

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 m ³ /h	850.000 m ³ /h
Air output nominal	145.000 m ³ /h	200.000 m ³ /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 m ³ /h	66.000 m ³ /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.

