

Type RKA



PARTS KIT FOR HIGH INSERTION LOSS IN THE LOW-FREQUENCY RANGE

Energy-saving splitters with resonating panels, ready to be used in air conditioning systems

- Installation in combination with other attenuator splitters
- Energy efficient due to aerodynamically profiled frame (radius > 15 mm)
- Acoustic data measured to ISO 7235
- Absorption material is biosoluble and hence hygienically safe
- Absorption material faced with glass fibre fabric as a protection against erosion due to airflow velocities up to 20 m/s
- Absorption material non-combustible, to EN 13501, fire rating class A1
- Intermediate sizes in increments of 1 mm
- Operating temperature up to 100 °C

Optional equipment and accessories

- Stainless steel and powder-coated constructions upon request



Application

- Sound attenuator splitters with resonating panels, Type RKA, used for the reduction of fan noise and air-regenerated noise in air conditioning systems
- Installation in combination with other Type MKA or XKA splitters
- Attenuation effect due to resonance
- Broadband attenuation particularly in the low frequency range of critical fan noise
- Hygiene tested and certified to VDI 6022
- For use in potentially explosive atmospheres (ATEX), zones 1, 2, 21 and 22 (outside)

Special characteristics

- Resonating panels ensure increased insertion loss in the frequency range of critical fan noise
- Up to 30 % lower differential pressure
- Energy efficient and/or space saving due to aerodynamically profiled frame
- Hygiene tested and certified
- Multi-section construction available for large dimensions

Nominal sizes

- H: 300, 400, 500, 600, 700, 800, 900, 1000, 1100, 1200, 1300, 1400, 1500, 1600, 1700, 1800 mm (intermediate sizes 150 – 2500 mm in increments of 1 mm)
- Height subdivided: 2501 – 5000 mm, in increments of 1 mm
- L: 500, 750, 1000, 1250, 1500 mm (intermediate sizes 501 – 1499 mm in increments of 1 mm)
- Length subdivided: 2501 – 3000 mm in increments of 1 mm
- Undivided construction: H + L 4000 mm max., 80 kg max.

Variants

Maximum attenuation

- A: 250 – 125 Hz
- B: 125 – 250 Hz
- C: 125 – 63 Hz
- D: 63 – 125 Hz

Parts and characteristics

- Aerodynamically profiled frame
- Absorption material and resonating panels fitted to reduce air-regenerated noise by absorption and resonance

Useful additions

- U-sheets/clamp sheets to join subdivided attenuator splitters

Construction features

- Aerodynamically profiled splitter frame (radius > 15 mm) that enables a reduction of turbulence both upstream and downstream; frame with grooves for increased rigidity
- Frame edges are folded to protect the infill
- Operating temperature up to 100 °C (construction with perforated sheet metal up to 300 °C for 8h max.)

Materials and surfaces

- Splitter frames and resonating panels made of galvanised sheet steel
- Absorption material is mineral wool

Mineral wool

- To EN 13501, fire rating class A1, non-combustible
- RAL quality mark RAL-GZ 388
- Biosoluble and hence hygienically safe according to the German TRGS 905 (Technical Rules for Hazardous Substances) and EU directive 97/69/EC
- Faced with glass fibre fabric as a protection against erosion through airflow velocities of up to 20 m/s
- Inert to fungal and bacterial growth

Standards and guidelines

- Insertion loss and sound power level of air-regenerated noise tested to ISO 7235
- Meets the hygiene requirements of VDI 6022, DIN 1946, parts 1 and 2 as well as of VDI 3803
- Directive 94/9/EC: Equipment and protective systems intended for use in potentially explosive atmospheres

Maintenance

- Maintenance-free as construction and materials are not subject to wear

TECHNICAL INFORMATION

Function, Technical data, QUICK SIZING, Specification text, Order code, Related products

Dimensions and weight

Installation details, Basic information and nomenclature

TROX Middle East (LLC)

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