



Truck-mounted fire pumps

- Normal pressure pumps
- Combined normal and high pressure pumps
- High pressure pumps

The heart of the fire truck.



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Rosenbauer Intern
Paschinger Str
4080 Leonding,





Rosenbauer centrifugal pumps ensure the necessary pressure for extinguishing operations worldwide. With delivery rates of up to 13,000 l/min and pressures of up to 40 bar, all potential applications can be covered. The highest manufacturing quality also guarantees reliability in use – for decades.

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Rosenbauer International AG
 Paschinger Straße 90
 4080 Leonding, Austria

Truck-mounted fire pumps



Rosenbauer built-in pumps.

The right "heart" for every application.

Rosenbauer built-in pumps are on the road in emergency vehicles around the clock for your safety, whether in airport, industrial, or municipal firefighting vehicles.

Centrifugal pumps for every operation

The design of the Rosenbauer normal and high pressure pumps as centrifugal pumps offers the best efficiency and lowest pressure surges thanks to flat pump output characteristic curves, which especially relieves the strain on the nozzle operator. The performance of the normal pressure pumps ranges from 750 l/min up to 13,000 l/min in suction operation. The high pressure pumps deliver up to 500 l/min. The wide variety and the best possible integration of foam proportioning systems offers the most efficient solution for the respective requirements of the fire fighters.

Low-maintenance and easy operation

Maintenance-free mechanical shaft seals and a generally robust design minimize maintenance costs and ensure that the pumps are always ready for operation. They are suitable for tough continuous duty as well as for use in a wide range of geographical conditions. Another plus point is the intuitive operation of the pumps via the self-explanatory RBC Logic Control System.

In short: built-in pumps from Rosenbauer are the reliable and powerful heart of extinguishing operations.

One name, one promise: Rosenbauer

For over 150 years, Rosenbauer has been a pioneer and a partner for emergency personnel. We are the only company to specialize in providing practical solutions for all decisive moments in fire and disaster protection. From preventive fire protection to vehicles for every scenario, from digital applications to personal and technical equipment. Rosenbauer covers it all with its expertise and experience as a system provider.

For Rosenbauer, perfection means staying on the front foot. For example, we set new standards in fire and disaster protection with technologically advanced innovations. Through intensive discussions with our customers, we find exactly the right solution and are on location when needed. Worldwide. Everything to ensure that you are optimally equipped when it matters.

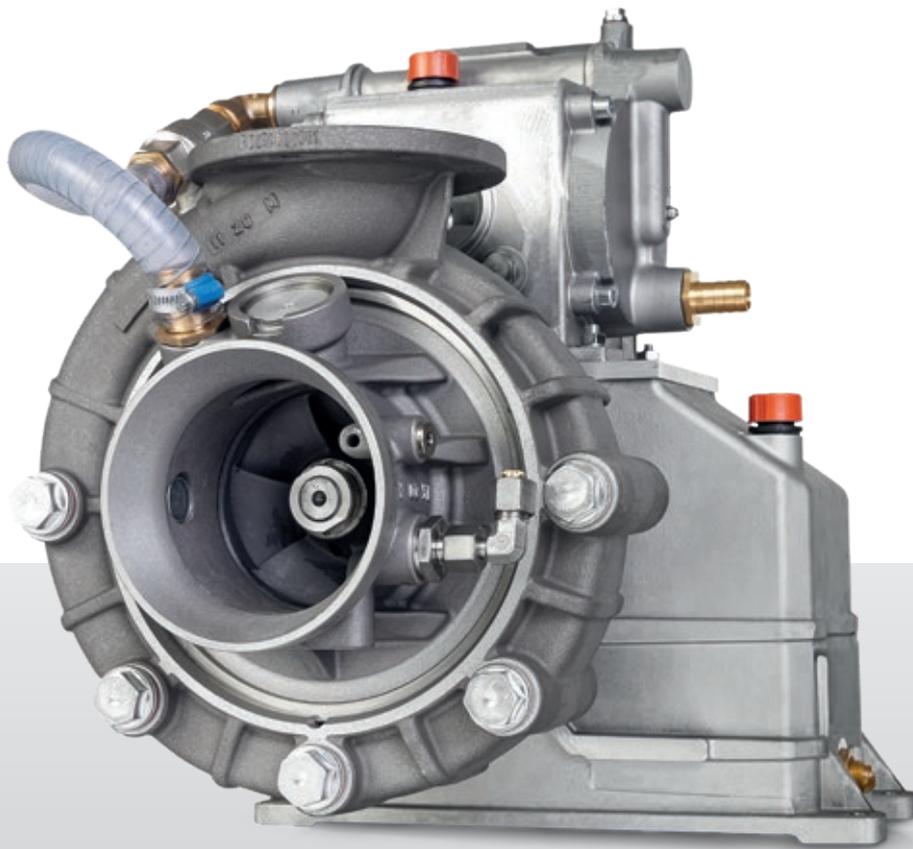


The compact all-round package.

Space-saving and highly efficient.

■ N10 and N20 normal pressure built-in pumps.

The compact dimensions and low weight make the N10 as well as the N20 unsurpassed as an underfloor pump. The compact design leaves additional loading space for additional equipment - an unbeatable advantage for small vehicles. Despite the smallest space requirements, delivery rates of up to 1,000 l/min or 2,000 l/min can be achieved with the N10 or N20. Operation takes place at the rear via the RBC LCS control panel. Optionally, an automatic around-the-pump proportioning system can be integrated into the pump with the FIXMIX 2.0.



Output

Pump	Flow	Pressure	Suction lift
N10	1,000 l/min	10 bar	3 m
N20	2,000 l/min	10 bar	3 m

The N10 and N20 in summary

- Compact dimensions
- Specially designed for underfloor installation
- Pump outputs of up to 1,000 l/min or 2,000 l/min at 10 bar
- Low drive power of 30 to 42 kW
- Optionally with integrated around-the-pump foam proportioning system FIXMIX 2.0



■ H5 high pressure fire pump.

The compact dimensions and low weight make the H5 unsurpassed both as an underfloor pump and as rear-mount pump. This creates additional space for equipment compartments, which is an unbeatable advantage especially for small vehicles.

Rapid intervention also with small firefighting vehicles

Equipped with all the advantages of Rosenbauer pumps, this dynamic package is the first choice for small vehicles. Especially the combination of H5 with Rosenbauer reel and NEPIRO is ready for operation within a very short time and is a good addition to fire trucks with portable pumps. The 4-stage high pressure pump is also insensitive to dirt and therefore very low maintenance.



Underfloor installation: more space in the super-structure equipment or for a portable pump



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 Paschinger Straße 90
 4060 Leonding, Austria

Output

Pump	Flow	Pressure	Suction lift
H5	500 l/min	40 bar	3 m
H5	250 l/min	40 bar	3 m

The H5 in summary

- Extremely compact dimensions
- HP extinguishing technology on small vehicles for rapid operational readiness due to quick attack hose reel
- High pump output of up to 500 l/min at 40 bar (with 2 HP outlets)
- Resistant to dirt - lower maintenance requirements
- Smaller pressure surges thanks to flat pump output characteristic curve
- Best foam quality through optional HP-FIXMIX (one proportioning rate)



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 4080 Leonding, Austria

Equipped for every scenario.

Normal pressure and combined normal/high pressure built-in pumps.

The N normal pressure pumps and the NH combined normal and high pressure pumps boast innovative technology, ergonomic operation, and low noise.

Minimization of pressure surges and noise emissions

The single-stage normal pressure centrifugal pump achieves an optimum degree of efficiency thanks to the spiral housing. Due to the flat pump output characteristics curve the water hammer during opening and closing of the nozzles are reduced to minimum.

The pump speed is designed for conventional vehicle power take-offs, which eliminates the need for a pump gearbox. This arrangement together with rubber pump mounts ensure considerable noise reduction. With the FIXMIX 2.0, an automatic around-the-pump proportioning system can be integrated into the pump.

Combination of advantages

The NH series pumps combine all the advantages of the N pumps with those of a four-stage high pressure pump on a single pump shaft.

Due to the counter-rotating arrangement of the normal- and high pressure impellers on one shaft, no separate drive is required for the high pressure pump - the water supply can be switched on simply by opening the water supply.

Combined normal- and high-pressure pump



Optimized pump operation

The gauges are arranged in the field of view above the mechanical control elements, the RBC LCS control panel is positioned next to them.

Normal pressure output

Pump	Flow	Pressure	Suction lift
N15	1,500 l/min	10 bar	3 m
N25 / NH25	2,500 l/min	10 bar	3 m
N35 / NH35	3,500 l/min	10 bar	3 m
N45 / NH45	4,250 l/min	10 bar	3 m
N55 / NH55	5,500 l/min	10 bar	3 m

High pressure performance

Pump	Flow	Pressure
NH	250 l/min	40 bar
NH	400 l/min	40 bar





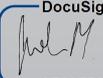
Pumps with innovative technology, ergonomic operation, and low noise emission.

The N/NH pump series in summary

- Noise reduction due to low pump speed, speed and rubber mounts and possible elimination of the gearbox
- Low pressure fluctuations when opening and closing outlets due to flat pump output characteristic curve
- Maximum efficiency due to NP spiral housing with integrated water stripping edges and three-dimensional shape impeller blades
- Automatic around-the-pump foam proportioning system FIXMIX 2.0 can be integrated into the pump

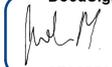
Additional advantages of the NH pump series

- Normal and high pressure part on one shaft
- High pressure can be switched on simply by opening the water supply
- Insensitive against dirt due to the design of the HP stage as a centrifugal pump
- Lowest pressure hammer when opening and closing individual outlets due to flat pump curve
- CAFS-like foam through DP-FIXMIX

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 Paschinger Straße 90
 4080 Leonding, Austria



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Paschinger Straße 90
4080 Leonding, Austria

Compact pumps for powerful performance.

N65 and N80 normal pressure built-in pumps.

The universal built-in pump for ARFF, industrial, and large-tanker fire-fighting vehicles.



The advantages of the N65 / N80

- High pump performance with extremely compact dimensions
- Pumps with flat output characteristic curve - thereby reducing water hammers at the outlets to a minimum
- Automatic around-the-pump proportioning system FIXMIX 2.0 can be integrated into the pump
- For industrial applications, can be combined with HYROMATIC with proportioning rate adjustment for each individual outlet
- Different drive options available
- Increasing the impact with optional H5 high pressure pump (up to 500 l/min at 40 bar via 2 outlets)



The distinguishing features of the N65 / N80 pumps are the robust design and the flat characteristic curve with high efficiency. Its compact design is also very important for installation in ARFF and industrial fire-fighting vehicles and pump trailers: it provides more space for equipment.

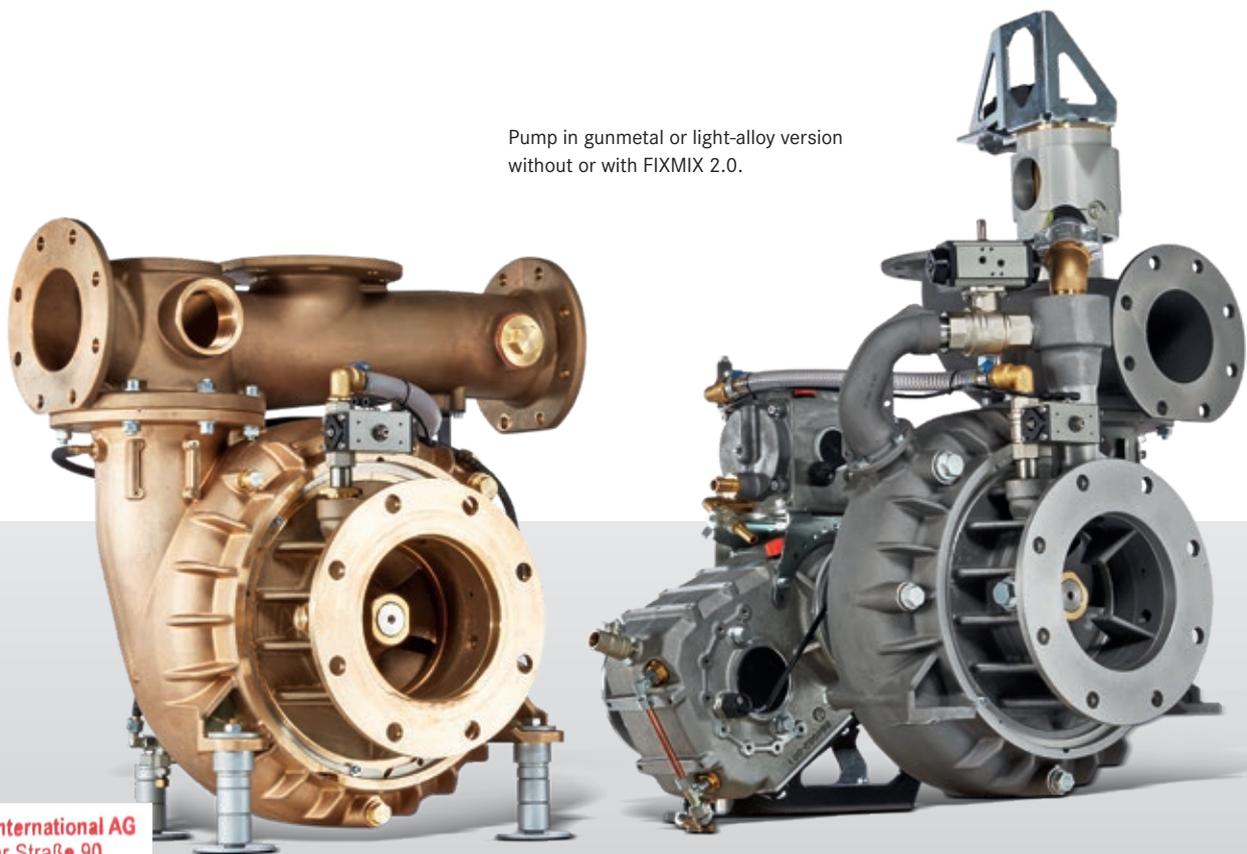
Greater impact through high pressure

By adding a H5 4-stage high-pressure pump small fires can be extinguished via a rapid intervention hose reel or a high-pressure turret can be operated. With an HP-FIXMIX the best possible foam qualities can be achieved.

Foam proportioning systems easy to integrate

Both the FIXMIX 2.0 A and FIXMIX 2.0 E around-the-pump foam proportioning systems are available for the N65 / N80. In addition, both the balanced pressure industrial foam system of the HYROMATIC series and CAFS systems can be combined with this pump.

Pump in gunmetal or light-alloy version without or with FIXMIX 2.0.



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 Paschinger Straße 90
 4080 Leonding, Austria



Output

Pump	Flow	Pressure	Suction lift
N65	6,500 l/min	10 bar	3 m (2x DN150)
N80	8,000 l/min	10 bar	3 m (3x DN150)
H5	250 l/min	40 bar	
H5	500 l/min	40 bar	

Highest outputs for the highest demands.

Built-in pump N 110 / N 130.

These single-stage normal pressure centrifugal pumps have been specially developed for use in the industrial sector, e.g., in chemical plants and refineries. They feature the highest output rates. They achieve maximum efficiency through three-dimensional shape impeller blades and their spiral housing with integrated water stripping edges.

Made for industrial use

The application area in the industrial environment requires maximum variability in foam proportioning. This is the reason for the combination with the HYROMATIC industrial foam proportioning system. The piston priming pump KAP600E is used for highest priming performance.

Greater impact through high pressure

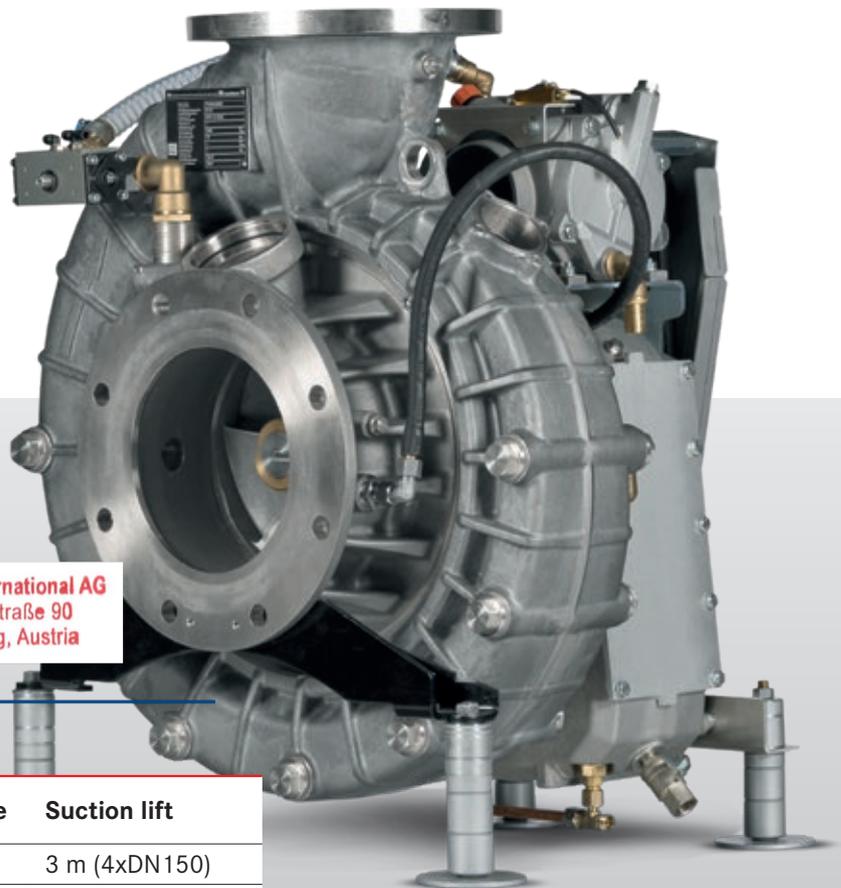
By expanding the N 110 / N 130 with the H5 4-stage high-pressure pump, small fires can be extinguished via a rapid intervention hose reel or a high-pressure turret can be operated.

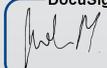
Up to 20,000 l/min flow rate

In feeding operation mode the N 130 pump can deliver up to 20,000 l/min with an inlet pressure of 4 bar (at the pump inlet pressure gauge).

Thanks to the flat characteristic curve, pressure surges are reduced to a minimum and therefore the nozzle operator is relieved. Different drive concepts for the respective installation ensure maximum flexibility.

For the PANTHER 8x8 ARFF vehicle, the N 110 is used with the FOAMATIC E around-the-pump proportioning system and the smaller priming pump KAP2 10E.



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Output

Pump	Flow	Pressure	Suction lift
N110	11,000 l/min	10 bar	3 m (4xDN150)
N130	13,000 l/min	10 bar	1.8 m (4xDN150)
N130	13,000 l/min	10 bar	3 m (6xDN150)
H5	250 l/min	40 bar	
H5	500 l/min	40 bar	



The N110 and N130 are particularly suitable for industrial fire-fighting vehicles.



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The advantages of the N110 / N130

- Highest delivery rates of up to 10,000 or 13,000 l/min at 10 bar in suction operation
- Pump outputs with the N130 of up to 20,000 l/min at 10 bar and 4 bar input pressure
- Only small water hammer thanks to a very flat pump output characteristic curve
- Highest priming performance through KAP600E piston priming pump with 600 cm³ displacement
- Automatic around-the-pump proportioning system FOAMATIC E can easily be integrated into the pump
- For industrial applications, can be combined with HYROMATIC with proportioning rate adjustment for each outlet
- Different drive options available
- Increasing the impact with optional H5 high pressure pump (up to 500 l/min at 40 bar via 2 outlets)



Always ready to serve.

Rosenbauer pumps worldwide.



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FIRE & RESCUE
FOAM: 10000 L
PUMP: 6500 LPM

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Paschinger Straße 90
4060 Leonding, Austria

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Priming performance guaranteed.

Piston priming pump.

The piston priming pump provides the firefighters with a very effective and extremely robust priming pump. The design as a double piston pump guarantees the highest possible failure safety.



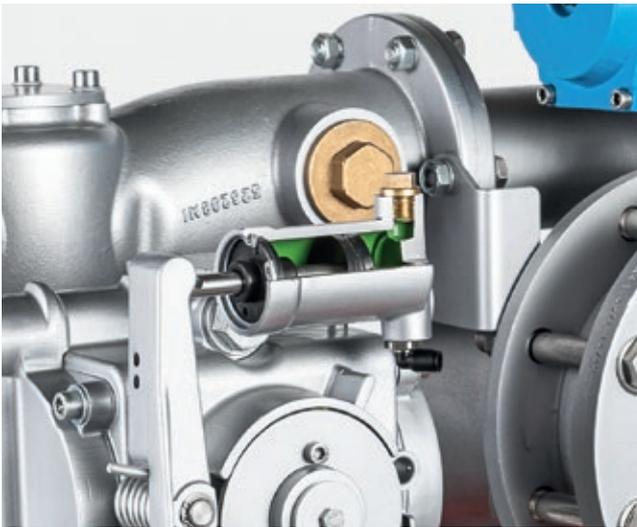
The system is being used thousands of times worldwide and impresses with its simplicity and high efficiency.

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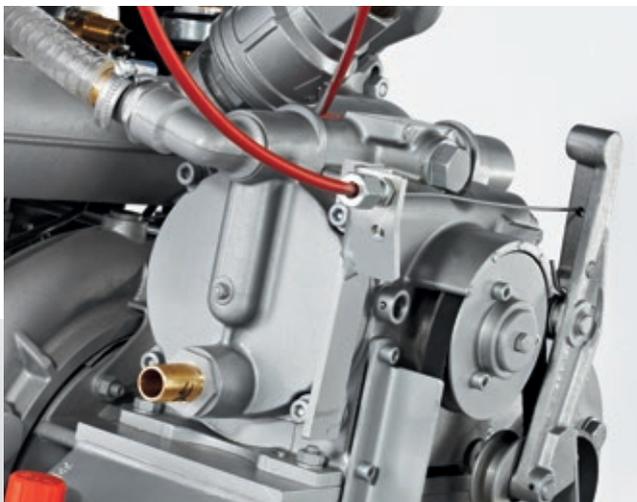




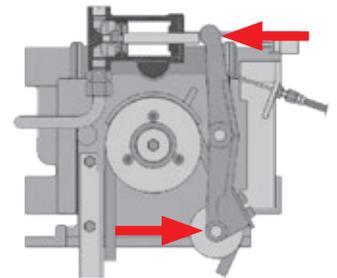
Automatic priming for KAP210P

The KAP piston priming pump is mounted on the pedestal (lantern) or the gearbox. It is driven by a belt from the pump shaft. The KAP can be engaged and disengaged either manually (for N/NH series) or automatically. It offers an impressive priming performance.

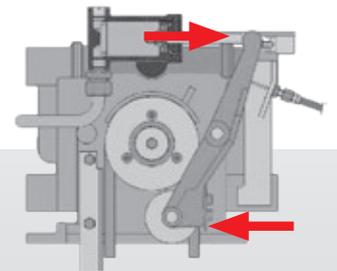
It is especially safe to operate thanks to the oil bath lubrication, inlet/outlet valves made from extremely resistant plastic, and the design as a double piston pump.



KAP210P: No water pressure, drive belt tensioned: priming pump is running.



Water pressure over 1.5 bar, drive belt relieved: priming pump stops.



Actuation of automatic priming

- For the N/NH series, N65 / N80, and H5: the KAP210P priming pump drive belt is tensioned by a spring and disengaged by a cylinder.
- For N110 / N130: Electromagnetic clutch engages the KAP600E (with increased priming performance) via a belt.

Control of the priming pump depends on the pump pressure. When the priming pressure is reached, the pump is automatically disengage - the priming process is finished. In feeding and bilge mode, the priming pump is switched off.

The advantages of the priming pump

- The priming pump is located above the water pump drive and is engaged when required.
- Very fail-safe due to design as double piston pump and use of wear-resistant materials
- Dirt resistant
- Can be engaged and disengaged manually (only for N/NH series) or automatically

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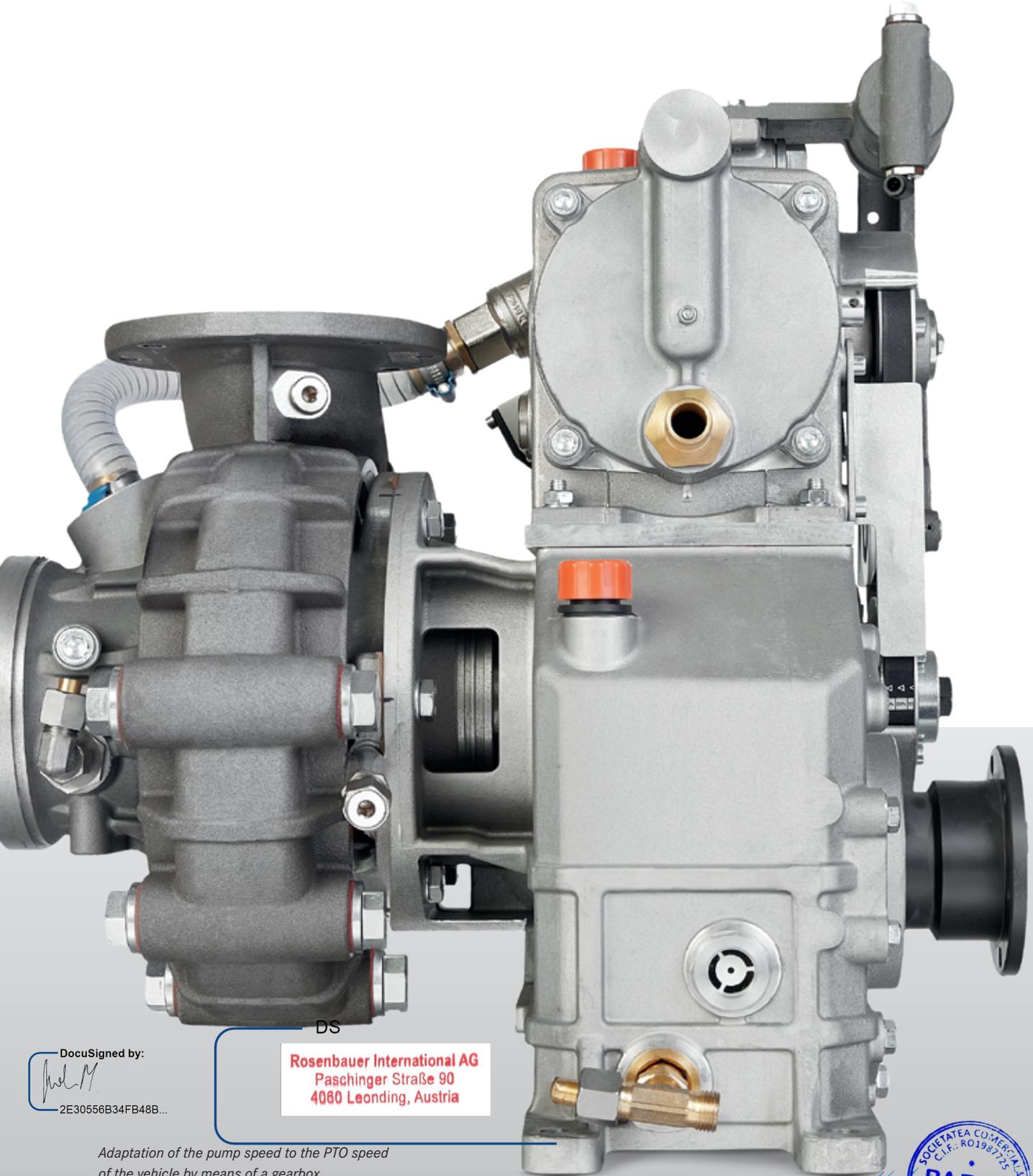
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More flexible drive.

Drive concepts of Rosenbauer pumps.



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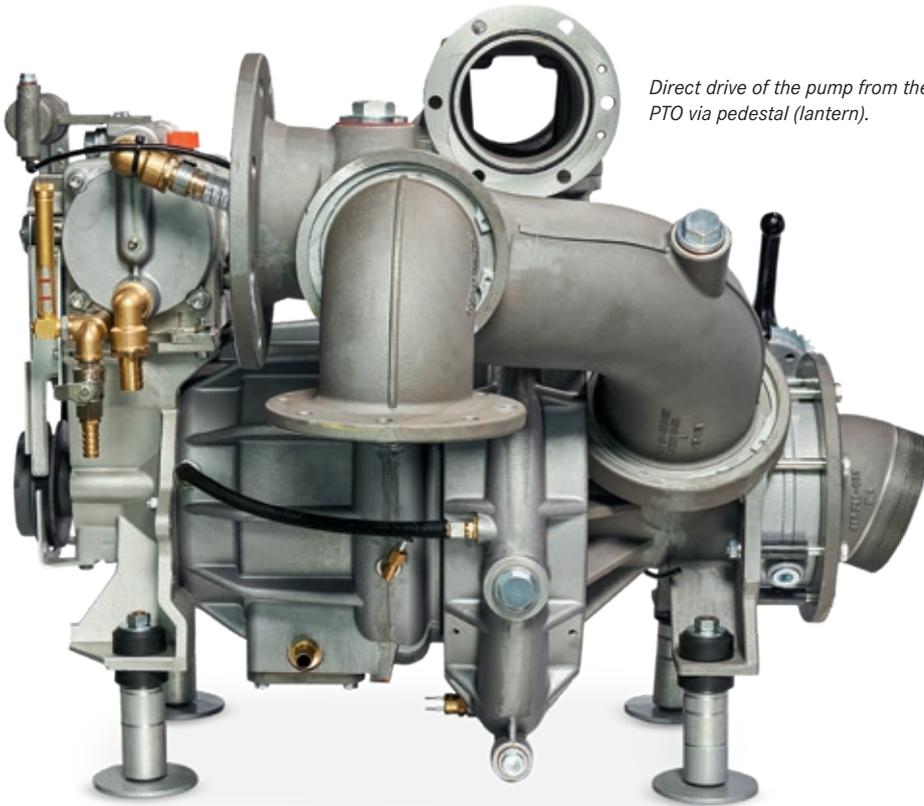
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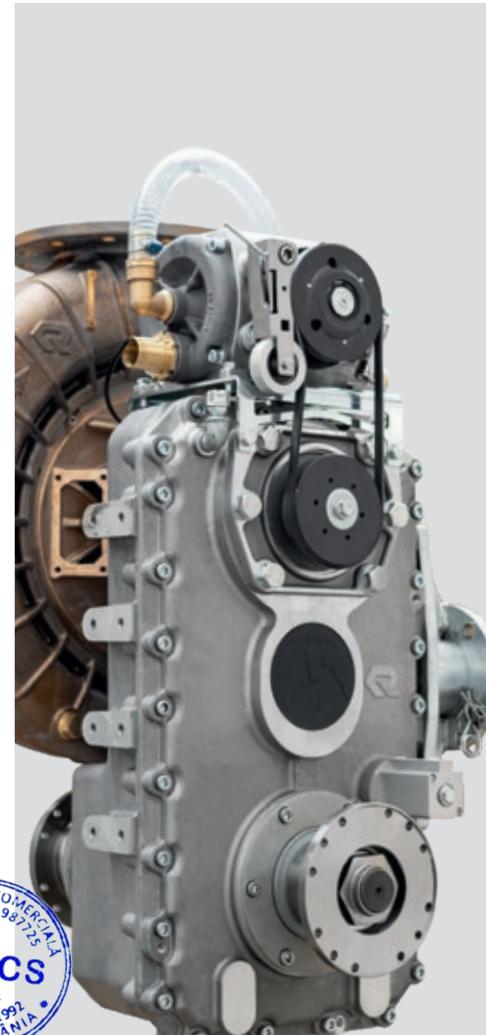
Adaptation of the pump speed to the PTO speed of the vehicle by means of a gearbox.





Direct drive of the pump from the PTO via pedestal (lantern).

Drive of the pump directly via vehicle drive by means of split-shaft gearbox.



Drive via pedestal (lantern) or gearbox

By default most pumps are driven by the vehicle's power take-off via a cardan shaft. The N/NH series is usually installed without an additional gearbox in order to achieve the highest possible efficiency and the lowest noise emission.

In order to adapt to different power take-off speeds, you can also use a pump with a gear-box attached to the pump. Different ratios are available for this purpose.

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Drive with a separate pump engine

If no suitable power take-off is available or if a drive independent of the vehicle engine is desired, each Rosenbauer pump can also be driven by a separate pump engine. The built-in pump is flanged to the engine with an SAE connection to save space.

Hydraulic drive

Rosenbauer pumps can also be hydraulically driven. This arrangement also allows a pump drive independent of the vehicle drive for pump & roll operation.

Split-shaft gearbox

If no suitable power take-off is available, then a split-shaft gearbox can also be used. Here, the full drive power of the vehicle can be transferred to either the rear axles or the pump drive.

Offset gearbox (RGB335)

If larger distances between the power take-off and the pump drive have to be overcome, then the offset gearbox is the ideal solution. A distance of 335 mm can thus be overcome.



Around-the-pump foam proportioning systems.

The right proportioning for every need.

Around-the-pump proportioning system FIXMIX 2.0

A mechanically-operated around-the-pump foam proportioning system integrated into the pump is available for all normal pressure pumps from N10 to N80.

This is available either as an automatic, mechanically controlled (FIXMIX 2.0 A), or mechanically pre-controlled, electronically regulated system (FIXMIX 2.0 E). Up to three different proportioning ratios can be selected (from 0.5%, 1%, 3% or 6%). With the FIXMIX 2.0 E an optional stepless proportioning rate adjustment is also available. This version also displays the amount of water and foam already consumed. For the N/NH series also a fully manual operation (FIXMIX 2.0M) is optional available.

Around-the-pump proportioning system HP-FIXMIX

With this mechanical system, foam concentrate can also be added at the high pressure stage. Very good foam qualities (CAFS-like) can be achieved with high-pressure proportioning.

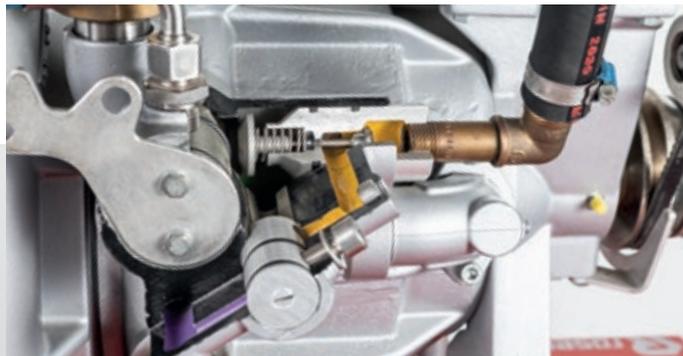
Around-the-pump proportioning system FOAMATIC E

An electronic around-the-pump foam proportioning system integrated into the pump is available for the N110 and N130. With this system, the water flow rate and the foam concentrate flow rate are determined by means of magnetic inductive flowmeters and constantly adjusted to the set proportioning rate to ensure exact proportioning.

Either three proportioning rates can be selected or the proportioning can be stepless adjustable. In foam operation, the currently consumed water and foam quantities are displayed.



FIXMIX 2.0



High pressure FIXMIX

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 Paschinger Straße
 4080 Leonding, Austria



The advantages of around-the-pump foam proportioning systems

- Easy to operate
- Rosenbauer's around-the-pump proportioning systems automatically adjust to the water flow as well as the water pressure.
- Tried and tested systems that are in operation worldwide
- Fully integrated systems matched to the pumps.
- Electronically controlled systems, such as the FIXMIX 2.0 E, adapt better to higher viscosity foam compounds and allow stepless variable adjustment of the proportioning rate.



■ Direct injection proportioning systems.

HYROMATIC

The HYROMATIC is a hydraulically driven and electronically regulated balanced pressure foam proportioning system specially designed to meet the requirements of industrial and works fire departments. It mixes the foam concentrate directly and individually at the different pressure outlets. Thus the water pump remains free of foam concentrate. The HYROMATIC is also available in three different sizes: with a maximum pump output of 240, 800, or 1200 l/min. The proportioning rate is set manually at the respective pressure discharge and is either between 0.5% and 6% or between 1% and 9%. The setting for the turret is electrically controlled. Electronically regulated injection points are optionally available.

RFC Admix VARIOMATIC

The VARIOMATIC is an electrically driven and electronically regulated direct injection foam proportioning system that meets the requirements of voluntary, professional, as well as industrial fire departments. The system works extremely precisely and reliably and admixes the foam concentrate directly in the pressure outlet, leaving the water pump free of foam concentrate. The VARIOMATIC is available in three different sizes: with a maximum pump output of 12, 24, or 48 l/min. The minimum foam quantity is 0,1 l/min. The proportioning rate can be stepless adjusted between 0.1% and 6%, and up to four injection points can be installed. As a single-channel system, only one point can be operated at a time; in a multi-channel system, up to four can be operated simultaneously.

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4060 Leonding, Austria



The advantages of direct injection proportioning systems

- Easy to operate via RBC LCS
- Proportioning of the foam concentrate directly at the outlet- thus foam-free water pump
- Simultaneous extinguishing is possible with water/ foam mixture and cooling with water.
- Foam proportioning is also possible without any problems when water pump is operated in feeding mode.
- Operation of the systems either in external foam suction mode or via up to two foam concentrate tanks
- Foam concentrate tank filling via the system is possible after foam operation.
- VARIOMATIC: smallest proportioning quantities for wetting agent application - for breaking the surface tension and discharge quantities of up to 48 l/min, e.g., for turret operation
- HYROMATIC: large foam quantities with foam rate adjustment for each output, specially for industrial applications



Simple and convenient.

Operation and configuration.

Ergonomic operation

The control unit is the interface between the operator and the fire-fighting vehicle. The logically designed operating structure and the labelling of the different media, media status and equipment relieve the operator as much as possible. It helps him to find the best possible way even in extreme situations. When developing the operating concept of the Rosenbauer pumps, particular emphasis was placed on user-friendliness and ergonomics. Control can either be manually or electronically.

Manual operation

Optional manual controls are available on the N/NH series. They are ergonomically shaped and can be operated while wearing gloves. The respective function of the control element is engraved and color-coded.

Electronic operation

Various pump functions, foam proportioning and compressed air foam systems as well as generators can be operated via the RBC LCS. All functions are backlit for flawless operation even in poor light conditions and at night.

Depending on the degree of automation, the operating panel can be equipped with button operation or with a 10" display.



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 Paschinger Straße 90
 4080 Leonding, Austria

The advantages of operating Rosenbauer pumps

- Extremely easy, ergonomic operation
- All vehicles have a similar user interface and are therefore similar in handling, e.g. water pump, foam proportioning system, compressed air foam system (CAFS), generator and light mast.
- Uniform operation of all Rosenbauer pumps.
- Media and media status are color-coded throughout.
- Control panel is backlit - for poor weather conditions or working at night.



■ Special modular system.

Rosenbauer pumps are specified to the needs of the customer by means of a special modular system. Thus it is possible to adapt the pump specifically to the different chassis, the environment and the operator.

- **Overheating protection**
Design as purely mechanical or pneumatic overheating protection.
Safe protection against overheating for normal and/or high pressure pumps
- **Different materials**
Standard: corrosion-resistant light alloy
Gunmetal design for seawater operation
Stainless duplex casting for seawater operation (available for N/NH35, 55)
- **Pump heating**
Prevents the pump from freezing during long start-ups and at low ambient temperatures
- **Pump pressure regulator with cavitation indicator**
Controls the engine speed so that a set pressure is maintained - regardless of the amount of water discharged
- **Integration of foam proportioning systems**
Both around-the-pump proportioning and direct injection proportioning systems, as well as CAFS, can be easily integrated
- **Different drive options**
Different drive options are available depending on the requirements and installation position
- **Brake for drive shaft**
Especially for automatic transmissions, so that the power take-off shaft does not run when the power take-off is disengaged
- **Pump control panel**
Wide range of equipment (manual, electric, ...) - depending on customer requirements and degree of automation



Pump with cover and RBC LCS.



Pump in gunmetal design (e.g. V100).

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Outstanding safety.

Tried-and-tested quality.

Rosenbauer attaches the utmost importance to compliance with all standards and safety regulations in engineering and production. In order to be optimally prepared for operation by the customer, all pumps are tested several times and subjected to a pressure test before installation.

Test runs for emergencies

After completion, each pump is subjected to an extensive test run on the Rosenbauer test pit and a test report is created.

After the vehicle has been assembled, another test run is carried out to ensure that nothing is left to chance in the event of an emergency. This creates trust and provides security.



Firefighters all over the world trust in the robustness, operational reliability, and high operating comfort of Rosenbauer's centrifugal fire pumps.



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Paschinger Straße 90
4080 Leonding, Austria



Certified according to EN 1028

p	Q	N10	N20	N15	N25	NH25	N35	NH35	N45	NH45	N55	NH55	N65	N80	N110	N130
FPN 10 – 750		x		x												
FPN 10 – 1,000		x		x												
FPN 10 – 1,500			x	x	x	x										
FPN 10 – 2,000			x		x	x										
FPN 10 – 3,000							x	x								
FPN 10 – 4,000									x	x	x	x				
10 – 5,000*											x	x				
FPN 10 – 6,000													x	x		
10 – 8,000**														x		
10 – 11,000***															x	x
10 – 13,000****																x
FPH 40 – 250*****							x	x		x		x				

EN 1028: p = nominal pressure (bar), Q = rated capacity (l/min)

*) Capacity range of N55 / NH55 not included in EN1028 - corresponds to 5,000 l/min at 10 bar

**) Capacity range of N80 is not included in EN1028: corresponds to 8,000 l/min at 10 bar

***) Capacity range of N110 is not included in EN1028: max. capacity: 11,000 l/min at 10 bar

****) Capacity range of N130 is not included in EN1028: max. capacity: 13,000 l/min at 10 bar in tank suction operation, or at 1.8 m suction

*****) FPH 40 - 250 according to EN1028, optionally also 40-400: with at least 2 HP outlets or high pressure turret



UL-classified in accordance with NFPA 1901

p	Q	N25	NH25	N35	NH35	N45	NH45	N55	NH55	N65	N80	N110	N130
150 – 500		x	x										
150 – 750				x	x								
150 – 1,250						x	x						
150 – 1,500								x	x				
150 – 1,750										x			
150 – 2,000											x		
150 – 2,250											x		
100 – 3,000												x	
100 – 3,500													x

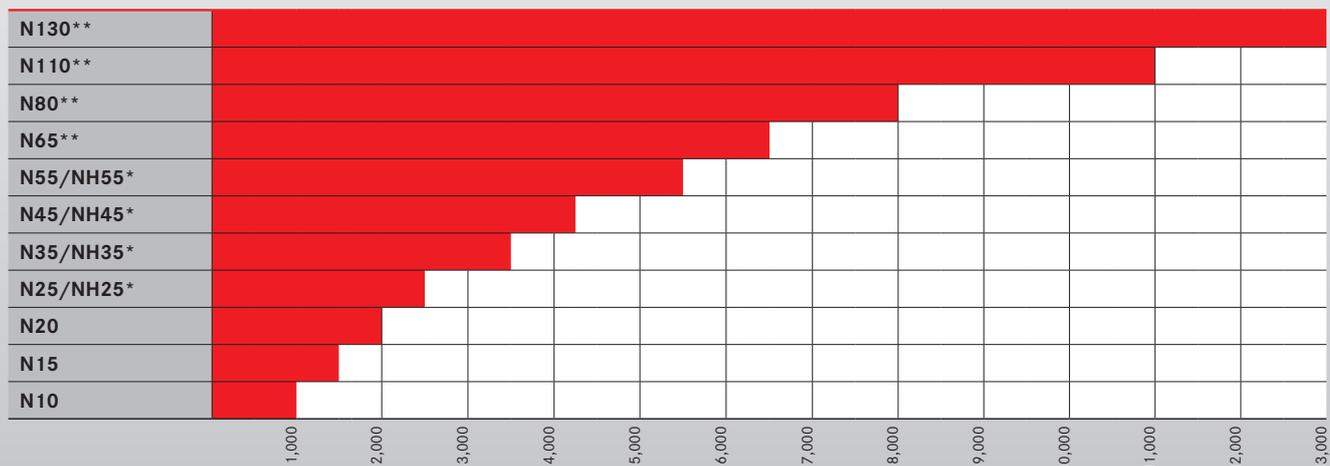
UL: p = nominal pressure (psi), Q = rated capacity (USgpm)

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DS
Rosenbauer International AG
 Paschinger Straße 90
 4060 Leonding, Austria

Rated capacity in l/min



The rated capacity always depends on the hoses used (size and number).

*) with the NH series, high-pressure outputs of up to 400 l/min at 40 bar are also possible (at least 2 HP outlets or HP turrets)

**) H5 high-pressure pump with a capacity of up to 500 l/min at 40 bar optionally available (at least 2 HP outlets, or HP turrets)

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4060 Leonding, Austria

