

Biogas CHP Container Units

* up to 1,364kW_{el.} incl. „all-in-one“ facilities for CHP: gas cooler, analysis, booster, flare, control system

** up to 362kW_{el.} incl. complete „all in one“ facilities for CHP and biogas plant



above: The HAASE „Energy Center“ container unit also encloses gas cooler, analysis, booster, flare, and the CHP control system.



above: The HAASE „Biogas Center“ container unit furthermore encloses all components for the distribution of heat and substrate as well as the control system for the CHP and the complete biogas plant.

Model	Output			Efficiency ratio			Dimensions L x W x H (m) Container
	electr. kW	therm. kW	primary kW	electr. %	therm. %	total %	
HET-GBC 170**	170	210	450	37.8	46.7	84.5	6 x 2.5 x 2.6
HET-GBC 190**	190	225	493	38.5	55.6	84.1	6 x 2.5 x 2.6
HET-GBC 251**	251	299	657	38.5	45.5	83.7	12 x 2.5 x 2.6
HET-GBC 362**	362	435	946	38.3	56.0	84.3	12 x 2.5 x 2.6
HET-GBC 469*	469	574	1282	36.6	44.8	81.4	12 x 3.0 x 2.8
HET-GBC 537*	537	495	1341	40.0	36.9	76.9	12 x 3.0 x 2.8
HET-GBC 537 B*	537	452	1309	41.0	34.5	75.5	12 x 3.0 x 2.8
HET-GBC 626*	626	774	1711	36.6	45.2	81.8	12 x 3.0 x 2.8
HET-GBC 716*	716	663	1777	40.3	37.3	77.6	12 x 3.0 x 2.8
HET-GBC 716 B*	716	605	1735	41.3	34.9	76.2	12 x 3.0 x 2.8
HET-GBC 943*	943	1088	2454	38.4	44.3	82,7	12 x 3.2 x 2.9
HET-GBC 1021*	1021	1016	2489	41.0	40.8	81.8	12 x 3.2 x 2.9
HET-GBC 1260*	1260	1447	3274	38.5	44.2	82.7	12 x 3.2 x 2.9
HET-GBC 1364*	1364	1362	3329	41.0	40.9	81.9	12 x 3.2 x 2.9
HET-GBC 1703	1703	1688	4158	41.0	40.6	81.6	12 x 3.2 x 2.9

HAASE Energietechnik AG

Gadelander Strasse 172

D-24531 Neumuenster, Germany

Phone +49 (4321) 878-0

Fax +49 (4321) 878-29

eMail: info@haase-energietechnik.de

www.haase-energietechnik.de

Biogas CHP container units are fully fitted and ready for operation. They only need to be connected on site.

All output ratings according to DIN ISO 3046/1. Different ambient temperature and higher location may cause adjustment to output.

Thermal output includes heat from engine cooling water and exhaust heat from cooling down to 180°C. Tolerance on thermal output is +/- 8%.

Electric output rated at cos phi = 1.0

Output ratings apply to biogas (65% CH₄, remaining CO₂) and landfill gas (50% CH₄, 27% CO₂, remaining N₂). Engine manufacturer's emission limits to be observed. Gas purging may be necessary.

Limit for nitrogen oxides NO_x is 500mg/m³ for all engine models, acc. to TA-Luft guidelines.

The container dimensions of HAASE CHP units are ultralarge in height and width to enable comfortable operation and service.

Certified acc. to § 19 I WHG
and DIN EN ISO 9001 : 2000