



PRODUCT OVERVIEW

FIRE & VENTILATION EQUIPMENT

MOBILE GRAND VENTILATORS FOR VENTILATION OF LARGE STRUCTURES



Foto: Tinkhauser

**IT'S NOT IF YOU'LL
NEED IT, BUT WHEN!**

A fire in large structures can quickly turn into a disaster. It is hardly possible for the fire fighters to orientate themselves in the smokefilled areas and the heat build-up leads to the fire spreading extremely quickly. In 1995 we have been the first manufacturer who had a solution for that problem – the Mobile Grand Ventilator MGV®.

Mobile Grand Ventilators allow by effective ventilation to remove smoke, heat and toxic gases from rescue scenes and burning buildings, independent from fixed installations. The conditions for the fire fighters are essentially improved. Lower temperatures, immediate better visibility and orientation help extinguishing fires much faster and rescue operations are safer.



THE POWER OF A MGV®

While theoretically several portable high-performance fans have the same air output as a Mobile Grand Ventilator, this does not mean that these fans can also ventilate a large scale structure in case of a fire. For the ventilation of a large structure, a corresponding dynamic pressure is required, which can only be generated by a large fan. The air performance of several small fans cannot simply be added up. There is no alternative to a corresponding MGV for the effective ventilation of large objects.

In addition to the pure air output of the fan (nominal air output), the usual performance specifications for portable high-performance fans also include the additional air entrained - due to the air flow - which can be a multiple of the nominal air output. To be able to compare the air performance, we state in addition to the nominal air output also the maximum effective airflow for our Mobile Grand Ventilators, the total air volume that can be moved in road tunnels.

**UNDERGROUND PARKING • HIGH-RISE BUILDINGS
TUNNELS • SHOPPING CENTERS • AIRPORTS
SCHOOLS • HOSPITALS • INDUSTRIAL FACILITIES**

HUMAN RESCUE

Mobile Grand Ventilators immediately ensure better visibility and lower temperatures in burning buildings. Rescue operations and firefighting can be handled faster, safer and more efficient. The area up to the scene of fire is cleared of smoke and heat, and the chances of survival for trapped people increase. In case of an emergency of the attack squad, the approach time of the security team is shortened significantly.

LESS DAMAGE

Directed ventilation helps to avoid smoke and heat damage. Production downtimes in the event of fires in a manufacturing plant or assembly building can be significantly reduced. Due to the structural situation positive pressure ventilation is not always possible or tactically reasonable if the spread of smoke cannot be controlled. With the ventilation hose system, the polluted air and cooled smoke and gases can be extracted over long distances and out of enclosed areas or areas can be ventilated well-directed by injecting fresh air through the hose line.

EFFECTIVE COOLING

The water mist system enables to cool down objects effectively and knock down toxic gases successfully. The optimal distribution of the water in the air jet and the fine droplets achieve excellent thermal absorption capacity. Protection of endangered buildings or objects can be accomplished with fewer personnel and less water than with handheld nozzles.

MGV® XP

THE MOST FLEXIBLE GRAND VENTILATOR



The Xtreme Performance fan XP105 and XP125 are the first hydraulically driven Mobile Grand Ventilators in lightweight construction. The newly developed large fans offer unique flexibility and extreme performance for the tactical ventilation of large-volume objects. The enormous inclination range of + 40 ° to -90 ° even enables vertical ventilation via openings at ground level, such as ventilation shafts and supply ducts. The patented lifting and tilting device allows a huge range of operations.

HYDRAULIC

The hydraulic drive of the MGV allows the fan to be operated in any position and therefore an enormous tilting range can be realized. It is powered by reliable engines if mounted on trailers and swap bodies. When it comes to fire truck construction, the power take-off enables a level of flexibility that has not previously existed, while at the same time the dimensions of the fan are compact and the weight is low. The design of the fan enables an optimal flow to the impeller and thus an extreme air performance in its class.

TECHNOLOGY

The patented lifting and tilting technology offers a wide range of possible uses, from vertical ventilation to ventilation via high air inlet openings or via obstacles such as noise protection walls. When mounted on vehicles, the Xtreme Performance large fan XP can be optimally adjusted by a rotation device. The specially developed control offers new comfort functions and optional operation via cable remote control or control panel.

	XP 105	XP 125
Max. air volume effective	600.000 m³/h	850.000 m³/h
Air output nominal	145.000 m³/h	200.000 m³/h
Axial thrust	approx. 2.100 N	approx. 2.900 N
Max. air speed	46 m/s	46 m/s
Engine	Diesel, 4-cyl.-engine, water cooled turbocharger, EU Stage V	Ford, 6-cyl.-gasoline engine, water cooled or auxiliary drive / PTO
Engine power @ 3.000 1/min	55,4 kW	72 kW
Propeller	Fiber-glass reinforced polyamide	GRP with carbon fibre, 6 blades
Drive mechanism	Hydraulic	
Shroud	GRP, double-shell design	
Lift height	1.860 mm	2.500 mm
Tilt angle	+40° / -90°	+40° / -90°
Rotation angle	optional 360°	optional 360°
Operation	Remote control with TFT-display or control panel	
Water Mist System	○	○
Nozzles	10 pcs. integrated in the stators	14 pcs. integrated in the stators
Water output	200 l/min (7 bar)	280 l/min (7 bar)
Ventilation Hose System	○	○
Air output extraction mode	35.000 m³/h	66.000 m³/h
Diameter ventilation hoses	800 mm	800 mm
Adapter	1 pcs. GRP incl. 3 m hose	2 pcs. GRP incl. 3 m hose
Mounting	Pressure or intake side	Pressure or intake side
Length	1 x 15 m (standard), upgradeable	2 x 15 m (standard), upgradeable
Smooth Bore Ducting	○	○
Diameter ducting	1.160 mm	1.400 mm
Mounting	Pressure side	Pressure side
Length	100 m	100 m

TOTAL HEIGHT <2 M!

COMPACTNESS

Consistent integration of the technology into the design of the trailer enables the XP 105 to be built as the first hydraulically driven MGV on an one-axle trailer and, with the integrated side handles, allows fire fighters to position the MGV by hand very easily. Despite the enormous lifting height, the MGV XP 105 has a total height of less than 2 m in the transport position and can therefore be brought to the operation site even through low car passages.



MGV® L125

THE POWERFUL GRAND VENTILATOR



The MGV® L125 is extremely powerful and enables effective ventilation of large industrial facilities, warehouses, underground car parks, high-rise buildings, shopping malls, airports or kilometer long tunnels. It is the ideal partner for every fire brigade who has to deal with fires or dangerous incidents in large structures. Almost 20 years on the market and now in its 4th generation it is still the most powerful MGV in its class. The MGV® L125 is powered by a reliable FORD 4-cylinder in-line engine and the lightweight construction allows it to be mounted on a vehicle trailer with a gross vehicle weight of 750 kg or light-trucks with a gross vehicle weight of 3.5 t.

POWERFUL

The specially developed propeller blades are made of carbon fiber reinforced plastic and allow a higher speed than conventional impellers – this enables the MGV L125 to achieve a significantly higher air output than other large fans of this size. The double-shell designed shroud made of GRP offers optimal aerodynamics and low weight. The L125 is driven by a toothed belt. This enables the optimum speed for motor and propeller and a better inflow of air to the propeller.

RELIABLE

The proven technology and the large series engines make it powerful and reliable at the same time. The hydraulic lift-rotation-tilt-device allow the air jet to be ideally adjusted even in unfavorable constructional conditions. The quick positioning of the fan means that obstacles such as walls and hedges can be easily overcome; time-consuming maneuvering is no longer necessary. With the cable remote control with TFT display, all relevant information can be seen during operations.



	L125 F3
Max. air volume effective	850.000 m³/h
Air output nominal	200.000 m³/h
Axial thrust	approx. 2.900 N
Max. air speed	46 m/s
Engine	Ford, 4-cyl.-gasoline engine, water cooled
Engine power @ 3.200 1/min	60 kW
Propeller	GRP with carbon fibre, 6 blades
Drive mechanism	Toothed belt (maintenance free)
Shroud	GRP, double-shell design
Operation	Remote control with TFT-display and 5 m cable
Water Mist System	○
Nozzles	14 pcs. integrated in the stators
Water output	280 l/min (7 bar)
Ventilation Hose System	○
Air output extraction mode	66.000 m³/h
Diameter ventilation hose	800 mm
Adapter	2 pcs. GRP incl. 3 m hose
Mounting	Pressure or intake side
Length	2 x 15 m (standard package), upgradeable
Smooth Bore Ducting	○
Diameter ducting	1.400 mm
Mounting	Pressure side
Length	100 m



L125 SPEED



A purpose-built, special designed one-axle trailer. Compact and light-weight for extreme handiness. One person can easily position the MGV® with the big handles on both sides.

Dimensions (l x w)	3.400 - 4.000 x 1.850 mm
Height	2.300 mm
Gross vehicle weight	750 kg
Height adjustable drawbar	○
Material box incl. tool kit	■
Support devices (2)	■
Handles	■
LED working lights	○
Integrated battery charger	○



L125 ACTION

L125 on one-axle trailers for flexible mounting versions and various options: from the ventilation hose system to a light mast for the perfect lighting of the scene of operation. The hydraulic lift-rotation-tilt-device allows the optimal fan adjustment.



	Action S	Action M	Action L
Lift height	0,6 m	0,6 m	0,6 m
Tilt angle	± 20°	± 20°	± 20°
Rotation angle	± 100°	± 100°	± 100°
Operation	hydraulic with foot pump or 12V-hydraulic pump		
Platform (l x w)	2.600 x 1.560 mm	3.100 x 1.560 mm	3.350 x 2.000 mm
Dimensions (l x w)	4.000 - 4.250 x 2.070 mm	4.600 - 4.850 x 2.070 mm	5.000 - 5.400 x 2.070 mm
Height	max. 2.700 mm	max. 2.700 mm	max. 2.700 mm
Gross vehicle weight	1.350 kg	1.600 kg	1.800 kg
Support devices (4)	■	■	■
Height adjustable drawbar	○	■	■
LED working lights	○	○	○
Integrated battery charger	○	○	○
Equipment rack	--	■	○
Equipment compartment	--	--	■
Light mast	--	--	○

additional options / accessories available

L125 TASK

The MGV® L125 Task was specifically developed for mounting on chassis or swap body. The electro-hydraulic lift-rotation-tilt-device of the Task XL is completely operated by remote control. One single push on the remote control and the ventilator moves automatically back to transport position.



	Task L	Task XL
Lift height	0,6 m	1,3 m
Tilt angle	± 20°	± 25°
Rotation angle	± 100°	± 180°
Lift / Tilt operation	12V-hydraulic pump	24V-hydraulic pump
Rotation operation	manual	electric
Control	manual	PLC-control
Automatic transport position	--	■
Stainless steel tank	■	■
Height above platform	approx. 2.250 mm	approx. 2.500 mm
Weight MGV®	approx. 700 kg	approx. 1.000 kg
LED working lights	○	○
Stainless steel tank 175 l	○	○
Platform f. chassis mount	○	○
Chassis	○	○
Swap body	○	○

additional options / accessories available



USED WORLDWIDE



MGV® L80

THE MOST COMPACT GRAND VENTILATOR



A true all-rounder. The MGV® L80 II offers the power for effective ventilation of large structures such as underground car parks, schools, department stores, warehouses or workshops and is at the same time light-weight and compact. When it was launched in 2010, the MGV L80 defined a new class. The MGV L80 II has been completely reengineered. Especially on the MGV L80 II B with a combustion engine, the new toothed belt drive ensures improved airflow to the impeller. All MGV L80 II have an electric tilt device with a tilt range that is unrivaled in this class for optimal adjustment of the fan to the entrance opening, especially for ventilation of basements and underground car parks.

GASOLINE ENGINE

The toothed belt drive and the high-quality engines of the Honda GX series ensure maximum reliability and exceptional performance. In addition to the improved air flow to the propeller, the drive concept also allowed to optimize the size of the special GRP adapter for suction performance unrivaled in this class. The MGV L80 II B+ offers with its electronic fuel injection, significantly smoother running, greater efficiency and extremely easy starting with an automatic choke. With the compact trailer or with the push cart, it is quick and easy in operation.

ELECTRIC MOTOR

The MGV® L80 II E is driven by powerful electric motors. The air output is infinitely variable and can be adapted to the specific needs during the operation. With lowered speed the noise level of the L 80 II E is reduced essentially – up to 80%. Because of the absence of exhaust fumes it can be operated inside buildings. The very high quality industrial electric motors are maintenance-free and durable. With the innovative frequency control the performance of the drive is optimized, therefore the drive power is clearly higher than the nominal power of the motor.

NO EXHAUST FUMES • UP TO 80% LESS NOISE • LOW-MAINTENANCE

For the ventilation of sensitive areas (e.g. hospitals or food industry), the MGV L80 II is the only large structure fan available with two powerful electric drives.



	L80 II B	L80 II B+	L80 II E11	L80 II E16
Max. air volume effective	210.000 m³/h	220.000 m³/h	155.000 m³/h	200.000 m³/h
Air output nominal	65.000 m³/h	68.000 m³/h	50.000 m³/h	65.000 m³/h
Axial thrust	approx. 800 N	approx. 850 N		
Max. air speed	39 m/s	41 m/s	32 m/s	38 m/s
Engine	Honda GX 690, 2-cyl.-engine	Honda iGX 800, 2-cyl.-engine	Siemens three-phase motor 400V	
Drive power	16,5 kW	18,6 kW	11 kW @ 1.700 1/min	16 kW @ 2.300 1/min
Nominal motor power			7,5 kW	11 kW
Connecting plug			CEE 400 V 16 A	CEE 400 V 32 A
Propeller	fiber-glass reinforced polyamide, 6-blade		PAG, 7-blade	PAG, 9-blade
Drive mechanism	toothed belt		direct drive	
Shroud	fiber-glass reinforced plastics, clam-shell design			
Remote control	--	○	○ (wireless)	○ (wireless)
Water Mist System	○			
Nozzles	8 pcs. stainless steel ring			
Water output	170 l/min (7 bar)			
Ventilation Hose System	○			
Air output extraction mode	19.000 m³/h	20.000 m³/h	14.000 m³/h	19.000 m³/h
Diameter ventilation hose	600 mm			
Adapter	1 pcs. GRP incl. 2 m hose / 1 pcs. duct reducer			
Mounting	intake side / pressure side			
Length	14 m (standard), upgradeable			

L80 II **B SPEED**



The enormously robust, specially developed single-axle trailer BIG 750 with galvanized steel frame, high-quality aluminum checker plate components, ergonomic handles and standard tilting device can be easily positioned and operated by one person. Many options are possible, from the lift- and rotation-device to the ventilation hose system and LED working lights for illuminating the scene of operation.

Tilt device electrical	■
Tilt angle	+20° / -20°
Rotation device manual	○
Rotation angle	± 100°
Lift device hydraulic	○
Lift height	600 mm
Dimensions (l x w)	2.750 - 1.450 (1.650) mm
Height	1.900 - 2.200 mm
Gross vehicle weight	750 kg
Height adjustable drawbar	○
Support devices	■
LED working lights	○
Charging port MagCode 12V	■
Integrated battery charger	○
Ventilation hose system	○

additional options / accessories available

L80 II **B CITY**

The pushcart has a four-wheel steering for a high maneuverability and an all-wheel brake with deadman handle for maximum stability and safety during operation. Therefore, it can be easily positioned and operated by one person. The tilt-device and optional lift-device increase the flexibility for different operational situations.



Tilt device electrical	■
Tilt angle	+20° / -20°
Lift device hydraulic	○
Lift height	600 mm
Dimensions (l x w)	1.200 x 1.050 mm
Height	1.750 - 1.970 mm
Weight	220 - 375 kg
Deadman all-wheel brake	■
Four-wheel steering	■
Charging port MagCode 12V	■
LED working lights	○
Integrated battery charger	○

**EASY HANDLING,
COMPACT STORAGE**

■ = Equipped as standard ○ = Optional

L80 II E CITY



Tilt device electrical	■
Tilt angle	+25° / -10°
Dimensions (l x w x h)	1.200 x 1.050 x 1.650 mm
Weight	220 kg / 270 kg
Deadman all-wheel brake	■
Four-wheel steering	■
LED working lights	○

The pushcart has a four-wheel steering and an all-wheel brake with deadman handle for maximum stability and safety during operation. The integrated tilt-device allows an easy and fast adjustment.

L80 II E CITY Q



Tilt device electrical	■
Tilt angle	+25° / -10°
Dimensions (l x w x h)	1.200 x 800 x 1.650 mm
Weight	215 kg
Deadman all-wheel brake	■
Four-wheel steering	■
Support device	■
LED working lights	○

Alternatively, the L80 II E11 can be positioned sideways on a pushcart in order to be transported place-savingly. An additional supporting leg guarantees maximum stability during operation.

PUSHCART ACCESSORIES



For transport of the ventilation hose system and additional accessories, various pushcarts are available. They can be constructed in flexible ways in order to lorry further equipment such as additional ventilation hoses, portable smoke blockers and the foam generator system FlexiFoam.

THE UNIVERSAL HIGH PERFORMANCE FAN FOR THE VENTILATION OF FIRE SCENES



FANS FOR EVERY OPERATION!

High performance fans allow effective ventilation of burning buildings and sites of operation to clear from smoke, heat and toxic gases. The conditions for the fire fighters are significantly improved. The attack team can orient itself more quickly in the object, carry out more effective firefighting and handle rescue operations more safely. Our high performance fans are developed with the aim of mastering every operational situation in the best possible way, regardless of the tactical approach or the ventilation philosophy. They are specially designed for the requirements of a fire service and have outstanding ergonomics. The ventilation will be more effective and the fire fighting operation safer. Apartment buildings and more complex buildings are no challenge for our high performance fans. The higher velocity allows the high performance fan to be placed at a greater distance up to 6 meters from the front door.

EXCELLENT ERGONOMICS



The patented, flip-up handle allows easy, ergonomic transport for large and small fire fighters.



Largest possible tilt range for an ideal flow to the ventilation opening. Simple, quick alignment upwards and downwards using a user-friendly foot pedal.



Versatile, innovative grip options all around ensure simple unloading from the appliance and an easy handling.

VERY COMPACT AND EXTREME LIGHTWEIGHT

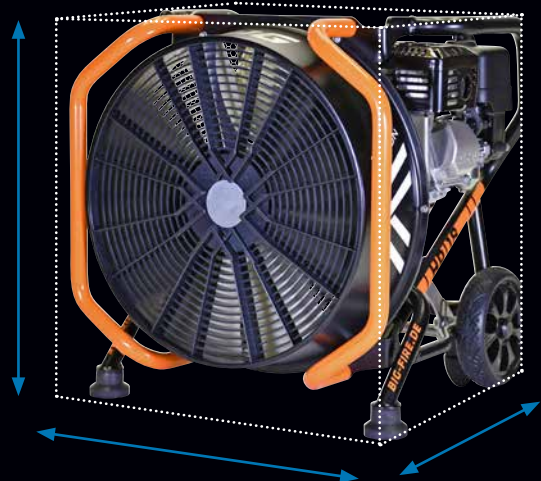
Low weight and compact dimensions have been the focus of our design team. Thanks to the innovative material mix, the HP18 is the lightest high performance fan in its class. Due to their compactness, our high performance fans also require little space in the vehicle. Handling and loading of the fans are thereby considerably simplified. This means that there is no need for an expensive and heavy pull-out.

OUTSTANDING QUALITY

BIG high performance fans are developed and assembled at our factory premises in Southern Germany. Only high quality components and reliable engines from our experienced suppliers are used.

IMPRESSIVE POWER

The modified impeller design, an optimized air flow to the impeller and the innovative vanes allow for higher efficiency and better pressure build-up inside the building. The new high performance fans impress with their power and extreme effective ventilation during operations.



COMBUSTION ENGINE SELF-SUFFICIENT

High performance fans with combustion engine offer high air outputs, are quick to use and self-sufficient. There is no need for electric power or water supply to the fan. They have a significantly higher air output and are inexpensive. Therefore, they are ideal as a first attack tool.

ELECTRIC MOTOR FLEXIBLE

Electric driven fans do not generate exhaust fumes, thus providing the possibility of using them inside buildings. In addition, they can be operated in any position, even horizontally, for example, to be able to ventilate vertically via a lightwell. With adjustable electric drive, the air output can be adapted to the specific requirements.

HP18 BLACK EDITION



	HP18-H2	HP18-ES2	HP18-EV+
Type	HP18-H200-B1	HP18-ES2,2-B1	HP18-EV+2,2-B1
Drive / speed	combustion engine	electric / single	electric / variable *
Engine power	4,3 kW SAE J1349	2,2 kW	2,2 kW
Air volume effective	approx. 59.000 m³/h	approx. 48.000 m³/h	approx. 48.000 m³/h
Engine / motor	Honda GX200	230V / 50Hz	230V / 50Hz
Tilt angle	+20° / -20°	+35° / -20°	+35° / -20°
Dimensions (w x h x d)	51* x 55 x 48 cm	51 x 55 x 48 cm	51 x 55 x 48 cm
Weight	30 kg	32 kg	28 kg

* +4 cm w. exhaust hose adapter

* optional with display.

HP18 BLUE EDITION



	HP18-H1	HP18-ES1
Type	HP18-H160-B1	HP18-ES1,5-B1
Drive / speed	combustion engine	electric / single
Engine power	3,6 kW SAE J1349	1,5 kW
Air volume effective	approx. 49.000 m³/h	approx. 38.000 m³/h
Engine / motor	Honda GX160	230V / 50Hz
Tilt angle	+20° / -20°	+35° / -20°
Dimensions (w x h x d)	51* x 55 x 48 cm	51 x 55 x 48 cm
Weight	29 kg	28 kg

* +4 cm w. exhaust hose adapter

OPTIONS



WATER MIST SYSTEM

The special nozzles create a very fine water mist for cooling or binding gases and vapors. The water mist system fits all fans and is simply magnetically attached to the front grille. The flow rate is 60 l / min (at 7 bar / D-Storz) or alternatively 200 l / min (at 7 bar / C-Storz).



LED-LIGHT

The light package with modern LED technology ensures reliable illumination of the entrance opening at the scene of operation.

HP21 BLACK EDITION



	HP21-H3	HP21-EV4
Type	HP21-H270-B1	HP21-EV4,0-B1
Drive / speed	combustion engine	electric / variable *
Engine power	6,3 kW SAE J1349	4,0 kW
Air volume effective	approx. 105.000 m³/h	approx. 83.000 m³/h
Engine / motor	Honda GX270	400V / 50Hz
Tilt angle	+20° / -18°	+32° / -18°
Dimensions (w x h x d)	62 x 65 x 55 cm	62 x 65 x 55 cm
Weight	45 kg	38 kg

* optional with remote control.

SE18 – SMOKE EJECTOR BLUE EDITION

Powerful suction when positive pressure ventilation is not possible or does not make tactical sense.



	SE18-E0
Type	SE18-E0-B1
Drive / speed	electric / single
Engine power	0,75 kW
Air volume effective	approx. 26.500 m³/h
Engine / motor	230V / 50Hz
Dimensions (w x h x d)	51 x 51 x 40 cm
Weight	19 kg



VENTILATION HOSES

Ventilation hoses for specifically directed airflow and extraction of cold smoke, contaminated air and gases are available in lengths of 5 m and 10 m as well as in different versions: antistatic (flame retardant), heat resistant up to 180° C (flame retardant) and standard (flame retardant).



FOAM GENERATOR SYSTEM

The foam generator system FlexiFoam is ideal for flooding or covering larger areas. Foam production takes place directly at the location of the fire. The inefficient transport of finished foam is eliminated. In addition, the FlexiFoam can also be used in areas filled with smoke. The system is not using the ambient air, fresh air for the foam generation is feeded through ventilation hoses by the fan. Smoke will not affect the foam quality.

BATTERY DRIVEN FANS

THE NEXT GENERATION

With its intelligent battery technology, the HP18 iB+ sets new standards in running time and operation of battery-operated fans and eliminates the need to replace batteries during operation or to set up a power line!



SETS NEW STANDARDS IN RUNNING TIME AND OPERATION OF BATTERY DRIVEN FANS!

Thanks to its low weight and simple operation, the battery-powered HP18 iB+ can be quickly and easily brought into position by a fire fighter and enables effective, autarc ventilation without wasting time by setting up a power supply. The powerful battery allows ventilation for 85 minutes at full speed, for up to 9 hours at reduced power. Thanks to the intelligent battery technology, the remaining running time is displayed at any time and the output can be adjusted to requirements. Replacing the battery or establishing a power supply is therefore usually not necessary. If the fan is connected to a power supply anyway, the fan automatically switches to net operation. Battery driven fans allow effective ventilation of burning buildings and fire scenes from smoke, heat and toxic gases and can be used inside buildings to support the ventilation of more complex objects. The conditions for the fire fighters are significantly improved. The attack group can orient itself faster inside the object and fight the fire more effectively.

ENGINEERED FOR THE FIRE SERVICE SMART BATTERY TECHNOLOGY



- High quality lithium-ion swapable battery Made in Germany
- 85 minutes of full power and up to 9 hours of running time at reduced speed
- Thanks to the very large battery, it is directly ready for the next use - mostly without charging!
- Automatic switch between battery and net operation without change in performance
- Color display with a unique running time, power mode and operating status display
- Compact dimensions for optimal loading in the vehicle
- The battery can be replaced in seconds if required
- Can be used inside buildings - no exhaust gases in the building
- Charger, LED light and carrying strap included - optional quick and car charger



HP18 iB+

Type	HP18-iB+-B1
Air volume (free air)	approx. 38.000 m³/h
Drive	electric / battery
Battery	Li-Ion
Running time	85 min – 9 hours
Charge Cycles	500
Charging time	approx. 270 min (100%)
Power supply	230 V / 50 Hz
Tilt angle	0° – 180° / 15 positions
Protection classes	IP66 (control a. motor) / IP67 (battery)
Dimensions (w x h x d)	51 x 52,5 x 28,5 cm
Weight	22,6 kg

PORTABLE SMOKE BLOCKER PREVENTS SMOKE AND HEAT SPREAD



RSS FIRE SERVICE PRO

The model F was specially developed for fire services and has a shoulder strap and special reinforcements made of leather for safe storage on the emergency vehicles; optionally with an attachment option to fix the portable smoke blocker to a hose basket.

The Fire Service PRO version is also equipped with a special tension rod for frequent use. With the integrated spring mechanism of the tension rod, the PRO version can be pre-tensioned for easier and faster installation in the door frame.



	F 70 PRO	F 80 PRO	F 90 PRO
Door width	70 - 115 cm	80 - 140 cm	90 - 150 cm
Transport size	73 x 54 x 4 cm	83 x 54 x 4 cm	93 x 54 x 4 cm
Weight	4,8 kg	5,4 kg	5,8 kg

COUPLER SET

At many fire scenes - especially in public facilities and industrial buildings - passages are equipped with double doors. With the coupler set, two portable smoke blockers can be connected to each other quickly and easily, thus door widths and passages up to 3 m can be closed.



IN THE EVENT OF A FIRE, SMOKE FILLED STAIRCASES AND HALLWAYS CAN QUICKLY BECOME A DEADLY TRAP FOR PEOPLE FLEEING!

The portable smoke blocker made of special heat-resistant fabric can be quickly installed in a door or an entrance opening. The door to the area affected by the fire can now be opened and the fire fighters can enter the room behind without smoke and heat spreading in the building. The escape routes for the residents and the retreat ways for the fire fighters remain smoke-free. It is possible for the security backup to stay closer to the attacking fire fighters. The time for the rescue operation in case of a breathing protection emergency is considerable reduced.

Smoke damages in the areas not affected by the fire are clearly reduced. The portable smoke blocker can also be used to control the entry of air into the fire room in order to control ventilation measures in a targeted manner.

RSS SELF-HELP

Hospitals, nursing homes and special-care facilities require special safety concepts. The limited mobility of patients and residents makes evacuation even more difficult in the event of a fire. Smoke and toxic gases also endanger seriously the staff.

The portable smoke blocker for self-help was specially adapted to the conditions in these facilities. It can be installed quickly by the nursing staff. Even before the fire brigade

arrives, escape routes can be kept smoke-free for a safer and faster evacuation.

In addition, the installed smoke blocker also marks the entrance to the fire area. Consequently, other staff members do not accidentally open the door to the fire area and endanger themselves and others.



**HOSPITALS
SPECIAL-CARE HOMES
NURSING HOMES**

	S 80 - 140	S 90 - 150
Door width	80 - 140 cm	90 - 150 cm
Transport size	83 x 54 x 4 cm	93 x 54 x 4 cm
Weight	5,3 kg	5,7 kg

FOAM GENERATOR SYSTEM

FOAM GENERATION DIRECT AT THE SCENE OF THE FIRE

FLEXIFOAM



SELF-SUFFICIENT FLOODING FAST EXTINGUISHING

The FlexiFoam system is ideal for operations where rooms have to be flooded or larger areas have to be covered with foam.

The foam generation takes place directly at the location of the fire. Compared to conventional foam generators, the impractical, self-destructive transport of finished foam to the fire area is no longer necessary. In addition, the FlexiFoam can operate directly in areas filled with smoke. It is not using the ambient air, fresh air is fed through a hose line by the high-performance fan. Smoke will not affect the foam quality.

Once positioned at the scene of fire, the FlexiFoam can be operated in the danger zone without personnel. Even if it is completely covered with foam, it continues to produce foam and thus protects itself from the flames.

MEDIUM AND HIGH EXPANSION FOAM FROM A TURNTABLE LADDER

The foam is generated directly on the platform. The fresh air and the water foam-agent mixture are fed through hose lines placed on the ladder. Thereby it is possible to produce foam in greater heights or in smoke-filled areas and flood the scene of fire directly from above.

FLEXIFOAM



The FlexiFoam is connected to a high performance fan or a Mobile Grand Ventilator with ventilation hoses. The connection is made via a suitable duct reducer. In addition to the standard version, the gray ventilation hoses are temperature-resistant up to 180 ° C and can be used close to the fire site due to the internal cooling by the fresh air. The water foam-agent mixture is supplied via a conventional hose line and existing premix systems.

CONTINUOUS ADJUSTABLE EXPANSION RATIO

The air supply and thus the foaming rate can be continuously regulated via the speed of the fan. If there is little air supply, a flowable medium expansion foam is created to cover large areas. With a high air supply, a lightweight high expansion foam is produced that can fill entire rooms up to the ceiling in a very short time.



	M-L 2	M-L 4	M-L 4/8
Flow rate [7 bar]	200 l/min	400 l/min	400 / 800 l/min
Foam expansion ratio	100 - 500	80 - 300	50 - 300
Foam generation	20 - 100 m³/min	30 - 120 m³/min	30 - 160 m³/min
Coupling	Storz C or country-specific	Storz B or country-specific	Storz B or country-specific
Diameter generator shell	490 mm	490 mm	490 mm
Dimensions	505 x 590 x 520 mm	550 x 590 x 520 mm	550 x 590 x 520 mm
Weight	16,5 kg	17 kg	21 kg

Standard accessory kit includes: 1 x 5m ventilation hose Ø 500 mm (180° C), 1 x 5m ventilation hose Ø 500 mm (80° C), 1 x hose reducer und 1 x coupling band. To extend the system additional hoses in 5 m and 10 m length are available.

EST. 1991

INNOVATION

MADE IN GERMANY

BIG has itself excelled by introducing innovative products for ventilation of fire scenes since 1991. The BIG Mobile Grand Ventilators are leading the ventilation of large structures for more than 20 years. Our know-how and our experience of more than 30 years in sales, engineering and manufacturing of high performance fans for the fire service results in the constant redevelopment of our products Made in Germany. High performance combined with perfect ergonomics and quality are the objectives for the engineering made by BIG.

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