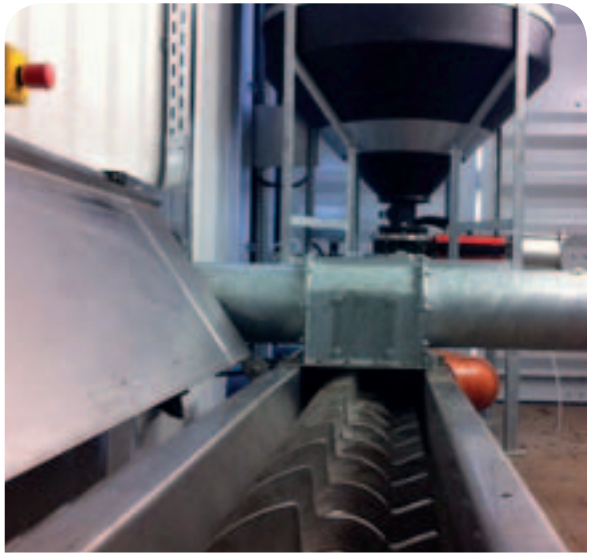

NEWeco-tec
Verfahrenstechnik


...better to evaporate water
than to incur unnecessary storage costs!
NEWtainer® SUBSTRATOR


Digestate drying

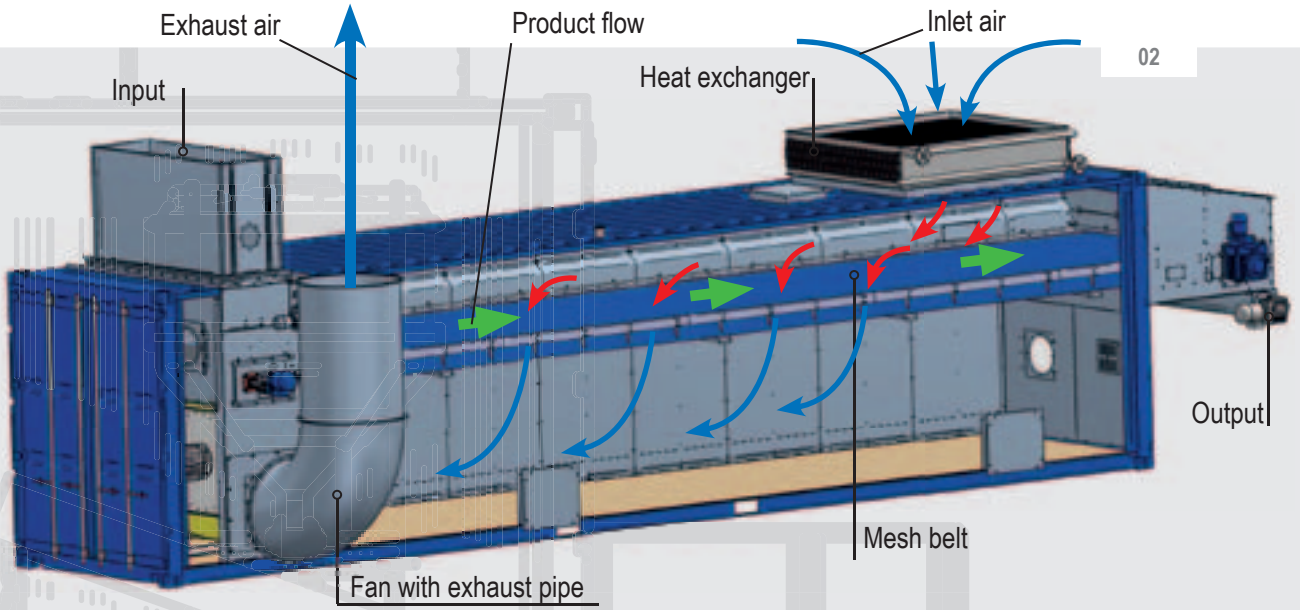


NEWtainer®

SUBSTRATOR

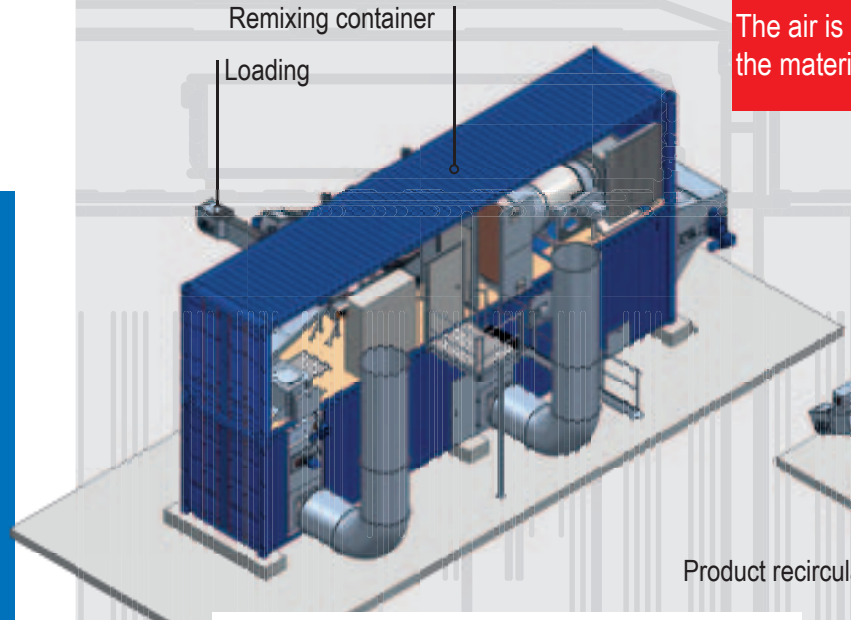
Drying of digestate from 6% DS

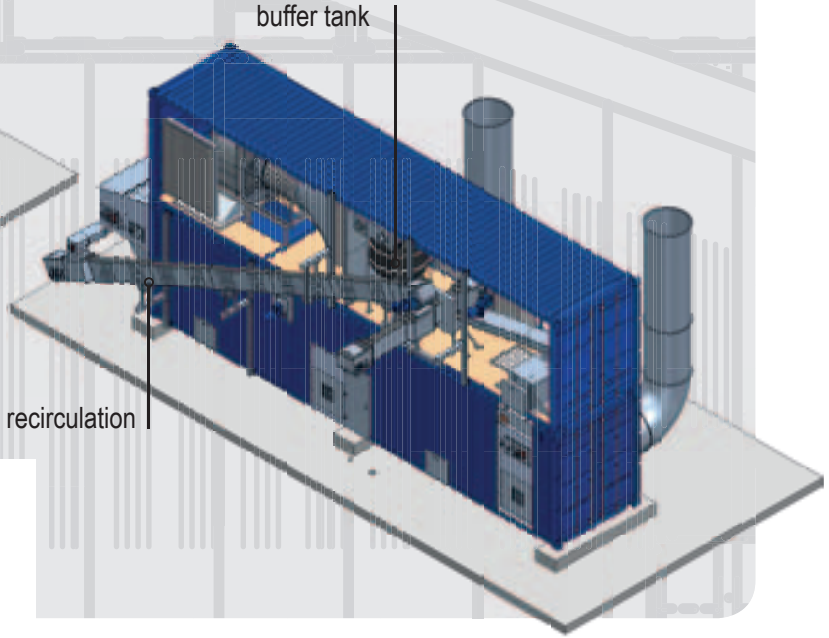
In the belt dryer **SUBSTRATOR+** the raw digestate with approx. 6% DS will be blended with pre-dried product from the process (approx. 85% DS).
Excess dried product exits the dryer by conveyor to be stored as a valuable granular fertilizer.



Airflow from **TOP** to **BOTTOM**

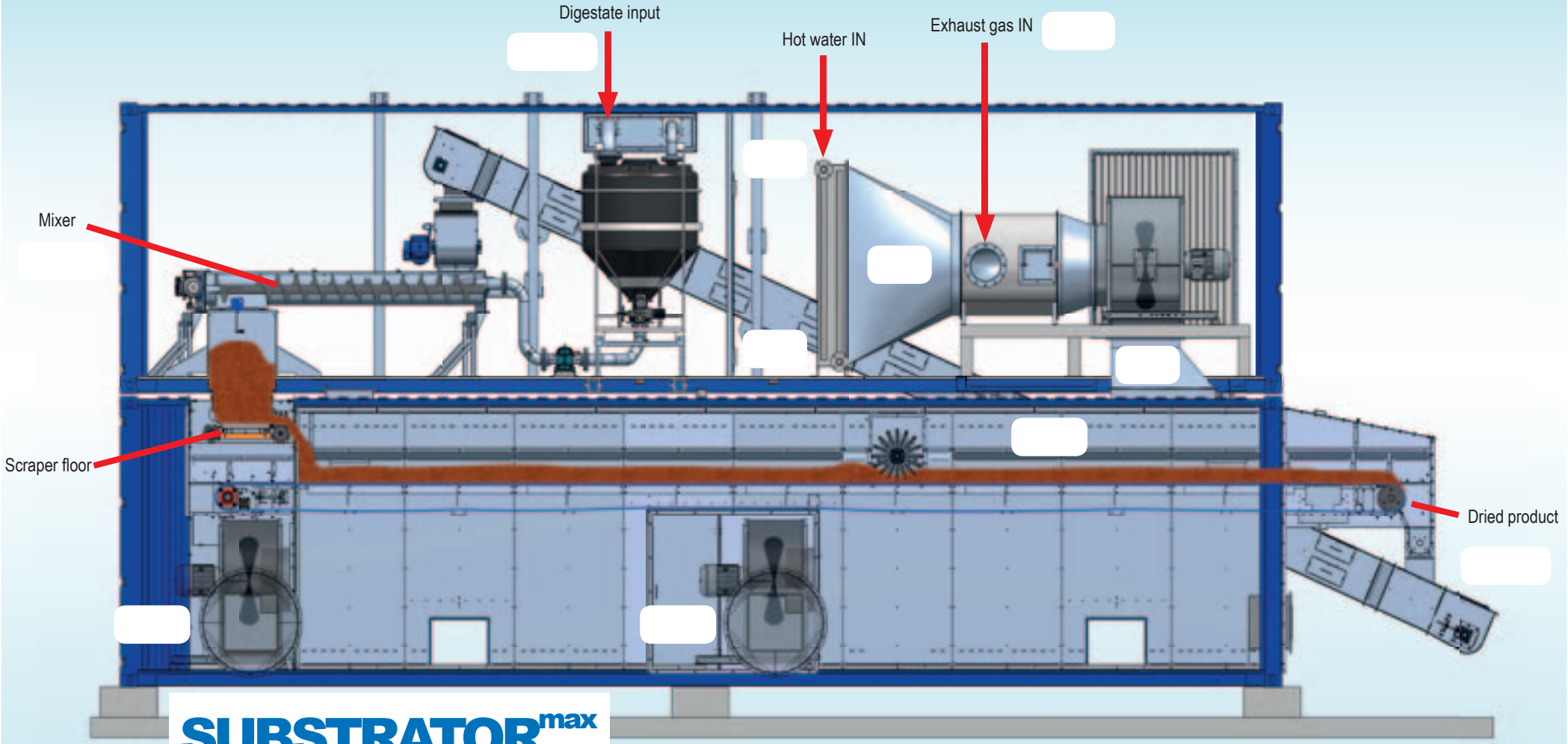
The NEWtainer® Dryer operates at **low pressure**.
The air is drawn down onto the belt through the material thus avoiding dust generation..



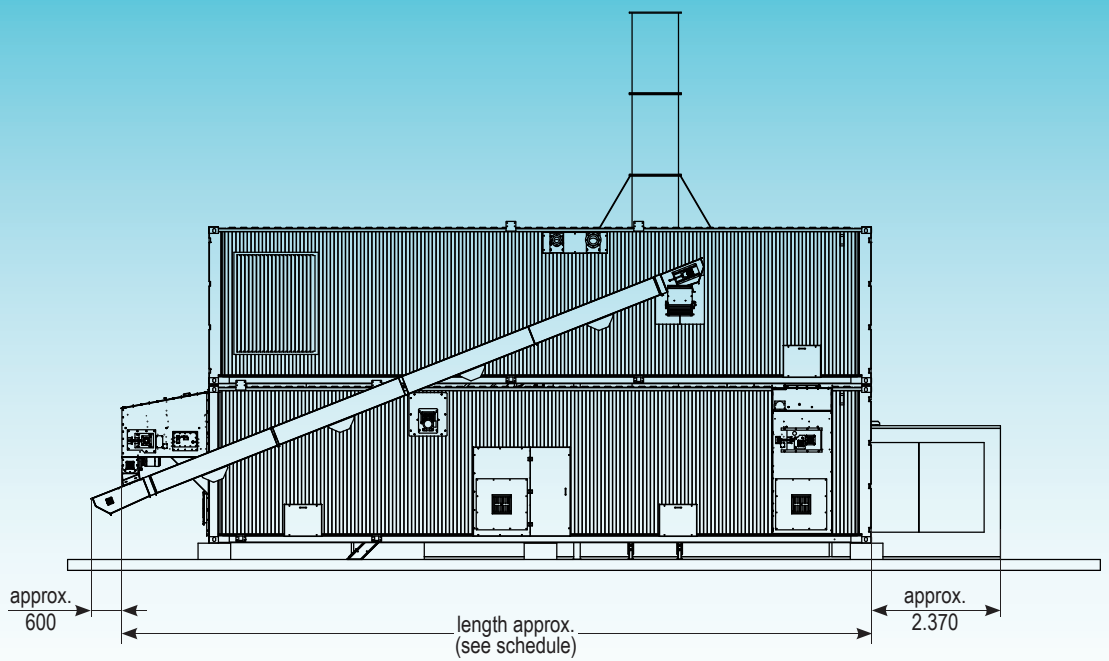


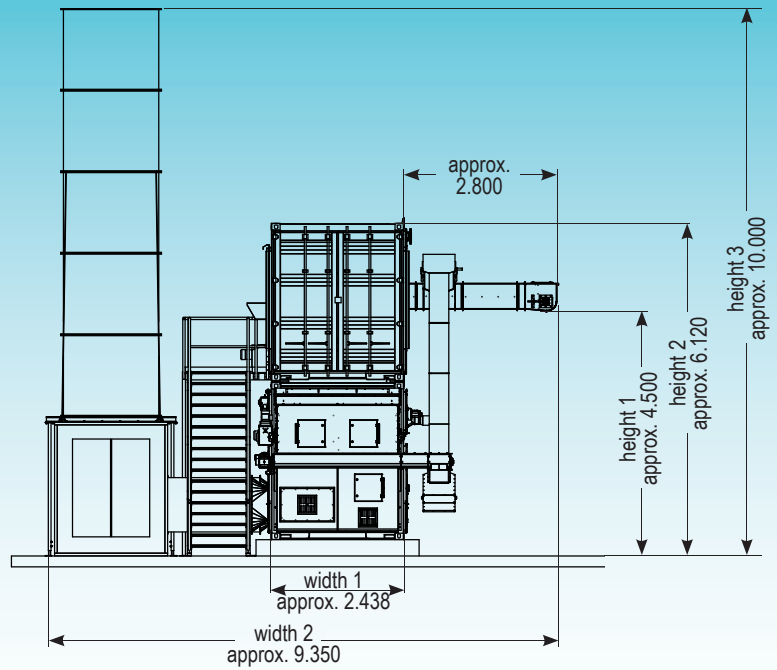
SUBSTRATOR

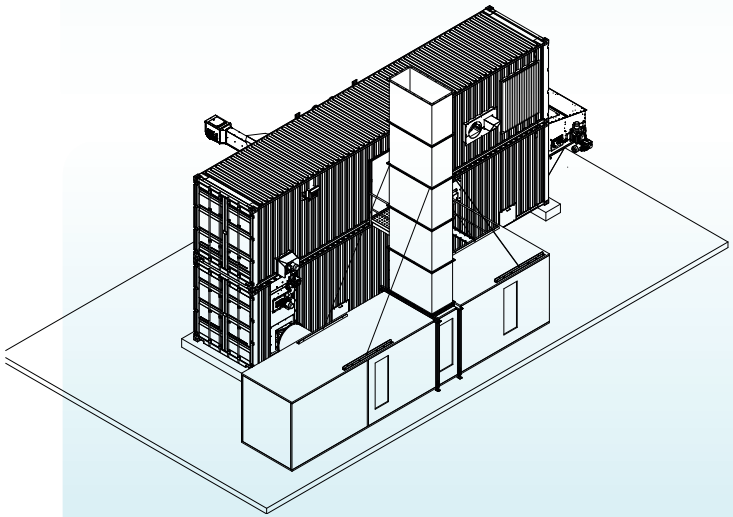
- **Max. volume reduction**
- **Nutrient concentration**
- **Savings in liquid storage costs**
- **Savings in digestate distribution**
- **Output for fertilizer**
- **Max. heat exploitation at summer and winter**



SUBSTRATORmax



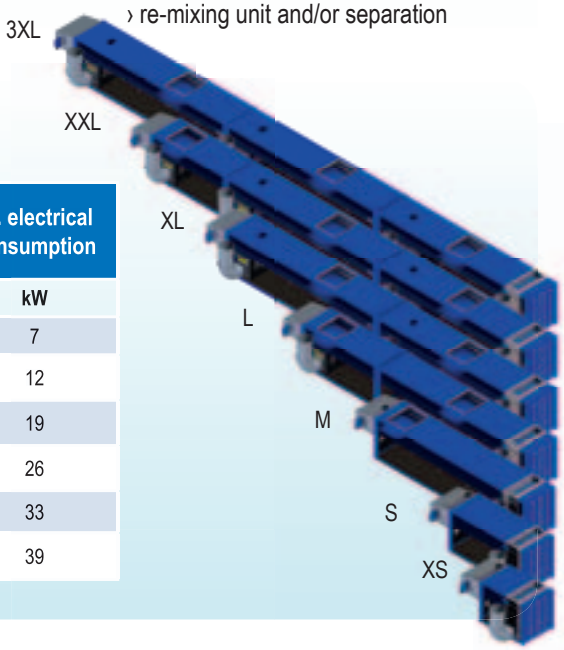




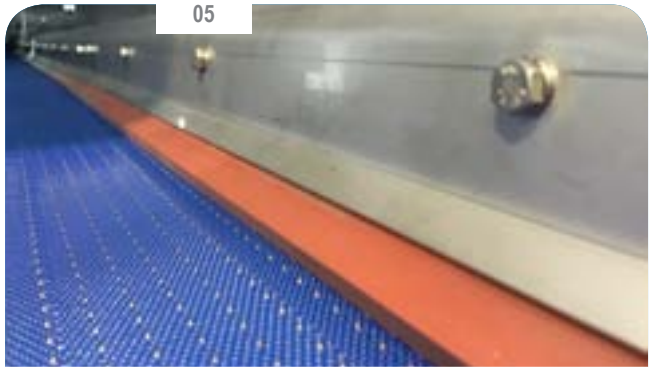
SUBSTRATOR

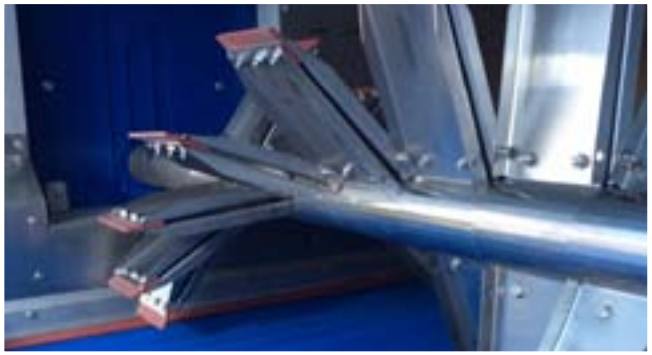
model	heat demand	water evaporation depending on the product	length approx.	av. electrical consumption
SUBSTRATOR	**kW therm**	**kg/d**	**mm**	**kW**
S+	up to 280	up to 6.800	8.200	7
M^{+} / M^{max}	up to 550	up to 13.300	13.800	12
L^{+} / L^{max}	up to 1.000	up to 24.500	19.900	19
XL^{+} / XL^{max}	up to 1.500	up to 37.000	26.000	26
XXL^{+} / XXL^{max}	up to 2.000	up to 49.000	32.000	33
$3XL^{+}$ / $3XL^{max}$	up to 2.400	up to 58.000	38.200	39

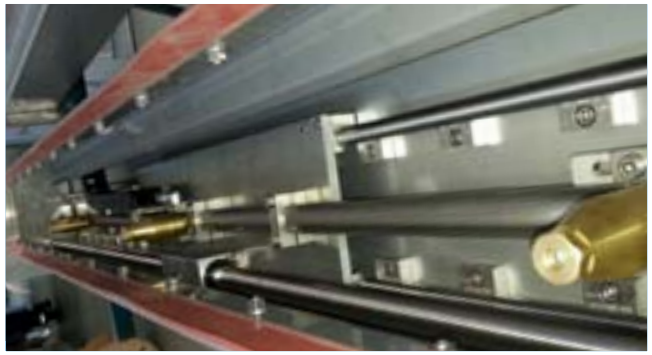
› NEWtainer® from 100 kW up to 2.500 kW
› re-mixing unit and/or separation



Equipment







Polyester mesh belt

› downward airflow optimises drying efficiency

Turning device

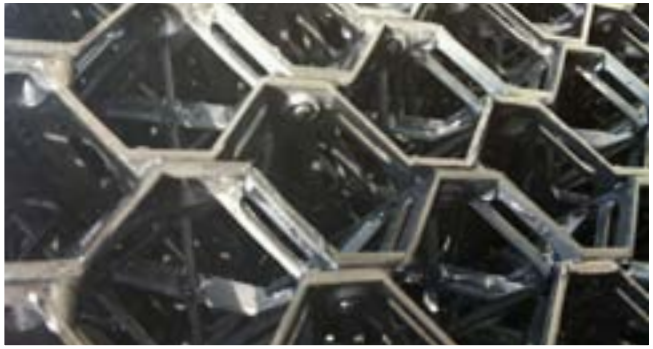
› increased efficiency by breaking up the product

Belt cleaning system

› reduced energy consumption and increased serviceintervall

CHP exhaust gas

› harnessing CHP exhaust gas to increase the drying temperature for greater efficiency and throughput



Air scrubber

Single or multi stage **NEWcleaner** exhaust air scrubbers conform to EU regulation emission standards.

The cleaning water is sprayed over the filter to guarantee a high separation efficiency.

Bernd S. Niedersachsen
One of more than 300 owners
(As at 02/2016) of a NEWtainer®belt dryer

Link to the movie
https://youtu.be/aImwShK7_TQ

"The big advantage is harnessing flue gas to dry up to 16 m³ digestate to 85% DS to make it easily transportable."

"Our NEWtainer® eliminates the need to dispose of wet material, producing instead a valuable dry product.
We have done everything right."

Otfried N. Baden-Württemberg
Operator of a NEWtainer® since 08/2012

Link to movie
https://youtu.be/QB15_LYtjJM

"I can use all of the waste heat while at the same time making the digestate transportable."

"For sure you have to maintain the dryer sometimes but this is minimal and my NEWtainer® has been running continuously and trouble-free ever since commissioning."

Andreas D. Niedersachsen
Operator of a NEWtainer® since 08/2014

"The exhaust gas of the CHP was the only available heat source for digestate drying, because we have no more hot water left."

Siegfried S. Baden-Württemberg
Operator of a NEWtainer® since 05/2016

Why NEW eco-tec?
"Because NEW eco-ec has the experience with digestate dryers and have a lot of references."

Why exhaust gas?
"Quite simple: because it's much more efficient than drying with hot water."

Made in Germany
Using the highest quality industrial components and engineering ensures reliable field performance.
Containerized construction allows assembly and full testing at our works prior to dispatch, guaranteeing more effective and trouble-free commissioning on site.

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All figures, dimensions and technical values in this leaflet are indicative only, depending on individual circumstances.

Link to our website
www.new-eco-tec.com

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