



# FANERGY

Far more than just a fan.

Protects emergency crews. Saves lives.

 **rosenbauer**









#### The crucial difference

- New All In One Airflow Technology
- Powerful
- Pull-out fan unit
- Largest tilt adjustment, from -20° to + 20°
- Simple operating concept with flexible set-up distance from 2 to 7 m
- High performance fans in two sizes: 16" and 22"
- Modern design
- Can also be used for producing water mist and expansion foam

# The first choice for firefighting.

## Essential for the safety of emergency crews.



### More safety for SCBA crews

The fan, as an integral part of operational tactics in firefighting, supports emergency crews so that they can perform an inside fire attack as quickly and risk-free as possible. In certain situations, the fan is the only thing that makes an inside fire attack possible. Better visibility enables SCBA crews to operate more quickly on scene. This leads to many advantages essential for the safety of emergency crews:

- Shorter operating times
- Faster detection of missing persons
- Sense of safety for emergency crews (elimination of panic due to zero-vision)
- Better and faster orientation
- Reduced risk of scalding from steam

### A fan as the first unit on scene

Thick smoke, poor visibility and high temperatures: often, there are difficult conditions that SCBA crews have to master when first attacking a fire in a burning building. The FANERGY high-performance fan can provide enormous relief in precisely these types of operations. As the first instrument in fire fighting, it is set up in front of the air intake and activated to bring great advantages and increased safety for emergency crews:

- Improved visibility through fast smoke extraction
- Smoke control in escape/rescue routes
- Reduction of temperatures in the burning object
- Minimisation of the risk of flashover
- Immediate supply of fresh air for emergency crews and persons trapped in smoke

### Increased chance of saving fire victims

Rapid smoke extraction means the SCBA crew has easier and faster access to the fire zone. The temperature in a burning building can be reduced as well as the risk of flashover and backdraft of flue gases.

Furthermore, for injured or missing persons trapped in the smoke, the immediate supply of fresh air can be a life-saving measure. In short: risk for the emergency crews can be significantly reduced by the use of a FANERGY high-performance fan, and the chances of rescuing people in smoke-filled buildings increases substantially.



FANERGY high performance fans provide important preparatory work in firefighting operations.



### Less damage to property

Tactical ventilation is not only crucial for the safety of emergency crews and missing persons, but damage to burning objects can also be drastically reduced. Rapid smoke extraction lowers temperatures in the building, allowing emergency crews to fight the fire faster and in a more targeted fashion. The resulting advantages are obvious:

- Reduced damage to buildings through faster firefighting
- Lower water damage due to more selective dispensing of extinguishing agent
- Minimised risk of collapse of the burning object by rapidly lowering the temperature
- Lower costs for fire damage repairs



# The All In One Airflow Technology.

More power and more volume.



## Fan impeller and fan control unit

The core piece of the All In One Airflow Technology is the fan unit. Another new feature is the patented fan control unit, which ensures a focused and powerful airflow. This creates a uniform, powerful airflow with an optimized flow pattern. Turbulence and air helices are minimized. This is made possible by the special design of the fan impeller, fan control unit, and the special aerodynamically shaped grille. The new fan unit also ensures an even better drafting performance and thus a better air supply.

### Improved performance thanks to the optimised flow pattern

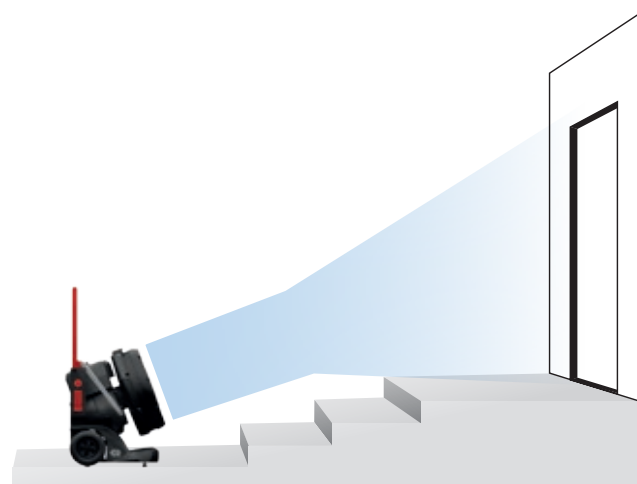
The All In One Airflow Technology from Rosenbauer is a completely new concept in ventilation technology. The special design of the fan unit results in an optimized air flow pattern. With this new technology, other concepts such as overpressure and turbo ventilation are combined into one piece of technology. Tactical ventilation of any kind is possible with the new All In One Airflow Technology.

The result: air is delivered into buildings in a targeted way with more pressure and more volume. Smoke is evacuated quicker from the object which is on fire, visibility is immediately better and the temperatures are reduced more quickly.

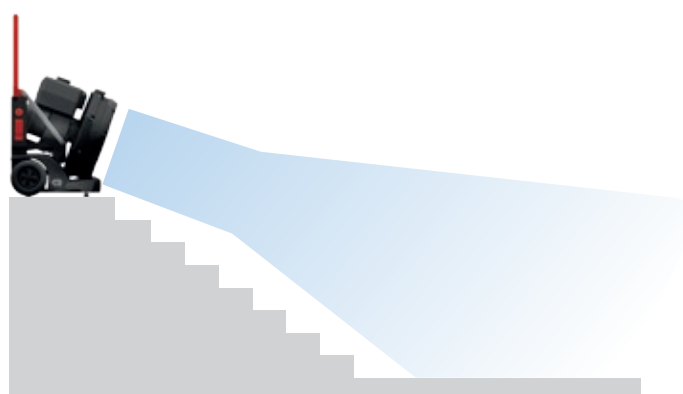


### Maximum tilt angle of -20 to +20°

The fan unit can be swivelled at the push of a button and without any accessories from -20° up to +20°. The stepless adjustment takes place quickly and easily thanks to a maintenance-free gas strut. This is a considerable advantage during operation due to shorter set-up times. The generous inclination angle ensures more flexibility and efficiency when using the fan. The inclination angle of +20° is optimal for overcoming obstacles. The negative angular position of -20° – larger than any other fan on the market – is ideally suited to ventilate down stairs, to basement areas and through light shafts.



*Initial attack position (+20°)*



*Basement outflow (-20°)*

### More efficient ventilation with the pull-out fan unit

When unfolding the handle, the fan unit automatically lifts out. In this way, the fan is immediately in an angular position of 20°. For the majority of operations, this is the ideal setting. It makes it easier to overcome obstacles in the access area of the building (e.g. stairs, platforms). In combination with the new All In One Airflow, the pull-put fan unit also ensures that the airflow reaches the object with maximum efficiency.



Operation is easier  
and safer than ever  
before.



Lift from the vehicle



Fold handle bar upwards



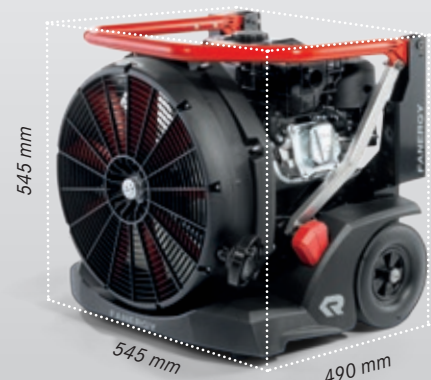
Nozzle automatically s

### Flexible installation distance of 2 to 7 m

The use of a fan protects emergency crews and can save the lives of persons subjected to smoke. The key to successful ventilation is proper use. Thanks to the new All In One Airflow Technology, all existing fan technologies are combined into one, and using it is easier than ever before. The fan can be placed at a flexible distance of 2 to 7 m in front of the air intake. For maximum air flow, a set up distance of approx. 2 m is recommended.

### Smallest dimensions

During the development of the completely new FANERGY series, the engineers at Rosenbauer were mindful to design powerful and multi-functional devices that are also compact. The result is the smallest fan in the 16" category when folded. Its minimal footprint leaves space in the vehicle for more equipment.





# One operating concept for everything.

Proper use in operation.



swivels into the attack position of +20°



4

Position FANERGY at a distance of 2 to 7 m



5

Power-up the FANERGY

## Safe option: LED light package

The integrated LED light package is unique and ensures more safety for operations in the dark. The built-in LEDs are arranged centrally behind the fan unit to illuminate in the direction of the air opening and thus serve as an orientation aid for the SCBA crew. On the rear side of the fan, two LED elements ensure good visibility of the device, essential for safe operations in the dark. The LED light package is optional for all models.



# A redevelopment with many refinements.

## Components and accessories.

### ■ Pull-out fan unit

When unfolding the handle, the fan unit is lifted out from the transport position and put into the initial attack position of  $+20^{\circ}$ . Inclination angle from  $-20$  to  $+20^{\circ}$ .

### ■ Centrally integrated water spray unit

For the generation of water mist and expansion foam.

### ■ Integrated air control with guard

Provides a powerful and effective airflow. The fan is available in two sizes: with a fan unit of 16" or 22".

### ■ Robust body

The body is made of high quality plastic, has a powdered aluminium frame, stainless steel components and convinces with its durability. For the new FANERGY, rust and corrosion are not an issue.

### ■ Chocks

For stopping air inlets and outlets and/or doors, windows, elevators and shafts. Two chocks of non-slip silicone are included in the delivery. The fan provides receptacle options for up to 4 wedges.





### ■ Cushioned handle

Secure and easy opening and closing of the handle through the built-in damping system.

### ■ Exhaust adapter

For dissipating the engine exhaust gases using a standard DIN-exhaust hose. Included in scope of delivery.

### ■ LED light package

For illumination of the controls and the working area of the fan.

### ■ Two drive variants

The new FANERGY can optionally be driven by combustion engine (B&S or Honda) or an electric motor.

### ■ Fold-out stabiliser

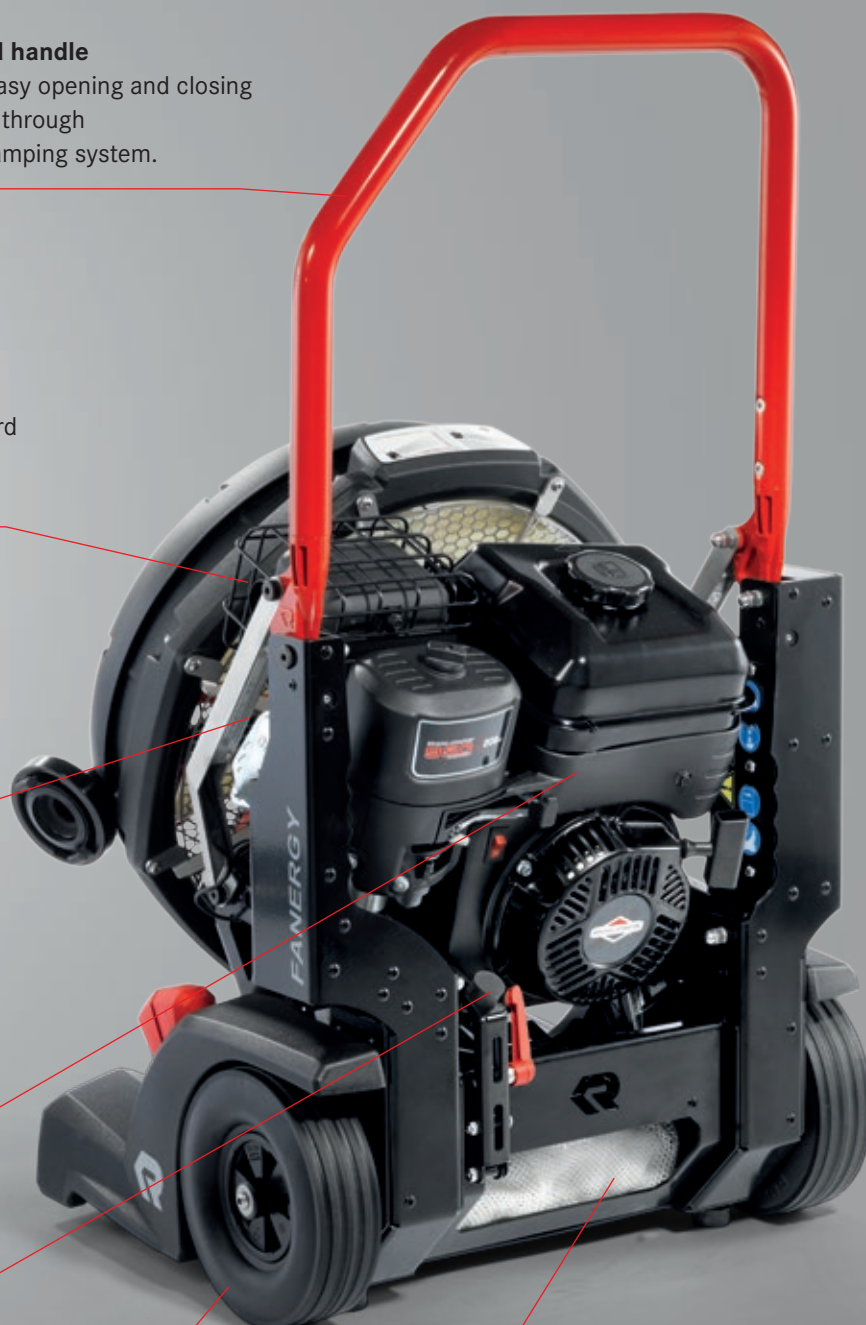
Cushions against backlash and ensures that the fan is stable and secure in its operating location. The FANERGY can even be positioned on uneven, sloping or soft terrain by means of the fold-out stabiliser.

### ■ Transport wheels

The wide transport wheels can handle any surface and are maintenance-free.

### ■ Storage compartment for foam net

The foam net is stowed directly on the device and is instantly accessible. It requires no additional storage space, which saves space in the vehicle and reduces the set-up time.



# Water mist and foam use.

## New details and innovative ideas.

### Multi-purpose use

With regard to operational tactics, two further characteristics of the FANERGY fan are interesting: water mist as well as expansion foam can be produced. The mobile high-performance fan is equipped with a central water spray unit. Due to the high throw range of the water mist, buildings, gas cylinders, hazardous goods containers, batteries, etc. can be cooled and protected from a safe distance. Effective suppression of dangerous gases and steam is also possible using the water mist. In addition, the fan performs a valuable service as an expansion foam generator.

### Central water spray unit

Through the central placement of the water spray unit in the centre of the nozzle, the water mist can be applied with more air power than ever before. Thanks to the optimised air power of the FANERGY, a throw range of up to 20 m can be achieved. The flow rate at 7 bar is approx. 200 l. The handling is understandably fast and easy: no extra accessories, no adapters, and used in combination with the usual equipment of the fire department. The fire hose can be connected directly to the fan via a Storz C-connection, via which the FANERGY is supplied with water, thus discharging a water mist.



*Throw ranges of up to 20 m possible*



*Central water spray unit*





*With air tube for foaming cellars and underground facilities.*



*Foam net stowed in a small compartment*



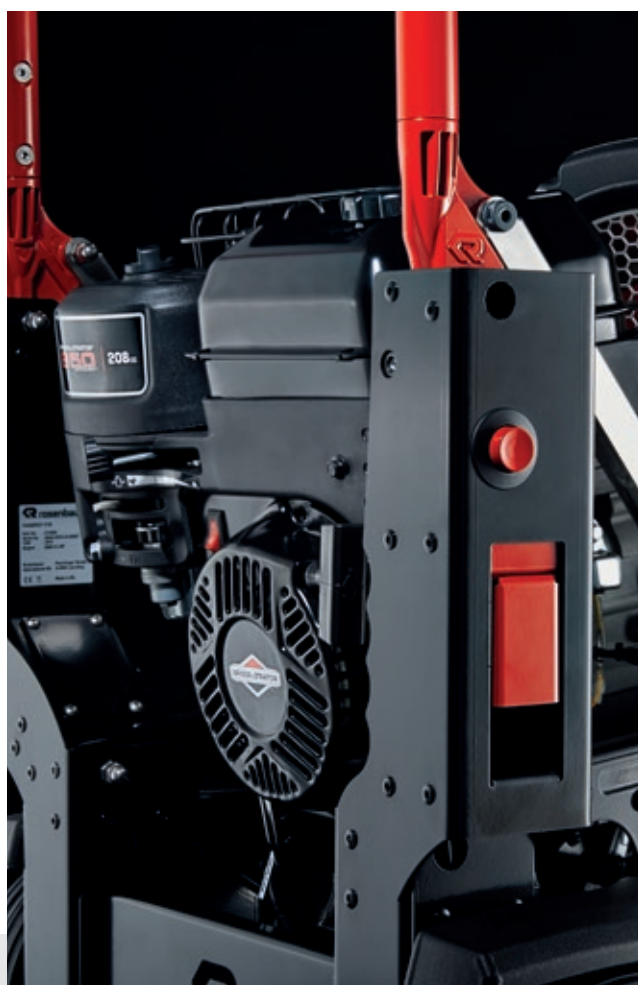
*Pull the foam net over the fan*

### **The fan as a foam generator**

The fan can even produce expansion foam when used in conjunction with the foam net. The net is stored in a small compartment directly below the housing of the fan, which allows it to be carried along at all times. It is simply pulled over the ventilator intake and fixed with a handle. Expansion foam can be produced by using a supplemental standard Z2 proportioner. The expansion foam can be introduced to firefighting by air hoses in basement areas or underground facilities. Alternatively, the fan can be used on turntable ladders to convey foam to roofs or sources of fire above ground.

# Two drive variants.

## ■ Combustion engine



### The powerful version.

The FANERGY high performance fan with combustion engine is the most powerful and lightest model. It is available in two different sizes with 16" and 22" diameters. Two 1-cylinder engines are available: from Briggs & Stratton or from Honda.

### Technical data

	V22	V16
Propulsion engine	B&S 1-cylinder 4.8 kW (6.5 hp) or Honda 1-cylinder GX200 4.8 kW (6.5 hp)	
Air outlet diameter	approx. 22"/560 mm	approx. 16"/410 mm
Air flow rate	approx. 36,100 m <sup>3</sup> /h	approx. 23,900 m <sup>3</sup> /h
Effective air flow rate	approx. > 65,000 m <sup>3</sup> /h	approx. > 50,000 m <sup>3</sup> /h
Dimensions (W x H x D)	636 x 695 x 490 mm	545 x 545 x 490 mm
Weight (filled with oil, empty fuel tank)	approx. 46 kg	approx. 41 kg
Fuel/tank capacity	Lead-free gasoline >91 octane/approx. 3 l	
Running time with one tankful	approx. 110 min. at full capacity	



## Electric motor

### The universal, quiet and environmentally friendly alternative

FANERGY high performance fans with electric motors have a number of strengths: they are quiet, environmentally friendly, and exhaust-free. The power is steplessly adjustable from 0 – 100 %. Its value is shown on a convenient display which is also visible in the dark. The integrated starting current limiter ensures that the drive functions smoothly with a 5 kVA power generator. FANERGY models with electric motors can also be connected to any 230 V household socket using the shock-resistant plug. Interior setup is possible without reservation.

The greatest advantage of the electric fan is that it can operate in any orientation, and its airflow can be used vertically and horizontally. For example, the fan can be placed facing a basement or sewer opening. This makes it universally applicable and flexible in terms of positioning.



Technical data	E22	E16	E16 COMPACT	E16Ex* Explosion protection Ex II 3G C T3
Propulsion engine	230 V, 2,2 kW continuously adjustable			400 V / 1,85 kW
Air outlet diameter	approx. 22"/560 mm	approx. 16"/410 mm	approx. 16"/410 mm	approx. 16"/410 mm
Air flow rate	approx. 31,000 m³/h	approx. 14,900 m³/h	approx. 14,900 m³/h	approx. 14,900 m³/h
Effective air flow rate	approx. > 61,000 m³/h	approx. > 30,000 m³/h	approx. > 30,000 m³/h	approx. > 30,000 m³/h
Dimensions (W x H x D)	636 x 695 x 490 mm	545 x 545 x 490 mm	489 x 613 x 448 mm	569 x 630 x 460 mm
Weight	approx. 50 kg	approx. 45 kg	approx. 40 kg	approx. 47 kg

\*All models in the NEW FANERGY 2016 product range except the E16Ex variant

### Order data for the FANERGY with combustion engine

	FANERGY V22 with B&S engine	FANERGY V22 with Honda engine	FANERGY V16 with B&S engine	FANERGY V16 with Honda engine
Standard design	513030	513031	513020	513021
with water spray unit	513032	513033	513022	513023
with light package	513034	513035	513024	513025
with water spray unit and light package	513036	513037	513026	513027

### Ordering data for FANERGY with electric motor

	FANERGY E22 with E-motor	FANERGY E16 with E-motor	FANERGY E16 COMPACT with E-motor	FANERGY E16Ex* with E-motor
Standard design	513050	513040	513070	51195001
with water spray unit	513051	513041	513071	-
with light package	513052	513042	-	-
with water spray unit and light package	513053	513043	-	-

\*All models in the NEW FANERGY 2016 product range except the E16Ex variant

### Ordering information options / accessories

513010	Water spray unit for FANERGY 16"
513011	Water spray unit for FANERGY 22"
512026	Foam net for FANERGY 16"
512016	Foam net for FANERGY 22"
703500	Z2 proportioner
703810	Dip tube, approx. 1.5 m length
201105	SYNTHETIC SPECIAL handline, approx. 5 m length
705110	Multi-application foam compound, 20 l can
51181501	PE air tube with belt for FANERGY 16", length approx. 20 m
51191001	PE air tube with belt for FANERGY 22", length approx. 20 m
512061	Rigid air tube with belt for FANERGY 16", length approx. 3 m
512060	Rigid air tube with belt for FANERGY 22", length approx. 3 m
075715	Service hour meter and revolution counter
654400	Exhaust gas hose for all V models
601031	Forcible entry tool
513020E08	Chocks



FANERGY E16Ex



FANERGY E16 COMPACT