

REAL POWER FOR YOUR RENTAL EQUIPMENT

The new ENDRESS Rental Line

Builders who need power for various pieces of equipment, event organisers who need quiet but powerful generators, communities in need of temporary backup power solutions, or project managers looking for resilient but environmentally compatible performance – chances are you have many different customers with many different needs. But rather than having different solutions for your rental equipment, one fits the bill every time: the new **ENDRESS Rental Line**.

Specially designed for hire purposes, the ENDRESS Rental Line brings together easy **handling, simplified maintenance and optimised** efficiency and operating time in a compact format. Well thought out and inspired by feedback from rental companies who are long-term partners, it is an innovative and economical solution designed to support the success of your rental business and your customers' projects.

With models ranging from 20 to 50 kVA, both rental companies and users benefit from the expertise of ENDRESS.

3A



ENDRESS RENTAL LINE

TECHNICAL DATA

RENTAL LINE

GENSET MODEL

ESE 20 YW/RS

ESE 30 YW/RS

ESE 45 YW/RS

ESE 35 YW/RS

ESE 50 YW/RS

Code	333 271	333 272	333 274	333 273	333 275
Maximum power [LTP](KVA/KW)	19.6/15.6	32.5/26	46//36.8	32.5/26	46//36.8
Continuous power [COP](KVA/KW)	17.9/14.3	30.5/24.4	42/33.6	30.5/24.4	44/35.26
Alternator type	Mecc Alte	Mecc Alte	Mecc Alte	Mecc Alte	Mecc Alte
Alternator model	ECP 28-M/4A	ECP28-VL/4A	ECP32-3S/4A	ECP28-VL/4A	ECP32-3S/4A
Design-insulation	Synchronous/ Class H	Synchronous/ Class H	Synchronous/ Class H	Synchronous/ Class H	Synchronous/ Class H
Nominal voltage	400/230V	400/230V	400/230V	400/230V	400/230V
Nominal current/cos	25.8A 3-/0.8	44A 3-/0.8	60.6 3-/0.8	44A 3-/0.8	63.5/0.8
Frequency - regulation	50Hz/Electronic	50Hz/electronic	50Hz/electronic	50Hz/electronic	50Hz/electronic
Engine					
Engine manufacturer-model	Yanmar/4T- NV88-GGE	Yanmar/4T- NV98-GGE	Yanmar/4T- NV98T-GGE	Yanmar/4T- NV98-ZGGE	Yanmar/4T- NV98T-ZGGE
Design	4 cylinder 4-stroke	4 cylinder 4-stroke	4 cylinder 4-stroke	4 cylinder 4-stroke	4 cylinder 4-stroke
Emission	Stage 3a	Stage 2	Stage 2	Stage 3a	Stage 3a
Displacement	2190 cm ³	3319 cm ³	3319 cm ³	3319 cm ³	3319 cm ³
Engine output [PRP] /kW	16.9kw	31.2kw	38.3kw	32.9kw	40.2kw
RPM- regulation	1500/Mechanical	1500/Mechanical	1500/Mechanical	1500/Electronic	1500/Electronic
Start-up system - battery	E-start/12V	E-start/12V	E-start/12V	E-start/12V	E-start/12V
Fuel - tank capacity (liter)	Diesel/91	Diesel/200	Diesel/200	Diesel/200	Diesel/200
Consumption-running time at 75% Load	3.7l/25h	5.8l/34h	7.9l/25h	5.9l/34h	8.3l/24h
Sound power level LWA dB(A)	92	93	91	93	90
Sound pressure level LPA (7m)	63	64	62	64	61
Weight in kg	882	1054	1129	1074	1146
Dimensions LxWxH in mm MM	2130x950x1115	2280x950x1200	2280x950x1200	2280x950x1200	2280*950*1200

Panel sockets configuration

CEE 400V/63A	1x CEE 400V/63A	1x CEE 400V/63A	1x CEE 400V/63A	1x CEE 400V/63A	1x CEE 400V/63A
CEE 400V/32A	1x CEE 400V/32A	1x CEE 400V/32A	1x CEE 400V/32A	1x CEE 400V/32A	1x CEE 400V/32A
CEE 400V/16A	1x CEE 400V/16A	1x CEE 400V/16A	1x CEE 400V/16A	1x CEE 400V/16A	1x CEE 400V/16A
CEE 230V/16A	1x CEE 230V/16A	1x CEE 230V/16A	1x CEE 230V/16A	1x CEE 230V/16A	1x CEE 230V/16A
230V/16A Schuko	1x230V/16A Schuko	1x230V/16A Schuko	1x230V/16A Schuko	1x230V/16A Schuko	1x230V/16A Schuko

Special equipment

Code	Label	Comment
342032	Twilight switch (start/stop)	for all models
342033	Floating switch (start/stop)	for all models
341124	Mobility kit HV**	ESE 20
341126	Mobility kit HV*	ESE 20
341125	Mobility kit HV*	ESE 30-50
341127	Mobility kit HV*	ESE 30-50
342230	Endress Hybrid System EHS 4/11 - R	ESE 20
342231	Endress Hybrid System EHS 4/11 - R	ESE 30-50

*Rental Baseframe will be no part of the scope of supply

Accessories

Code	Label	Comment
343000R	Changeover contactor E-US 32	ESE 20
343002R	Changeover contactor E-US 60	ESE 30, 35
343003R	Changeover contactor E-US 90	ESE 45, 50
342220	E-RMA SIM	for all models
342221	E-RMA LAN	for all models



**RENTAL
LINE**
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ENDRESS ®

THIS IS **ENDRESS**

ENDRESS – the real power

With production and development in Germany, ENDRESS has been delivering real power to international markets since 1914.

The Bempflingen-based company is a leading manufacturer of mobile and stationary generators. In its product ranges, technical performance, ambitious ongoing development and a passion for quality are channelled into mature, sophisticated solutions whose user-friendliness proves itself day after day.

real power for every application

The company's experience and expertise are put to good use in a wide range of applications. From projects in industry, construction and agriculture to backup power supplies and rescue and emergency applications where every second counts, ENDRESS delivers real power – and has the right solution in its mature product mix. When real power is your core competency, it's not limited to a single user group and your expertise is in demand all over the globe.



Flexibility in location and application



Rental Line models are equipped with electronically controlled, brushless and therefore maintenance-free brand-name synchronous generators and prov Yanmar motors for uninterrupted performance. The performance is supported by the intelligent cold start capability which ENDRESS delivers through both coolant and air preheating even at low temperature (down to -25°C). This gives the generators an extensive field of use, ideally complemented by a design optimized for rental purposes including a sturdy frame, skid function and optional chassis. So every model is mobile and easy relocation is ensured.

This added flexibility is also reflected in the range of uses, because with the tried-and-tested ENDRESS E-MCS 6.0 controller with manual and automatic function, the Rental Line provides a constant power supply for connected consumers as well as safeguard backup power supplies. The Hybrid System also enables to provide temporary power for single-phase consumers directly from batteries.





Power from the panel

The functions of the Rental Line can be easily accessed with the ENDRESS E-MCS 6.0 controller via the user-friendly panel with IP54 protection, which is easy to remove for maintenance and comes with individually fused sockets and an earthing kit. The quick, easy changeover between manual and automatic function makes it possible to connect a building site power distribution board with the integrated terminal block and safeguard backup power for the grid. For backup power, the quick connector can be used to rapidly connect the changeover contactor and the E-MCS 6.0 without the need for time-consuming wiring. It also allows remote start options such as a twilight switch or floating switch to be installed with ease.

For users who require mobile backup supplies for buildings, the Rental Line is also available with IT/TN technology. The prepared ERMA SIM also provides added autonomy and control for all variants of the ENDRESS Rental Line.

Up and running – and ultra-quiet for up to 34 hours

With the ENDRESS Rental Line there is no need to worry about long operating hours in noise-sensitive environments. The large steel tank enables uninterrupted operation for up to 34 hours with low sound levels starting at 90 dB(A). Refilling is easy thanks to the large filling neck with fuel prefilter and the second, analogue tank display right beside it. To further extend the operating time, the Rental Line also comes with a 3-way stopcock and outlet for external refuelling.



ENDRESS RENTAL LINE
WITH MOBILITY KIT

No long waits for maintenance and service

When a generator is first set up, rapid availability has top priority. The same applies to any maintenance and service work that might be required. This is where the right design comes into its own. The extra maintenance door gives quick access to the coolers and sound absorbers, while the easy-to-remove panel and large drip pan with integrated audible leak alarm provide access to the generator. Rapid access to the unit, which is protected against vandalism and only available to authorised persons, is optimised by the main battery switch to prevent complete discharge during downtimes, the manual oil pump and the water separator. The extra manual operating hours counter also provides extra peace of mind.



Service door for easy access to muffler and cooler. Rental baseframe with folk lift pockets and bumpers

Mobile energy

Rental solutions supply power where it's needed. With ENDRESS, it couldn't be easier. The ENDRESS Rental Line is extremely versatile because the generators can be moved with the crane loading lug, towed with the tow bar and skids, transported with the end-to-end forklift pockets with rubber guides or moved on the DEKRA-approved, rigid or height-adjustable ALKO chassis. They are also perfectly adapted to harsh environments, because in addition to the sturdy frame they feature a galvanised cover that won't rust.



Metal fuel tank with pre-filter and leak proof tray, plus leakage warner



Manual Oil pump



Battery main switch



3 Way fuel valve



Diesel Filter with water separator



2nd optical fuel meter



Coolant preheating and air preheating

More than just power

Quiet power from batteries too

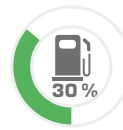
The patented Hybrid System powered by PRETTLeenergy, ensures that single-phase consumers can still be powered temporarily even without direct generator power.

In line with the principle of 'separate but united', the ENDRESS Hybrid System is based on the clear separation of 3-phase and AC power applications. The battery cells of the modular system, including the necessary electronics, are housed in a slide-in module which can be easily removed with an industrial truck and is therefore easily accessible. The cadmium-free lead-acid batteries with a lifetime of around 2200 load cycles at a DoD of 60% are automatically charged via the generator with an intelligent, automatic start/stop function. Because the batteries have deep discharge protection, this works even at low winter temperatures.

Everything under control with E-RMA - the ENDRESS Remote Monitoring Application

Location determination, remote monitoring, history function for easy error source identification and maintenance support – with E-RMA SIM you can keep a close eye on the generator without being physically near it or having a network connection. All you need is a GSM card with a data tariff. After installing it in the generator you can conveniently access the data of the rental solution and perform remote starts/stops and error resets from a smartphone, tablet, PC or other device with a non-system-dependent web browser. If a critical situation arises unexpectedly, the system sends the available information directly to you by e-mail or SMS. So you are kept fully informed at all times, giving you even more autonomy and the associated peace of mind.

Why choose hybrid?



Fuel reduction of around 30% as the generator can sometimes be completely switched off when supplying consumers with 4 kVA.



Reduction of up to 50% in maintenance costs and longer lifetime because the generator runs in the ideal speed range even with low external power consumption.



Extended range of applications thanks to reduced noise and pollutant emissions for better on-site environmental and working conditions.

powered by

PRETTL
energy

