MD-KINNEY EX ATEX SOLUTIONS

BLOWERS AND VACUUM BOOSTERS

MD-Kinney

CERTIFIED PERFORMANCE AND SAFETY FOR CRITICAL SERVICE APPLICATIONS

M-D Pneumatics® positive displacement blowers and Kinney® vacuum boosters are known for their superior quality and ability to perform in the toughest chemical and petrochemical processes. MD-Kinney has combined this experience in demanding applications with the ATEX Directive 2014/34 EU and ISO 80079-34/36/37 standards to deliver an EX certified solution for safety critical applications.

EX ATEX APPLICATIONS

EX ATEX Series heavy duty industrial vacuum boosters are used to "supercharge" vacuum pumps including piston, liquid ring, dry vacuum, and vane pumps. This allows for faster pumping speeds to significantly reduce pump down time and deeper vacuum levels. The booster line has wide applications including process gas handling, petrochemical processing, packing industries, heat transfer, polymer processing, vacuum distillation, freeze drying, and many other industrial applications.

DEFINITIONS

Flammable Gas:

A FLAMMABLE gas by definition is a gas that does NOT have oxygen present sufficient to support combustion.

Explosive Gas:

An EXPLOSIVE gas by definition is a gas that DOES have oxygen present sufficient to support combustion.

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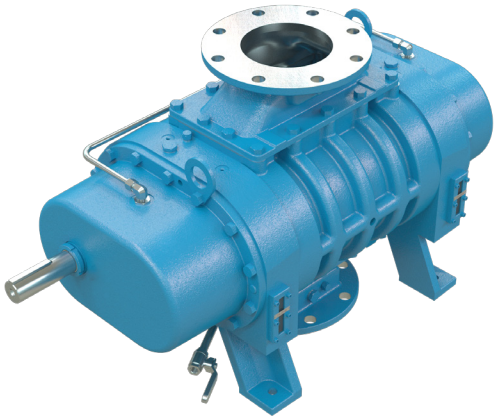
EX ATEX APPLICATIONS (CONTINUED)

EX ATEX Series units are built to standards where virtually complete sealing is required. Vents can have an inert gas purge for positive containment of the process gas. The drive shaft is mechanically sealed, and the oil sumps are plugged to provide an even higher degree of leakage protection. The blower line has wide applications in pneumatic conveying, process gas handling, or elevated pressure applications up to 2.4 bar (35 psig) mawp discharge.

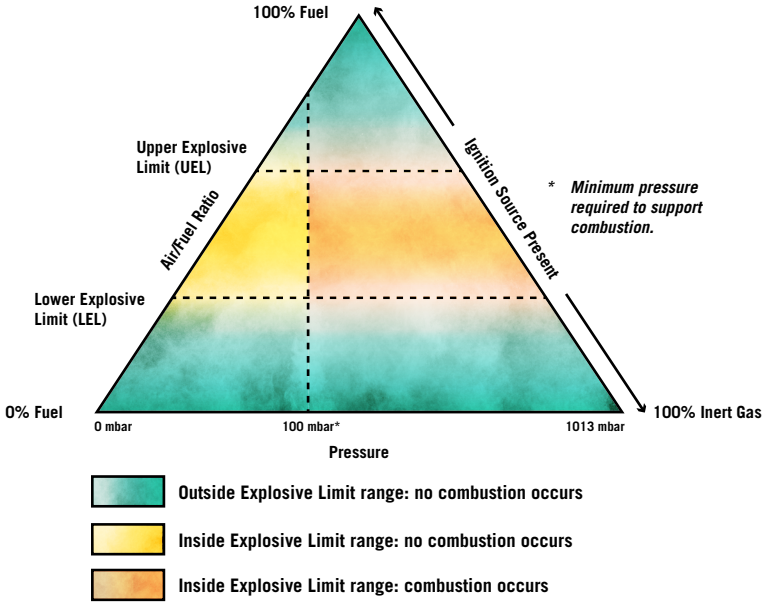


EXPLOSION TRIANGLE 100% COMBUSTIBLE GAS FUEL

The blower or booster is intended to internally handle explosive gas mixtures up to the critical gas combustion pressure to approximately 100 mbar.

This pressure varies by gas type. All product selectionsare required to be evaluated through VBXpert Portal sizing software prior to quotation. For pressures greater than 100 mbar ATEX Internal Classification is not supported.

The unit is not intended to be used in applications that include hazardous and toxic gases that have an NFPA Health Class Rating of 4 or a GHS Health rating of 1.



Internal Classification:

Internal classification – Available for systems with P1 less than 100 mbar and temp classes T3 to T1.

External Classification:

Zone: 1 or 2 | Gas Group: IIA, IIB, or IB+H2
Temp Class: T3, T2, or T1

CONTACT US

For more information, contact your Regional Sales Manager or call us at:

1-800-825-6937

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