

HKA 300 PRO - HIGH-PERFORMANCE BIOMASS POWER PLANT

The scalable complete solution from Re²

HKA 300 PRO

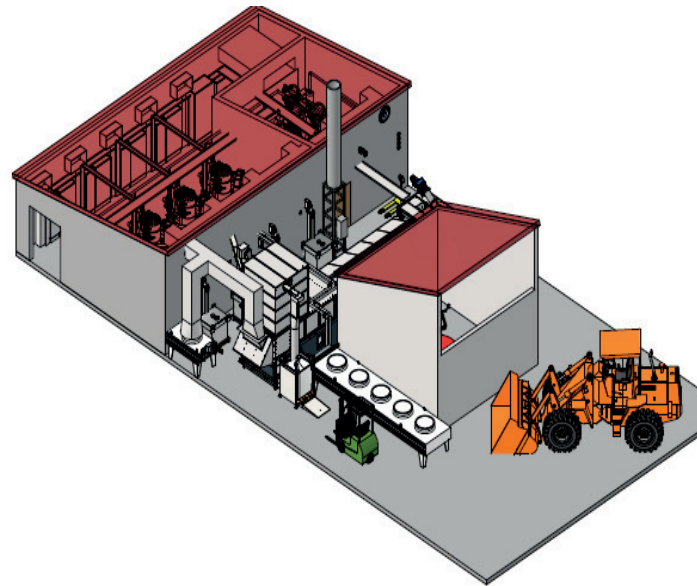
Energy on demand. Scalable to your needs!

The HKA 300 PRO is setting new standards in sustainable energy supply. As part of our complete, scalable energy solutions, it generates energy from biomass and residual materials on demand.

Thanks to its modular design, the HKA 300 PRO can easily be expanded to increase output. The system is extremely flexible: It can use various fuels and has excellent partial load capability, making it highly adaptable. Thanks to its robust construction and high-performance components, the HKA 300 PRO is the ideal solution for companies that want sustainable, cost-effective and future-proof energy while reducing their CO₂ emissions.

Target group

- Industrial companies
- Heating plants
- Sawmills
- (Spa) Hotels
- Large agricultural enterprises



ADVANTAGES OF HKA 300 PRO

- ✓ Scalable biomass power plant based on wood gas
- ✓ The complete energy solution includes a fuel dryer, conveying and discharge technology, a wood gasifier and a large CHP unit, as well as a control system.
- ✓ 24/7 energy supply
- ✓ Variable power adjustment
- ✓ Wide range of fuels that can be used
- ✓ CO₂-neutral
- ✓ Added value remains in the region
- ✓ Fast planning & project realisation
- ✓ Proven wood gas technology
- ✓ Resource-saving & highly efficient, also in combination with other renewable energies

TECHNICAL DATA HKA 300 PRO

Plant model	HKA 300 PRO
Electrical power	325 kW
Thermal output CHP and wood gasifier	479 kW
Fuel	Wood chips according to DIN ISO 17225-1, Size: P31S, fines content: F101), water content: M10, ash content: A1.0; Alternative operation with pellets EN Plus A1
Control system	Intelligent control technology with modern touch display
Planning freedom	Variable installation

1) The higher the proportion of fines, the more coal dust is discharged via the ash.

2) Fuel consumption depends on the quality and water content of the wood chips used.

Technical data status: 5/2025. In the event of deviations, the data in the technical data sheet shall apply. Errors and omissions excepted.



SCAN ME

Further information
about the HKA 300 PRO



HKA 300 PRO

POWERFUL, CLEAN, RELIABLE - WE ARE SETTING THE STANDARD FOR THE NEXT GENERATION OF COMBINED HEAT AND POWER PLANTS.

Technical data	HKA 300 PRO
Electrical power	325 kW
Thermal output	479 kW
Dimension	Depending on planning
Fuel	Natural wood chips according to DIN ISO 17225-1 (size: P31S, fines content: F101) , water content: M102), ash content: A1.0 Alternative operation with pellets EN Plus A1 is possible
Thermal efficiency	48,2 %
Electrical efficiency	32,7 %
Voltage / frequency	400 V AC, 50 Hz/60 Hz / 480 V AC, 60 Hz ⁴⁾

¹⁾ The higher the fine parts content is, the more coal dust will be discharged via the ash..

²⁾

$$\text{Water content in \%} = \frac{\text{wet weight of wood} - \text{dry weight of wood}}{\text{wet weight of wood}} * 100$$

$$\text{Wood moisture in \%} = \frac{\text{wet weight of wood} - \text{dry weight of wood}}{\text{dry weight of wood}} * 100$$

³⁾ Depending on the moisture content and the quality of the gasification material used.

⁴⁾ Depending on regional requirement of the power grid.

In case of deviations, the technical data sheet applies. Subject to technical and price changes, errors, typographical and printing errors excepted. Stand: 5/2025

AUTOMATIC FUEL DRYER FOR HKA 300 PRO

RE² FUEL DRYER (12SBT-4X) for high-performance biomass power systems or stand-alone use

Our new wood chip dryer is perfectly matched to the requirements of our large HKA 300 PRO systems, but can also be used as a stand-alone system, for example for contract drying.

- Fully automatic operation
- Highly efficient
- For multiple systems (from 4 gasifiers) or as a stand-alone system

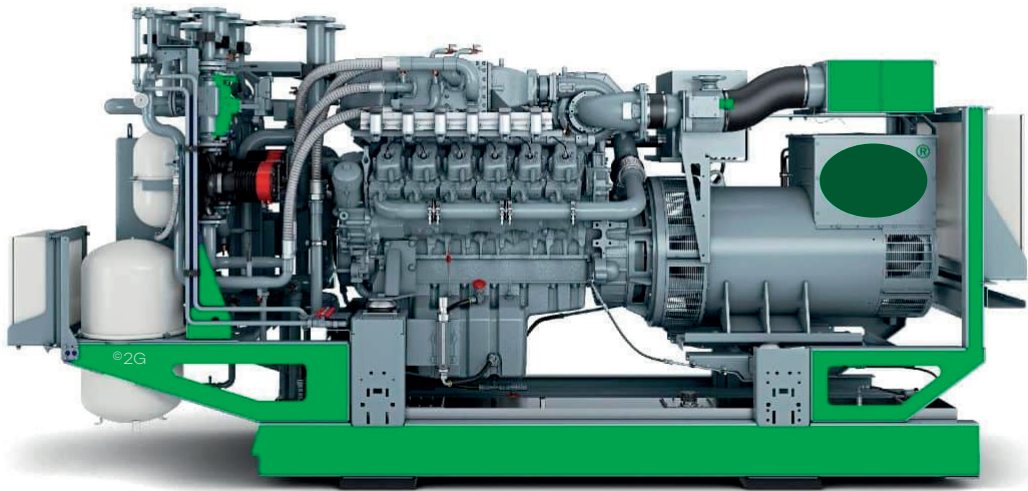
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HIGH-PERFORMANCE WOOD GAS CHP PLANT



INSTALLED WOOD GASIFIER UNITS



COMBINED HEAT AND POWER (CHP) - GRAPHIC



WOOD GASIFIER - GRAPHIC