

PRODUCT INFORMATION

EXPLOSION VENTING

Q-Box II

U.S. Pat. pending



REMBE®, INC.



Explosion Venting with a Flame Absorber

In-house transport routes, streets or adjacent buildings often present a problem for conventional, open explosion venting.

The Q-Box II reduces flames and heat during explosion venting; allowing easy indoor and outdoor installation and positioning of relevant machinery. Manufacturing equipment of low sturdiness and with large venting area requirements is effectively and cost-efficiently protected from the aftermath of an explosion.

The rectangular shape complements the dimensions of standard Explosion panels, making the protection system suitable for retrofitting existing installations.

This protection system is virtually maintenance-free, reducing operational costs. The Q-Box II is the perfect safety system for indoor equipment, such as elevators. When compared to cost-intensive venting ducts, the Q-Box II is the true economical alternative.



Features

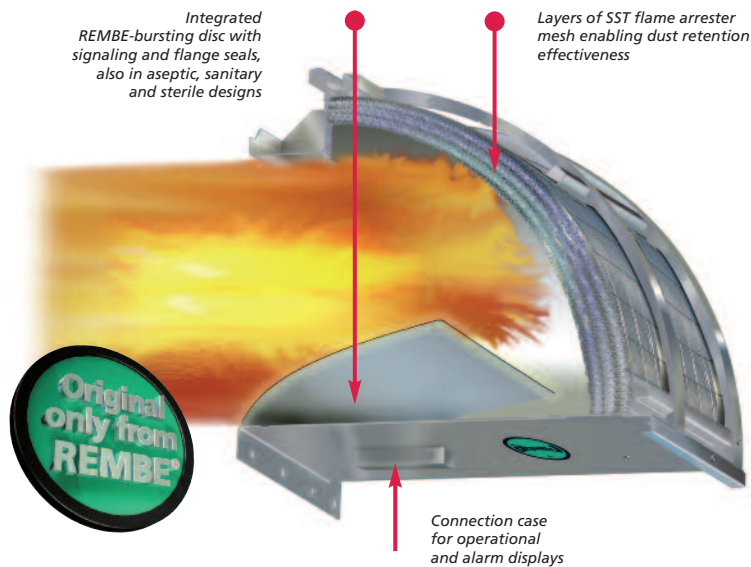
- Standard Sizes: 12 x 24 in, 23 x 36 in (305 x 610 mm, 586 x 920 mm)
- Multilayer stainless steel flame absorber mesh enabling dust retention effectiveness
- Integrated explosion panel with signalling and flange seals
- Electronic operational and alarm displays
- ATEX type-tested and certified
- Explosion panel is also available in aseptic, sanitary and sterile designs*
- Sanitary cover keeps the outside clean*

* optional



Technical Data			
Burst pressure (P_{Stat})		1.45 psi @ 71.6° F / 0.1 bar @ 22° C	
P_{red}		up to 7.25 psi / 0.5 bar	
max. K_{St} -value		up to 2,900 psi / 200 bar x m/s	
Operating temperature		-22° F to 356° F / -30° C to 180° C	
Q-Box II Type		305 x 610 mm 12 x 24 in	586 x 920 mm 23 x 36 in
Height	mm	500	780
	in	19.7	30.7
Weight	kg approx.	28	77
	lbs approx.	62	170

All dimensions are nominal - further sizes on request.



Applications

- Dust explosion endangered facilities, e.g. filters, elevators, cyclones and silos with K_{St} -values < 200 bar x m/s

Your Benefits

- Ideal when retrofitting existing installations
- Indoor/outdoor installations
- Virtually no maintenance

Quality and Certifications

All REMBE® protection systems and devices are EC type-tested and certified in accordance with the ATEX Directive 94/9/EG (ATEX 114). Each production series is manufactured according to normative specifications, e.g. EN 14797 and delivered with an inspection certificate in accordance with DIN-EN 10203-3.1.

Upon request, our engineers are capable of dimensioning your required venting areas in accordance with the VDI-Guidelines 3673, EN 14491, EN 14994, NFPA 68, etc.

We assist you by simulating explosions, calculating the required venting areas for your facility and advising you in reference to correct product selections.



Q-Box II application in the food industry: the sanitary cover protects the exterior of the Q-Box II; keeping it clean from the outside