



Spark Arrestors/ **Pre-Filters**

For high efficiency air filtration systems

Introduction

VOKES Spark Arrestors/Pre-Filters are designed for installation up-stream of absolute filters in applications where there is a risk of fire. Intended to protect absolute filter media from fire damage, they are non-combustible panels which prevent glowing embers and large particles from reaching the absolute filter. There are two types of unit, a spark arrestor which does not perform a filtration function and a combined spark arrestor/pre-filter.

Spark arrestors/pre-filters can be fitted into ductwork using separate frames, directly fitted to an absolute filter using a mounting frame or contained within the pre-filter sections of a Unipak Containment System. Although principally designed for use with high efficiency filters, they can also be used to protect other types of equipment.

Spark Arrestors

VOKES Spark Arrestors are intended to perform the function of a spark trap and not a pre-filter. Fitted up-stream of an absolute filter, they are designed to prevent the passage of sparks and flames, while offering a minimal pressure drop.

Designed to meet performance requirements within the nuclear industry, they are also suitable for use in a wide range of air handling systems. Max. Temp.: 250°C continuous

Construction

Media: Contains alternate layers of flat and

crimped steel wire.

A rigid mild steel frame Frame:

with a corrosion and heat resistant paint finish. Similarly treated mild steel grilles are fitted on both sides.

Gasket: Available with or without a silicone

rubber gasket.

Specification: VOKES spark arrestors

are designed to meet the requirements contained in AESS 30/93700 Type 2.

Performance

Air Volume Capacity:

Two standard spark arrestors are available with air volume capacities of 340 m³/h (94 l/s) and 1,700m³/h (470 l/s).

Initial <25 Pa. at the rated

Resistance: flow.

500°C short periods only

Dimensions: 340m³/h Spark Arrestor –

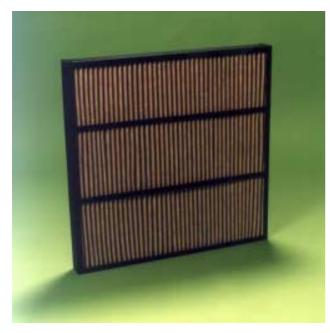
304 x 304 x 51mm (57mm with gasket)

1,700m³/h Spark Arrestor - 609 x 609 x 51mm (57mm with gasket)

Spark Arrestor/Pre-Filters

VOKES Spark Arrestor/Pre-Filters are designed to be fitted up-stream of absolute filters, to provide a combined pre-filter and spark trap. In the event of a fire the glass wool filter media fuses, leaving a double layer of wire mesh to hold back the flames.

Designed to meet performance requirements within the nuclear industry, they are also suitable for use in a wide range of air handling systems. Where full fire protection is required, a separate VOKES Spark Arrestor should be fitted.



Construction

Media: A layer of glass wool filter media,

sandwiched between two layers of steel wire mesh and pleated to give an increased

surface area.

Frame: A rigid mild steel frame with horizontal

supporting strips. The frame assembly has a corrosion and heat resistant paint finish.

Gasket: Available with or without a silicone rubber

gasket.

Specification: VOKES spark arrestor/pre-filters are

designed to meet the requirements contained in AESS 30/93700 Type 1.

Performance

Air Volume Capacity:

Two standard spark arrestor/pre-filters are available with air volume capacities of 340

 m^3/h (94 l/s) and 1,700 m^3/h (470 l/s).

Initial <50 Pa. at the rated flow.

Resistance:

Max. Temp.: 250°C continuous

500°C short periods only

Dimensions: 340 m³/h Spark Arrestor – 304 x 304 x 51mm

(57mm with gasket)

1,700m3/h Spark Arrestor - 609 x 609 x

51mm (57mm with gasket)



Vokes Air Filtration

Farrington Road, Burnley, Lancashire, BB11 5SY, UK

Tel: +44(0)1282413131 Fax: +44(0)1282434171 Email: sales@vokesair.com Web: www.vokesair.com

The company reserves the right to change specifications without notice. Freedom from patent restrictions must not be assumed.



Designed by VOKES Filtration, Guildford, Surrey, GU3 2AF, UK