



# Portable Pumps

**FOX. FOX S. BEAVER. OTTER.**

Powerful, light, and easy to operate.



# The right portable pump for every

## Perfectly equipped for operations.

### Portable pumps for every situation

Rosenbauer's portable pumps impress with their easy operation, low weight, and high performance.

The power range extends from 500 l/min at 6 bar (OTTER, PFPN 6-500) up to 1,600 l/min at 10 bar (FOX, PFPN 15-1000 or PFPN 10-1500) for pumps with gasoline engines as well as an output of 500 l/min at 5 bar (OTTER diesel) for pumps with diesel engines.

Whether a day-long deployment in flood, pumping water over long distances, or use as a built-in pump in the vehicle

– Rosenbauer portable pumps with maintenance-free pump technology, safe engine cooling, and simple operation in combination with numerous options, are perfect for adapting to the various requirements of any given situation. Rosenbauer portable pumps are in use worldwide under various climatic conditions.

Maintenance costs are low due to the use of low-wear priming pumps, mechanical axial face sealing for sealing the pump, and long maintenance intervals of the engine, which means the pumps are always ready.

Fire departments worldwide trust the power, simple operation, and low weight of Rosenbauer portable pumps.



# application.



## Development and production from a single source

Rosenbauer portable pumps are developed by a team of specialists at Rosenbauer's site in Leonding, Austria.

In order to be able to offer the best possible quality, pumps are produced to order using the latest state of line assembly technology according to the customer's specifications.

Prior to delivery, each individual pump is subjected to an extensive test run on the Rosenbauer test bench. The successful completion of the test is documented in a test log.



# What makes a Rosenbauer portable

## The engine.

Since 1926, Rosenbauer has relied on renowned manufacturers of engines as suppliers for the drive technology in its portable pumps. The engine, however, is not just the source of power. It also influences the shape of the device and the characteristics of the pump. In addition to the highest possible performance, other important features include a compact size, low noise emissions and fuel consumption as well as easy maintenance supported by a worldwide service network.

### Briggs & Stratton

OTTER and BEAVER portable pumps are driven by air-cooled 2-cylinder gasoline engines. Briggs & Stratton engines are characterized by a compact body, easy serviceability, and a worldwide service network.

### BMW

Since 1987, BMW has supplied the drive engines for three generations of FOX portable pumps. More than 15,000 devices are in use around the world. The powerful, air-cooled 2-cylinder boxer engine is a motorcycle engine. It features an impressive high performance and low weight.



BMW 2-Zylinder boxer engine



BRB-Rotax  
2-cylinder  
series engine

### BRP-Rotax

The traditional Austrian company BRP-Rotax, a subsidiary of BRP (Bombardier Recreational Products) in Gunskirchen, Austria, can look back on a history of nearly 100 years. BRP-Rotax specializes in the development and production of drive systems for products in the power sports industry.

Qualities such as low weight, high performance, maximum reliability, and suitability for both hot and cold climates even in the most adverse weather conditions are the ideal basis for driving the portable pumps.

The new Rosenbauer portable pump is driven by a 2-cylinder series engine that is used in Ski-Doo snowmobiles.

# pump.

## ■ Characteristics

### Operation

#### Mechanical operation

OTTER and BEAVER portable pumps feature easy mechanical operation. They feature an ignition key, manual choke, and hand throttle.

#### Electronic operation

Through the use of electronic motor control, the FOX S and FOX portable pumps have electronic control units that assume operation of the pumps and simultaneously function as a display instrument for warnings and errors. Electronic operation enables functions such as automatic pump pressure regulation and cavitation alarm.



### Suction system

**Hand priming pump:** This simple suction system on the OTTER portable pump is characterized by a high priming performance up to a 7.5 m suction lift with the simplest operation independent of the drive engine

**Vane priming pump:** The BEAVER portable pump has a high-performance vane priming pump with semi-automatic operation. This allows for suction lifts of up to 8 m.

**Piston priming pump:** piston priming pump is not only used in the FOX and FENNEK portable pumps, but rather in all Rosenbauer centrifugal pumps.

### Single-stage centrifugal pump

All Rosenbauer portable pumps have a highly efficient single-stage pump unit.

### Mechanical shaft seal

The pump's shaft seal is a axial face sealing characterized by reliable sealing in all operating conditions.



### Automatic priming

The priming pump is driven by a pump shaft by way of a belt and is automatically decoupled upon achieving suction pressure. The priming pump is switched off in feed and discharge mode.

It is especially safe to operate thanks to the oil bath lubrication, inlet/outlet valves made from extremely resistant plastic, and the design as a double piston pump.



# OTTER

## The light-weight portable pump.



The OTTER portable pump is a compact and lightweight portable pump driven by an air-cooled 4-stroke gasoline engine. It is characterized by the highest reliability and simplest operation while being extremely lightweight.

The pump can be equipped with a high-performance hand priming pump that achieves suction heights of up to 7.5 m.

Technical data	Gasoline	Diesel
Standard test	PFPN 6-500	-
Flow rate	500 l/min at 6 bar 800 l/min at 5 bar 1,000 l/min at 4 bar	500 l/min at 5 bar 700 l/min at 4 bar max 1,000 l/min with free discharge
Drive engine	Briggs&Stratton V2 cylinder 4-stroke engine, 13 kW output	HATZ 1 cylinder 4-stroke diesel engine, 10.5 kW output
Pump	ingle-stage, lightweight alloy centrifugal pump, curved impeller blades and diffuser with spiral housing	
Priming pump	Hand priming pump, Suction height up to 7.5 m	
Dimensions	580 mm x 600 mm x 630 mm	765 mm x 560 mm x 680 mm
Weight	Dry: 58 kg, Ready for operation: 66 kg	Dry: 152 kg, Ready for operation: 160 kg

# BEAVER

The compact option.



The BEAVER portable pump is a light-weight, easy-to-operate portable pump with a maximum output of 750 l/min at 10 bar or 1,000 l/min at 8 bar, thus fulfilling the requirements of EN 14466 as PFPN-10-750.

## Technical data

<b>Standard test</b>	PFPN 10-750
<b>Flow rate</b>	750 l/min at 10 bar 1,000 l/min at 8 bar 1,200 l/min at 6 bar
<b>Drive engine</b>	Briggs&Stratton V2 cylinder 4-stroke engine, 26 kW output
<b>Pump</b>	Single-stage, lightweight alloy centrifugal pump, curved impeller blades and diffuser with spiral housing
<b>Priming pump</b>	Vane pump
<b>Dimensions</b>	697 mm x 545 mm x 645 mm (without tank)
<b>Weight</b>	Dry: 112 kg, Ready to operate: 130 kg (20 l canister tank)

# FOX S

## A class of its own.



The completely new developed FOX S portable pump is an impressive new class between FOX and BEAVER.

Its high output of more than 1,000 l/min at 10 bar according to EN 14466, in addition to its small width of 640 mm enables completely new applications.

The engine is a 2-cylinder in-line engine optimized for use in the most adverse weather conditions, thus guaranteeing the best operational safety.

Suction occurs using an optimized piston priming pump that is switched by way of magnetic coupling.

### Technical data

<b>Standard test</b>	PFPN 10-1000
<b>Flow rate</b>	1,100 l/min at 10 bar 1,800 l/min at 3 bar
<b>Drive engine</b>	BRP Rotax R2 cylinder 4-stroke engine, 29 kW output
<b>Pump</b>	Single-stage, lightweight alloy centrifugal pump, curved impeller blades and diffuser with spiral housing
<b>Priming pump</b>	Piston priming pump automatic control
<b>Dimensions</b>	923 mm x 642 mm x 845 mm
<b>Weight</b>	Ready to operate: 150 kg



# FOX

## The premium portable pump.



The FOX portable pump has been the standard for more than 25 years in terms of weight, performance, operational safety, and user friendliness.

At only 167 kg when ready to operate, it is still among the lightest 4-stroke portable pumps. Its power of 15 bar at 1,000 l/min makes it unique.

It is operated via an intuitive control and instrument panel and automatic control of the piston priming pump makes work easier and prevents operating errors.

### Technical data

<b>Standard test</b>	PFPN 10-1000, PFPN 15-1000, PFPN 10-1500
<b>Flow rate</b>	1,500 l/min at 10 bar 1,000 l/min at 15 bar 2,000 l/min at 3 bar
<b>Drive engine</b>	BMW 2-cylinder 4-stroke boxer engine, 50 kW output
<b>Pump</b>	Single-stage, lightweight alloy centrifugal pump, curved impeller blades and diffuser with spiral housing
<b>Priming pump</b>	Piston priming pump automatic control
<b>Dimensions</b>	942 mm x 740 mm x 838 mm
<b>Weight</b>	Dry: 150 kg, Ready to operate: 167 kg

# Perfect transport and operation on-board.

Flexible usage.



## Use as a mobile centrifugal pump

Portable pumps can also be directly connected to a water tank and then operated as a built-in pump. The control systems can be adapted, so that a perfect accessibility to the control elements and displays is possible, even when the portable pump is in the firetruck.



### Flexible installation in the vehicle

Using a multitude of perfectly matched Rosenbauer COMFORT device carriers or equipment manipulation systems such as slide trays, rotating compartments, or lowering devices, Rosenbauer portable pumps can be flexibly housed in the vehicle.

