Wolf® VF-UB20xx 20cm Ex-proof Fan



The Wolf VF-UB20XX is a high-performance, compact **ex-proof fan (ventilator/blower)** designed to provide safe air circulation in hazardous locations and confined spaces. Offered by **IST Safety Ltd, the official distributor of Wolf**, this 20 cm (8-inch) diameter unit is one of the most reliable solutions for exhausting toxic or flammable gases accumulated in explosive gas and dust atmospheres.

The device features an antistatic polymer housing that eliminates the risk of static electricity and provides full resistance to corrosion. Certified for Zone 1/21, the VF-UB20XX ensures access to breathable fresh air for personnel, particularly in tank cleaning, underground works, and tunnel constructions, thanks to its lightweight structure and high-pressure airflow capacity. With flexible duct connection options, it can deliver airflow to distant points without loss.

Usage areas

- **Confined Space Works:** Gas evacuation in oil tanks, ship holds, manholes, and sewage lines.
- **Oil & Gas:** Removal of accumulated explosive vapors during maintenance operations in refineries.
- **Marine:** Exhausting paint and welding fumes during shipbuilding and repair processes.
- **Chemical Industry:** Emergency ventilation requirements in reaction towers and hazardous material storage areas.

Certification

- The Ramfan VF-UB20xx is an ATEX certified hazardous area blower.
- ATEX and IECEx certified for use in Zone 1 & 2
- It has a totally enclosed motor.
- Safe for use in potentially explosive atmospheres.
- Complies with the EN60079-0,EN60079-1,EN60079-7 and EN14986 standards.
- Gaz Grupları: IIA, IIB
- EX II 2 G Ex db eb IIB T6 Gb
- EX II 2 G Ex h IIB T6 Gb

Standards

Ex-Proof (ATEX)

IECEx

TECHNICAL DETAILS

FANS/VENTILATORS 20CM FAN/VENTILATOR- Wolf VF-UB20xx 20cm Ex-proof Fan		
PRODUCT REFERENCE	**VF-UB20xx (115V)**	**VF-UB20xx (230V)**
PRODUCT DESCRIPTION	20cm Hazardous Area Fan / Ventilator	
CODE	II 2 G Ex db eb IIB T6 Gb II 2 G Ex h IIB T6 Gb	
TYPE OF PROTECTION	'd' flameproof 'e' increased safety 'h' non-electrical equipment	
AREA OF GLASS(GAS)	Zones 1 and 2, Gas Groups IIA and IIB	
MAX SURFACE TEMP(GAS)	T6	
AMBIENT TEMP.(GAS)	-20°C TO +40°C	
CERTIFICATE	DEMKO 09 ATEX 0926969X IECEx UL 13.0062X	
ENCLOSURE	Anti-static PolycarbonateABS Alloy	
MOTOR	0.33 Hp (0.25kW)	
VOLTAGE	115V 50/60Hz	230V 50/60Hz
AMPS(START/RUN)	7A / 2.3A	7A / 1.2A
AIRFLOW		
Free AIr Through Duct	980 cfm (1,666m^3/hr)	816 cfm (1,386m^3/hr)
15'/4.6m /w one 90° turn:	789 cfm (1,341m^3/hr)	659 cfm (1,120m^3/hr)
15'/4.6m /w two 90° turn:	666 cfm (1,132m^3/hr)	558 cfm (948m^3/hr)
25'/7.6m /w one 90° turn:	722 cfm (1,227m^3/hr)	603 cfm (1,025m^3/hr)
25'/7.6m /w two 90° turn:	614 cfm (1,044m^3/hr)	510 cfm (867m^3/hr)
Ingress Protection	IP55	
DImensIons (h/w/d)	35 x 35 x 39 cm	
Weight	12kg	

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Duct Adapters	2	
Noise	74db @ 1m	

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.