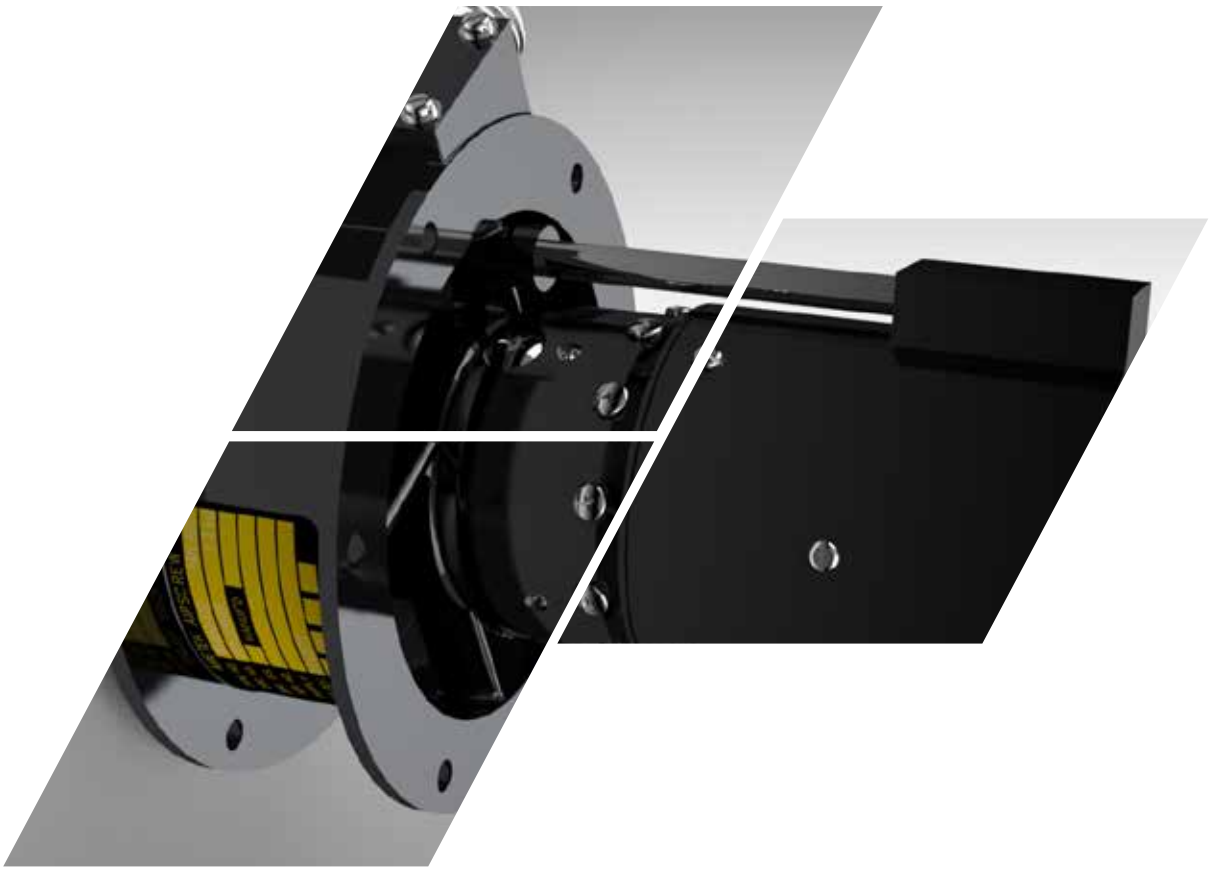
AIRTECHNOLOGY / AMETEK®

SMOKE EXTRACTION FANS



WHEN
EXCEPTIONAL PERFORMANCE
MATTERS

SMOKE EXTRACTION FANS

Description

In today's combat vehicles, it is ever more necessary to ensure that military personnel are not exposed to unnecessary risk to health. Gun smoke is, at the least, a discomfort to personnel in confi ned spaces and may contain toxic elements that can represent a health hazard.
Extraction of gun smoke is quickly achieved using customized fans with high air fl ow characteristics. Airtechnology Group has extensive experience in the design, development and manufacture of compact fans suitable for this purpose and two such fans are depicted in this publication. These fans have been extensively used in the role and are proven, efficient, reliable and revised as necessary over time to meet the latest requirements.

68mm Axial Fan

An inlet guide vane axial fan ideally suited to smoke extraction on turreted armoured vehicles, where high airfl ow resistance is encountered. The 68mm impeller diameter fan is cast in aluminium alloy, resulting in a light but robust construction. The motor is a 28V brushless DC design and is available in several speeds depending on fl ow requirements. The fan can be mounted in any attitude and is designed for panel mounting by a front or back fl ange as shown.



Technical Data

Electrical Supply: 28V DC Nominal

Ambient Temperature Range: -40°C + 80°C

Mounting Attitude: Unrestricted.

Endurance: Greater than 15,000 hrs @ 25°C @ 12,000 rpm

Vibration: Typically DEF STAN 00-35/MIL-STD-810

Acceleration Grade: Typically DEF STAN 00-35/MIL-STD-810

EMC: Typically DEF STAN 59-41 or 411/MIL-STD-810

Sand and Dust: Typically DEF STAN 00-35/MIL-STD-810

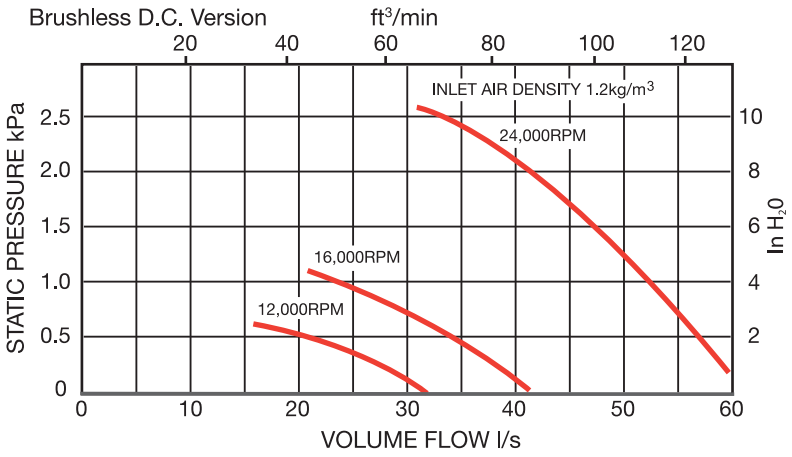
Explosion proof: Totally enclosed motor

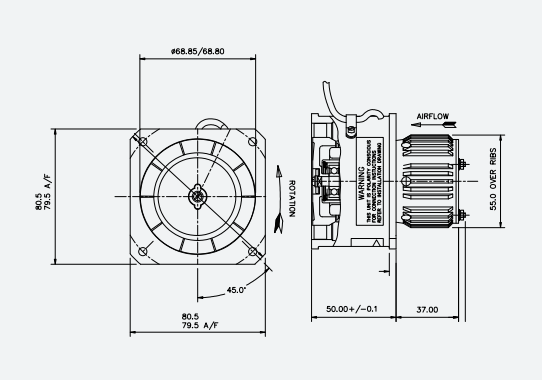
Waterproof: BS 3G 100 pt2 section 3.11 category B

Salt Mist: Typically DEF STAN 00-35/MIL-STD-810

Fireproof: Construction uses non-flammable materials.

Mould Growth: Materials used are not nutrients to fungi.



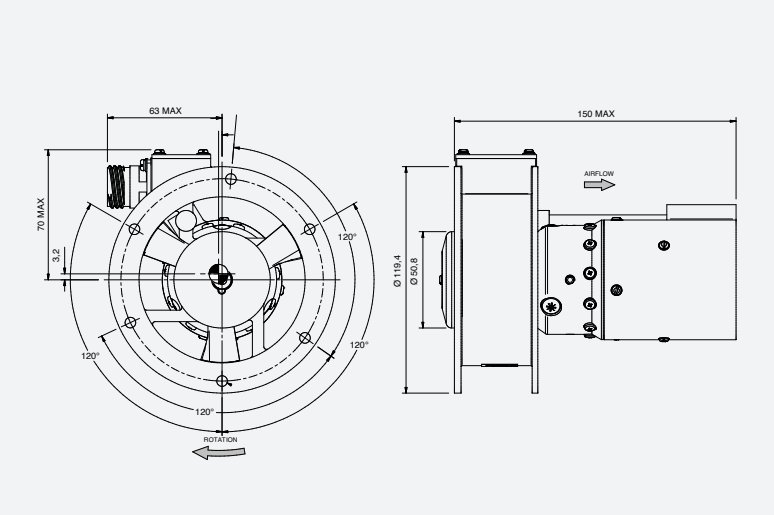


Fan Type	Volts DC	RPM Nom.	Watts Max.	Current Max.	Fixing	Weight
68-AA7-111	28	12000	48	1.70 Amps	Flange	0.9 kg
68-AA7-131	28	14000	67	2.40 Amps	Flange	0.9 kg
68-AA7-141/1	28	16000	91	3.25 Amps	Flange	0.9 kg
68-AA7-122/1	28	24000	246	8.80 Amps	Flange	0.9 kg

90mm Multi speed Fan

A 90mm diameter high flow, medium pressure, axial fl ow fan suited to smoke extraction on turreted armoured vehicles and in vehicle crew compartments. The housing and impeller are cast in aluminium alloy constituting a light but robust construction, an essential characteristic of a defense related product.

This fan is driven by a 28V brushless DC totally enclosed motor incorporating sealed for life bearings and is available in several speeds depending. The fan can be mounted in any attitude with options of front or rear fl ange mount or direct duct mounting.



Technical Data

Electrical Supply: 28V DC Nominal

Ambient Temperature Range: -40°C + 80°C

Mounting Attitude: Unrestricted.

Endurance: Greater than 15,000 hrs @ 25°C @ 12,000 rpm

Vibration: Typically DEF STAN 00-35/MIL-STD-810

Acceleration Grade: Typically DEF STAN 00-35/MIL-STD-810

EMC: Typically DEF STAN 59-41 or 411/MIL-STD-810

Sand and Dust: Typically DEF STAN 00-35/MIL-STD-810

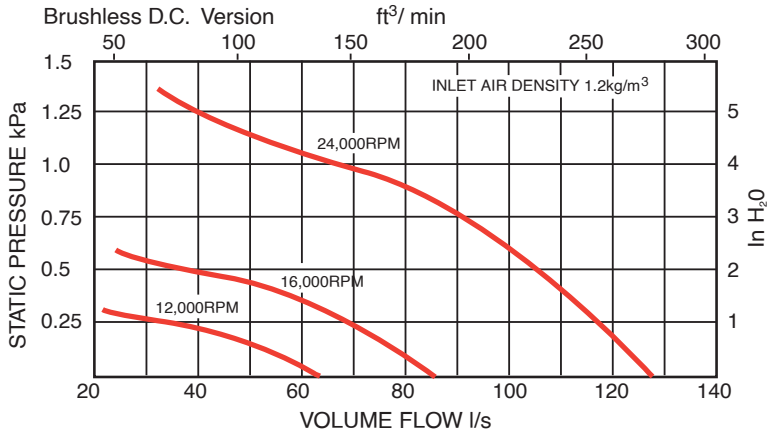
Explosion proof: Totally enclosed motor

Waterproof: BS 3G 100 pt2 section 3.11 category B

Salt Mist: Typically DEF STAN 00-35/MIL-STD-810

Fireproof: Construction uses non-flammable materials.

Mould Growth: Materials used are not nutrients to fungi.





Fan Type	Volts DC	RPM Nom.	Watts Max.	Current Max.	Fixing	Weight
90-AA2-111	28	12000	48	1.70 Amps	Flange or duct	0.8 kg
90-AA2-131	28	14000	67	2.40 Amps	Flange or duct	0.8 kg
90-AA2-141	28	16000	91	3.20 Amps	Flange or duct	0.8 kg
90-AA2-122/1	28	24000	246	8.80 Amps	Flange or duct	0.8 kg

Contact Us

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