

HEAT & POWER FROM WOOD

HARGASSNER CHP

HARGASSNER



NEW
2017



Heat & Power
FROM REGIONAL ENERGY



www.hargassner.com



Our vision is characterised by harmony between nature and satisfied customers.

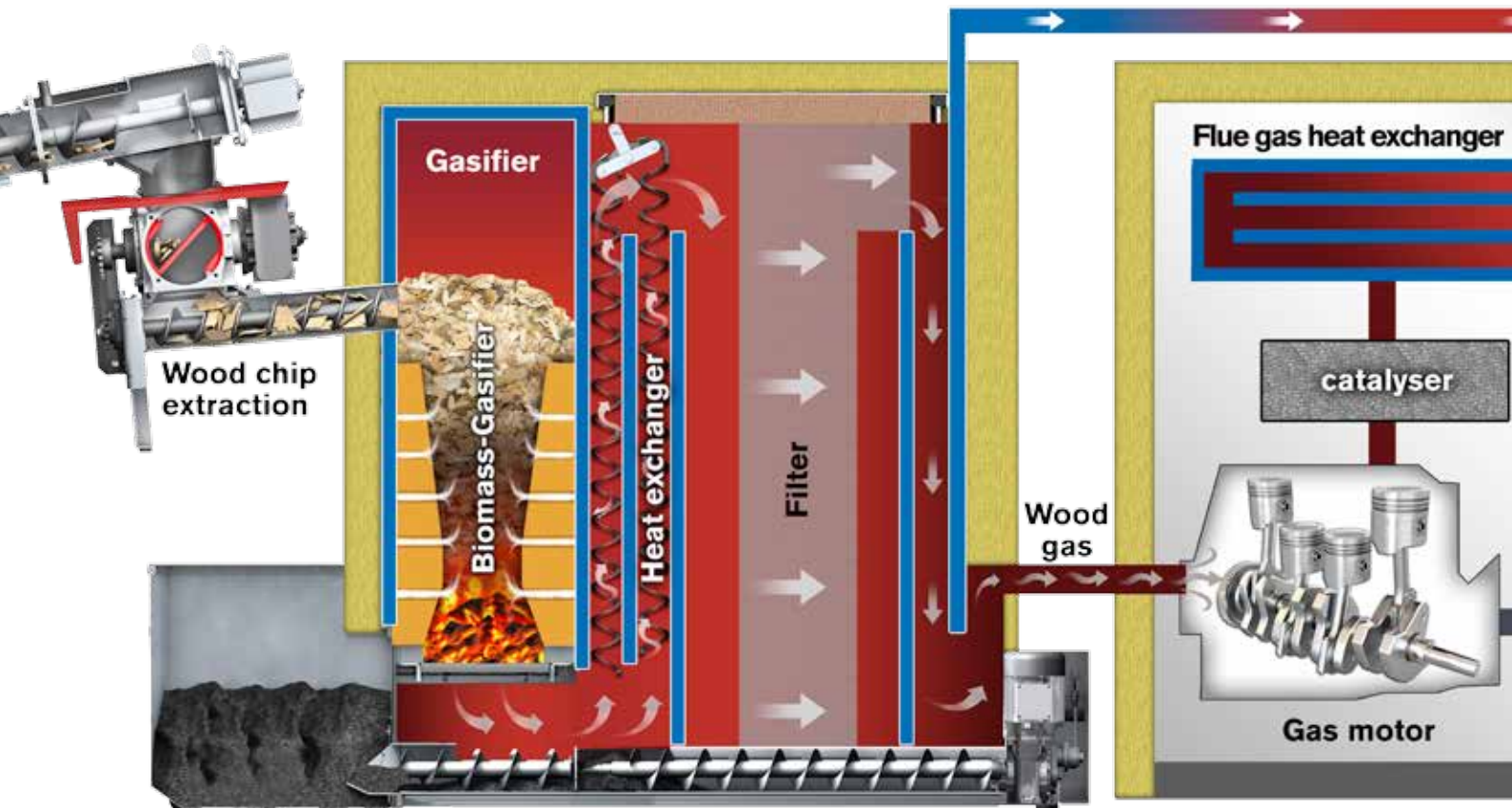
We are proud of 33 years of experience and more than 90,000 satisfied clients. This, however, is not a reason for us to sit back. Quite the opposite is the case. Customer satisfaction combined with environmental friendliness are the primary goals of our philosophy and are the main attributes, which determine the company's future direction. Lowest emissions by highest efficiency, maximum comfort and long lifetime characterise the brand HARGASSNER. Yet, we continue to improve elements of our products to launch even better products in the future. We continually invest in research and quality management.



Anton & Elisabeth Hargassner with sons Anton & Markus

Heat and Power from wood ...

Future energy supply is crucial and will be a huge challenge. In combination with other renewable energy such as Solar and Wind - high efficient cogeneration systems are important for a stable, safe and environmentally-friendly energy supply for generations to come. A small-scale, decentralised power unit is the perfect solution to reduce your long-term energy costs and to become independent of electricity prices in the future. With the CHP 60/20 - Hargassner provides a highly efficient small-scale solution for medium-scale applications. Especially for commercial enterprises, public buildings and district heating applications - Hargassners' CHP is the perfect solution to ensure environmentally-friendly energy.

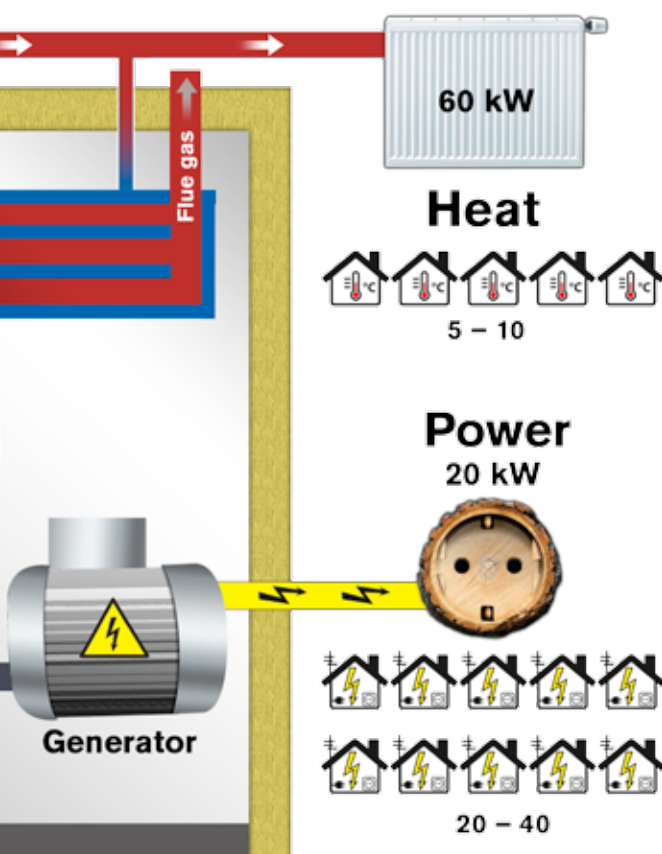


... from your region

Gasification-CHP-units feature a combined heat and power production technology - which is electrically highly efficient and suitable for a variety of applications where both heat and electricity is the aim. The advantages are tremendous, especially in winter months (when there is low water level and low solar radiation) - the amount of renewable power is vastly diminished. As a result the main power supply is allocated through imports from Coal and Gas power plants in this time. Therefore, power from decentralised Gasification-CHP's have the ability to supply energy to everyone of us and prevent energy imports.

Hargassner CHP advantages:

- Compact design of the plant very little space requirement
- Biomass-gasifier with filter unit and well-grounded control concept
- Time-tested and robust gas motor with very high efficiency
- Sophisticated heat use → over 90 % efficiency
- Full range: Wood-gasifier, heat exchanger, chip extraction system, power transformation, etc.
- If no room is available – an externally located Hargassner-Heat-Module can be used



Advantages for existing district heating suppliers

- The base load coverage in summer prevents inefficient part-load operation of the main boiler
- The power supply is another source of revenue for heat contractors.
- Very little increase in fuel needed for power cogeneration and additional performance increase

Requirements for a gasifier plant

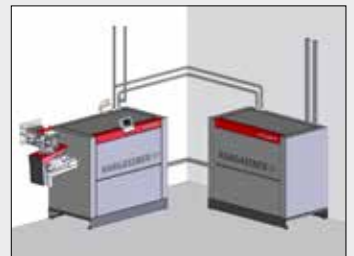
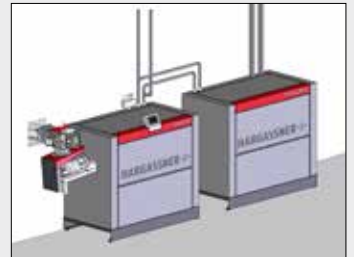
- Constant availability fuel supply of a stable quality and calculable price
- Assured power demand (Green power tariff, power self-supply, ...)
- Assured year-round heat demand (District heating, process heat) or at least 4000 hrs of operation
- Technical feasibility (Space, pre-drying, grid-access, ...)
- Well-versed technical staff

Reliable - Sustainable - Independent - Efficient

References:



Installation examples:



TECHNICAL DETAILS CHP		
Electrical power	kW	20
Thermal power	kW	60
Total efficiency	%	90
Wood-chip consumption at 5000 operation hours	m ³	ca. 500
Wood chip quality	acc. standard	P31S – P45S, A1, M10-M15
Flow/Return	°C	85 / 65
Gasifier dimensions	mm (L x W x H)	1600 x 740 x 1400
Dimensions CHP	mm (L x W x H)	1500 x 860 x 1400

Depending on mode of operation and fuel quality

**Only 2.5 m²
space
requirement**

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