

**CLEANREX**  
**OUTSTANDING ORGANICS CLEANING**



# BENEFITS AT A GLANCE

EFFICIENT AND POWERFUL FOR THE BEST CLEANING RESULTS

Our CleanREX is a dynamic cyclone that thoroughly and efficiently cleans pre-treated organic manure and slurries from a wide range of different waste flows. The innovative system achieves peak outputs of up to 30t/h\* and a total solids percentage of >25%, depending on the model and parameters of the input material.

Thanks to the intelligent, robust design of the CleanREX, small foreign objects, such as plastic, foils and inert floating material, are reliably separated from the wet organic material. The discharged organic component

has a purity of >99% and enables the production of high-quality digestate. The reject component, consisting primarily of plastic, foils, wood and inert material, is clean enough to use for landfill. In addition, the maintenance work on the digester is permanently reduced.

In combination with other Anaergia Technologies pre-processing equipment such as the RIPTOR, PLATEO, KENTRO and OREX, the CleanREX shows off the full effect of its strengths and delivers perfect output material for your plant.

## EFFICIENT:

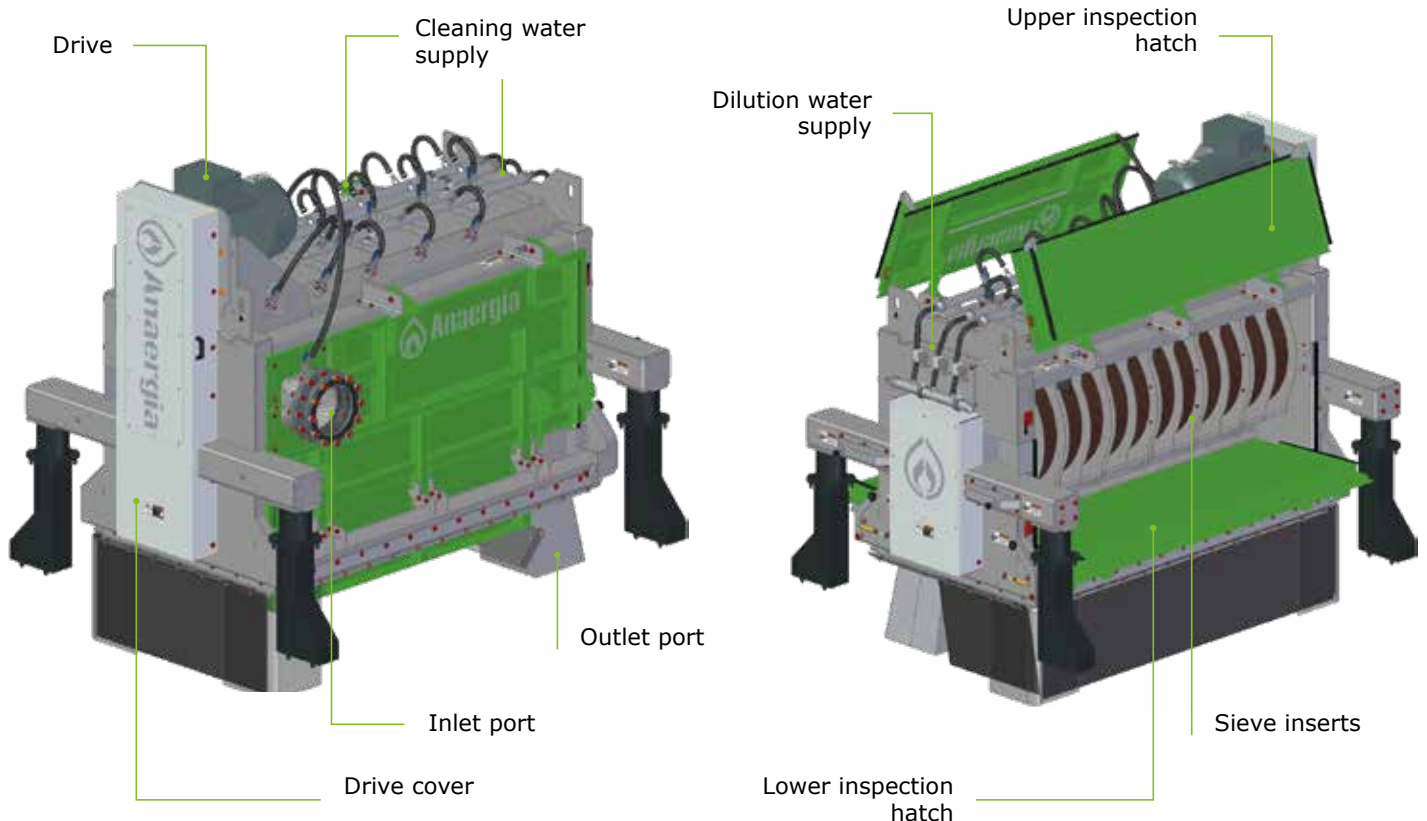
High-quality, frequency-controlled electric motors with V-belt drive; drive output of 37kW or 55kW (depending on the model)

## SAFE:

Optimal accessibility and maintenance via side inspection hatches and removable cover

## INTELLIGENT:

Control unit with intelligent safety functions actively prevents damage to the system



## POWERFUL:

Maximum speeds for the best separating results

## FLEXIBLE:

Simple adaptation of the machine parameters to the material and application

## ROBUST:

Rotor with wear-resistant Hardox paddles; interchangeable Hardox sieve inserts



# THE CLEANER

CLEAN. CLEANER. CLEANREX.

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The CleanREX cleans all damp, organic materials without compromise. Whether it is processing household waste, restaurant/kitchen waste or sludge, the CleanREX provides outstanding cleaning results and guaranteed smooth operation.

## MAXIMUM PURITY

- » Purity of >99% for floating material satisfies even the strictest composting requirements
- » Operation with total solids percentages of >25% and a low dilution requirement enables direct feed of the discharged organic material into the composting system or digester

## SAFE AND FLEXIBLE USE

- » Large selection of sieve inserts enables optimal adaptation to the widest range of material parameters for maximum purity
- » Simple adjustment of the speed with frequency regulation
- » Trouble-free expandability of the system, e.g. with the Mix-Tank for regulated loading

## WELL-CONSIDERED DESIGN

- » Balanced rotor with Hardox paddles and interchangeable Hardox sieve inserts for minimal wear
- » Easy replacement of the shaft without disassembly of the bearings
- » Integrated fan optimises the extraction of plastic, foils and fibrous material, and prevents odour development with optional recirculation of the air
- » Active cleaning of the sieve inserts with integrated sprinkler system for optimal organic material extraction; separation of floating material ensures not only the best quality of the organic material, but also significantly reduces the required maintenance of the digester
- » Main drive bearing outside of the machine for a longer service life and perfect accessibility; temperature sensors on the main bearings prevent damage to the machine

## LOW OPERATING AND MAINTENANCE COSTS

- » Low-wear and easy-to-operate machine with convenient access to all important components for significantly reduced maintenance and cleaning work
- » Low operating costs due to reduced wear and efficient drives

# THE INTELLIGENCE

## INNOVATIVE CONTROL UNIT FOR FULLY-AUTOMATIC, FAULT-FREE OPERATION

Safe operation of our machinery has absolute priority. Combined with maximum user-friendliness, our CleanREX is used in the widest range of applications.

Our control unit was developed in-house and enables precise monitoring and control of the installed drive. Thanks to an integrated frequency controller, the speeds of the rotor can be adapted perfectly to the material. That makes the CleanREX very flexible with respect to output, for both organic material extraction and purity.

A patented fan system for the main chamber of the machine also ensures optimal separation of flying foreign objects by means of extraction and permanently increases the purity of the outgoing organic material.

In combination with the load monitoring of the drive, the system controls the supply of the product automatically and ensures continuous material flow without faults and damage to the key operating components.

The side inspection hatches ensure safe access for easy cleaning and maintenance of the CleanREX. They are provided with safety switches so that opening is only possible when the rotor is at a standstill.

### A Great Team

The clever **Mix-Tank** is an optimal addition for the controlled loading of the CleanREX. With two horizontal screws arranged in a stacked configuration and an automatic water supply system, it ensures optimal mixture and perfect viscosity of the input material.

TECHNICAL DATA	CleanREX 1800/...	CleanREX 2500/...
	30	55
<b>Working width</b>	1800mm	2500mm
<b>Diameter</b> (rotor)	830mm	
<b>Length</b> (outside)	2620mm	3320mm
<b>Width</b> (outside)	2550mm	
<b>Installation height</b>	2660mm	
<b>Drive output</b>	37kW	55kW
<b>Output</b> (dry)	2.5t/h*	4.5t/h*
<b>Max. output</b> (dry)	3.5t/h*	6t/h*
<b>Output</b> (wet)	12.5t/h*	22.5t/h*
<b>Max. output</b> (wet)	17.5t/h*	30t/h*

\*All data in metric tons.

The capacity depends on the parameters of the material input and can vary accordingly.

# CLEANREX - EXAMPLE INSTALLATION

## ORGANICS CLEANING MADE EASY

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Our CleanREX is the optimal addition to your organic processing plant and, thanks to its compact installation dimensions, it can also be integrated into existing plants. As a post-processing stage for known organic material preparation technologies, our CleanREX ensures ideal separation of extraneous material from the liquid organic component and delivers top-quality fractions for combustion (reject) and composting or digestion (organic material).

With the accompanying control unit, the CleanREX can be adapted flexibly to the incoming material and ensure a continuous material flow in the plant. The CleanREX

can be integrated into the existing plant and communicate with the loading equipment via common network protocols. Fully-automatic and controlled material supply, therefore, is incredibly easy.

In combination with the Anaergia Technologies Mix-Tank for loading of the CleanREX, optimal mixture and viscosity of the material are achieved for even better separation results.

As a supplement to our RIPTOR and our OREX extrusion presses, the CleanREX demonstrates its strengths and provides the purest organic material fractions that stand up to even the highest demands of composting regulations.



## OUR ANAERGIA TECHNOLOGIES

We offer solutions for the following applications:

- » Pump Technology
- » Mixing Technology
- » Separation
- » Extrusion Technology
- » Screening & Sorting
- » Size Reduction
- » Organic Polishing
- » Conveyor Technology

**An ANAERGIA company:**

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