

# EUCOLino

The Compact Plug & Play Biogas Plant



## Biogas Production for Small Operations

The compact EUCOLino biogas plant uses organic waste to create energy through anaerobic digestion. It is ideal for any operation with a limited amount of biomass or small footprint, and has the unique ability to process a variety of feedstocks including but not limited to: manure, food waste and yard waste.

## Advantages at a Glance

- Easy installation and startup: EUCOLino is prefabricated, tested for safety and ready to operate upon delivery
- Small footprint (slightly larger than a shipping container)
- Flexible choice of feedstock
- Well-proven EUCO technology from Schmack Biogas, continuously improved since 1995, and manufactured with Viessmann quality
- High profitability through:
  - Low investment costs
  - Low costs for input materials
  - Energy recovery for commercial and residential buildings

## Low Investment Cost

EUCOLino is characterized by low investment costs and small space requirements due to its modular structure. With this system, generating biogas is economical for smaller operations through a combination of biogas production and intelligent concepts for generating heat and electricity for buildings, or to be sold back to the grid.

## Prefabricated and Simple

EUCOLino's prefabricated system is simple, flexible and can be easily integrated into already-established operations. The modular components can be combined according to specific needs and many combinations of input materials are possible. Depending on the availability of organic waste, different engine sizes can be used, ranging from 50 kW up to 100 kW. Because no two operations are identical, multiple system options are offered, as well as optional expansions.

## About BIOFerm™

BIOFerm™ Energy Systems is a member of the Viessmann Group, a \$2.5 billion family owned business since 1917. Viessmann has installed over 30 dry AD and 280 wet AD facilities through the biogas companies of the Viessmann Group. BIOFerm™ Energy Systems was founded in Madison, WI in 2007 and now offers all biogas technologies of the Viessmann Group.



## Optional Expansions

Feeder System



Horizontal Digester



AIO Mini



Final Storage



# EUCOline

## Power Comparisons of the Compact System

EUCOline	50 kW	64 kW	75 kW	100 kW
<b>Set-up examples<sup>1)</sup></b>				
<p>CHP</p> <p>Digester</p> <p>Feeder</p>	<p>Option 1</p> <p>Option 2</p>	<p>Option 1</p> <p>Option 2</p>	<p>Option 1</p> <p>Option 2</p>	<p>Option 1</p> <p>Option 2</p>
<b>Footprint Dimensions [ft]</b>				
L x W x H <sup>2)3)</sup>	112' x 26' x 20'	112' x 26' x 20'	112' x 26' x 20'	112' x 26' x 20'
<b>Digester</b>				
Digester Volume <sup>1)</sup>	Option 1 7,063 ft <sup>3</sup> (52,830 gal) Option 2 14,126 ft <sup>3</sup> (105,660 gal)	Option 1 7,063 ft <sup>3</sup> (52,830 gal) Option 2 14,126 ft <sup>3</sup> (105,660 gal)	Option 1 14,126 ft <sup>3</sup> (105,660 gal) Option 2 14,126 ft <sup>3</sup> (105,660 gal)	Option 1 14,126 ft <sup>3</sup> (105,660 gal) Option 2 14,126 ft <sup>3</sup> (105,660 gal)
<b>Combined Heat and Power Unit (CHP) and Control Room</b>				
Engine	MAN "filius 104" (50/70) <sup>4)</sup>	MAN "filius 204" (64/85) <sup>4)</sup>	MAN "filius R06" (75/89) <sup>4)</sup>	MAN "filius 106" (100/121) <sup>4)</sup>
Electrical efficiency	35.30 %	36.10 %	38.07 %	38.00 %
Thermal efficiency	49.80 %	48.00 %	45.18 %	45.80 %
<b>Optional Expansions</b>				
Feeding System, Macerator Pump, Gas Bag, Heat Extraction, and Separator				
<b>Feedstocks</b>				
EUCOline processes a variety of feedstocks including but not limited to: manure, food waste, slurry, renewable raw materials, etc.				

1) These are only examples; the combination of modules can be changed depending on input material, space availability, and retention time  
 2) Dimensions without optional expansions  
 3) Approximate installed values  
 4) kW electrical / kW thermal

\* All values shown are approximate and current as of date of printing

