

# 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 28 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.



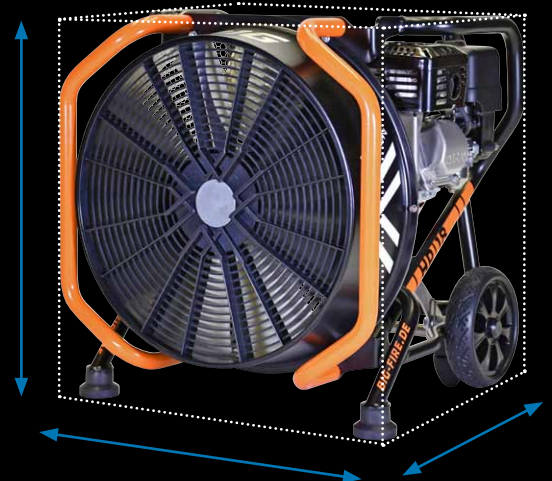
**REGARDLESS OF THE TACTICAL APPROACH OR THE VENTILATION PHILOSOPHY, THE HIGH PERFORMANCE FANS HAVE BEEN DEVELOPED WITH THE GOAL OF MASTERING EVERY SITUATION IN THE BEST POSSIBLE WAY.**

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 its compactness, the high performance fan also requires little space in the vehicle. Handling and loading of the vehicle are thereby considerably simplified.



# FANS FOR EVERY OPERATION

## COMBUSTION ENGINE SELF-SUFFICIENT AND POWERFUL

High performance fans with combustion engines offer high air outputs, are quick to use and self-sufficient. There is no need for electric power or water supply to the high performance fan. They are therefore ideal as a first attack tool.

The optimally positioned rubber feet ensure optimum stability at all surface conditions. Only proven combustion engines of the Honda GX series are used and ensure a reliable operation.



## 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 electric drives comply with EMC regulations and ensure safe use with generators. The integrated net filter also allows operation in the public power grid.



# EXCELLENT ERGONOMICS, EFFECTIVE VENTILATION



The ergonomic handle allows easier transport for large and small fire fighters.



Tilt range  $-20^{\circ}$  up to  $+35^{\circ}$  for an ideal flow to the ventilation opening. Easy and fast upward and downward tilt with a user-friendly foot pedal.



Versatile, innovative grip options ensure simple unloading from the vehicle and an easy handling.

## 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 from our experienced suppliers and reliable engines are used.



## HP18 BLACK EDITION



	HP18-H2	HP18-ES2	HP18-EV2
Type	HP18-H200-B1	HP18-ES2,2-B1	HP18-EV2,2-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. 55.000 m <sup>3</sup> /h	approx. 45.000 m <sup>3</sup> /h	approx. 45.000 m <sup>3</sup> /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	34 kg

## HP18 BLUE EDITION



	HP18-H1	HP18-ES1	HP18-EV1
Type	HP18-H160-B1	HP18-ES1,5-B1	HP18-EV1,5-B1
Drive / speed	combustion engine	electric / single	electric / variable
Engine power	3,6 kW SAE J1349	1,5 kW	1,5 kW
Air output effective	approx. 48.000 m <sup>3</sup> /h	approx. 38.000 m <sup>3</sup> /h	approx. 38.000 m <sup>3</sup> /h
Engine / motor	Honda GX160	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	29 kg	28 kg	30 kg



# OPTIONS

Due to the optional accessories our high performance fans are even more versatile and flexible.



## 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 water supply takes place via a D-Storz connection. The flow rate is 60 l / min (at 7 bar).



## LED-LIGHT

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



## VENTILATION HOSES

Ventilation hoses for specifically directed airflow and the suction cleaning of cold smoke, contaminated air and fumes are available in lengths of 5 m and 10 m as well as in different versions: antistatic (black, flame retardant), heat resistant up to 180 ° C (gray, flame retardant) and standard (yellow, 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, clean air for the foam generation is feeded through spiral coild 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 28 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.

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