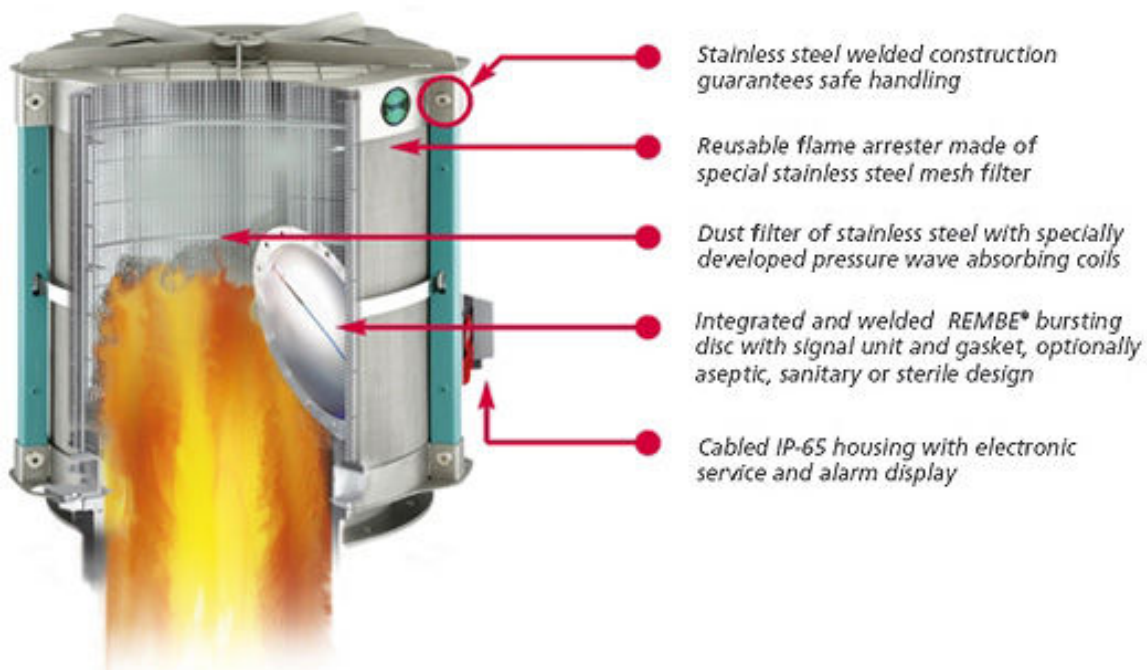


Flameless dust explosion venting

At Powtech (stand 9-353) Rembe GmbH Safety + Control, Brilon, Germany, will be showing its latest developments in the field of explosion protection. The company invented the concept of flameless explosion venting and will be featuring its recently introduced third-generation Q-Rohr[®]-3 flameless dust explosion venting device. A key advantage of this technology is that it is installed indoors, removing the need for cost-intensive installation of venting ducts. Flame gases, occurring during an explosion and capable of reaching temperatures up to 1500°C, are significantly cooled down as the result of an energy transfer taking place in the flame trap. Thus, emergent gas volumes are reduced and the flames extinguished. At the same time an increase of pressure that is typical during an explosion as well as noise pollution are reduced to a barely perceptible level. In connection with explosion decoupling by means of an EXKOP[®] II Electronic and QV II quench valve, an explosion is prevented from propagating to upstream or downstream equipment, allowing the incident to be safely contained.

Rembe stresses that this type of safety equipment installed in explosion-risk areas should always be inspected by a qualified person or authorised inspection agency, before being put into operation and at regular intervals thereafter. www.rembe.de



Q-Rohr-3 flameless dust explosion venting device from Rembe