

# PRODUCT INFORMATION

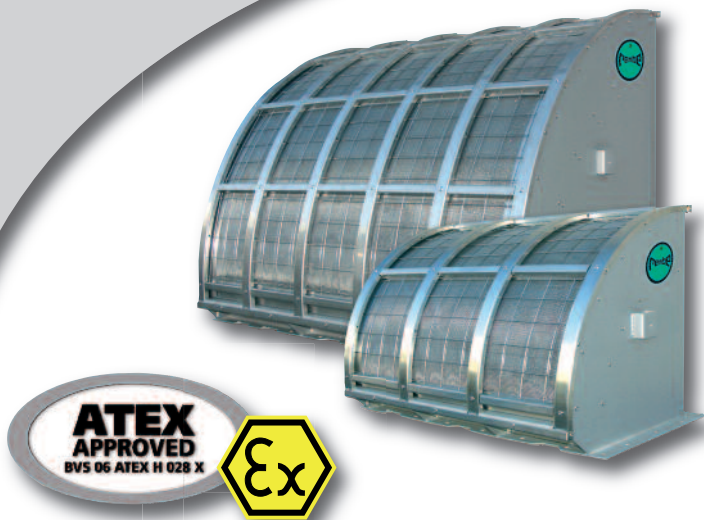
## EXPLOSION VENTING

# Q-Box II

U.S. Pat. pending



**REMBE®** GMBH  
SAFETY+CONTROL



## Explosion Venting with a Flame Absorber

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

The Q-Box II captures 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 cost-effectively protected from the aftermath of an explosion.

The rectangular cross section complements the dimensions of standard bursting panels, making the protection system suitable for retrofitting existing installations. This protection system is maintenance-free, negating operational costs.

The Q-Box II is the perfect safety system for indoor devices, such as elevators, and when compared to cost-intensive venting ducts, the Q-Box II is the true economical alternative.



### Features

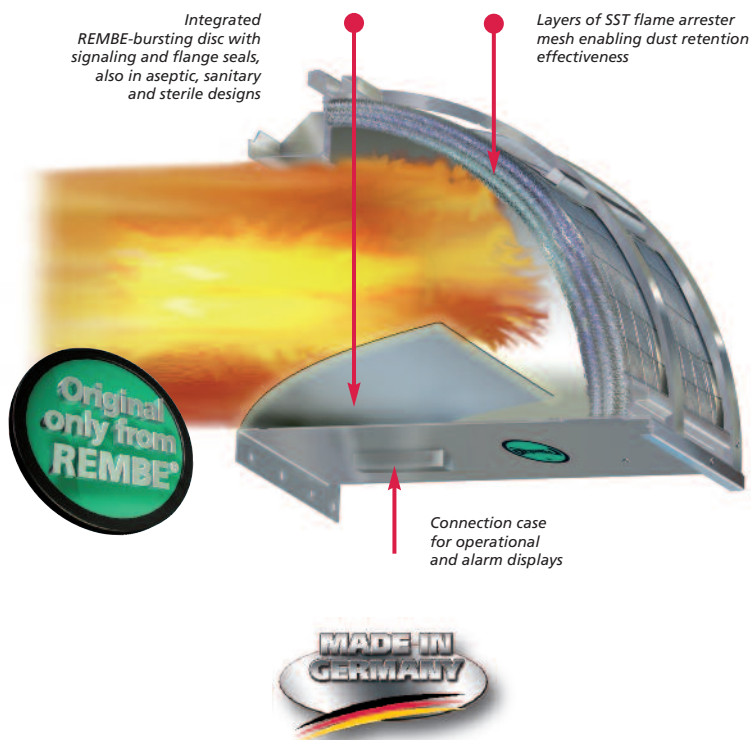
- **Standard Sizes:** 305 x 610 mm and 586 x 920 mm (12 x 24 in and 23 x 36 in)
- Multilayer stainless steel flame absorber mesh enabling dust retention effectiveness
- Integrated bursting panel with signalling and flange seals
- Electronic operational and alarm displays
- ATEX type-tested and certified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

\* optional



Technical Data			
Burst pressure (P <sub>Stat</sub> )		0.1 bar @ 22° C / 1.45 psi @ 71.6° F	
P <sub>red</sub>		up to 0.5 bar / 7.25 psi	
max. K <sub>St</sub> -value		up to 200 bar / 2,900 psi x m/s	
Operating temperature		-30° C + 180° C / -22° F to 356° F	
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.



## 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 calculating your required venting areas in accordance with the VDI-Guidelines 3673, EN 14491, EN 14994, NFPA 68, etc.

We are able to assist you by simulating explosions, calculating the required venting areas for your equipment and recommend correct product selection.

## Applications

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

## Your Benefits

- Ideal when retrofitting existing installations
- Indoor/outdoor deployment
- Minimization of safety zone space in reference to venting ducts = yielding more efficient utilisation of operating space



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