

A photograph of an industrial facility, likely a refinery or chemical plant, featuring a long, straight walkway with metal grating flooring and railings. The walkway leads towards a complex of industrial structures, including distillation columns and piping, under a clear sky. The image is framed by a large, stylized white shape that resembles a drop or a shield, set against a dark red background.

**BAFFLE
SILENCERS**



AXCES

Steam and Flow Control

THE SOUND OF SILENCE BECOMING AXCES STEAM AND FLOW CONTROL

Q.E. International B.V. was established in 1979. In April 2019, Q.E. International B.V. was acquired by The Axces Group. The official company name after this point will become Axces Steam and Flow Control B.V. while the trade name will remain Q.E. International.

Axces Steam and Flow Control (ASFC) is the expert on working towards a quieter and safer industrial environment. With innovative solutions in the field of noise, vibration, and pulsation, ASFC sets a higher standard than the competition. Solving a broad range of noise pollution issues worldwide built a reputation suitable for an international organisation. Custom products ensure that the noise pollution problems are dealt with adequately.



The knowledge is broad and safety is important. ASFC helps your company with handling precision equipment, calculations, legal requirements, and mandatory approval.

MISSION

Strive to be the expert in the field of noise, vibration, and pulsation. More than 35 years of experience has evolved into more innovative solutions and raising the bar of the competitors. We are providing the best results through custom-made products.

VISION

Our goal is to create a carefree, helpful, and understanding environment for our customers. Expect nothing less than the best quality, attention, and expertise. Our motivation is to deliver excellence through our experience. We thrive to establish a long-term relationship with all of our customers.

SUPPLIERS

We always select our suppliers carefully therefore, we only work with the best in the industry. Our suppliers are encouraged to be creative and innovative and to work on building a long-term relationship with us. That is why we can ensure quality and dedication to our customers.

ENVIRONMENT

The environment is one of our most important responsibilities. A safer and healthier environment is our goal and we are working towards that on a daily base. Therefore, we committed ourselves to the strict environmental rules of ISO 14001.



QUALITY

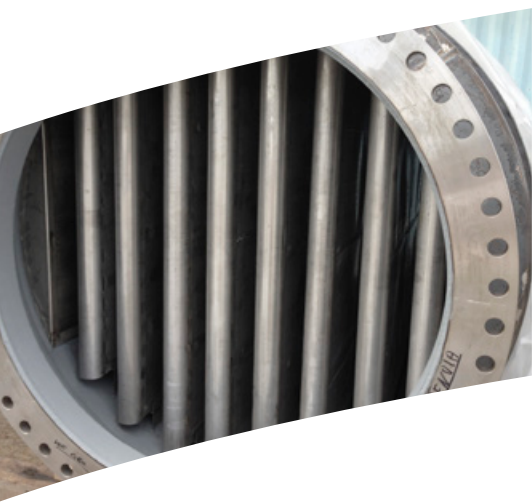
Quality means a lot to us. We are proud that we hold various certificates, which demonstrate how important quality standards are for Axces Steam and Flow Control. A result of this is that we are considered a pioneer in the market.

CUSTOM DESIGNS

ASFC has also specialized in the designs of silencers to comply with customer specifications. The extended experience is at your disposal in solving complex noise problems and in the translation of extreme demands into practical solutions and our continuing drive to be leaders in our chosen fields is evidenced by the successes that they have demonstrated. ASFC produces various industrial silencers and provides advice according to the customer's wishes.



BAFFLE SILENCERS



PRINCIPLE

Baffle silencers are contained within a circular or rectilinear housing in which one or more noise absorbent panels are mounted. Each panel is composed of modules filled with a noise absorbent material, suitably protected against fiber migration, supported by perforated plates.

The noisy gas is induced to pass over the perforated material so allowing the vibration energy of the noise to be converted by friction over the fibers into heat. The fibrous absorbent material selected is dependant upon the specification and application and the frequency range and noise levels to be treated determine the proportions of the thickness of the absorbent material, the length of the panel, and the distance from its neighbor.

APPLICATIONS

Axcès Steam and Flow Control B.V. baffle silencers are used in:

- ✓ *Ventilation and air-handling systems*
- ✓ *Cyclone systems*
- ✓ *Compressor installations*
- ✓ *Steam venting*
- ✓ *Boiler steam discharge Fans and blowers*
- ✓ *Electric motors*
- ✓ *Internal combustion engines*

The dynamic insertion loss (the measured difference between the ingoing noise levels at the full flow condition and the emerging noise levels under the same conditions) describes the silencer acoustic performance and is usually quoted in decibel per Octave Band.

Owing to flanking noise that is transmitted by structural vibrations practical values barely exceed 50 dB. Where noise attenuation greater than this is specified ASFC the placement of more than one silencer unit in a series configuration with suitable inter-unit isolation.

CUSTOM-BUILT UNITS

Using its own in-house developed computer program that incorporates up-to-date laboratory and on-site measurements ASFC can to provide designs for custom-built silencer units. The optimum design-acoustic, mechanical, application, is then, guaranteed.

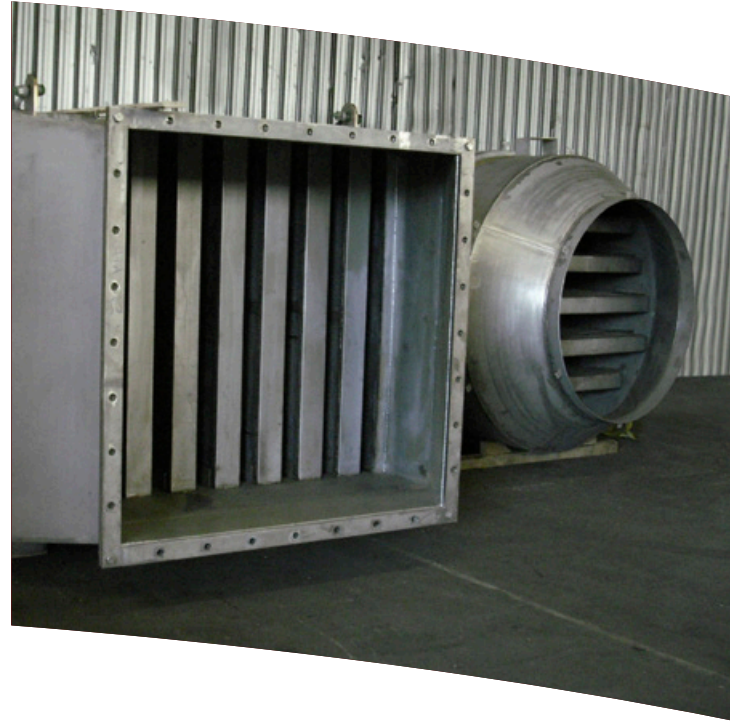
PRESSURE-LOSS

In general, the pressure-loss over a silencer depends upon the geometry of the flow-path and the speed of the gas over the various surfaces. By careful design and stringent monitoring of the fabrication processes, ASFC ensures that the supplied silencers have a minimum pressure-loss.

MATERIAL OF CONSTRUCTION

In the standard form, the baffles are fabricated from galvanized steel plate and the absorbent material is high-density mineral wool. Support of the mineral wool is by glass-fiber cloth and galvanized perforated plates.

For custom-built units, the specification determines the selection of the material so that elevated temperatures, corrosive media, and demands of hygiene can all be met by, for example, electrolytic zinc finish, and stainless steels. The absorbent material, too, is selected to meet the demands of extreme operating conditions and the migration protection arranged by using metallic gauzes.



CALCULATION

To be able to make the necessary calculations to size the plant item we need the following data:

- ✓ *Medium (gas flowing)*
- ✓ *Quantity of gas*
- ✓ *The temperature of the gas upstream of and downstream of the silencer*
- ✓ *Gas pressure upstream of and downstream of the silencer*
- ✓ *Desired attenuation of noise levels*
- ✓ *Maximum permissible pressure loss through the dampener*
- ✓ *Connection sizes to the ducting*
- ✓ *The installation configuration*

ASFC YOUR PARTNER IN INDUSTRIAL NOISE REDUCTION

In short, with more than 40 years of experience ASFC has demonstrated itself to its satisfied and trusted clientele to be the partner of choice in the solution of industrial noise problems. We are ready to advise you. Please make contact with us – our advisors are ready to examine your noise and vibration problem and to determine the best way of overcoming it.



THE AXCES GROUP

The Axces Group designs and manufactures industrial exhaust systems, silencers and chimneys including flue gas cleaning systems as well as acoustic enclosures, steel structures and steel products.

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Axces BV includes: Axces Wet Exhaust Systems,
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