

# HIGH PERFORMANCE FANS PRODUCT OVERVIEW



***HIGH***  
PERFORMANCE

MADE IN GERMANY

# THE UNIVERSAL FAN FOR THE VENTILATION OF FIRE SCENES



High performance fans allow effective ventilation of burning buildings and sites of operation from smoke, heat and toxic gases. 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.

**WE HAVE OVER 29 YEARS OF EXPERIENCE  
IN THE VENTILATION OF FIRE SCENES!**



## SAFETY AND SAVING HUMAN LIVES

Our high performance fans ensure immediately better visibility and lower temperatures inside the burning object. Rescue and fire fighting operations can be handled quicker and safer. Effective ventilation clears the area in front of the fire from smoke and heat, thus increasing the chance for survival for trapped persons. In an emergency, the security squad can approach significantly faster.



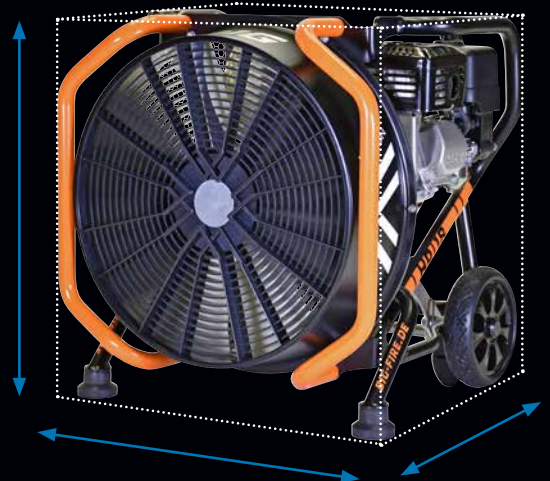
**REGARDLESS OF THE TACTICAL APPROACH OR THE VENTILATION PHILOSOPHY, THE HIGH PERFORMANCE FANS HAVE BEEN DEVELOPED WITH THE GOAL OF MASTERING EVERY SITUATION IN THE BEST POSSIBLE WAY.**

Our high performance fans are specially designed for the requirements of a fire brigade and have outstanding ergonomics. The improved air flow on the intake and the innovative vanes ensure optimized air flow and reduced power losses. The high-pressure concept enables optimum pressure build-up inside the building. The ventilation will be more effective and the fire fighting operation safer. Multi-family homes and more complex multi-storey 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.

Due to the optional accessories, the areas of application of the powerful high performance fans are even more extensive.

## 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 appliance. Handling and loading of the fans are thereby considerably simplified. This means that there is no need for an expensive and heavy pull-out.



# FANS FOR EVERY OPERATION

## OPTIMIZED MODEL PROGRAM

The new high-performance fans are available in two sizes (HP18 and HP21). There are three different drives: internal combustion engine, electric motor with single speed and electric motor with variable speed. The newest addition to our model program is the smoke ejector SE18. It allows powerful extraction when positive pressure ventilation is not possible or is tactically sensible.

## COMBUSTION ENGINE SELF-SUFFICIENT AND POWERFUL

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 than battery driven fans and are inexpensive. Therefore, they are ideal as a first attack tool.

## ELECTRIC MOTOR FLEXIBLE AND LOW-MAINTENANCE

Electric driven fans do not generate exhaust fumes, thus providing the possibility of using them inside buildings without problems. 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. At reduced speed, the running noise is decreased significantly, the fan is quieter up to 80%. Our frequency-controlled adjustable electric drives were specially developed for safe use with power generators.



# 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.

# EFFECTIVE VENTILATION

## IMPRESSIVE POWER

The modified impeller design and optimized air flow 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.

## 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.



# MADE IN GERMANY



## 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 output 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

\* optional with display.

## HP18 BLUE EDITION



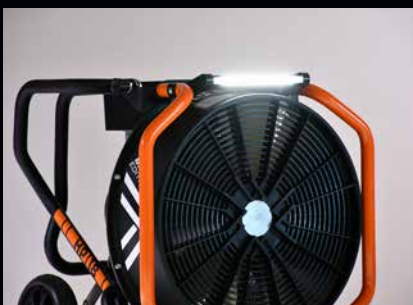
	HP18-H1	HP18-ES1
Type	HP18-H160-B1	HP18-ES1,5-B1
Drive / speed	combustion engine	electric / single
Engine power	3,6 kW SAE J1349	1,5 kW
Air output effective	approx. 49.000 m³/h	approx. 38.000 m³/h
Engine / motor	Honda GX160	230V / 50Hz
Tilt angle	+20° / -20°	+35° / -20°
Dimensions (w x h x d)	51 x 55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

## 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 output 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



	SE18-E0
Type	SE18-E0-B1
Drive / speed	electric / single
Engine power	0,75 kW
Air output 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.

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 29 years in sales, development and manufacturing of high performance fans for the fire service results in a new generation of high performance fans Made in Germany. High performance combined with perfect ergonomics and quality have been the target for the new designed fan made by BIG.

**B.S. Belüftungs-GmbH**  
89429 Bachhagel, Germany

+49 (0)9077 95776-0  
[info@big-fire.info](mailto:info@big-fire.info)

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# PRODUCT OVERVIEW BATTERY DRIVEN FANS



## THE NEXT GENERATION **BATTERY DRIVEN FANS**

With its intelligent battery technology, the HP18 iB+ sets new standards in running time and operation of battery-operated fans.

**THE FIRST BATTERY DRIVEN FAN THAT ELIMINATES THE NEED TO REPLACE BATTERIES DURING OPERATION OR TO SET UP A POWER LINE!**

**85 MIN. RUNNING TIME!**



## ENGINEERED FOR THE FIRE SERVICE **INTELLIGENT 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 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



## IMMEDIATE READY FOR USE

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 sections 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.



### HP18 iB+

Type	HP18-iB+-B1
Air output (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°
Dimensions (w x h x d)	51 x 52,5 x 28,5 cm
Weight	22,6 kg



EST. 1991

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# FOAM GENERATOR SYSTEM FOAM GENERATION DIRECT AT THE LOCATION OF THE FIRE

## FLEXIFOAM



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 extinguishing agent 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.

## SELF-SUFFICIENT FLOODING FAST EXTINGUISHING



The FlexiFoam is connected to a high-performance fan or a Mobile Grand Ventilator with ventilation hoses. The connection is made via a suitable 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 middle foam is created to cover large areas. With a high air supply, a large-volume light-weight foam is produced that can fill entire rooms up to the ceiling in a very short time.



	<b>M-L 2</b>	<b>M-L 4</b>	<b>M-L 4/8</b>
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.



# MOBILE GRAND VENTILATORS **MGV L80 II**



# THE COMPACT LARGE STRUCTURE FAN FOR TACTICAL VENTILATION OF FIRE SCENES



A real all-rounder. The MGV® L80 II offers the necessary performance for an effective ventilation of large structures like underground parking, schools, department stores, warehouses or workshops and is at the same time light-weight and compact.

**WE HAVE MORE THAN 29 YEARS OF EXPERIENCE IN THE VENTILATION  
OF FIRE SCENES!**



## SAFETY AND SAVING HUMAN LIVES

Our Mobile Grand Ventilators ensure immediately better visibility and lower temperatures inside the burning object. Rescue and fire fighting operations can be handled quicker and safer. Effective ventilation clears the area in front of the fire from smoke and heat, thus increasing the chance for survival for trapped persons. In an emergency, the security squad can approach significantly faster.



**WHEN IT WAS LAUNCHED IN 2010, THE MOBILE GRAND VENTILATOR L80 DEFINED A NEW CLASS AND CLOSED THE GAP BETWEEN LARGE MOBILE GRAND VENTILATORS AND PORTABLE HIGH-PERFORMANCE FANS.**

The MGV L80 II has been completely reengineered. Especially the new toothed belt drive of the MGV L80 II B with a combustion engine ensures an improved intake air flow. The optimized aerodynamics result in an even higher performance compared to the previous model. All L80 II have an electrical tilt-device with a tilt range that is unrivaled in this class to adjust the ventilator perfectly to the constructional conditions of the entrance opening, especially for the ventilation of basements and underground garages.

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.

With the optional water mist system it is possible to cool down objects and hold down toxic gases. The fine water mist and the optimal dispersion of the water in the air stream creates an excellent heat absorption capacity.

## DIRECTED VENTILATION AND LESS DAMAGE

Positive pressure ventilation is not always possible due to the building structure or tactically not reasonable, if the smoke spread can't be controlled. The ventilation hose system allows to extract big amounts of polluted air and cooled down smoke and gases out of enclosed areas, even over a long distance. It offers also the potential for well-directed ventilation. Controlled ventilation helps to avoid smoke and heat damage. Downtime of production in case of a fire in a manufacturing plant or assembly building can be clearly reduced.







The toothed belt drive of the MGV® L80 II B and the high-quality motors of the Honda GX series enable maximum reliability and exceptional performance. In addition to the improved air flow to the propeller, the drive concept also optimized the size of the special GRP adapter for suction performance unmatched in this class. Despite its small dimensions, the L80 II B offers

the performance for effective ventilation of large objects such as underground parking, schools, warehouses and workshops. It can be optimally adjusted to the constructional conditions of the entrance opening with its electrical tilt-device. The L80 II B is easily handled and fast in operation either with the compact one-axle trailer or the pushcart.



- POWERFUL
- EXTREME COMPACT
- MULTIFUNCTIONAL
- FOR EVERY FIRE SERVICE

<b>L80 II B</b>	
Max. air output effective	220.000 m³/h
Air output nominal	70.000 m³/h
Axial thrust	approx. 950 N
Max. air speed	38 m/s
Engine	Honda GX 690, 2-cyl.-4-stroke engine, air cooled
Engine power	16,5 kW
Propeller	fiber-glass reinforced polyamide
Drive mechanism	toothed belt
Shroud	fiber-glass reinforced plastics, clam-shell design
Operation	control panel
<b>Water Mist System</b>	<input type="checkbox"/>
Nozzles	8 pcs. stainless steel ring
Water output	170 l/min (7 bar)
<b>Ventilation Hose System</b>	<input type="checkbox"/>
Air output extraction mode	20.000 m³/h
Diameter ventilation hose	600 mm
Adapter	1 pcs. GRP incl. 2 m hose
Mounting	intake side
Length	14 m [standard], upgradeable

■ = Equipped as standard    □ = Optional

## 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 electrical	□
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	□
Material box	□
Support devices	■
LED working lights	□
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 electrical	□
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 connection MagCode 12V	■
LED working lights	□
Integrated battery charger	□

**EASY HANDLING,  
COMPACT STORAGE**





The MGV® L80 II E is driven by powerful electric motors. The variable airflow is regulated by an intuitive control panel and can be adjusted 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 high quality industrial electric motor is 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. The L80 II E is available with two different powerful electric drives.



- UP TO 195.000 m³/h
- NO EXHAUST FUMES
- UP TO 80% LESS NOISE
- LOW-MAINTENANCE

	L80 II E11	L80 II E16
Max. air output effective	140.000 m³/h	195.000 m³/h
Air output nominal	50.000 m³/h	70.000 m³/h
Max. air speed	30 m/s	43 m/s
Motor	three-phase motor 400V	
Drive power	11 kW	16 kW
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	
Rpm at max. power	1.700 1/min	2.300 1/min
Shroud	fiber-glass reinforced plastics, clam-shell design	
Operation	control panel with display	
<b>Water Mist System</b>	<input type="checkbox"/>	
Nozzles	8 pcs. stainless steel ring	
Water output	170 l/min (7 bar)	
<b>Ventilation Hose System</b>	<input type="checkbox"/>	
Air output extraction mode	14.000 m³/h	19.000 m³/h
Diameter ventilation hose	600 mm	
Adapter	1 pcs. GRP incl. 2 m hose	
Mounting	intake side	
Length	14 m (standard package), upgradeable	

■ = Equipped as standard    □ = Optional



## L80 II E CITY



Tilt device electrical	■
Tilt angle	-10° / +25°
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	220 kg
Deadman all-wheel brake	■
Four-wheel steering	■
Support device	■
LED working lights	□

Alternatively, the L80 II E 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.

—— EST. 1991 ——

# INNOVATION

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**B.S. Belüftungs-GmbH**  
89429 Bachhagel, Germany

+49 (0)9077 95776-0  
info@big-fire.info

***big-fire.de***



# MOBILE GRAND VENTILATORS **MGV L125 / L105**



# MOBILE GRAND VENTILATORS FOR TACTICAL VENTILATION OF LARGE STRUCTURES



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

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 for a safer operation.

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



## SAFER RESCUE OPERATIONS

Mobile Grand Ventilators realise immediately better visibility and lower temperatures in burning buildings. Rescue operations 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 an emergency, the approach time of the security team is shortened significantly.

## 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 troplets achieve excellent thermal absorption capacity.

## THE POWER OF A MG<sup>V</sup>®

While in theory a couple portable positive pressure fans equals a greater cumulative air output number than a Mobile Grand Ventilator, this does not mean these fans will be able to ventilate a large scale structure in case of a fire. Large structure ventilation requires overcoming incredibly resilient back pressures, something only a MG<sup>V</sup>® can achieve.

The common power rating of positive pressure fans includes besides the nominal airflow also the entrained air – due to the air-stream – which could be a multiple amount of the nominal airflow. Because of the size and the power of a MG<sup>V</sup>® there is no comparable test standard. To compare the air flow we indicate for a MG<sup>V</sup>® the nominal airflow and additionally the maximum effective airflow, the amount of air which could be totally moved in a road tunnel.

Photo: Tinkhauser



## LESS DAMAGE

Directed ventilation helps to avoid smoke and heat damage. Downtime of production in case of a fire in a manufacturing plant or assembly building can be clearly 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, polluted air and cooled smoke and gases can be extracted out of enclosed areas and over long distances. It is also possible to ventilate areas well-directed by injecting fresh air through the hose line and push out the polluted air through the entrance opening.

# MGV® L125



## POWERFUL AND LIGHT-WEIGHT

The MGV® L125 is extremely powerful and allows an effective ventilation of large industrial facilities, underground parking, high-rise buildings, airports, shopping centres or miles long tunnels – in tests at traffic tunnels, an air output up to 900.000 m³/h can be measured. It is the ideal partner for every fire service who has to deal with fires or dangerous incidents in large structures. 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 high strength. The light-weight design allows to mount the fan on a one-axle trailer with a gross vehicle weight of 750 kg. The MGV® L125 is the most powerful large fan in this class.

## RELIABLE AND PROVEN

The L125 is driven by a toothed belt and a 4-cylinder four-stroke in-line engine. The toothed belt enables the optimal speed for the motor and impeller. In addition, the deep-seated motor ensures a better flow of air to the propeller. The well-engineered, proven car engines make it powerful and reliable at the same time.

## OPTIMAL FAN ADJUSTMENT

The hydraulic lift-rotation-tilt-device enables to adjust the fan perfectly even under unfavorable constructional condition. The quick positioning of the fan means that obstacles such as walls and hedges can be easily overcome; there is no need for complex maneuvering.

**UP TO 900.000 M³/H**  
**3.000 N THRUST**  
**USED WORLDWIDE**





	L125 F3
Max. air output effective	900.000 m³/h
Air output nominal	210.000 m³/h
Axial thrust	approx. 3.000 N
Max. air speed	46 m/s
Engine	Ford, 4-cyl. -gasoline engine, water cooled
Engine power @ 3.000 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
<b>Water Mist System</b>	○
Nozzles	14 pcs. integrated in the stators
Water output	280 l/min (7 bar)
<b>Ventilation Hose System</b>	○
Air output extraction mode	70.000 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
<b>Smooth Bore Ducting</b>	○
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	○

**EASIEST HANDLING  
BY ONE PERSON**

**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°	± 30°
Rotation angle	± 100°	± 180°
Lift / Tilt operation	12V-hydraulic pump	24V-hydraulic pump
Rotation operation	manual	electric
Control	manual	SPS-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



# MGV® L105



## COMPACT AND POWERFUL

The MGV® L105 is the little brother of the L125 and was specially developed for municipal fire departments. The large mobile fan has sufficient power reserves for the ventilation of underground car parks, production facilities, industrial buildings, hospitals, schools and shopping centers. With the patented adapter for the greatest possible coverage of the suction area, the L105 achieves a very high performance in extraction mode. Driven by a reliable 3-cylinder car engine, it sets new standards in its class with its compact dimensions and low weight. In particular, the low total height of the MGV L105 enables solutions for fire brigades that have to deal with low gateways or overpasses. Mounted on a single-axle trailer - with a total height of less than 2 m - access via normal car entrances, e.g. in parking garages, is possible.

## EASY AND VERSATILE

The MGV® L105 can easily be positioned and operated by a single person. In addition to the various single axle trailers with different lift-rotation-tilt devices and a broad variety of options, it can be mounted on a crawler chassis for sites of operation that are difficult to access. The standard remote control with TFT display enables full control in all operational situations and the operator always has all important information at a glance.

**UP TO 600.000 M<sup>3</sup>/H**  
**TOTAL HEIGHT LESS THAN 2 M**  
**CRAWLER • LED LIGHTS**





	L105 PI
Max. air output effective	600.000 m³/h
Air output nominal	145.000 m³/h
Axial thrust	approx. 2.000 N
Max. air speed	50 m/s
Engine	Peugeot, 3-cyl.-gasoline engine, water cooled
Engine power / Torque	55 kW / 130 Nm
Propeller	Fiber-glass reinforced polyamide, 8 blades
Drive mechanism	Toothed belt (maintenance free)
Shroud	GRP, double-shell design
Operation	Remote control with TFT-display and 5 m cable
<b>Water Mist System</b>	○
Nozzles	10 pcs. integrated in the stators
Water output	200 l/min (7 bar)
<b>Ventilation Hose System</b>	○
Air output extraction mode	35.000 m³/h
Diameter ventilation hose	800 mm
Adapter	1 pcs. GRP incl. 3 m hose
Mounting	Pressure or intake side
Length	1 x 15 m ((standard package), upgradeable
<b>Smooth Bore Ducting</b>	○
Diameter ducting	1.165 mm
Mounting	Pressure side
Length	100 m



**L105 SPEED**

The Mobile Grand Ventilator L105 Speed is very light-weight, compact and extremely flexible. The in-house developed single-axle trailer offers a very low overall height with the innovative integrated tilting device, is extremely robust and durable.

With the handlebars, it is very easy to position by one person. Even with all available options including the loaded ventilation hose system, it features a gross vehicle weight of only 750 kg. The MGV® L105 Speed offers the highest flexibility in this class.



<b>Tilt device</b>	<input type="checkbox"/>
Tilt angle	+25° / -20°
Operation	hydraulic w. hand pump
Dimensions (l x w)	3.400 - 4.000 x 1.850 mm
Height	1.900 - 2.200 mm
Gross vehicle weight	750 kg
Height adjustable drawbar	<input type="radio"/>
Material box incl. tool kit	<input checked="" type="checkbox"/>
Support devices (2)	<input checked="" type="checkbox"/>
Handles	<input checked="" type="checkbox"/>
LED working lights	<input type="radio"/>
Integrated battery charger	<input type="radio"/>
Rack for ventilation hose system	<input type="radio"/>

**EXTREMELY COMPACT,  
HIGH FLEXIBILITY**



## L105 OFFROAD

The crawler allows positioning of the L105 Offroad even in difficult locations without any problems. Rough terrain, railroad tracks or stairs are no barriers any longer. The crawler is driven by a separate combustion engine. Due to its excellent maneuverability and handling by the steering rod, hand throttle and hand break the L105 Offroad can easily be operated by a single person. The L105 Offroad with its integrated stainless steel fuel tank is a high-performance and self-sufficient large scale ventilator for toughest operation conditions.

Dimensions (l x w) Handlebar folded up	2.300 x 1.400 mm
Height	1.930 mm
Weight	750 kg
Engine crawler	Honda GX 270 (6,3 kW)
Max. speed crawler*	9 km/h
Material box incl. tool kit	■
Support device	■
Charging connection MagCode 12V	■
LED working lights	○
Integrated battery charger	○

\*no official approval for road service



## L105 ACTION

The single-axle trailer with a lift-rotation-tilt device offers space for flexible body solutions, additional equipment and extensive options: from an increased lift height of 1.2 m, a height-adjustable drawbar up to a wide range of LED working lights to illuminate the scene of operation. The L105 Action has four supports and a large stainless steel tank for an extended runtime as standard.

	Action S	Action M
Lift height	0,6 m	0,6 m
Tilt angle	± 20°	± 20°
Rotation angle	± 100°	± 100°
Operation	hydraulic with foot pump	
Platform (l x w)	2.600 x 1.560 mm	3.100 x 1.560 mm
Dimensions (l x w)	4.000 - 4.250 x 2.070 mm	4.600 - 4.850 x 2.070 mm
Height	max. 2.350 mm	max. 2.350 mm
Weight	700 - 1.250 kg	1.000 - 1.350 kg
Gross vehicle weight	1.350 kg	1.600 kg
Stainless steel tank 75 l	■	■
Support devices (4)	■	■
Height adjustable drawbar	○	■
Extended lift height 1,2 m	○	○
LED working lights	○	○
Integrated battery charger	○	○
Equipment rack	--	■

additional options / accessories available



■ = Equipped as standard ○ = Optional

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 29 years in sales, development and manufacturing of high performance fans for the fire service results in the constant redevelopment of our Mobile Grand Ventilators Made in Germany. High performance combined with perfect ergonomics and quality are the objectives for the engineering made by BIG.

**B.S. Belüftungs-GmbH**  
89429 Bachhagel, Germany

+49 (0)9077 95776-0  
[info@big-fire.info](mailto:info@big-fire.info)

***BIG-FIRE.DE***



# PRODUCT OVERVIEW **PORTABLE SMOKE BLOCKER**



*Reick's*  
**SMOKESTOPPER**

# PORTABLE SMOKE BLOCKER

## PREVENTS SMOKE AND HEAT SPREAD



**RSS CAN SAVE LIVES!**

### 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 connect 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 - 115 /  
F 70 PRO**

**F 80 - 140 /  
F 80 PRO**

**F 90 - 150 /  
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.



	<b>S 80 - 140</b>	<b>S 90 - 150</b>
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

**HOSPITALS  
SPECIAL-CARE HOMES  
NURSING HOMES**

EST. 1991

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89429 Bachhagel, Germany

+49 (0)9077 95776-0  
[info@big-fire.info](mailto:info@big-fire.info)

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