consider the noise level, to ensure good neighbourly relations and user comfort.

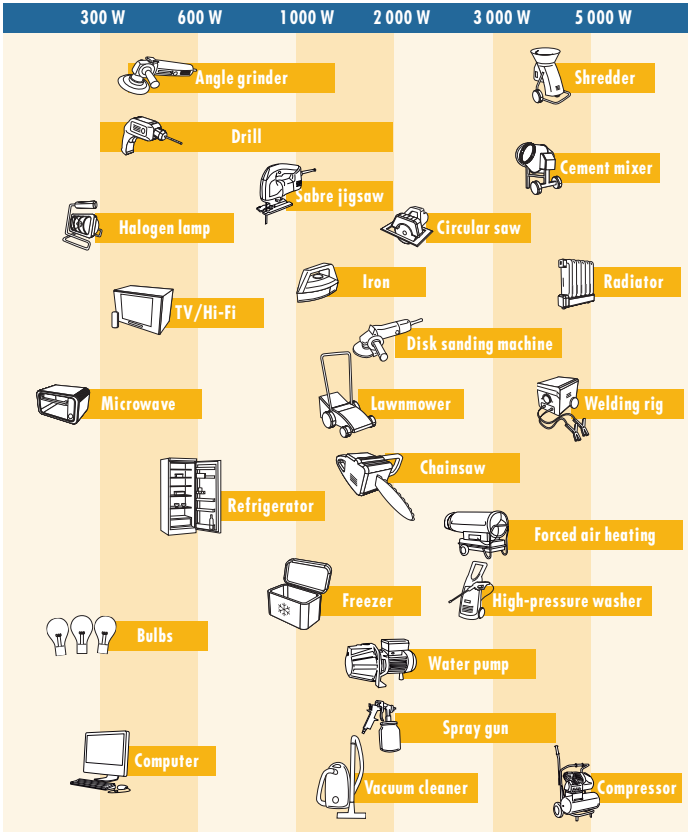
SDMO® designs generating sets that match your needs and that are fully adapted to why and how often you need them. There is a range for every profile: find yours and select the generating set that will give you total satisfaction.

Reminder of the safety rules associated with the use of a generating set

- The generating set should be started and operated in the open air, outside the building.
- If being used inside you must extract exhaust gas outside and provide appropriate ventilation so that anyone present is not affected.

2 What power do you need?

To help you choose your generating set the illustrated guide below, provided for information purposes only, lists the appliances most often used with generating sets.

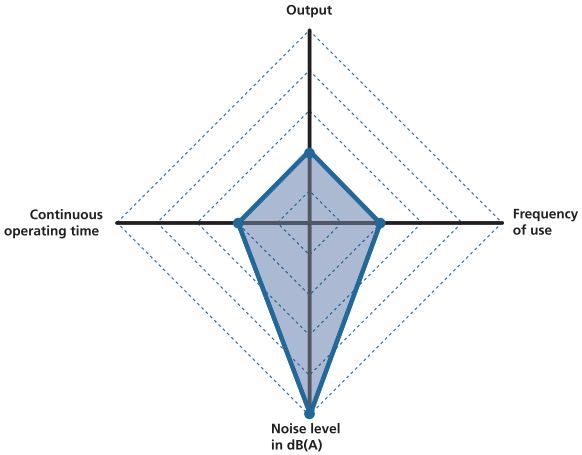


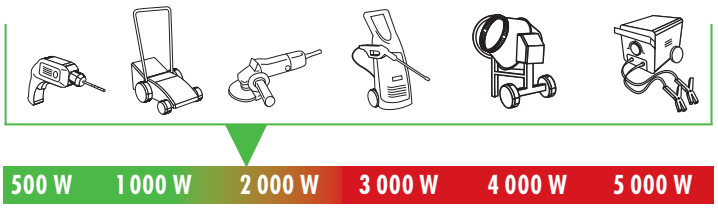
Certain appliances have a higher startup rating than the normal operating rating: this is called rated power. A starting coefficient, multiplied by the rated power, enables the power necessary for the proper functioning of the connected device to be determined. In any event you should ask your SDMO® specialist for advice.

3 Choose the generating set that best suits you.

You have defined your type of use and the output needed: you can now select your generating set in full knowledge of the facts, using the "radar" located beside the technical characteristics of all the SDMO® products in this guide.

Visual: it indicates on a scale of levels the capabilities of the set: power, continuous operating time, noise level and frequency of use. The larger the "echo", the higher the performance. Practical: the appliance strip enables you to visualise, at a glance, the equipment with which it can be used.





Good to know

All tools and appliances containing electronics are sensitive to variations in current: if you wish to use them with your generating set without damaging them, make sure that the generating set in question uses Inverter technology or AVR* which guarantees the stability of the generating's voltage and frequency to + or – 1 or 2 % of the rating. Such accuracy ensures high quality current is supplied enabling you to operate even your most demanding appliances without risk.

*AVR: see explanation page 7.

Visit the "Do you need help?" section of our website www.sdmo.com

You will find full information about our products on our website and can match your requirements to a product from our Portable Power range.

Robust and powerful

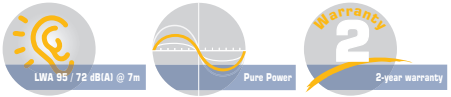
DIY

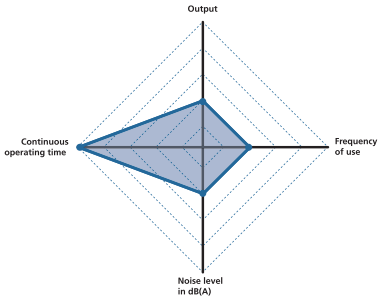
Gardening

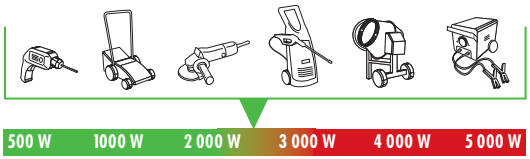
Emergencies

TURBO 2500

2.2 kW – 2.3 kVA(1) – 230 V
Olymp – ES 175-1 engine
Low oil safety cut-off • Circuit breaker
Run time: 10.9 hours • Weight: 45 kg
Equipped with a 12 V output.
Sockets: Two 230 V sockets + circuit breaker
One 12 V socket + circuit breaker.
Regulation: AVR.

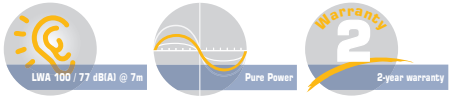


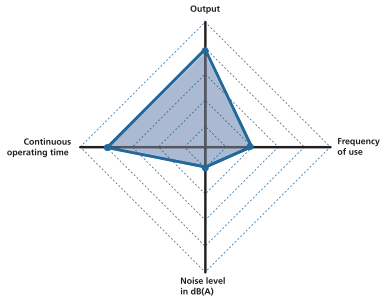


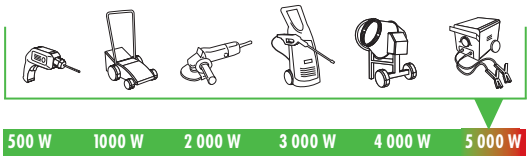


TURBO 5000

5 kW – 5 kVA(1) – 230 V
Olymp – ES 357-1 engine
Low oil safety cut-off • Circuit breaker
Run time: 6.7 hours • Weight: 75 kg
Equipped with a 12 V output.
Sockets: Two 230 V sockets + circuit breaker
One 12 V socket + circuit breaker.
Regulation: AVR.







(1)Theoretical value calculated for comparison purpose.
The noise level of the TURBO 5000 is such that it does not comply with Directive 2000/14/EC.

SDMO
FEATURE

12 V output
+ connector cables

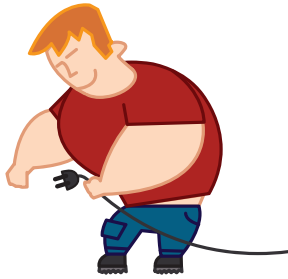
This enables you to power a 12 V appliance and, more particularly to recharge batteries.

AVR

Automatic voltage regulation ensures the voltage stability of your set by limiting its variation to + or – 2% of the rated voltage. In comparison, a generating set without AVR generally has a voltage anywhere from – 10% to + 10% of the rated voltage.

With a long run time and equipped with **2 wheels**, these generating sets are easier to transport and move around, thereby offering greater freedom of movement. Designed for construction site environments, their rigid chassis provides both stability and durability.

gift → Free accessories
See page 14.



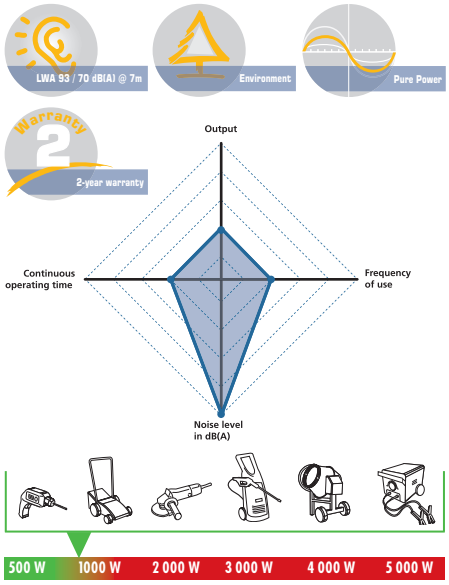
Handy and silent

Recreational activities

Gardening

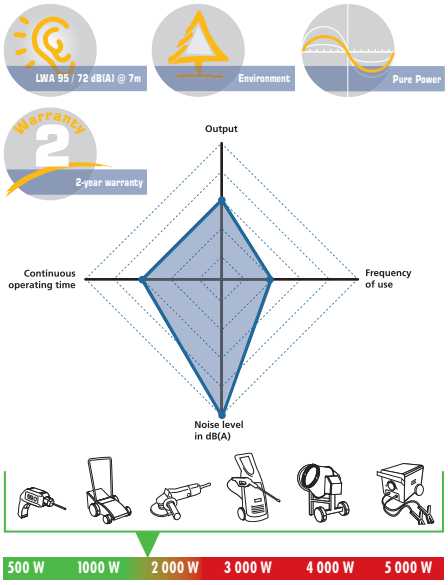
INVERTER NEO 1000

0.9 kW – 0.9 kVA(1) – 230 V
Olymp – ES 38-1 engine
Low oil safety cut-off • Circuit breaker
Run time: 2.8 hours • Weight: 14 kg
Sockets: One 230 V socket + circuit breaker + operating indicator.



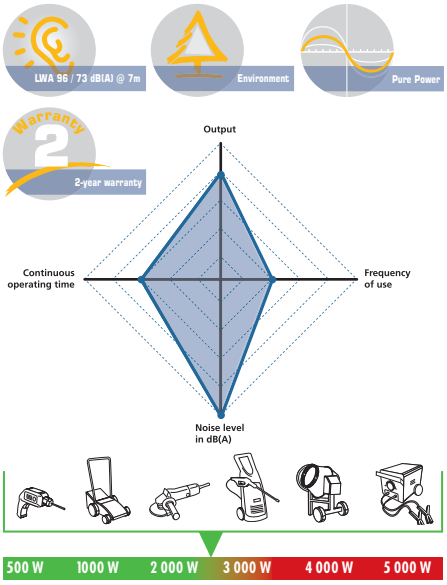
INVERTER NEO 2000

1.85 kW – 1.85 kVA(1) – 230 V
Olymp – ES 86-1 engine
Low oil safety cut-off • Circuit breaker
Run time: 3.7 hours • Weight: 21 kg
Equipped with a 12 V output.
Sockets: Two 230 V sockets + circuit breaker. One 12 V socket + circuit breaker + operating indicator.



INVERTER NEO 3000

2.6 kW – 2.6 kVA(1) – 230 V
Olymp – ES 128-1 engine
Low oil safety cut-off • Circuit breaker
Run time: 3.3 hours • Weight: 24 kg
Equipped with a 12 V output.
Sockets: Two 230 V sockets + circuit breaker. One 12 V socket + circuit breaker + hours counter + operating indicator.



SDMO FEATURE

The Inverter technology

By guaranteeing high quality current with voltage and frequency stability of + or – 1% of the rating, it ensures the safety of your demanding electronic appliances. By adapting the speed of the motor to the requested charge the Inverter technology helps to reduce polluting emissions and noise, while using less fuel. Another asset is its small size and low weight, making it even more comfortable to use.

gift → Free accessories See page 14.

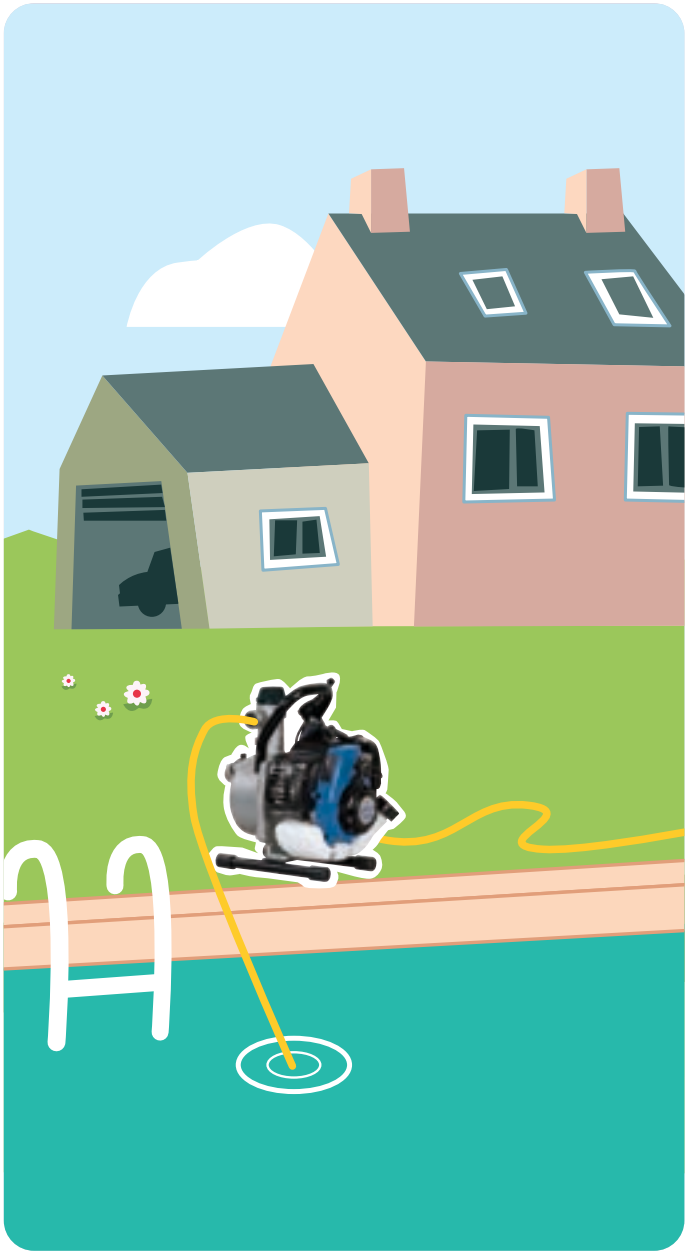
(1)Theoretical value calculated for comparison purposes.

3 essential steps to choosing the right water pump.

Water your garden, empty your swimming pool for a thorough cleaning or for the winter, pump out the water that has flooded your cellar, protect your facilities in the event of fire … the SDMO® automatic priming water pumps make the task at hand both easier and faster. High performance and economical they have multiple uses, provided you choose the right one. Follow the guide!

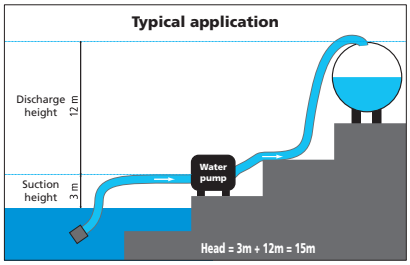
1 Assess the nature of the water to be processed

Clear water or water with small amounts of sediment such as silt or grit: the grading is important.
Attention: for special liquids (sea water, liquid fertiliser, hydrocarbons…), ask your SDMO® specialist for advice.



2 Consider the height of elevation

The importance of the elevation will depend on the configuration of the installation or the purpose for which it is used (draining, spraying, irrigation, emptying, washing). It is calculated from:



- **The suction height:** this is the height between the level of water pumped and the axis of the pump. The laws of physics dictate that this cannot exceed 8m.
- **The discharge height:** the height between the axis of the pump and the highest point of the network.
- **The head loss:** this is the resistance encountered by the water in the pipes. The longer, narrower and more twisted the pipes, the greater the loss (around 20% in standard installations).

Height of elevation = suction height + height of lift + head loss

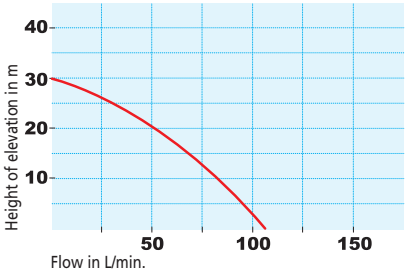
3 Determine the flow rate to choose the right output

The flow corresponds to the maximum quantity of water that can be extracted at a given height. It is determined by plotting the height of elevation in metres on the curve. From this the flow in L/min can then be deduced.

The height of elevation in metres determines the available pressure: it is divided by 10 to obtain a pressure in bar. If this pressure is insufficient you should choose a more powerful model.

The flow and the height of elevation are the main criteria to be considered when choosing your water pump.

Performance curve



AQUALINE™ OPEN *range*

Compact and versatile

Recreational activities

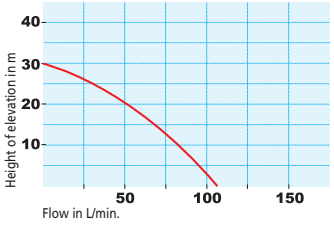
Gardening

CLEAR 1

Ø: 1" - 25 mm
Flow: 6.6 m³/h
Maximal pressure: 3 bar
Run time: 1 hour
Height of elevation: 30m
MITSUBISHI® TLE 20 engine (2 stroke)
Weight: 4.9 kg

INCLUDED ACCESSORIES

Piping kit with the CLEAR 1 water pump made up of 5m suction + 10m lift.

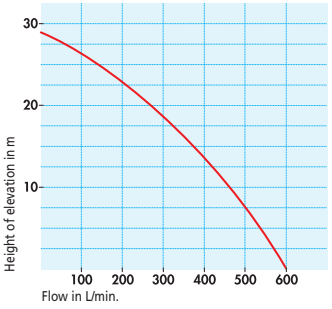


ST 2.36 H

Ø: 2" - 50 mm
Flow: 36 m³/h
Maximal pressure: 2.9 bar
Run time: 2 hours
Height of elevation: 29m
HONDA® GX 120 engine
Weight: 23 kg

OPTION

Optional piping kit for ST 2.36 H water pump made up of 5m suction + 25m lift.



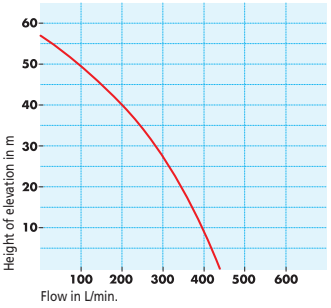
HP 2.26 H

High pressure pump
Ø: 2" - 50 mm • Flow: 26.4 m³/h
Maximal pressure: 5.7 bar
Run time: 3.4 hours
Height of elevation: 57m
HONDA® OHV GX 160 engine
Weight: 30 kg

OPTION

Fire safety application

This multifunction, high pressure pump with its powerful height of elevation and its optional lance kit is the essential tool for fighting fires until the emergency services arrive.



Free accessories supplied with the generating sets

gift

NEO TURBO

For commissioning

Funnel

For operation

Extension lead

12 V cable (not supplied with the NEO 1000)

Security cable (supplied with NEO 3000 only)

For storage and maintenance

Cover

Tool bag

Operating and maintenance manual

Options

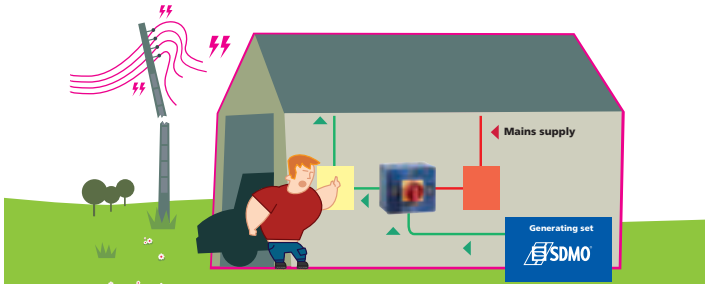
For the generating sets

Can of oil - Ref. RBH0.5

Can of oil 0.5 litre (SAE 15W40).

Manual changeover switch - Ref. R05M

This enables you to connect a generating set to a dwelling and manually control, in total safety the source of current in the event of insufficient power or mains supply return.
In the "mains" position, the dwelling is powered normally from the mains supply.
In the event of a power cut, you simply start the generating set so that it supplies power to the house wiring and turn the switch to the backup power position.



For the water pumps

Piping kit - Ref. R11

For ST 2.36 H water pump made up of 5m suction + 25m lift.

Lance kit - Ref. R09

Lance kit for HP 2.26 H water pump with 2 fire hoseconnectors, 25m fire hose, 5m intake hose and fire lance (with jet, spray, and off).

Cover - Ref. RHO

For ST 2.36 H and HP 2.26 H water pumps. Also available for the TURBO 2500 generating set.

Rapid connectors - Ref. R13

Rapid connections kit for 2" water pumps.

GENERATING SETS

50 Hz			Engine							Alternator							Options	
Type	Max power 230V		Brand	Type	Low oil safety cut-off	Electric start	HP 3600 rpm	Run time in hr	Tank in l	Circuit breaker 230 V	12V output	EEC noise level	dB (A) @7m	Dimensions l x w x h in cm	Weight in Kg	Trolley kit trailer	Cover	Changeover switch
	kW ISO 8528	kVA(1)										Lwa						
TURBO 2500	2.20	2.30	Olymp	ES 175-1	•	X	5.5	10.9	12.0	•	Yes	**95**	72	60.5 x 52 x 44.5	45	•	RHO	R05M
TURBO 5000	5.00	5.00	Olymp	ES 357-1	•	X	13.0	6.7	12.0	•	Yes	**100**	77	85 x 78 x 65	75	•	X	R05M
INVERTER NEO 1000	0.90	0.90	Olymp	ES 38-1	•	X	NC	2.8	1.7	•	No	**93**	70	45 x 26 x 39	14	X	•	R05M
INVERTER NEO 2000	1.85	1.85	Olymp	ES 86-1	•	X	NC	3.7	3.3	•	Yes	**95**	72	52 x 28 x 46.5	21	X	•	R05M
INVERTER NEO 3000	2.60	2.60	Olymp	ES 128-1	•	X	NC	3.3	4.3	•	Yes	**96**	73	59 x 30 x 55	24	•	•	R05M

WATER PUMPS

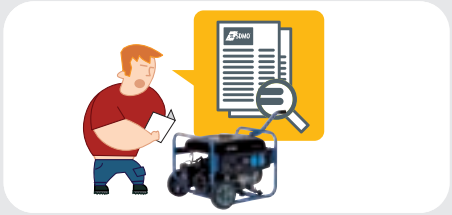
Type	Pump								Engine						Dimensions l x w x h in cm	Weight in kg	Accessories			Options		
	Suction Ø in mm	Lift Ø in mm	Height of elevation in m	Max flow in m³/hr	Max flow in L/min	Max suction height in m	Granulometry in mm	Automatic priming in mm	Brand	Type	HP 3600 rpm	Tank in l	Run time in hr	Low oil safety cut-off			Input/output connectors	Filter	Clamp	Cover	Piping kit	Rapid connections
CLEAR 1	25	25	30	6.6	110	8	8	Yes	Mitsubishi®	TLE 20 (2-stroke)	0.8	0.4	1.0	X	29 x 24.5 x 31.9	4.9	2	1	3	X	•	X
ST 2.36 H	50	50	29	36.0	600	8	8	Yes	Honda®	GX 120	3.5	2.0	2.0	•	46.8 x 36.2 x 38	23	2	1	3	RHO	R11	R13
HP 2.26 H	50	50	57	26.4	440	8	8	Yes	Honda®	GX 160	4.8	3.1	3.4	•	41.5 x 54.5 x 45.5	30	2	1	3	RHO	R09	

(1) Power in kVA: theoretical value calculated for comparison purposes. X Not available. • Connected in series. NC Not communicated.
The noise level of the TURBO 5000 is such that it does not comply with Directive 2000/14/EC.

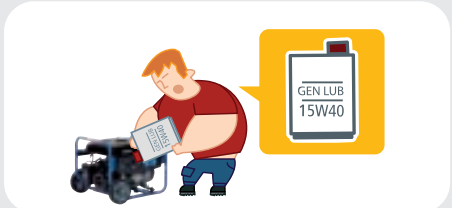
COMMISSIONING

In order to safeguard your Portable Power SDMO® equipment and use it in the best conditions we advise you to adhere to the following recommendations:

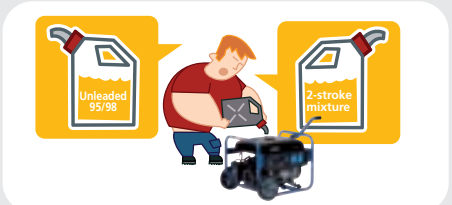
1. Read the user manual supplied with the generating set and refer to it for any questions relating to the operation or use of the generating set.



2. Fill the oil up to the recommended level. Always use 15W40 oil.

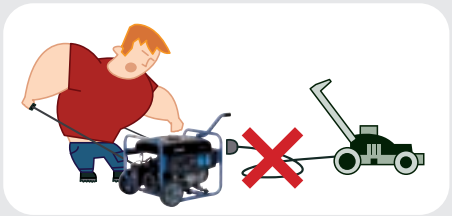


3. Fill it with fuel: unleaded 95/98 petrol or 2-stroke mixture.

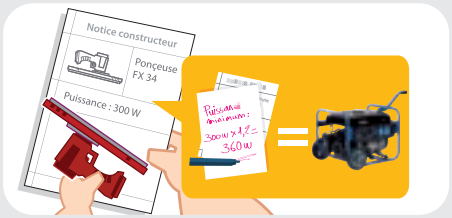


4. Use your generating set outside.

5. Never plug in any electrical appliances before starting it up.



6. Always verify the compatibility of the equipment to be connected: power (watt) and voltage (volt).



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