



## INDUSTRIAL RANGE NEW DESIGN

POWER FROM A NEW ANGLE

**KOHLER**<sup>®</sup>  
**SDMO**<sup>®</sup>

MK-PP-ND-DO-EN-181

## KEY POINTS

KOHLER® | SDMO®

ACCESS THE HIGHEST  
LEVEL OF PERFORMANCE



### OPTIMIZED AND CERTIFIED SOUND LEVELS

Optimized and certified sound levels. Measurements:

- ▶ taken using the sound intensity technique (the most accurate method available)
- ▶ certified by CETIM (The Technical Centre for Mechanical Industry)
- ▶ carried out in a laboratory accredited by COFRAC (The French Accreditation Committee).



### PRODUCING HIGH-QUALITY ELECTRICITY

Producing high-quality electricity in terms voltage and frequency, in compliance with standard ISO8528-5, ensures improved starting capacity and optimum load capacity for sensitive applications.



### POWER GUARANTEED EVEN IN EXTREME CONDITIONS

The engineering department at SDMO Industries ensures the cooling systems are perfectly equipped so that the generating sets provide maximum power even at high temperatures.



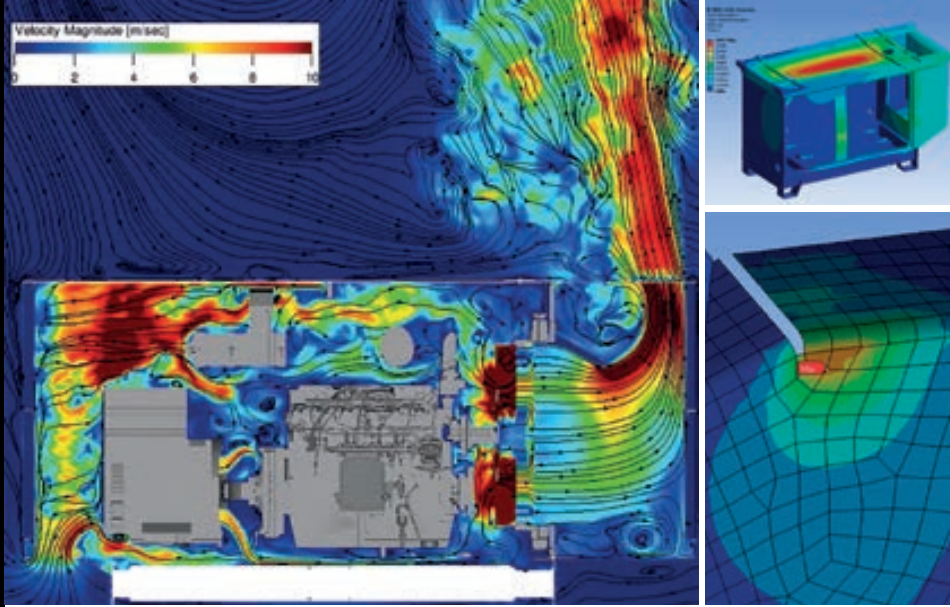
### PROTECTING INSTALLATIONS AND PEOPLE

Every day, SDMO Industries works hard to develop enhanced solutions to protect our generating sets and the people who use them (e.g. modular control of neutral systems, precision circuit breakers, motor preheating).



### QUALITY TESTS AND ANALYSES

Every KOHLER-SDMO generating set is prototyped in the laboratory and tested in production to ensure it operates correctly.



## KOHLER-SDMO, THE BEST ENERGY SOLUTIONS ON THE MARKET

From offshore drilling platforms to harsh desert conditions, from building sites to the most exacting industries, KOHLER-SDMO generating sets have proven their performance and reliability time and time again. From 1 KW to 200 MW, they meet every need in every application.

## THE GENERATING SET'S ENCLOSURE, A MAJOR COMPONENT

The service life of the electrical generating set is optimized, thanks to the high-quality of its enclosure and base frame. These protect its components and ensure it operates correctly, even in the most extreme conditions (e.g. high temperatures, dust, humidity, sand). Made from carefully selected materials, they are subjected to numerous tests to ensure their resistance against bad weather and difficult climate conditions.

## NEW DESIGN AND ERGONOMICS FOR EVEN GREATER PERFORMANCE

The teams in the design department at SDMO Industries have joined forces to offer you a new enclosure design. Their aim in doing so is **to optimize the performance of our generating sets while offering you enhanced ergonomics, a more compact design and greater modularity.**



## PLUG & PLAY

SIMPLE TO INSTALL,  
EASY TO USE



BUILT-IN FUEL TANK  
FOR SAFE REFILLING



QUICK AND EASY CONNECTION



READY TO USE!



## HIGH-QUALITY MATERIALS

- ▶ New high-quality European steel with enhanced corrosion resistance
- ▶ Base frame with two coats of paint
- ▶ Optimized anticorrosion (prevents water infiltration and stagnation)
- ▶ Highly durable QUALICOAT-certified epoxy paint, specially developed for KOHLER-SDMO



## NUMEROUS RESISTANCE TESTS ENSURE AN OPTIMUM SERVICE LIFE

- ▶ Enclosures and base frames tested and analyzed by the French Corrosion Institute
- ▶ Enclosures guaranteed to withstand 1500-hour exposure to salt spray (according to standard ISO12944)
- ▶ Monthly conformity tests according to requirements via supplier samples
- ▶ Annual UV resistance testing
- ▶ Evaluation of resistance to corrosion and its propagation
- ▶ 100% of tanks are tested for permeability, to prevent any risk of leaks



## SAFETY OF PERSONS & PROPERTY

- ▶ Electrical continuity ensured for the enclosure/base frame assembly
- ▶ Personal protection ensured by protective grilles, hot and rotating parts of the enclosures meeting the strictest standards (machinery directive 2006/42/EC)
- ▶ Ergonomic access to allow easy maintenance and connection
- ▶ Base frame with retention to protect the environment
- ▶ Stainless IP64 locks
- ▶ Modular circuit breaker adapted to the short-circuit current of the generating set.



## COMPACT DESIGN

### SMALL DIMENSIONS, BIG PERFORMANCE!

Thanks to our innovative engineering, the compact generating set design of our new range of enclosures has been further enhanced, resulting in units which can fit even the most confined spaces, meaning lower costs for transportation and storage.

### DISCOVER ONE OF THE MOST POWERFUL COMPACT DESIGNS ON THE MARKET!

Thanks to KOHLER DIESEL KDI motor technology, our generating sets offer the most compact design while delivering the same powerful performance.

By virtue of its outstanding technological performance and new design, KOHLER-SDMO is offering a 66 kVA generating set in the same enclosure as 22, 33 and 44 kVA generating sets!

FOCUS

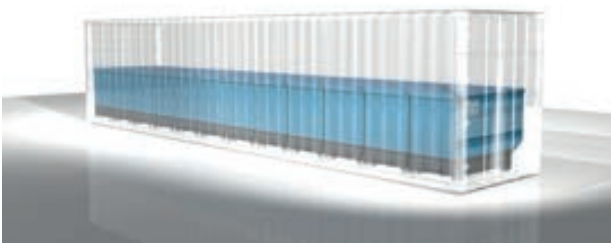


## LOWER COSTS FOR TRANSPORTATION AND STORAGE!

Transporting and storing generating sets can be very expensive. Our design offices have succeeded in reducing these costs by optimizing the height of the enclosure. This reduction means that generating sets up to 66 kVA can now be stacked inside a 40-foot container.

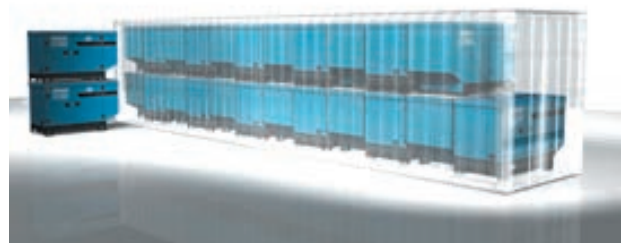
### BEFORE

- ▶ 10 to 12 generating sets in a single row (stacking not possible)



### AFTER

- ▶ 23 generating sets stacked in two rows without a false floor



# NEW DESIGN



## OPTIMUM ERGONOMICS

### ▶ Improved generating set access

The opening of the doors has been enhanced for maintenance operations (e.g. checking the levels, changing the filters).



### ▶ Large removable maintenance panel

Secured by 4 captive screws, this special panel provides maintenance technicians with ample access to the generating set for more delicate operations



### ▶ Cable gland for quick connection

Quick installation and connection for instant start-up

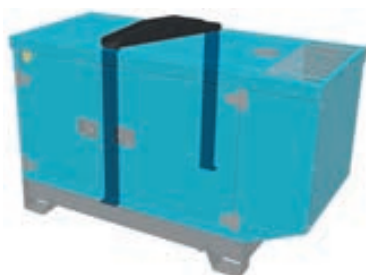


## NEW ACCESSORIZED FUNCTIONS

Easy to install "plug & play" accessories supplied complete with assembly manual to suit all markets.

### ▶ Lifting eye

Easy to install, this is used for handling operations on the generating set



### ▶ Preheating the engine block

- Improved start-up capacity at low temperatures
- Immediate application of the load
- Reduced smoke emissions on start-up



### ▶ Large stock of items of equipment available for retrofitting

- Silencer 9 dB(A), 29 dB(A) or 40 dB(A)
- Differential protection (fixed or adjustable)
- ON/OFF key
- Feedback pack
- Wide range of changeover switches with control



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Tous les produits SDMO Industries  
sont certifiés par un  
laboratoire accrédité  
ISO 17025



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**KOHLER**  
IN POWER. SINCE 1920.



**INDUSTRIAL  
RANGEDATA APP.**  
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