Wolf® VF-RV760S/VF-RV760/VF-RV1500 Venturi Systems

IMPA code: 591507

he Wolf VF-RV760S, VF-RV760, and VF-RV1500 Venturi systems are ultra-safe air movers designed for hazardous areas, featuring **no moving parts and no electrical requirements**. Offered by **IST Safety Ltd, the official distributor of Wolf**, these pneumatic systems utilize compressed air or steam to generate high-volume airflow.

By eliminating impellers and motors, the Venturi series completely removes the risk of mechanical failure and sparking, ensuring peak safety in Zone 1/21 environments. Optimized for tank degassing, cooling, or the extraction of toxic fumes, these units provide full resistance to corrosion with galvanized or stainless steel options. Their maintenance-free design makes them the most cost-effective and secure solution for heavy industrial sites.

Usage areas

- **Tank Degassing:** Safe evacuation of explosive vapors in oil and chemical storage tanks.
- **Equipment Cooling:** Cooling machinery operating at high temperatures in refineries and power plants using forced air.
- **Shipbuilding and Repair:** Removing welding fumes and paint vapors in ship holds and ballast tanks.
- **Chemical and Petrochemical:** Continuous fresh air supply in areas where the use of electrical devices is prohibited.

- Pneumatic (compressed air) or saturated steam powered venturi cones
- Designed for safe use in adverse or explosive atmospheres
- Can be used with an optional static grounding cord for additional safety
- Minimal maintenance required – no moving parts
- Cylindrical mixing chamber for higher induction ratios
- Highly reliable performance
- Fixed standard API openings
- Tough and durable anti-static polymer housing

Warranty and Technical Support

- **Warranty:** 2-year manufacturer's warranty.
- **Official Support:** Original spare parts and professional technical service are provided through IST Safety Ltd, the official distributor of Wolf in Turkey.

TECHNICAL DETAILS

PRODUCT REFERENCE	VF-RV760S	VF-RV760	VF-RV1500
MATERIAL	Anti-static, Polyethylene Cone		
DIMENSION(D/H)	13 x 41 cm	20 x 84 cm	30 x 106 cm
WEIGHT	2kg	3kg	9kg
INLET CONNECTION	12.7mm NPT		25.4mm NPT
FLANGE	API 76.2mm, (167mm BC)		API 152.4mm (167mm BC)
40PSIG INLET AIR			
FREE AIR	810 cfm (1,377 m^3/hr)	1,001 cfm (1,702 m^3/hr)	2,740 cfm (4,658 m^3/hr)
AIR CONSUMPTION	22 cfm (37 m^3/hr)		59 cfm (100 m^3/hr)
INDUCTION RATIO	37:1	46:1	47:1

80PSIG INLET AIR			
FREE AIR	1,180 cfm (2006 m^3/hr)	1,439 cfm (2,446 m^3/hr)	3,329 cfm (5,659 m^3/hr))
AIR CONSUMPTION	58 cfm (99 m^3/hr)		124 cfm (211 m^3/hr)
INDUCTION RATIO	20:1	25:1	27:1
AIR CONSUMPTION AND HORSEPOWER REQUIREMENTS FOR AIR COMPRESSOR*			
AIR PRESSURE (PSIG) INLET AIR	80		
AIR CONSUMPTION SCFM (m^3/hr)	58 (99)		124 (211)
Compressor Hp (PS)	9.3 (9.43)		19.8 (20.08)

What is ATEX Lighting?

What is ATEX and what does exproof mean? The **ATEX directive** is a set of European Union standards that define the safety requirements for equipment used in hazardous areas with explosive atmospheres. **Exproof** (Explosion-proof) refers to protection methods designed to prevent explosions by inhibiting the formation of sparks or electrical arcs in environments containing flammable gases, dust, or vapors. To ensure life and property safety in industrial facilities, the use of **ATEX-certified exproof devices** is a legal requirement.

What is ATEX Zone Classification?

ATEX Zone coding is a technical classification based on the frequency and duration of the occurrence of an explosive atmosphere in a given area. While the terms **Zone 0, 1, and 2** are used for risks originating from gas, vapor, and mist; the codes **Zone 20, 21, and 22** are designated for environments containing combustible dust. This classification is a legal standard that determines the required Equipment Protection Level (EPL) for devices. Accurate zone identification both optimizes operational costs and minimizes occupational safety risks.

What is IECEx Certification? How Does it Differ from ATEX?

In addition to ATEX certification, some projects may also require the IECEx Certification System (International Electrotechnical Commission Explosive Atmospheres System) certification. IECEx is an internationally recognized conformity assessment system for equipment intended for use in explosive atmospheres.

While ATEX is a European Union directive and a legal requirement within the European market, IECEx is a globally accepted certification system, widely preferred in regions such as the Middle East, Asia, and Australia.

From a technical perspective, both ATEX and IECEx are based on similar standards (e.g., the EN/IEC 60079 series). However:

- ATEX is a mandatory legal directive, whereas
- IECEx is an international certification system (voluntary, but widely required)

Therefore, while ATEX certification may be sufficient for certain projects, international tenders or critical industries such as oil & gas often prefer or require products that are certified to both ATEX and IECEx standards.

The appropriate certification should be determined based on the project location, client requirements, and application area.