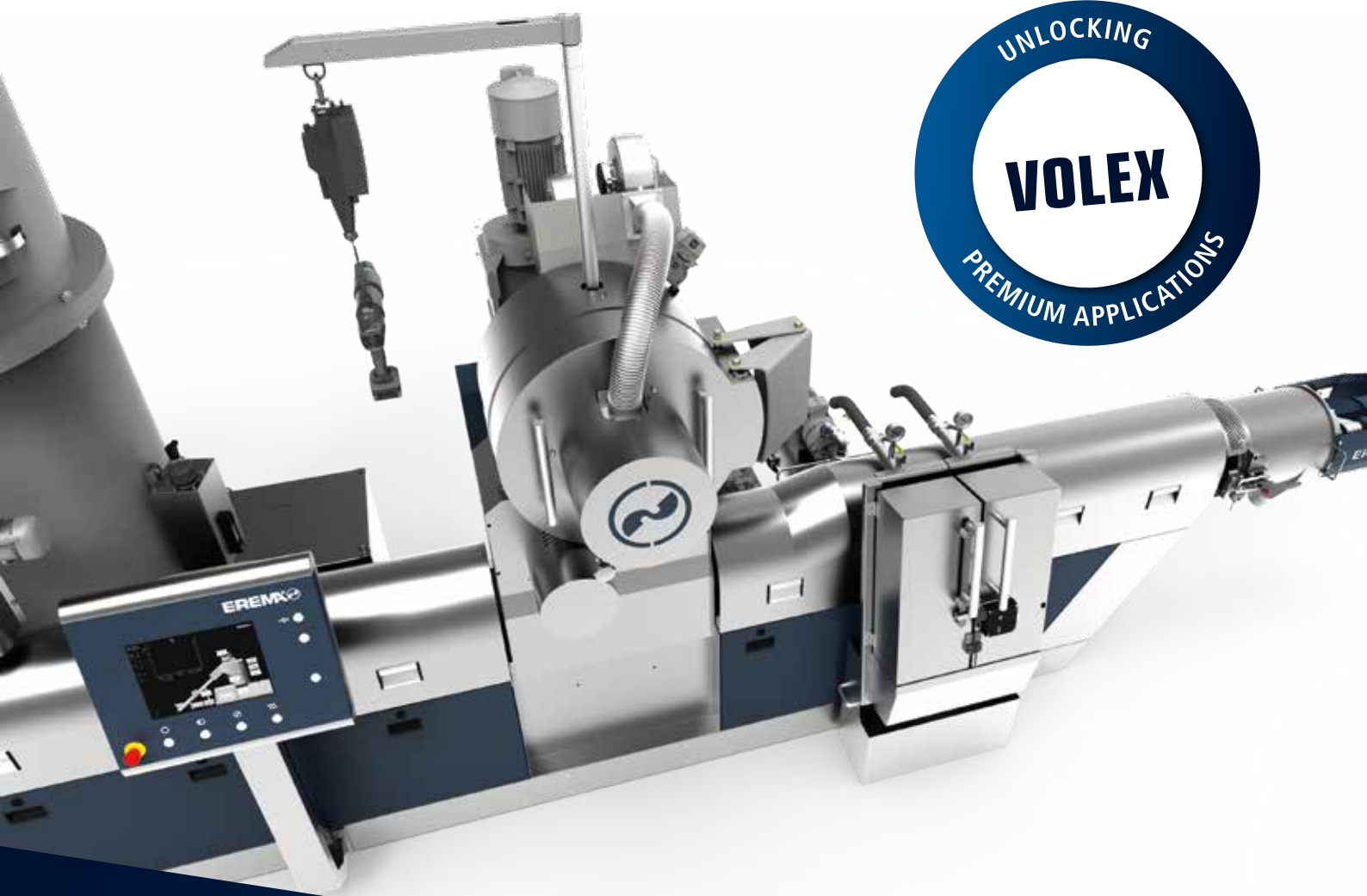




VOLEX

High-performance degassing in a single screw extruder

Outstanding reduction in VOCs and limonene
at full throughput

CHOOSE THE NUMBER ONE.

EREMA®
PLASTIC RECYCLING SYSTEMS

VOLEX

High-performance degassing at full throughput

High-quality applications require high-quality recyclates. Exactly what VOLEX was developed for. In combination with proven INTAREMA® TVEplus® technology, the new high-performance degassing system removes volatile organic compounds extremely efficiently, boosting degassing performance to a new level.

+320 per cent higher melt surface renewal rate*

The innovative geometry of the screw and cylinder greatly increases the melt surface area, melt renewal, and degassing volume, at full throughput. This ensures a significant reduction in VOCs, limonene and other volatile components, and results in less fogging.

Highly reliable

That is how VOLEX ensures a consistently high quality of recyclate as the basis for safe and reliable downstream processing.

Premium Ready: From the extrusion process directly to the application without additional pellet post-treatment

A really neat outcome is that, in many cases, very low residual limonene levels are reached during extrusion. This means that the recycled pellets can be used directly in selected applications for high-quality non-food and non-cosmetic products, such as packaging for household cleaning products, as well as for specific products in the automotive industry.

That is how VOLEX opens up new application possibilities for post consumer recyclates and helps recycling companies meet increasing market demands cost-effectively.

VOLEX. Unlocking premium applications.



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**Additional degassing booster:
VOLEX plus water stripping
as an option**



Depending on the material and application specifications, water stripping gives even more potential for boosting VOLEX degassing performance. Using water as an entraining agent removes VOCs and other volatile components even more effectively. This boosts VOLEX's already high degassing performance even more. Water stripping has been deployed successfully in twin-screw extrusion for many years to reduce volatile components. With the latest VOLEX technology, this additional stage of degassing is now available for the first time on a single-screw recycling extruder without compromising on throughput or the quality of the recyclate.



Lower TCE*, less VOC:

The powerful effect of VOLEX



HDPE coloured

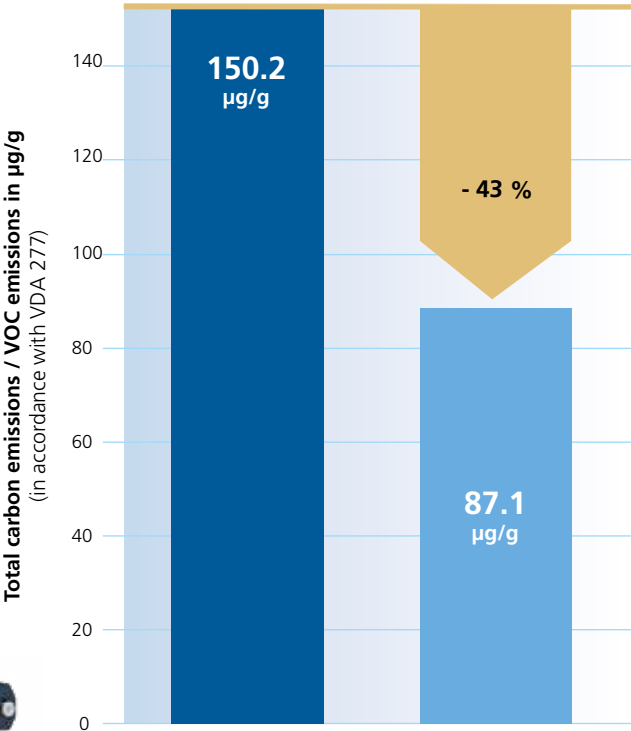
- DSD 320 + 322
Bottles from household collection
- Low sorting purity: coloured HDPE flakes with a proportion of heavily printed film
- Cold-washed



HDPE white

- DSD 320 + 322
Bottles from household collection
- Homogeneous colour uniformity and material purity thanks to precise sorting and washing
- Hot-washed

Effective reduction of total carbon and VOC emissions using VOLEX

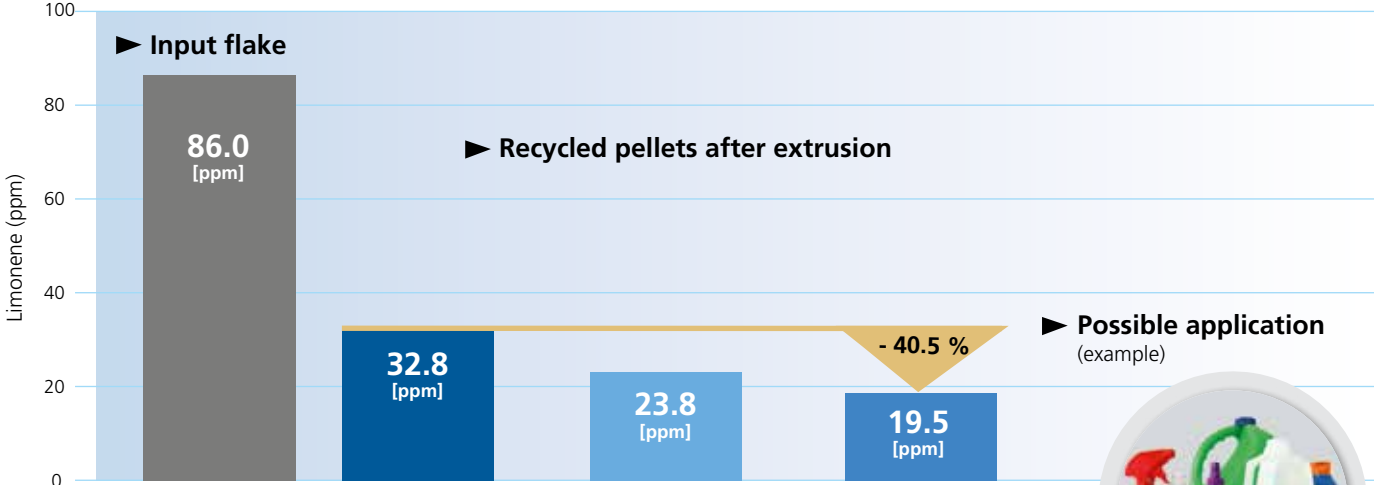


INTAREMA®TVEplus®
standard
without VOLEX



INTAREMA®TVEplus®
VOLEX

VOLEX effectively reduces the limonene content



INTAREMA®TVEplus®
standard
without VOLEX



INTAREMA®TVEplus®
VOLEX



INTAREMA®TVEplus®
VOLEX
with water
stripping



Thanks to the large reduction in limonene content achieved by VOLEX, recycled pellets can match the specifications of high-quality, premium non-food and non-cosmetics products, such as packaging for household cleaning products, without the need for additional odour-optimising technology.

* compared with standard INTAREMA® TVEplus® degassing

*TCE: Total Carbon Emissions

From volatiles to value

VOLEX advantages that impress:



- **A new level of degassing efficiency:** Clearly exceeds even high-performance INTAREMA® TVEplus® technology.

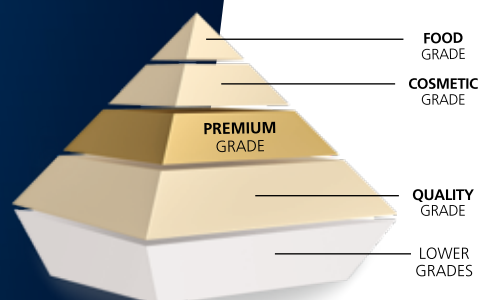
- **+320 % higher melt surface renewal rate***
- **Much higher degassing volume***
- **At full throughput***

* Compared with standard INTAREMA® TVEplus® degassing.



- **Significant reduction in limonene and volatile organic compounds (VOCs),** including a reduction in fogging effects.
- Safe, reliable and future-proof degassing performance.
- **Premium Ready: From the extrusion process directly to the application, without additional pellet post treatment.**

VOLEX achieves very low residual limonene levels during extrusion. This makes the recycled pellets suitable for selected high-quality non-food and non-cosmetic applications, such as packaging for household cleaning products and in the automotive industry.



- **Water stripping available as an optional expansion:** Additional degassing performance to match the application and specifications.

Headquarters & Production Facilities

EREMA Engineering Recycling
Maschinen und Anlagen Ges.m.b.H.
Unterfeldstrasse 3 / 4052 Ansfelden / Austria
Phone: +43 (0)732/31 90-0
erema@erema.at / www.erema.com

**For worldwide subsidiaries and
representatives please visit
www.erema.com**

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