

# more power, less energy consumption for baghouse filter

Kappa **Waveline**®

The best of both worlds – the advantages of filter bag & cartridge filter in one filter element.

THE  
FUTURE  
HAS ZERO  
EMISSIONS

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Kappa WaveLine®  
ID: 035008

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Baghouse filters have been considered as robust and reliable dedusting systems for many years. We find them in the most diverse areas of application. Over the years, however, the processes served are constantly changing. The corresponding baghouse filters are often neglected.

The results are insufficient filter performance or excessive energy consumption.

**But what to do if the  
optimisation  
of the existing  
baghouse filter  
involves a lot of expenditures?**



**Kappa Waveline®**  
**+25%**  
filter surface  
**the original**

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**The newly developed  
and internationally  
patented filter bag  
offers the solution.**



**Waveline®**

The Kappa Waveline® filter bag increases the filter area by 25% with the same installation conditions and the same installation volume as a conventional filter bag. This increases the air performance of the baghouse filter and reduces energy costs. The Kappa Waveline® filter bag can easily be retrofitted into existing bag filter systems. This allows the power and energy efficiency of existing baghouse filters to be increased without conversions.



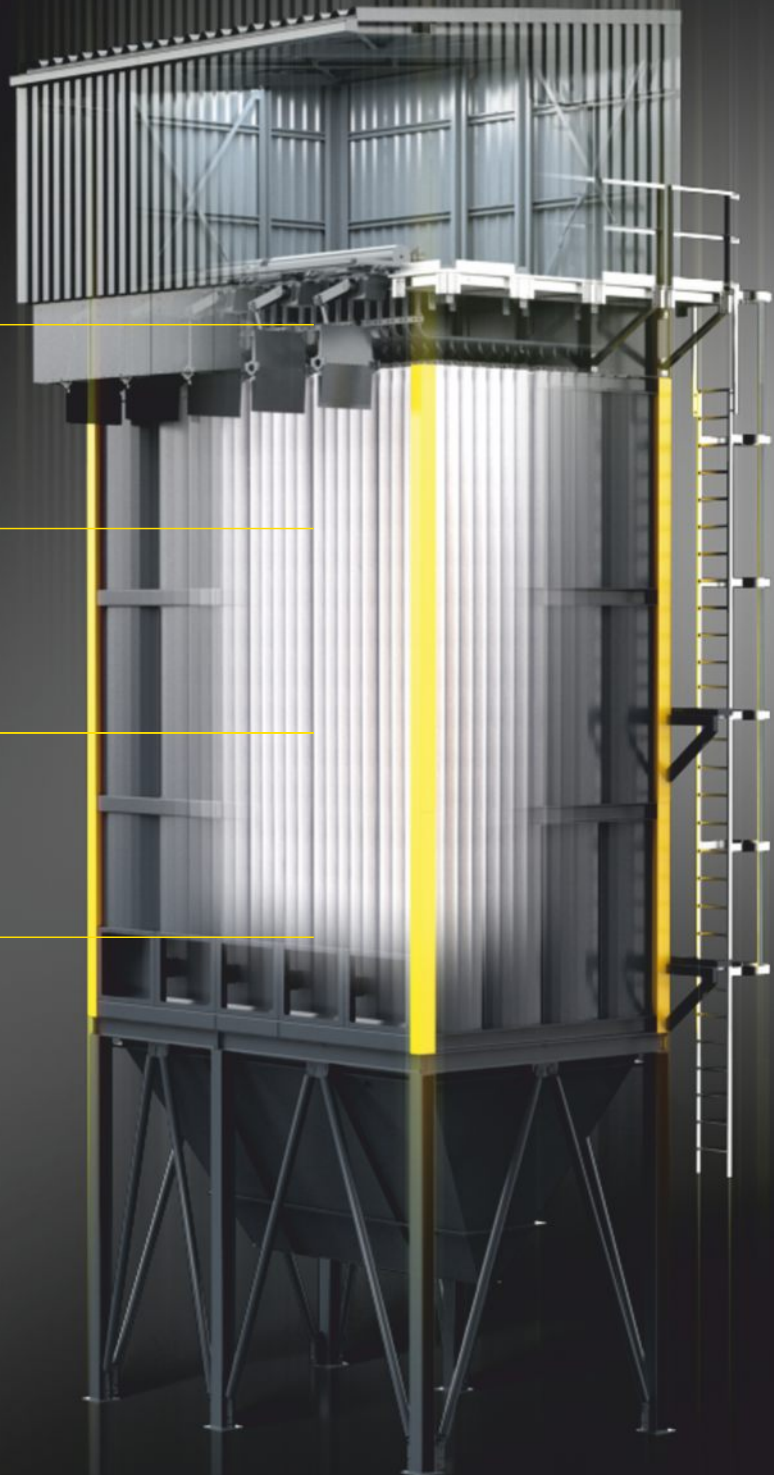
# Upgrade your baghouse filter with Kappa Waveline<sup>®</sup>

**Can be retrofitted**  
without conversions

**25%**  
higher air flow

**30%**  
power savings

**50%**  
compressed air savings



# The best of both worlds – the advantages of a filter bag & cartridge filter in one filter element.

The internationally patented Kappa Waveline® filter bag is the innovation in dedusting technology. It combines the advantages of conventional filter bags - robust and easy to clean - and cartridge filters - high filter area in a compact space. Kappa Waveline® is therefore more efficient and economical than conventional filter bags.

## Kappa Waveline®

### **25% more power for your baghouse filter.**

The Kappa Waveline® filter bag has 25% more filter area compared to a conventional filter bag. This means that the air performance of existing baghouse filters can be increased by 25% for the same filter surface load without conversions.

### **30% power savings.**

The increased filter area leads to a lower filtration velocity for the same volume flow. This results in a 30% reduction in power consumption and reduced running costs. Compared to a conventional filter bag, the Kappa Waveline® has a higher purchase price, but the running costs are considerably reduced due to the lower power consumption. This leads to a repayment of the additional costs in months to a few years.

### **50% compressed air savings.**

The 25% larger filter area supports the cleaning effect and reduces the cleaning sequences. The improved dedusting leads to a compressed air saving of 50%.



**conventional filter bag**  
in filter operation



**Kappa Waveline® filter bag**  
in filter operation

In suction mode, the Kappa Waveline® filter bag adapts optimally to the Kappa Waveline-Cage™ support cage. This means that the 25% increased filter area can be used to the maximum extent.



**conventional filter bag**  
in inflated condition during dedusting



**Kappa Waveline® filter bag**  
in inflated condition during dedusting



# The Kappa Waveline<sup>®</sup> filter bag

The Kappa Waveline<sup>®</sup> is a high-quality filter bag that is ideal for increasing performance and minimising electricity costs.

Only high-quality filter materials are used for the Kappa Waveline<sup>®</sup>. If you have already made good experiences with the materials you use, we can also process them. The longitudinal and round seams are triple sewn. The bottom cuff is designed with several layers. This ensures consistently high filtration performance, a long service life and optimum wear and abrasion protection.

Filter materials for all common filter applications – filter materials for high temperature applications, special chemical resistant requirements, membrane filter materials and many more – can be processed for the Kappa Waveline<sup>®</sup>.

The filter bag head can also be designed individually according to your requirements. We use a high-quality double snap ring as standard. It ensures a perfect fit and optimal sealing. The filter elements are installed and removed without tools.

The filter elements have a stable hand strap with integrated identification number. This considerably shortens and simplifies installation and makes it easy to check the correctness of the filter elements used.

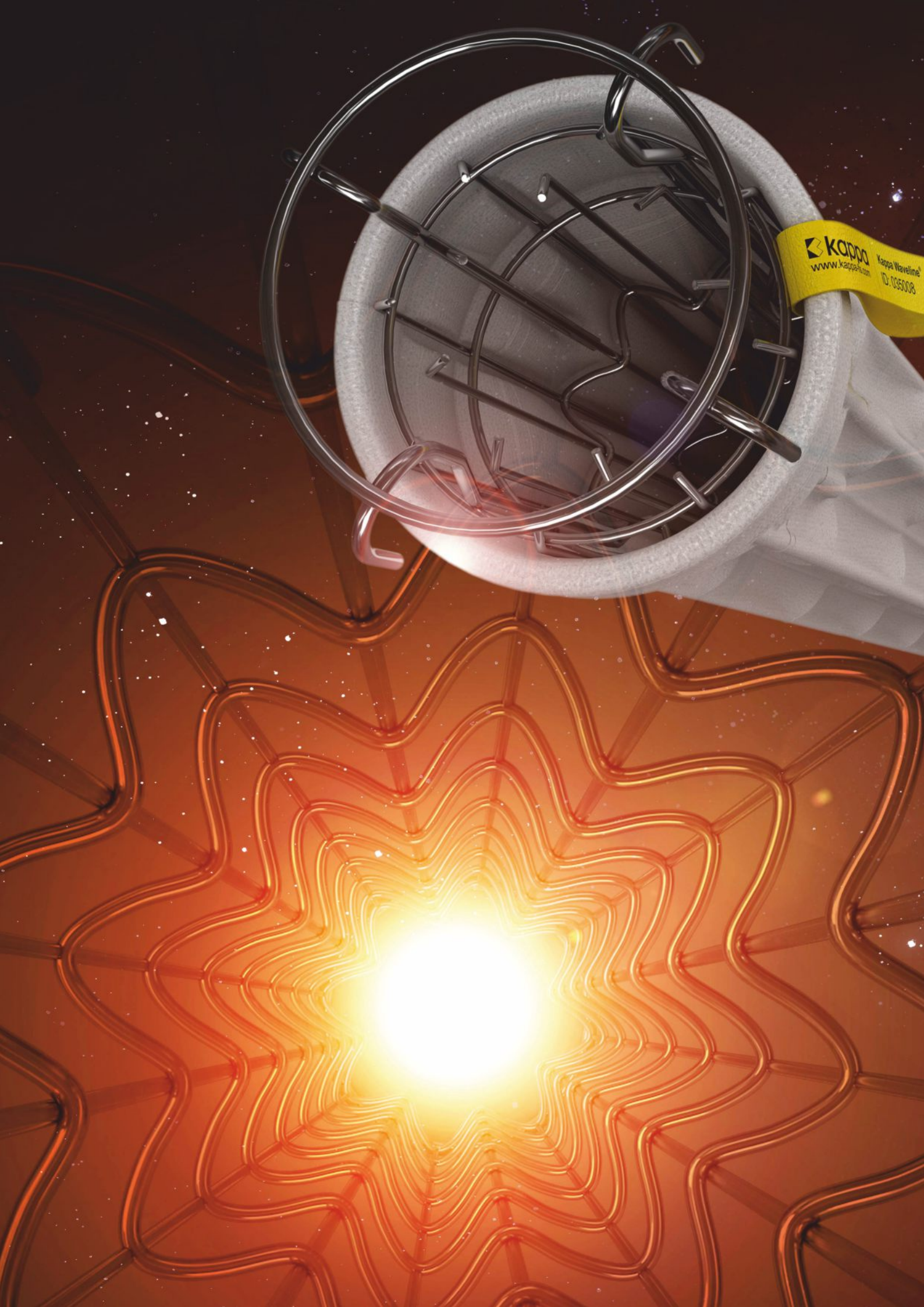


## Kappa Waveline-Cage<sup>™</sup> support cage

The patented, star-shaped Kappa Waveline-Cage support cage optimally supports the Kappa Waveline<sup>®</sup> filter elements. The filter material applies gently and without creases. The entire filter area, which is 25% larger than that of conventional filter bags, can be used.


The head of the Kappa Waveline-Cage<sup>™</sup> support cage can again be designed individually according to your wishes. In the standard version it has the shape of a crown. It consists of solid, accessible wires. The crown does not require a rigid connection to the filter head where the filter elements are installed. This allows the Kappa Waveline<sup>®</sup> filter elements to swing freely. It protects against increased filter element wear and against loosening of the connecting elements.


The bottom of the Kappa Waveline-Cage<sup>™</sup> support cage has rounded ends. Support cages over 4 metres in length are connected with connecting elements.



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