

PRODUCT OVERVIEW

FIRE & VENTILATION EQUIPMENT





ENGINEERED BY
FIREFIGHTERS

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01

MOBILE GRAND VENTILATORS FOR VENTILATION OF LARGE STRUCTURES



Foto: Tinkhauser

Tunnel fires may become a disaster, as fires in the past tragically showed. 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!

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

« 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.

« 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.

« EFFECTIVE COOLING

With the water mist system it is possible to cool down objects and hold down toxic gases. The fine water mist has a excellent heat absorption capacity.

THE POWER OF A MGV®:

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 units 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 MGV® 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 MGV® there is no comparable test standard. To compare the air flow we indicate for a MGV® the nominal airflow and additionally the maximum effective airflow, the amount of air which could be totally moved in a road tunnel.



EXTRACT AND DIRECTED VENTILATION



On certain fire operations positive pressure ventilation is not possible, if an exhaust opening doesn't exist or can't be created e.g. a dead-end tunnel. Or positive pressure ventilation is tactically not reasonable, if the smoke spread can't be controlled. Uncontrolled smoke spread in a hospital could endanger the patients. The ventilation hose system (available for all MG^V® models) allows to extract big amounts of polluted air

and cooled down smoke and gases out of enclosed areas, even over a long distance. The ventilation hose system offers also the potential for well-directed ventilation. The hose line is placed directly into the targeted room. The injected fresh air replaces the polluted air and pushes it through the entrance opening to the outside.

OPTIMAL FAN ADJUSTMENT



We offer different lift-rotation-tilt-devices for all MG^V® models to adjust the ventilator perfectly to the constructional conditions. If there are unfavorable situations for positioning at the entrance opening time consuming switching and moving can be avoided by an easy and fast adjusting of the ventilator. Retreat ways and escape routes are kept entirely clear.

Particularly for the ventilation through basement openings, for example cellar rooms or underground railways access, negative tilt (ventilator facing downwards) is obligatory. The lift functionality or the positive tilt (ventilator facing upwards) allow the ventilation through higher placed entrance openings and optimize the outcome of a water mist operation.



FOR EVERY OPERATION
THE RIGHT PARTNER:

CHASSIS



SWAP BODY



TRAILER



CRAWLER / RAIL CART



PUSHCART



Customer demands
are individually
discussed and
realized.



The MGV® S60 is the only large scale ventilator worldwide which features an enormous lifting height, vertical ventilation, endless rotation and ventilation hose systems in two different sizes for extraction and well-directed ventilation. No other large scale ventilator offers that kind of flexibility. Therefore the S60 is a very versatile working tool with enormous potential. It is the ideal Mobile Grand Ventilator for professional Fire Brigades and big industrial companies with various operation situations.

The S60 is extremely powerful. The high-power hydraulic drive is driven by a powerful, reliable Deutz-Diesel engine. Mounted on a chassis the hydraulic-drive could be driven optionally by the power take-off (PTO) of the truck engine.

The S60 can be perfectly adjusted to the ventilation opening at any scene of the operation due to the lift-rotation-tilt-device with an enormous 3 m lift, ± 40° tilt and 360° endless rotation.

With the optional tipping device the ventilator can be pointed vertical up or down for vertical ventilation or extraction for example through emergency exits of underground railways, man holes of sewer systems or cable- and supply tranches.

The ventilation hose systems enable to extract and ventilate well-directed. The system 1400 offers high volume extraction through underground manholes whereas the system 800 offers a manageable size and therefore it can go deep in to buildings even through standard doors.

- ◀ **TOUGH, RELIABLE AND POWERFUL**
- ◀ **HIGH FLEXIBILITY FOR A WIDE RANGE OF OPERATIONS**
- ◀ **VERTICAL VENTILATION**

- UP TO 1,000,000 m³/h
- TIPPING DEVICE
- VENTILATION HOSE SYSTEM
- WATER MIST 300 l/min
- THRUST REVERSER
- 360° ENDLESS ROTATION
- +/- 40° TILT
- 3 M LIFT





	S60 Deutz	S60 PTO
Max. air output effective	1,000,000 m³/h	
Air output nominal	230,000 m³/h	
Axial thrust	approx. 2,600 N	
Max. air speed	35 m/s	
Engine	Deutz, 4-cyl.-Diesel engine, water cooled	chassis power take-off
Engine power / Torque	103 kW / 520 Nm	
Propeller	aluminium, 7 blades	
Drive mechanism	hydraulic	
Shroud	steel	
Remote control (10 m cable)	■	
Thrust reverser	□	
Lift height	3 m	
Tilt angle	± 40°	
Rotation angle	360° endless	
Tipping device (vertical ventilation)	□	
Lowering device for reduced overall height	□	
Lift / Tilt / Tipping	hydraulic	
Rotation	electric powered	
Water Mist System	□	
Nozzles	12 pcs. in stainless steel ring	
Water output	300 l/min (7 bar)	
Ventilation Hose System 1400	□	
Diameter ventilation hose	1400 mm	
Adapter	1 pcs. steel zinc-plated	
Mounting	intake side	
Length	2 x 4 m (standard package), upgradeable	
Ventilation Hose System 800	□	
Diameter ventilation hose	800 mm	
Adapter	2 pcs. GRP incl. 3 m hose	
Mounting	intake side	
Length	2 x 15 m (standard package), upgradeable	

additional options / accessories available





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 1.000.000 m³/h had been measured. This ventilator with its powerful, reliable car engine is the ideal partner for every fire service who has to deal with fires or dangerous incidents in large structures.

◀ POWERFUL AND LIGHT-WEIGHT

The specially designed propeller blades are made of carbon fiber reinforced plastics and allow a higher speed of the propeller for maximal air output. The aerodynamic, clam-shell designed shroud is made with glass fiber reinforced plastics. The light-weight design allows to mount the unit on a one-axle trailer with 750 kg gross vehicle weight. The MGV® L125 is the most powerful large scale ventilator in this weight class.

◀ WELL-ENGINEERED ENGINE

The L125 is driven by a toothed belt and a 4-cylinder in-line engine. Well-engineered car engines (gasoline or Diesel), manufactured in millions for highest reliability and low maintenance.

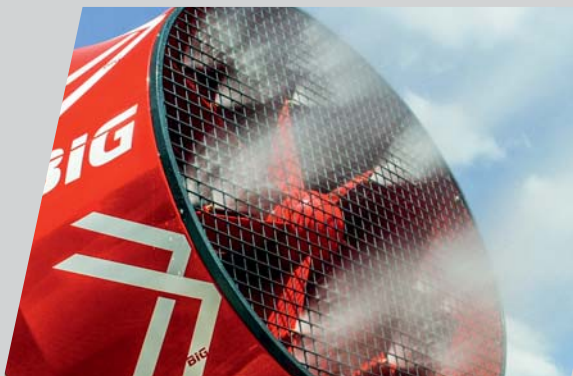
◀ OPTIMAL FAN ADJUSTMENT

With the hydraulic lift-rotation-tilt-device it is possible to adjust the ventilator perfectly to the constructional conditions at scene of the operation, even if there are unfavourable situations for positioning at the entrance opening. No blocking of escape routes and the fast and easy adjustment saves valuable time.

- UP TO 1,000,000 m³/h
- 3,000 N THRUST
- EASY HANDLING
- TFT-DISPLAY
- WATER MIST 80 m
- 360° ROTATION
- +/-30° TILT
- 1.3 M LIFT
- LED-TECHNOLOGY
- UP TO 30,000 LUMEN



	L125 FII	L125 FD
Max. air output effective	1,000,000 m³/h	
Air output nominal	220,000 m³/h	
Axial thrust	approx. 3,000 N	
Max. air speed	50 m/s	
Engine	4-cyl.-gasoline engine, water cooled	4-cyl.-Diesel engine, water cooled
Engine power / Torque	90 kW / 160 Nm	80 kW / 230 Nm
Propeller	CFK, 6 blades	
Drive mechanism	toothed belt (maintenance free)	
Shroud	fiber-glass reinforced plastics, clam-shell design	
Operation	remote control with TFT-display and 5 m cable	remote control with 5 m cable
Water Mist System	<input type="checkbox"/>	
Nozzles	14 pcs. integrated in the stators	
Water output	280 l/min (7 bar)	
Ventilation Hose System	<input type="checkbox"/>	
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	
Smooth Bore Ducting	<input type="checkbox"/>	
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	2,250 mm
Weight	650 kg
Gross vehicle weight	750 kg
Height adjustable drawbar	<input type="checkbox"/>
Material box incl. tool kit	■
Support devices (2)	■
Handles	■
LED working lights	<input type="checkbox"/>
Integrated battery charger	<input type="checkbox"/>

**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. 2,650 mm	max. 2,650 mm	max. 2,650 mm
Weight	700 - 1,250 kg	1,000 - 1,350 kg	1,200 - 1,500 kg
Gross vehicle weight	1,350 kg	1,600 kg	1,800 kg
Support devices (4)	■	■	■
Height adjustable drawbar	■	■	■
LED working lights	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Integrated battery charger	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Equipment rack	--	■	<input type="checkbox"/>
Equipment compartment	--	--	■
Light mast	--	--	<input type="checkbox"/>

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	max. 2,150 mm	max. 2,400 mm
Weight MGV®	approx. 650 kg	approx. 900 kg
Stainless steel tank 175 l	<input type="checkbox"/>	<input type="checkbox"/>
LED working lights	<input type="checkbox"/>	<input type="checkbox"/>
Platform f. chassis mount	<input type="checkbox"/>	<input type="checkbox"/>
Chassis	<input type="checkbox"/>	<input type="checkbox"/>
Swap body	<input type="checkbox"/>	<input type="checkbox"/>

additional options / accessories available





The MGV® L105 is the little brother of the L 125 and has been especially designed for purposes of municipal fire departments. It has sufficient power reserves for the ventilation of underground parking areas, production facilities, industrial units, hospitals, schools and shopping centers. In addition to that, the L105 provides

very high suction power by the use of its ventilation hose system and its patented adapter. Driven by a reliable 3-cylinder car engine it sets new standards through its compact dimensions and low weight within its class.

◀ SMALL OVERALL HEIGHT

Especially the low height offers solutions for fire services that have to deal with low gateways or overpasses. Since the MGV® L105 is built on a single axle trailer – with an overall height under 2 m – it is possible to reach sites of operation via normal garage doors.

◀ COMPACT AND VERSATILE

In addition to the various single axle trailers that offer a broad variety of options, the MGV® L105 can be mounted on a crawler for difficultly accessible sites of operation.

◀ SIMPLE HANDLING

The MGV® L105 can easily be positioned and operated by a single person. The standard remote control with a TFT-display allows full control in all operations and the operator always has the necessary information available.

- UP TO 600.000 m³/h
- RELIABLE CAR ENGINE
- VENTILATION HOSE SYSTEM
- 1.2 m LIFT HEIGHT OPTIONAL
- CRAWLER
- TFT-DISPLAY
- WATER MIST 200 l/min
- 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	3-cyl.-gasoline engine, water cooled
Engine power / Torque	55 kW / 130 Nm
Propeller	fiber-glass reinforced polyamide
Drive mechanism	toothed belt (maintenance free)
Shroud	fiber-glass reinforced plastics, clam-shell design
Operation	remote control with TFT-display and 5 m cable
Water Mist System	<input type="checkbox"/>
Nozzles	10 pcs. integrated in the stators
Water output	200 l/min (7 bar)
Ventilation Hose System	<input type="checkbox"/>
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
Smooth Bore Ducting	<input type="checkbox"/>
Diameter ducting	1,165 mm
Mounting	pressure side
Length	100 m



01 / MGV® L105

L105 SPEED



The L 105 Speed is light-weight, compact and extreme flexible. The specifically developed single axle trailer offers a very low overall height, even with the innovatively integrated tilt device. Both handlebars provide very simple handling. Even with all available options

and the stored ventilation hose system, the L 105 Speed features a gross vehicle weight of as little as 750 kg. Thus, the MGV® L105 Speed offers maximum flexibility in its class.



Tilt device	<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
Weight	600 - 700 kg
Gross vehicle weight	750 kg
Height adjustable drawbar	<input type="checkbox"/>
Material box incl. tool kit	■
Support devices (2)	■
Handles	■
LED working lights	<input type="checkbox"/>
Integrated battery charger	<input type="checkbox"/>
Rack for ventilation hose system	<input type="checkbox"/>

**LOW OVERALL HEIGHT,
MAXIMUM 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) Lenkstange hochgeklappt	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	□

additional options / accessories available
* no official approval for road service



L105 ACTION

The one-axle platform trailer with lift-rotation-tilt-device provides space for different mounting versions, additional equipment and extensive options: from an increased lift-device 1.2 m up to multiple LED working light options for the lighting of the scene of operation. The L105 Action is equipped as standard with a height adjustable drawbar, four support devices and a big stainless steel fuel tank for an extended runtime.

	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



The Mobile Grand Ventilator MGV® L95 gives fire services the option to operate a powerful large scale ventilator in areas that are difficult to access for example only over stairs or narrow paths. The compact dimensions allow the mounting on a crawler or a

pushcart – optional with a demountable ventilation unit on a carrying frame. The L95 is the ideal MGV® for Fire Services who require a high power ventilator combined with extreme handiness or off-road mobility.



- UP TO 350.000 m³/h
- COMPACT DIMENSIONS
- CRAWLER OR PUSH CART
- PORTABLE

L95/100BMW

Max. air output effective	350,000 m ³ /h
Air output nominal	125,000 m ³ /h
Axial thrust	approx. 2,000 N
Max. air speed	50 m/s
Engine	BMW, 2-cyl.-gasoline engine, air cooled
Engine power / Torque	77 kW / 116 Nm
Propeller	fiber-glass reinforced polyamide
Drive mechanism	intermediate transmission
Shroud	fiber-glass reinforced plastics, clam-shell design
Operation	remote control with 5 m cable
Water Mist System	<input type="checkbox"/>
Nozzles	14 pcs. integrated in the stators
Water output	280 l/min (7 bar)
Ventilation Hose System	<input type="checkbox"/>
Air output extraction mode	23,000 m ³ /h
Diameter ventilation hose	600 mm
Adapter	1 pcs. GRP incl. 2 m hose
Mounting	intake side
Length	14 m (standard package), upgradeable

L95 OFFROAD

Even on sites that are difficult to access the Mobile Grand Ventilator MGV® L95 Offroad can be easily positioned. Besides rough terrain the crawler crosses railway tracks or embankments and climbs stairs without any difficulty.

The crawler is driven by a separate combustion engine. Due to an excellent maneuverability, an easy handling with the steering rod, the hand throttle and the hand brake, one person can effortlessly operate and position the L95 Offroad.

The integrated 56 l stainless steel fuel tank allows three hours of operation at full power. The optional LED working lights illuminate brightly the scene of operation.

Dimensions (l x w) Steering rod folded up	2,200 x 1,250 mm
Height	1,800 mm
Weight	630 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
additional options / accessories available



L95 CITY

The L95 City offers highest flexibility for all operational situations. One person can effortlessly place the MGV® with the pushcart. It is very easy to adjust the ventilator perfectly with the optional tilt device. For a safe use the pushcart features a strong drum brake operated by a deadman handle and a hand brake lever for additional safety at full power. With the carrying frame (4 firefighters) the L95 City can be taken off the pushcart and placed in front of openings regardless from roads or driveways or it can be operated on a rail cart.

Dimensions (l x w)	1,950 x 1,250 mm
Height	1,900 mm
Weight	400 kg
Deadman brake	■
Hand brake for operation	■
Material box incl. tool kit	■
Charging connection MagCode 12V	■
LED working lights	□
Integrated battery charger	□
Tilt device	□
Tilt angle	±15°
Operation	hydraulic with hand pump
Carrying frame (Ventilator demountable)	□
Weight (without tank)	195 kg
Support frame for operation	□
Mounting frame for rail cart	□

additional options / accessories available



01 / MGV® L80



A real all-rounder. The MGV® L80 closes the gap between MGVs® and the positive pressure fans. It offers the necessary power 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. Mounted on a compact one-axle trailer or a pushcart it is easily handled and fast in operation. Due to the low weight the L80 on a carrying frame can be placed in front of openings regardless from roads or driveways.



- UP TO 200.000 m³/h
- EXTREME LIGHT-WEIGHT
- PORTABLE
- FOR EVERY FIRE SERVICE

L80 B16

Max. air output effective	200,000 m ³ /h
Air output nominal	70,000 m ³ /h
Axial thrust	approx. 900 N
Max. air speed	38 m/s
Engine	Briggs & Stratton Vanguard, 2-cyl.-4-stroke engine, air cooled
Engine power	16 kW
Propeller	fiber-glass reinforced polyamide
Drive mechanism	multi-rib belt
Shroud	fiber-glass reinforced plastics, clam-shell design
Operation	control panel
Remote control w. 5 m cable	<input type="checkbox"/>
Water Mist System	<input type="checkbox"/>
Nozzles	8 pcs. stainless steel ring
Water output	170 l/min (7 bar)
Ventilation Hose System	<input type="checkbox"/>
Air output extraction mode	20,000 m ³ /h
Diameter ventilation hose	600 mm
Adapter	1 pcs. GRP incl. 2 m hose
Mounting	intake side
Length	14 m (standard package), upgradeable

L80 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 the L80 B City can be easily positioned and operated by one person. The optional tilt-device and the carrying frame increase the flexibility for different operational situations.



Dimensions (l x w)	1,250 x 1,050 mm
Height	1,500 - 1,850 mm
Weight	200 - 275 kg
Deadman all-wheel brake	■
Four-wheel steering	■
Charging connection MagCode 12V	<input type="checkbox"/>
LED working lights	<input type="checkbox"/>
Integrated battery charger	<input type="checkbox"/>
Tilt device	<input type="checkbox"/>
Tilt angle	+15° / -10°
Operation	hydraulic with hand pump
Carrying frame (Ventilator demountable)	<input type="checkbox"/>
Weight (ready for operation) incl. carrying frame	145 kg

EASY HANDLING,
COMPACT STORAGE

L80 B SPEED

The one-axle platform trailer with optional tilt- and/or rotation-device offers space for additional equipment and several options: from the ventilation hose system, LED working lights for a powerful scene lighting, height adjustable drawbar up to the storage of an additional portable positive pressure fan.



Tilt device	<input type="checkbox"/>
Tilt angle	+18° / -10°
Operation	hydraulic with hand pump
Rotation device	<input type="checkbox"/>
Rotation angle	± 100°
Dimensions (l x w)	3,400 x 1,770 mm
Height	1,700 - 2,050 mm
Weight	350 - 450 kg
Gross vehicle weight	750 kg
Carrying frame incl. outriggers (Ventilator demountable)	<input type="checkbox"/>
Height adjustable drawbar	<input type="checkbox"/>
Material box	<input type="checkbox"/>
Support devices	■
LED working lights	<input type="checkbox"/>
Integrated battery charger	<input type="checkbox"/>
Equipment rack for ventilation hose system	<input type="checkbox"/>

additional options / accessories available



The MGV® L80 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 E is reduced essentially – up to 80%. The frequency controlled electric drive meets the updated electromagnetic compatibility guidelines (EMC). Because of the

absence of exhaust fumes the MGV® L80 E 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 (11 kW respectively 16 kW) than the nominal power of the motor.



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

	L80 E11	L80 E16
Max. air output effective	140,000 m ³ /h	195,000 m ³ /h
Air output nominal	50,000 m ³ /h	70,000 m ³ /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	
Water Mist System	<input type="checkbox"/>	
Nozzles	8 pcs. stainless steel ring	
Water output	170 l/min (7 bar)	
Ventilation Hose System	<input type="checkbox"/>	
Air output extraction mode	14,000 m ³ /h	19,000 m ³ /h
Diameter ventilation hose	600 mm	
Adapter	1 pcs. GRP incl. 2 m hose	
Mounting	intake side	
Length	14 m (standard package), upgradeable	

L80 E CITY



	L80 E11	L80 E16
Dimensions (l x w x h)	1,200 x 1.050 x 1,650 mm	
Weight	220 kg	270 kg
Deadman all-wheel brake		■
LED working lights		□
Tilt device		■
Tilt angle	-10° / +25°	
Operation	electric	

The pushcart has 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 E CITY Q



	L80 E11
Dimensions (l x w x h)	1,200 x 810 x 1,650 mm
Weight	220 kg
Deadman all-wheel brake	■
Four-wheel steering	■
LED working lights	□
Tilt device	■
Tilt angle	+25° / -10°
Operation	electric

Alternatively, the L80 E can be positioned sideways on a pushcart in order to be lorried 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, mobile smoke stoppers and the foam generating system FlexiFoam.

FOAM GENERATOR SYSTEM

FOAM GENERATION DIRECT AT THE LOCATION OF THE FIRE



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

The foam generation takes place directly at the location of the fire. Compared to conventional foam generators, there is no inefficient and self-destructive transport of ready foam to the fire area. In addition the FlexiFoam can operate directly in areas filled with smoke. The system is not using the ambient air, clean air for the foam generation is feeded through ducts by the fan. Smoke will not affect the foam quality.

Once placed at the scene of fire there is no more personnel in the dangerous area needed for operation. Even when the FlexiFoam is completely covered with foam it produces continuously foam and protects itself from the fire.

MEDIUM AND HIGH EXPANSION FOAM FROM A TURNABLE 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 smoke-filled areas and flood the scene of fire directly from above.

- ◀ SELF-SUFFICIENT FLOODING OF AREAS
- ◀ FAST AND EASY IN OPERATION
- ◀ EXTINGUISHES FIRE FAST AND POWERFULLY

The FlexiFoam is connected with ventilation hoses (Ø 500 mm) to the fan. The adaption to the fan is done by a suitable duct reducer. The ventilation hoses are available in two temperature resistance classes. The grey spiral coiled hoses are temperature resistant up to 180°C and due to the inside cooling with fresh air allow the operation near the scene of the fire. The water foam-

agent mixture is supplied through standard fire hoses and existing premix systems.

CONTINUOUS ADJUSTABLE EXPANSION RATIO

The air output of the fan can be controlled by the engine / motor speed and thus the expansion ratio can be adjusted continuously.



	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 m ³ /min	30 – 120 m ³ /min	30 – 160 m ³ /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
Accessory kit	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Standard accessory kit includes: 1 x 5 m ventilation hose Ø 500mm grey resistant up to 180°C, 1 x 5 m ventilation hose Ø 500mm yellow 80°C, 1 x hose reducer fitting the power blower and 2 coupling bands. To extend the system additional hoses in 5 m and 10 m length are available.

- UNDERGROUND
- BASEMENTS
- WAREHOUSES
- WASTE BUNKERS
- SILOS
- TANK FARMS
- TYRE STORAGE
- WASTE SITES



PORTABLE SMOKE BLOCKER PREVENTS SMOKE AND HEAT SPREAD



With the easily operated tension lever the portable smoke blocker made out of heat resistant fabric can be installed quickly into a door or entrance opening. The door to the affected area can be opened now and the fire fighters can enter the room behind for their operations without the spread of smoke and heat in the building. Escape routes for the residents and retreat ways for the fire fighters stay smoke-free.

It is possible for the security backup to stay close to the attacking fire fighters. The time for the rescue operation in case of a breathing protection emergency is considerably reduced. Dangerous situations through smoke and heat spread are effectively minimized or avoided. The portable smoke blocker allows controlling the inflow of air to the area of fire for directed and controlled ventilation. Smoke damages can clearly be reduced.

- ⌂ KEEPS ESCAPE ROUTES SMOKE-FREE
- ⌂ MORE SAFETY FOR FIRE FIGHTERS
- ⌂ EASY AND FAST INSTALLATION

RSS FIRE SERVICE

For the safe storage of the portable smoke blocker on fire trucks the model F for the Fire Service has additional leather reinforcements sewed to the fabric. The red carrying bag has also a shoulder strap. Bags with loops and straps are optional available to connect the smoke blocker to a hose basket.

	F 70-115	F 80-140	F 90-150
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

By using the optional coupler set, two portable smoke blockers can be connected and installed in wider passages or double winged doors up to 3 m width.



RSS SELF-HELP

Smoke filled hallways and staircases affect the orientation and already the inhalation of small amounts of smoke gases can lead to immediate unconsciousness.

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

The portable smoke blocker prevents smoke and heat spread in not affected areas of burning buildings. The installed smoke blocker also marks the entrance to the

area of fire. As a result the staff doesn't open the door to the burning room by mistake and endangers themselves and others by releasing smoke gases. The portable smoke blocker keeps the escape routes for residents and patients smoke free, for a safe and fast evacuation.

The model S for Self-Help is specially adapted for the requirements in hospitals, nursing homes and special-care homes. It can easily be installed into a door or an entrance opening and is available in two different sizes.

	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

- HOSPITALS
- SPECIAL-CARE HOMES
- NURSING HOMES



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INNOVATION

MADE IN GERMANY

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