RTE PX 14

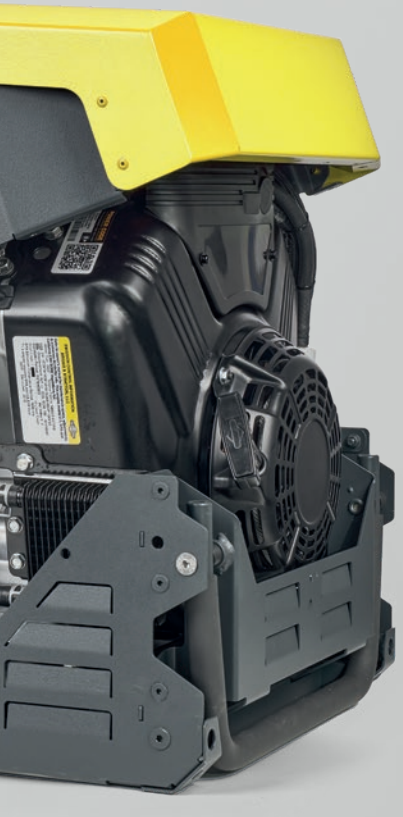
Rosenbauer Technical Equipment

Power generators in the 14 kVA class.

A powerhouse for any situation.

rosenbauer

The RTE PX 14 power generator from Rosenbauer is powerful yet lightweight, and designed for sustained use. Both the Basic version and the sound-insulated Super Silent version handle disaster operations and new functions such as emergency power supply to buildings with ease.



RTE PX 14.

A powerhouse for any situation.

Power generators are an essential part of any fire department's basic equipment. They also supply electrical power for lighting systems, submersible pumps and other equipment in remote locations. The RTE PX 14 from Rosenbauer is a top-of-the-line model that is extremely easy to use and combines the best handling features with great performance thanks to its low weight and compact dimensions. The mobile power generator thus covers the standard range of fire crew operations, but is also equipped to deal with all the specific challenges of disaster control and more.

Universally deployable and sustainably designed

Fire departments are increasingly called upon to supply emergency power to buildings – including their own fire station. This requires a power output that can quickly overwhelm smaller generators. Not so the RTE PX 14: This is a powerhouse for any situation.
The design process placed huge emphasis on sustainability, which resulted in the manufacturer dispensing with glass-reinforced plastics altogether. The housing of the RTE PX 14 is made of aluminum, so it is 100% recyclable.

Our name is our bond: Rosenbauer

For over 150 years, Rosenbauer has led the way as a pioneer and a partner for emergency services. We are unique in our ability to deliver effective solutions for every single decisive moment in fire and disaster control. From preventive fire safety systems to all types of emergency vehicles, from digital applications to personal and technical equipment. As system providers, Rosenbauer handles all these fields with competence and experience.

For Rosenbauer, perfection means preserving our legacy as a driver of progress. That's why we continue to set new standards with our technological innovations in fire and disaster control. Through in-depth conversations with our clients, we develop exactly the right solutions so that we can be at your side when you need us most. Worldwide. Everything you need to be optimally equipped for that decisive moment.

One generator, many possibilities.

Power that makes sense.

The RTE PX 14 power generator owes the last part of its name to the performance class of generators to which it belongs. Its 13.6 kVA output equates to usable active power of around 11 kW. That's a lot, but it's not excessive. Instead, it ensures that you're perfectly equipped for every scenario in day-to-day fire service operations – and for unexpected ones, too.

The RTE PX 14 at a glance:

- Power: 13.6 kVA, equivalent to 10.9 kW
- 2 water pressure-tight 400 V sockets
- 3 water pressure-tight 230 V sockets
- Dimensions: 820 x 440 x 580 mm (32.3 x 17.3 x 22.3 in) (DIN 8 size)
- Weight: approx. 148 kg (326.3 lb) (Basic) or approx. 152 kg (335.1 lb) (Super Silent)

Power for technical use

Fire departments are often deployed on technical operations. The RTE PX 14 is capable of powering the necessary tools and lighting. Its power output is also usually sufficient to supply the emergency vehicle itself with electricity, so it no longer needs to be operated in idle mode. This significantly reduces fuel consumption and pollutant emissions.

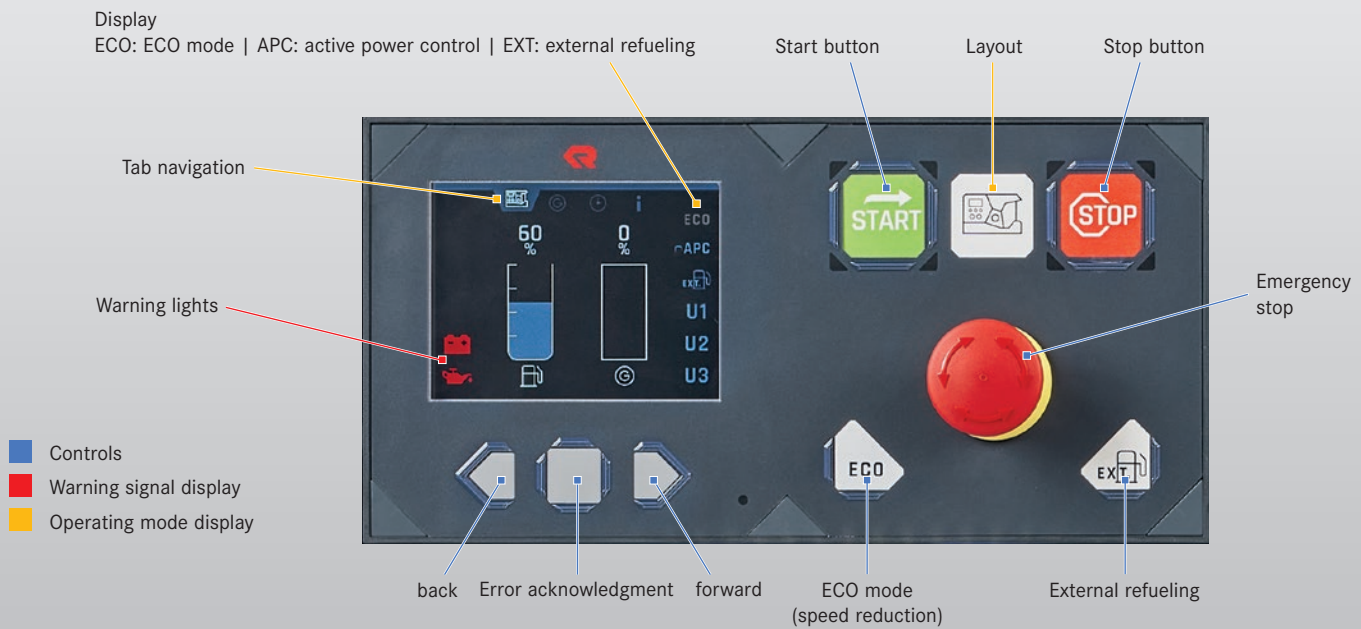
Emergency power supply in the event of a blackout

With active power of around 11 kW, the RTE PX 14 can supply an entire building with power. If there's a disaster and the lights go out, the power supply from Rosenbauer uses its power socket to ensure that they don't stay out for long, so important consumers like laboratories can continue working.

Made for flood use

Storms are becoming ever more common, and with them flood operations. Submersible pumps are an increasingly important tool. These are supplied with energy from powerful generators like the RTE PX 14, which supplies several pumps at the same time. Indeed, its design is better suited to the simultaneous operation of equipment with long start-up times than any other model on the market. This gives firefighters the security of trouble-free pump operation, especially during floods.


RTE PX 14 SUPER SILENT
STOP
ECO
Benzin min.
ROZ 91
Vor dem Öffnen des Tankdeckels Gerät abstellen und einige Minuten abkühlen lassen!
Maximale Schräglage bei externer Betankung +/- 5°
rosenbauer


Display
ECO: ECO mode | APC: active power control | EXT: external refueling
Start button
Layout
Stop button
Tab navigation
Warning lights
Emergency stop
START
STOP
ECO
EXT
60
0
U1
U2
U3
Controls
Warning signal display
Operating mode display
back
Error acknowledgment
forward
ECO mode (speed reduction)
External refueling

Extremely easy to operate.

For safety and rapid response.

The RTE PX 14 controls are self-explanatory, eliminating the need for lengthy training sessions and preventing operating errors during use. The control unit also resembles the design of other Rosenbauer products, making it even easier to use.

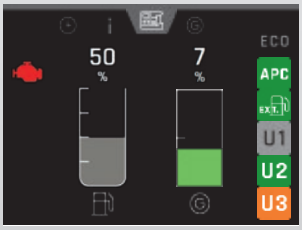
One-push start: just press to get the power flowing

You can see just how easy the power generator is to operate as soon as you start it up. With the RTE PX 14, there's no need to open the gas cock and pull the starter cable. Simply press “Start”, and the generator does its work.
It all happens in an instant and requires no prior expertise.

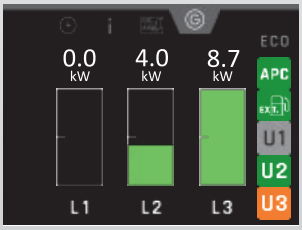
Clearly visible: key information and details

The RTE PX 14 display shows the most important information: tank level and total capacity utilization. Further details of ongoing operation are also displayed at the touch of a button.

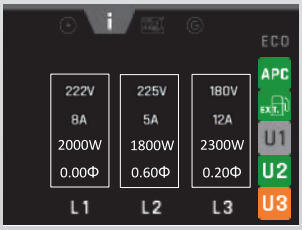
Display views in detail.



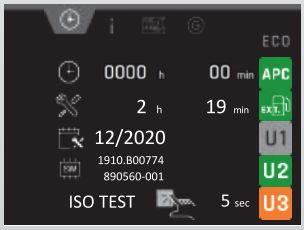
*The **main view** provides the most important information at a glance:*
- *fuel level*
- *total capacity utilization*
- *voltage within permissible range (green = OK, red = not OK)*



*The **detailed view** shows the load distribution – the output for each phase and whether the voltage is within the permissible range. This view is especially important for firefighters, as potential overloads can be identified and responded to rapidly.*



*In the **expert view**, you see the status of the connected consumers in even greater detail. Voltage, current, active power and cosine phi are broken down for each phase. This makes it much easier to search for the cause of any error.*



*The **service view** contains the operating hours display and the checking sequence for insulation errors.*

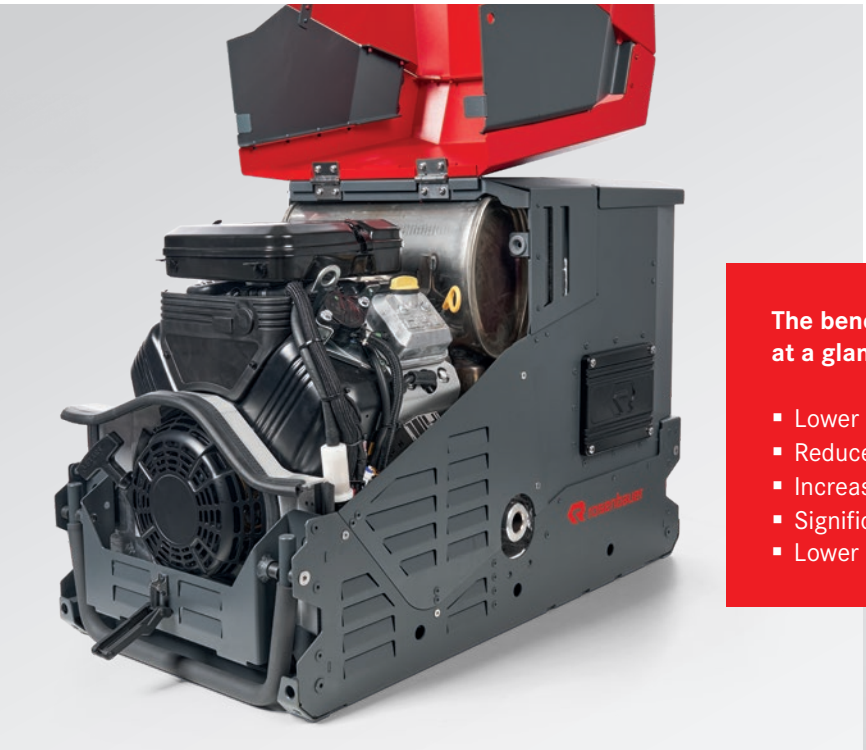
Powerful and cost-effective.

Thanks to cutting-edge technology and smart details.

When it comes to firefighting, safety and reliability are top priorities. The RTE PX 14 from Rosenbauer meets these requirements while ensuring efficiency and cost-effectiveness through its use of the latest technology and ingenious details.

Injection technology for greater reliability and a longer running time

A Briggs & Stratton Vanguard unit with gasoline injection ensures that the RTE PX 14 can be relied on to provide constant power. Precision control of the injection quantity and timing reduces consumption in the partial load range by 25%, for a markedly increased running time compared to generators with carburetor technology.

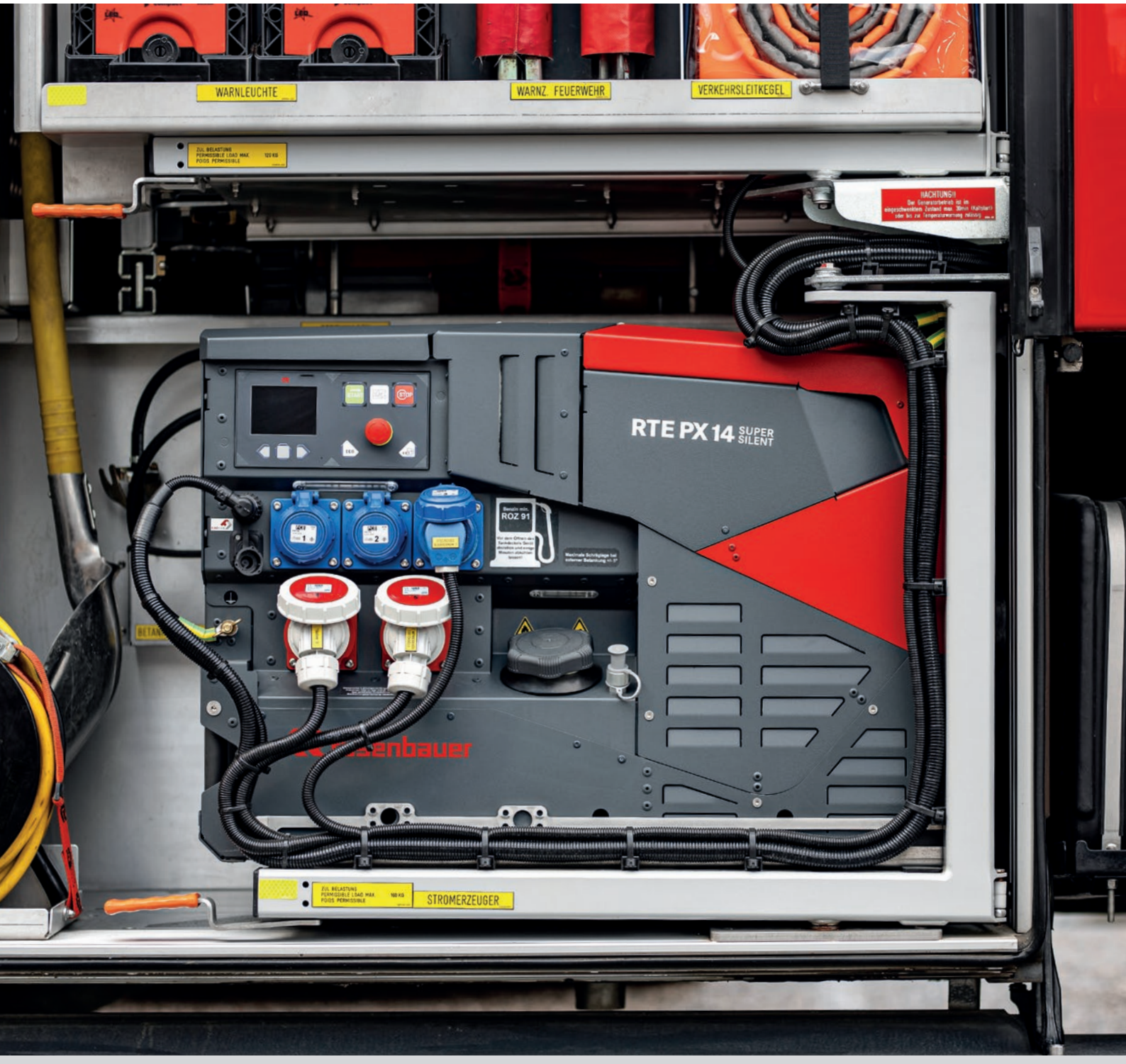


The benefits of the fuel-injected engine at a glance:

- Lower consumption with more power
- Reduced running costs
- Increased reliability in all conditions
- Significantly easier to use
- Lower emissions

Reduced noise and consumption with ECO mode

ECO mode uses electronic speed reduction to ensure minimal noise pollution and reduced consumption when no power is required. Only when consumers are switched on does the motor automatically run up to the nominal speed so that full power is immediately available.



Greenstar operation to reduce overall consumption during use

If operations do not require a water pump, the emergency vehicle does not need to be left running on idle. The RTE PX 14 is sufficient to supply ambient lighting, radios and similar consumers with electricity and enables reduction in consumption of over 60% (idle-running consumption for an emergency vehicle is around 8 liters per hour (2.1 US gal/h); with the RTE PX 14 this falls to 3 liters per hour (0.8 US gal/h)).

Safe and enduring.

Thanks to an ingenious refueling concept.

The tank capacity of the RTE PX 14 is about 12 liters (0.3 US gal), which takes you a long way. And if the deployment turns out to be a long one, ingenious Rosenbauer solutions help to prevent interruptions and dangerous situations when refueling.

Automatic refueling with canisters

The standard automatic refueling system is highly convenient and reliable. Instead of manually switching to an external fuel supply via a faucet, all you have to do is press a button. This activates a separate pump and the generator is supplied with gasoline from the canister. The advantages:

- 30% longer operation without interruption
- Simple, safe refueling during operation
- Refueling regardless of the height at which the canister is positioned
- Trouble-free use – even at very high ambient temperatures

Safe refilling of fuel

Because refilling with fuel always entails a certain risk, Rosenbauer places particular importance on an optimized refueling corner and on ensuring perfect design for all the associated components.

- Deep-set tank
- Large, ergonomically positioned tank filler opening (separate and deep-set)
- Connection for external refueling set
- Safety tank cap
- Tank protected by high-strength aluminum carrying case
- LED lighting for better visibility
- Optical and acoustic warnings

Technical data

General	RTE PX 14 Basic	RTE PX 14 Super Silent
Use	Fire departments or users with increased protection requirements	
Specifications	ÖBFV-RL ET-01 power generator 8 kVA with enhanced performance, DIN 14685-1	
Unit		
Dimensions	820 x 440 x 580 mm (32.3 x 17.3 x 22.3 in) (DIN 8 size)	
Weight	approx. 148 kg (326.3 lb) incl. tank filled for 1.5 hours of operation	approx. 152 kg (335.1 lb) incl. tank filled for 1.5 hours of operation
Power	Pel, 3~ = 13.6 kVA / cos φ = 0.8 / 10.88 kW Pel, 1~ = 4.5 kVA / cos φ = 0.8 / 3.6 kW ∑ Pel, 1~ = 3 x 4.5 kVA = 13.6 kVA	
Nominal power	19.7 A 3~ / 29.6 A 1~	
Line protection	16 A 3~ / 16 A 1~	
Sound power L_{WA}	approx. 98 dB(A)	approx. 96 dB(A)
Sound pressure (4 m operation without load)	approx. 78.4 dB(A)	approx. 76 dB(A)
Type of protection	IP54	
Tank content	approx. 12 L (0.3 US gal)	
Runtime at full load	approx. 2 hours	
Finish	RAL 3000 (red) or RAL 1012 (yellow)	
External power supply	12 V supply for vehicle connection	
Generator		
Type	Synchronous with electronic controller	
Voltage	230/400 V	
Voltage stability	+/- 5%	
Frequency	50 Hz	
Power factor	cos φ = 0.8	
Nominal power	20.3 A 3~/30.4 A 1~	
Motor		
Manufacturer	Briggs & Stratton Corporation USA	
Type	23 PS Vanguard EFI	
Type	2-cylinder OHV 4-stroke gasoline engine, cool cleaner	
Control performance	+/- 5%	
Ignition	Electronic	
Fuel	Unleaded fuel, min. 91 RON	
Exhaust gases	Meets emission standard 2002/88 EC	
Consumption	Approx. 6 L/h (1.6 US gal/h) during full load	
Assembly	Recoil starter, 12 V electric starter, battery 12 V/18 Ah, oil pressure monitoring system warning, not shutting down, connection for external refueling	
Switch box		
Assembly	2 x water pressure-tight sockets 400 V 3 x water pressure-tight sockets 230 V 1 x AC circuit breaker 16 A 3-pole with neutral conductor and monitoring 3 x AC circuit breakers 16 A 1-pole with neutral conductor and monitoring 1 x CAN bus socket FIRE-CAN 7-pole (trickle charging and remote monitoring)	
Included with delivery		
Tool bag	2 spark plugs, 1 spark plug socket, 1 open-end wrench	
User information	With CE declaration of conformity and spare parts list	

Super Silent.
And sustainable.

Thanks to encapsulated housing and a sound-optimized exhaust system, the RTE PX 14 Super Silent is noticeably quieter than the Basic version. This means noticeably less stress, especially during long periods of use. The covering also protects the engine compartment from dirt. The aluminum used in both models is highly durable and 100% recyclable, so it is sustainable.

Freely configurable.

Options for the RTE PX 14 Basic and RTE PX 14 Super Silent.

FIRECAN – interface for remote monitoring

The RTE PX 14 has an interface for battery charge retention as standard, which means that the power generator can be remotely monitored, started and stopped at any time. It is connected via CAN bus. Standardized FIRECAN compatibility guarantees functionality with different vehicle manufacturers.

Examples of functions: Remote start/stop, warnings, power reduction, fuel level, error display

Battery temperature monitoring

For optimal battery charging, some charging devices need to transfer the battery temperature to the vehicle. This is done via the FIRECAN interface. This option is mandatory for non-Rosenbauer vehicles.

Pole reversing switch for a 400 V CEE socket

The easily accessible pole reversing switch allows you to change the direction of rotation of a 400 V CEE socket.

City three-phase socket, 400 V CEE

A third three-phase socket is also available for the front side.

Magcode charging socket

Insulation monitoring

This monitors all connected loads for insulation faults and any dangerous contact currents. Insulation monitoring measures the resistance between earth, neutral conductor and phase for connected consumers. The ISO test button for testing the insulation monitoring function can be called up as standard in the service view of the display.

Two different variants are available:

- **Non-disconnecting:** The warning can be acknowledged acoustically.
- **Disconnecting:** The power generator stops if an insulation fault occurs.

RTE PX 14 with connecting cable to the feed device on the object.

Emergency power supply to buildings

RTE PX 14 power generators can be used to supply buildings with power in emergency situations. It is simply switched from direct supply to system supply, so the power is diverted from the sockets at the front to the feed socket on the face. The connection is established via various supply cables to the house power supply socket of the building.

For this you need:

- Power generator with integrated IT–TN network switch
- Third 400 V input power socket on the face (color: white, position of the protective contact: 1 h)

Switch for changing from direct supply to system supply.

Corresponds to TS 14684 Fire Departments for mobile power generators for supplying electrical equipment and providing power to buildings.

RTE PX 14.

A powerhouse for any situation.

RTE PX 14 Basic order information

31936C-001	RTE PX 14 Basic - color option red – RAL 3000
31936C-002	RTE PX 14 Basic - color option yellow – RAL 1012
31936C-003	RTE PX 14 Basic - color option lime green
31936C-004	RTE PX 14 Basic - color option white – RAL 9010
31936C-005	RTE PX 14 Basic - color option ruby red – RAL 3003

RTE PX 14 Super Silent order information

31937C-001	RTE PX 14 Super Silent - color option red – RAL 3000
31937C-002	RTE PX 14 Super Silent - color option yellow – RAL 1012
31937C-003	RTE PX 14 Super Silent - color option lime green
31937C-004	RTE PX 14 Super Silent - color option white – RAL 9010
31937C-005	RTE PX 14 Super Silent - color option ruby red – RAL 3003

Options for the RTE PX 14 Basic and RTE PX 14 Super Silent

319608-001	FIRECAN remote monitoring
319610-003	ECO modus (automatic speed reduction)
319609-001	Pole reversing switch for a 400 V CEE socket
319611-001	Insulation monitoring, non-disconnecting
319611-002	Insulation monitoring, disconnecting
319616-001	Battery temperature monitoring
319613-001	CITY three-phase socket, 400 V CEE
319615-001	Magcode charging socket
319622-001	Emergency power supply to buildings
319627-001	12 V connection for operation RLS1000/RLS2000

Special voltages and frequencies, special sockets and individual special colors on request.

Accessories

319617-001	Exhaust deflector RTE PX 14 Basic and RTE PX 14 Super Silent
319628-001	Cable set for building feed
575079-001	Exhaust adapter For lateral deflection of exhaust gases
567978-001	Refueling set for 3-way cock 1.5 m (4.9 ft) long hose with bayonet lock for canister use
651103	Fuel canister, red; content: 20 L (5.3 US gal)
651300	Filler neck with flexible hose (300 mm long) for fuel canisters
654400	Exhaust hose Diameter: 55 mm (2.2 in), length: 1.5 m (4.9 ft)
544561-001	Bracket for exhaust hose
315890	Socket distributor, 400 V
538272	Starter battery 12 V/18 Ah
871528-001	Wheel set for RTE PX 14 Basic and RTE PX 14 Super Silent
654425	Trolley with DIN 8 frame

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