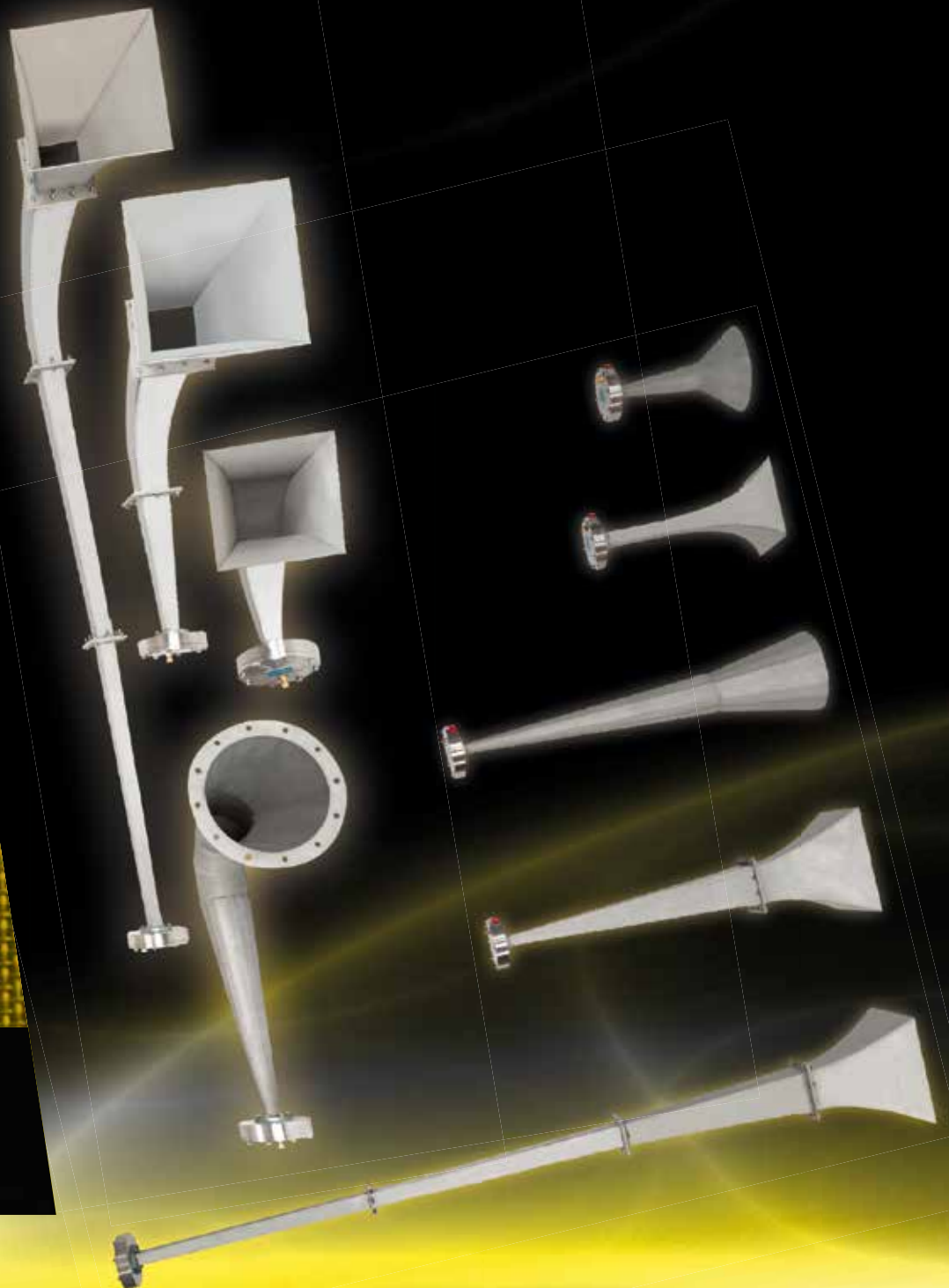


ACOUSTIC CLEANING SYSTEM



SAFEFON

NEW **COMPONIT**
una leadership italiana nel mondo

PRODUCTS

The product range includes equipment with frequencies from 60 Hz to 450 Hz, however given its universal use SAFEFON has opted to prioritize the production of the following series:

SAFEFON series 250

SAFEFON series 100

SAFEFON series 60

In order to cover a wider range of applications in temperature (up to 1000°C), erosion, aggressive environments, food grade, etc. We manufacture all our standard equipment in stainless steel AISI 316.

SAFEFON series 250

Universal acoustic cleaner: this cleaner, compact size available with straight and curved geometry, is the most versatile of the whole range. To facilitate the assembly we have designed several adapters that simplify the installation.

250RP

250CP

100RP

100CP

SAFEFON series 100

Medium range acoustic cleaner: This cleaner combines a long wavelength with an average horn size. Particularly suitable for cleaning convection zones in boiler, precipitators, heat exchangers, baghouses and selective catalytic reduction DeNOx

SAFEFON series 60

Powerful acoustic cleaner: This is the right cleaner for applications where high power and extra reach is needed. Straight and curved construction, this blower is particularly suited for large boilers, precipitators, economizers, silos, etc. of large dimensions.

60RP

60CP

Materials

Cover: AISI 316
Body: AISI 316
Diffuser: AISI 310
Diaphragm: Titanium special alloy

Limitations

Moisture: 10-15% maximum
Max. temperature: 1000°C

Requeriments

Air pressure: 5-6 bar
Air consumption:
32 l/s in operation
0.5 l/s at rest (for cooling)

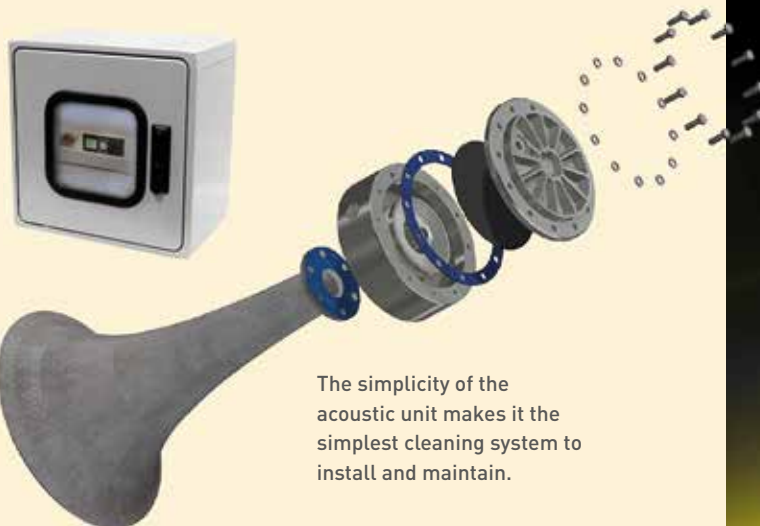
ACOUSTIC CLEANING SYSTEM

Sound waves of low frequency and high intensity carry, from the sound generator to every surface on the equipment to be treated, acoustic energy that upon hitting the deposits, introduce vibrations within, exerting a fluidizing effect.

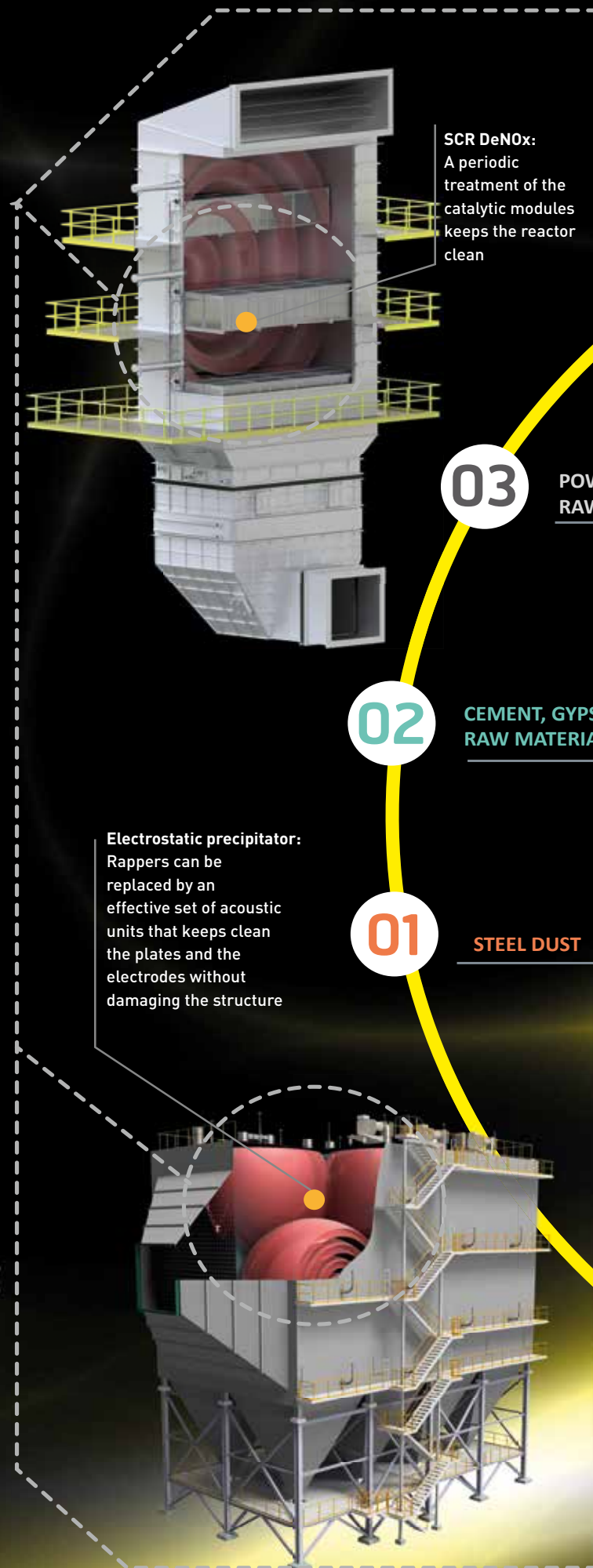
The sonic pulses are emitted by a pneumatic generator and its frequency is then modulated by a diffuser. The diffuser can take various shapes and dimensions depending on the requirements of the application and the specific installation needs.

The simplicity of operation, economy of use, reliability, low maintenance costs and operational efficiency make SAFEFON acoustic cleaning systems a good choice for replacement or complement of traditional equipment such as:

- Blowers
- Venturi and back pressure pulses
- Economizers
- Baghouses
- Air pressure heaters



The simplicity of the acoustic unit makes it the simplest cleaning system to install and maintain.



SCR DeNOx:
A periodic treatment of the catalytic modules keeps the reactor clean

03

POW
RAV

02

CEMENT, GYPS
RAW MATERIALS

01

STEEL DUST

Electrostatic precipitator:
Rappers can be replaced by an effective set of acoustic units that keeps clean the plates and the electrodes without damaging the structure

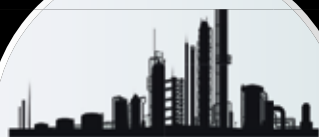
04

ASHES FROM COMBUSTION

Silos:
Sound pulses release the material clogged in the form of arch or chimney

POWDER SUBSTANCES
AND FINE MATERIALS

SUM
ALS



BULK MATERIALS
AN INDUSTRY
PROBLEM

FOUNDRY
STEEL MILLS

CEMENT
CONSTRUCTION

FOOD
PHARMA
CHEMICAL

POWER PLANTS

BOILER - HEAT EXCHANGERS - GAS DUCTS - ELECTROSTATIC PRECIPITATOR - SCR SELECTIVE CATALYTIC REDUCTION - BAG FILTER / BAGHOUSE - CYCLONIC SEPARATORS - ID FANS - STORAGE SILOS - FEED BINS/HOPPERS - DUCTWORK

BAG FILTER / BAGHOUSE - CYCLONES - ID FANS - STORAGE SILOS - FEED BINS - DUCTS

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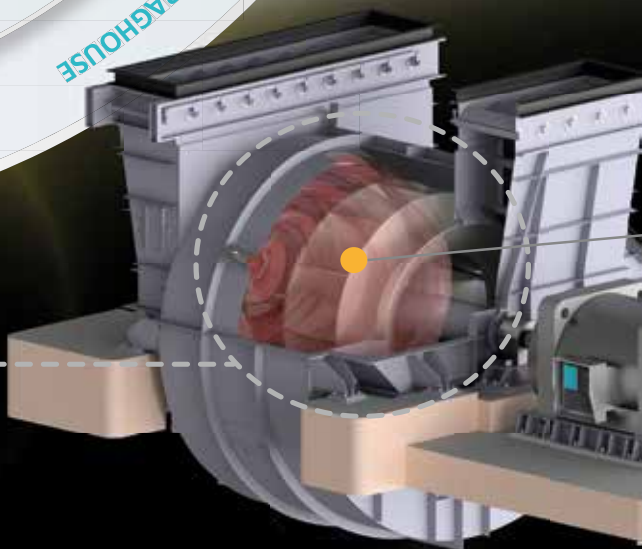
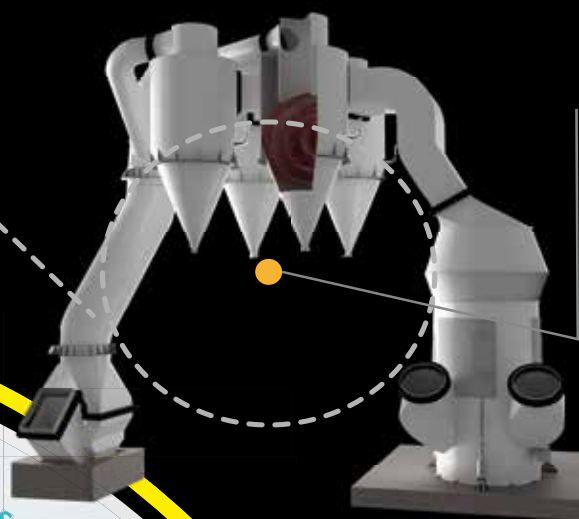
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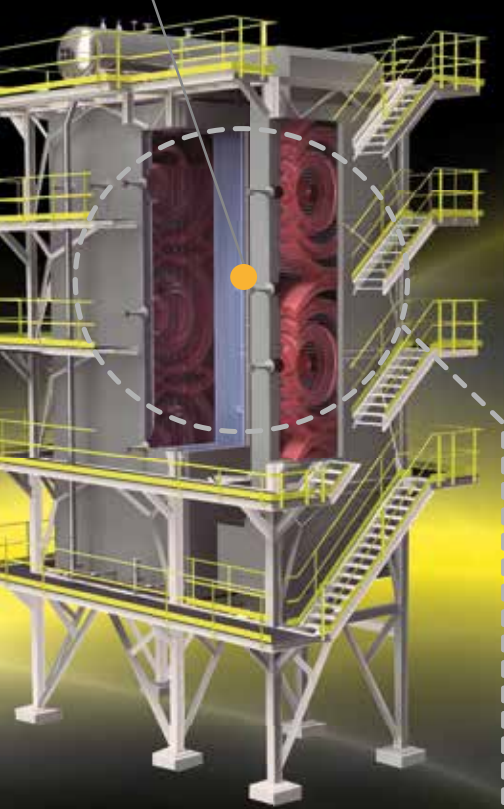
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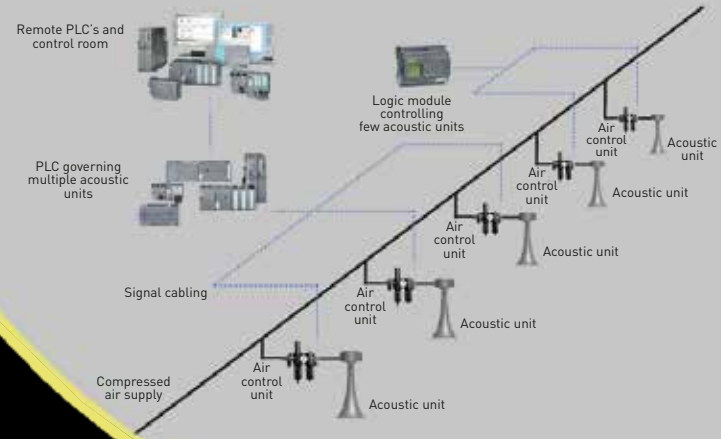
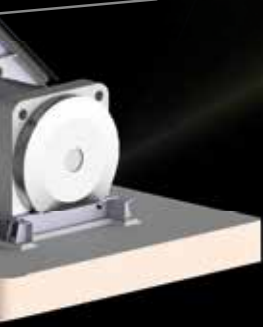


Cyclonic Separators:
Acoustic blowers prevent thickening of walls with deposited material

Boilers and heat exchangers:
Tube bundles in boilers and heat exchangers clog no more with ash deposits through the safe use of acoustic cleaning



Fan:
Acoustic blowing prevents the build-up of deposits on blades that unbalance the rotor and cause dangerous vibrations



An acoustic cleaning unit can be operated individually, either programmed or sounded on demand, in simple applications such as storage silos. However, several acoustic units may be associated to form a system of multiple synchronized units. In the case of a system of up to 10 units would be easily governed by logic modules. In the case of large systems of 100 or more units, the control and supervision resides in an industrial PLC that can be integrated in the plant Ethernet network.

Filter



Heat Exchanger





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SAFEFON HORNS PROVIDE AN EFFECTIVE SOLUTION
TO BUILDUP AND MATERIAL FLOW PROBLEMS
WITHIN A WIDE RANGE OF INDUSTRIES...

ADVANTAGES:

- Cleaning of inaccessible parts with continuous plant operation
- Easy installation
- Low costs (installation / maintenance)
- No structural damages
- No corrosion and blockage



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