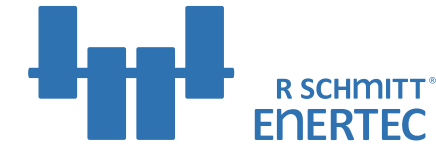


EnerPro GmbH
Siemensstr. 13
56743 Mendig, Germany
(+49) 2652 93 518 10
(+49) 2652 93 518 22
info@rschmitt-enertec.com
www.rschmitt-enertec.com



Plug-and-Play Gas Engines & CHP Systems

From Germany



40+ years of energy innovations

R Schmitt Enertec (RSE) is a prominent global gas engine manufacturer originated in Germany. RSE provides compact and highly efficient units for distributed power generation, power plants, and Combined Heat and Power (CHP) installations. Serving customers in over 40 countries, RSE has established itself as a trusted name in the industry, delivering innovative solutions for diverse energy needs.

1,400+

gas engines, CHP and power
generation units installed worldwide

200+ MW

total installed capacity

Enertec

Power through any gas

Gas engines

- 6-, 8- and 12-cylinder V-engines
- 11.3 / 15.1 / 22.6 dm³ displacement
- Turbocharged lean burn engines
- 7.4-18.5 bar BMEP
- Fuel options: natural gas, biogas, LPG, syngas, flare gas

Generator sets

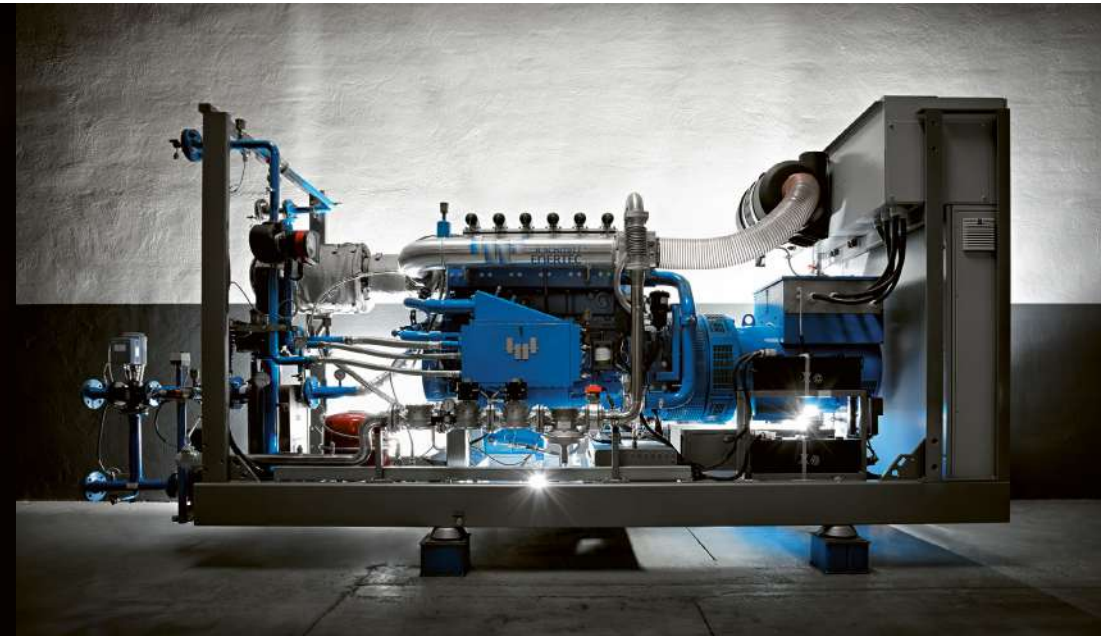
- Electric power range of 115-500 kW
- Electrical efficiency of up to 42.7%
- Remote radiator
- Fuel options: natural gas, biogas, wood gas, LPG, flare gas

Cogenerators

- Electric power range of 115-500 kW
- Thermal power range of 165-657 kW
- Electrical efficiency of up to 42.7%
- Overall efficiency of up to 91.6%
- Compact design
- Low noise of <70 dB(A)
- Fuel options: natural gas, LNG, biogas, wood gas, LPG, syngas, flare gas

Aftermarket

- Exchange parts for engines, cylinder heads and turbochargers



Gas engine know how

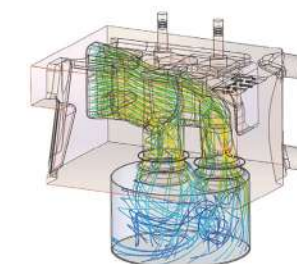
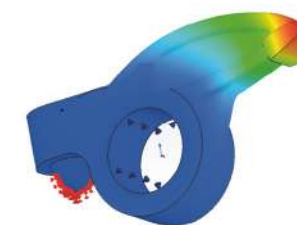
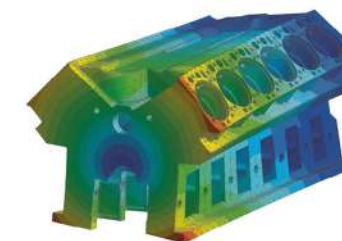
R Schmitt Enertec has over 40 years of experience in engine construction. The current **ENERGIN** gas engine generation stems from ongoing advancements by our R&D department. A dedicated team of skilled mechanical and software engineers collaborates closely to optimize and expand our engine series.

// Focused expertise

Exclusively specialized in developing and optimizing gas engines for stationary applications

// Advanced testing environment

Extensive tests on specialized benches using state-of-the-art simulation tools like CFD or FEM



Worldwide recognition

ENERGIN units are operated globally and across various applications. Proven in highly industrial areas like Japan as well as under harsh conditions of developing countries like India.

40+ countries

business footprint

- Australia

Austria

Bangladesh

Belgium

Bulgaria

Czech Republic

Chile

China

Colombia

Croatia

Cyprus

Egypt

England
- France

Germany

Hungary

India

Iraq

Ireland

Israel

Italy

Jamaica

Japan

Lithuania

Malaysia

Nigeria
- Northern Ireland

Pakistan

Palestine

Poland

Puerto Rico

Romania

Russia

Saudi Arabia

Serbia

Slovenia

Slovakia

South Africa

South Korea

Spain

Turkey

UAE

UK

USA



Sydney, Australia
2 x 260 kW CHP to supply the Olympic swimming pool



Frechen, Germany
140 kW CHP in an educational institute



Handewitt, Germany
400 kW CHP in a Biogas plant with gas cleaning system



Majdan, Serbia
5 x 500 kW fully containerized power plant

Premier customers

Exact German quality

We manufacture all our products at our own facility in Mendig, Germany. In-house production allows us maximum flexibility with full responsibility towards our customers.

This all starts from the cutting of raw steel, the welding of the base frames, the production of exhaust gas heat exchangers and the CNC machining of engine components. The control part including its programming is a key technology we also manage in-house.

// Commitment to Excellence

ISO 9001 certified company

// Thorough pre-shipment testing

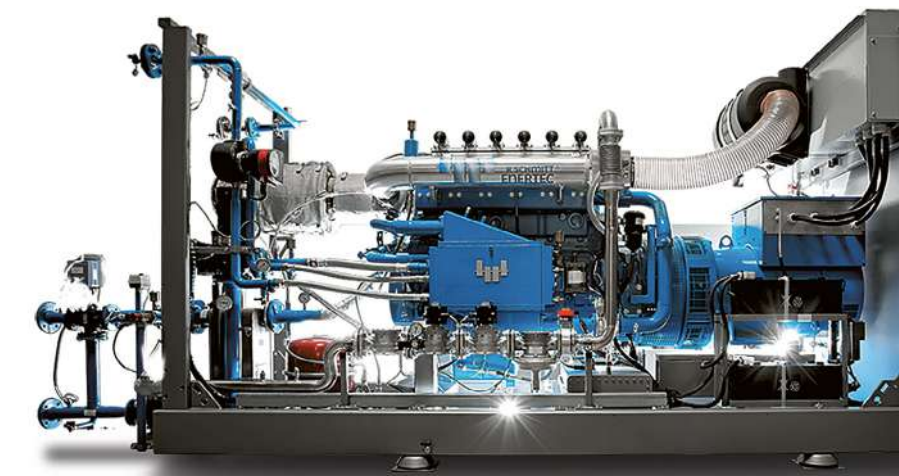
for every engine, CHP, or GEN

// Plug-n-play

fast and easy installation on site

// Safe & eco-friendly solutions

to ensure sustainable and efficient power generation





Service

Reliable Support from Day One

- Fast-response service **hub in Germany**
- **Certified partners** worldwide
- **Remote diagnostics** via phone or Internet
- **In-house spare parts** always available
- **Training** for operators and technicians

All Types of Service

- // Scheduled maintenance
- // Repairs and overhauls
- // Emergency assistance
- // System monitoring and data analysis

Remote Diagnostics

Expert help just a click away – no waiting for a site visit. All you need: Internet, VPN/TeamViewer, and access to the system.

- // Reset alarms
- // Adjust parameters
- // Update software
- // Assist with operator errors
- // Pre-diagnose issues before dispatch

In-House Spare Parts

80% of all parts are made in-house – including engine blocks, control units, and housings.

- // Smart demand planning based on service data
- // Critical components always in stock
- // Short and reliable lead times

Training Programs for Every Skill Level

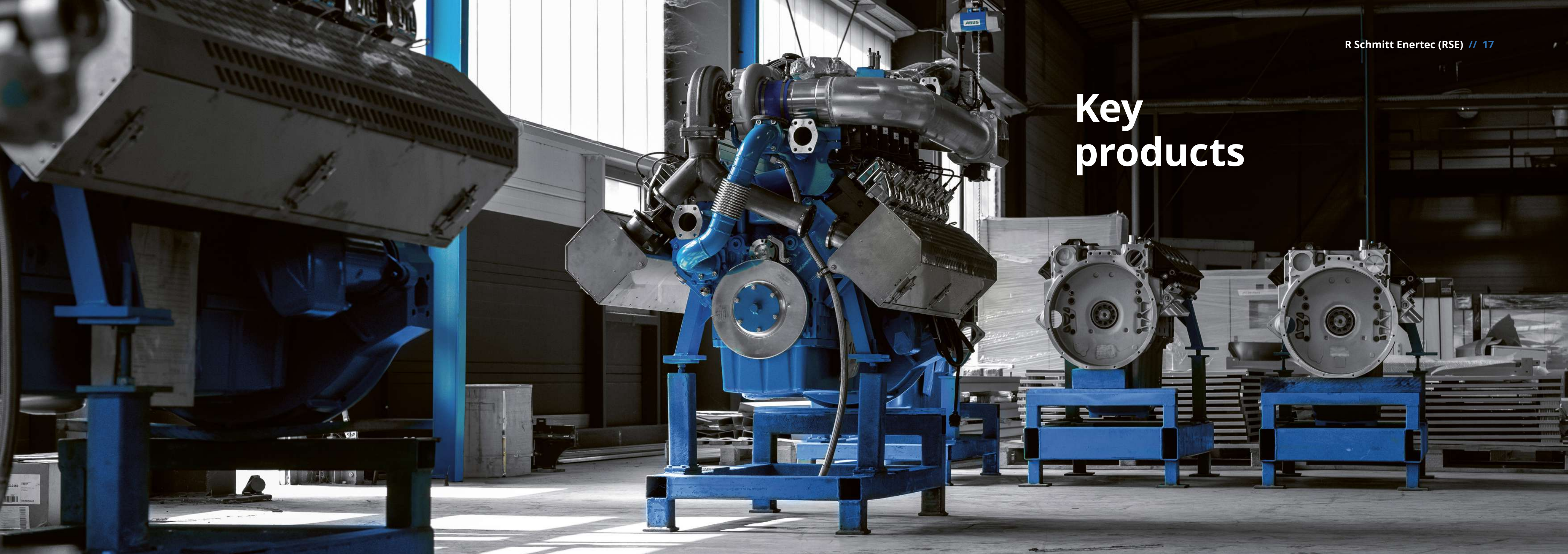
- // **Basic training** – for equipment operators
- // **Advanced training** – for skilled technicians
- // **Certification** – for official service partners

Duration: 2–5 days

Theory: Function, safety, control systems

Practice: Troubleshooting, maintenance, repair

Key products



ENERGIN® GEN sets

Our **ENERGIN® GEN** sets are highly efficient power generators, capable of operating in both island and mains parallel modes. Designed for ease of installation and space efficiency, they come with essential components – gas engine generator, circulation pumps, and control cabinet – pre-mounted on a single frame.

Powered by our in-house M-series engines, these units run on a variety of gases, including natural gas, biogas, LPG, wood gas, and flare gas. With advanced 4-valve technology, they offer outstanding fuel efficiency.



Can be equipped with an external steam boiler to transfer the exhaust heat



An optional soundproof enclosure reduces noise to under 70 dB(A) at 1 meter



The GEN sets focus purely on generating electricity, with high electrical efficiency. For applications requiring heat utilization, we recommend considering our **ENERGIN® GEN+** or **CHP** units, which offer heat recovery solutions.

115-500 kW

Electric power

Up to 42.7%

Electrical efficiency

optional
installation in
container



Generator Sets

ENERGIN® GEN 60 Hz

	ENERGIN® type	Engine type	Electrical power	Electrical efficiency
natural gas	GEN G150/60 Hz	M06-GT0D41	150 kW	37,0 %
	GEN G210/60 Hz	M06-GTID41	210 kW	39,5 %
	GEN G250/60 Hz	M06-GT2D41	250 kW	40,3 %
	GEN G280/60 Hz	M08-GTID41	280 kW	39,5 %
	GEN G333/60 Hz	M08-GT2D41	333 kW	40,4 %
	GEN G420/60 Hz	M12-GTID41	420 kW	39,6 %
biogas	GEN G500/60 Hz	M12-GT2D41	500 kW	40,5 %
	GEN B150/60 Hz	M06-BT0D41	150 kW	37,8 %
	GEN B210/60 Hz	M06-BTID41	210 kW	40,2 %
	GEN B250/60 Hz	M06-BT2D41	250 kW	41,1 %
	GEN B280/60 Hz	M08-BTID41	280 kW	40,2 %
	GEN B333/60 Hz	M08-BT2D41	333 kW	41,2 %
LPG	GEN B420/60 Hz	M12-BTID41	420 kW	40,4 %
	GEN B500/60 Hz	M12-BT2D41	500 kW	41,2 %
	GEN P130/60 Hz	M06-PT0D41	130 kW	31,0 %
	GEN P173/60 Hz	M06-PTID41	173 kW	33,5 %
	GEN P205/60 Hz	M06-PT2D41	205 kW	34,3 %
	GEN P233/60 Hz	M08-PTID41	233 kW	33,5 %
woodgas	GEN P260/60 Hz	M08-PT2D41	260 kW	34,3 %
	GEN P350/60 Hz	M12-PTID41	350 kW	33,6 %
	GEN P450/60 Hz	M12-PT2D41	450 kW	34,5 %
	GEN H140/60 Hz	M06-HT2D41	140 kW	33,3 %
	GEN H180/60 Hz	M08-HT2D41	180 kW	33,4 %
	GEN H275/60 Hz	M12-HT2D41	275 kW	33,5 %

Engine specification			
Bore [mm]	130		
Stroke [mm]	142		
Speed [min ⁻¹]	1.800		
Mean piston speed [m/s]	8.5		
Applicable gas types	G = natural gas B = biogas P = propane and other high calorific gases H = woodgas and other low calorific gases		
Aspiration	T = turbocharged		
Mixture cooling	0 = none 1 = internal 2 = double stage internal / external		
Exhaust manifolds	D = dry, insulated		
ENERGIN® type	M06	M08	M12
No. of cylinders / configuration	6 in V90°	8 in V90°	12 in V90°
Displacement [dm³]	11,3	15,1	22,6

GEN Basic scope of supply

4-stroke gas engine coupled with double bearing alternator, mounted on common frame	●
Sound attenuating enclosure with air ventilation, mounted on common frame	○
Remote radiator for jacket water, lube oil and if applicable 1 st and 2 nd stage mixture cooling	○
ENERSCREEN® control system with 12" touch panel for engine, alternator and auxiliaries, set mounted in switchboard, with synchronizing and alternator protection functions	●
Generator circuit breaker, set mounted in switchboard	●
Lube oil system designed for long oil change intervals	●
Electric pre-lubrication pump with changeover valve	●
Exhaust silencer in single or two-stage design, supplied loose	○

● included ○ as an option

Generator Sets

ENERGIN® GEN 50 Hz

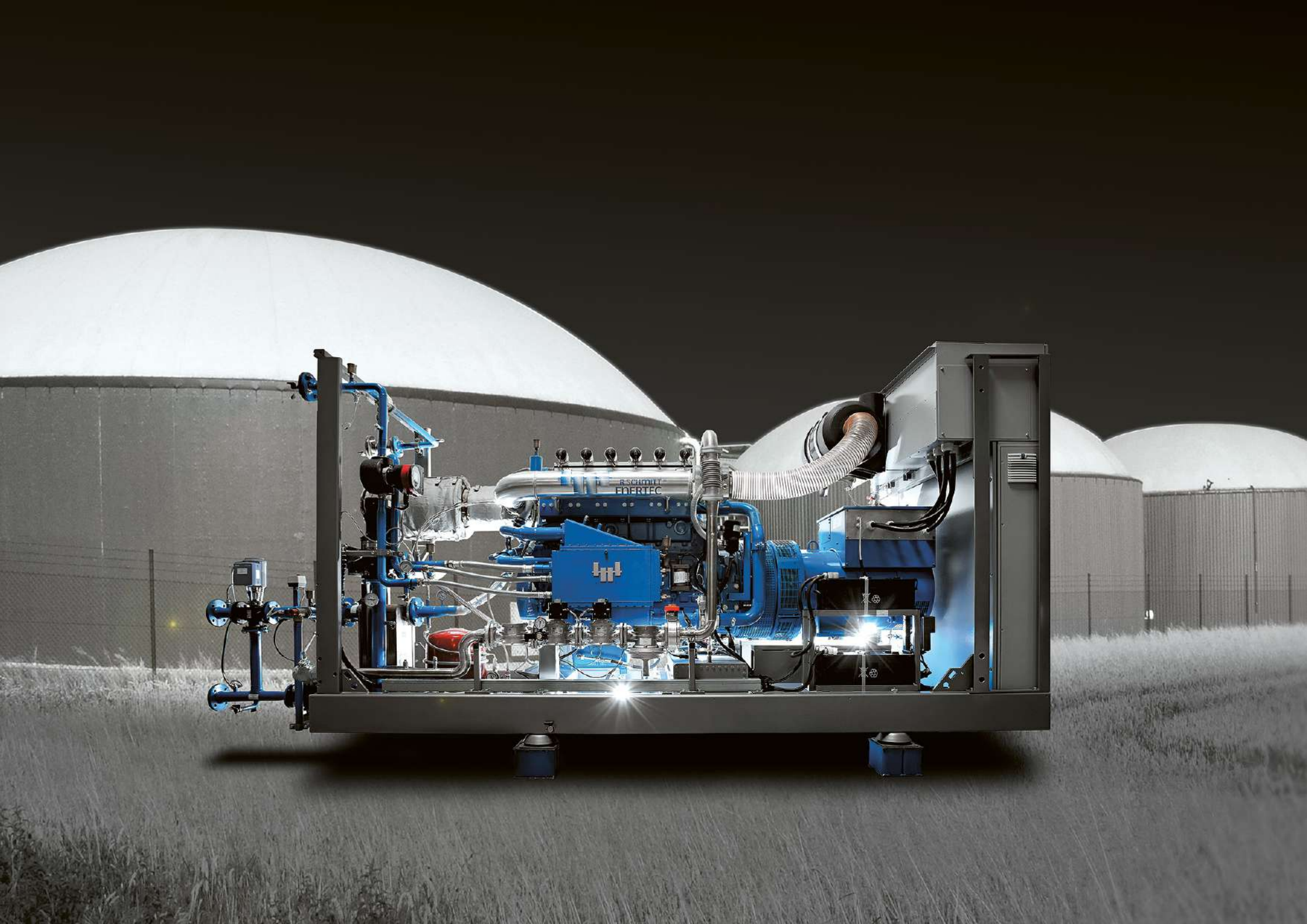
	ENERGIN® type	Engine type	Electrical power	Electrical efficiency
natural gas	M06 GEN G140	M06-GT0D41	140 kW	38,6 %
	M06 GEN G200	M06-GTID41	200 kW	41,0 %
	M06 GEN G250	M06-GT2D41	250 kW	41,8 %
	M08 GEN G260	M08-GTID41	260 kW	41,0 %
	M08 GEN G333	M08-GT2D41	333 kW	41,9 %
	M12 GEN G400	M12-GTID41	400 kW	41,1 %
biogas	M12 GEN G500	M12-GT2D41	500 kW	42,1 %
	M06 GEN B140	M06-BT0D41	140 kW	39,3 %
	M06 GEN B200	M06-BTID41	200 kW	41,8 %
	M06 GEN B250	M06-BT2D41	250 kW	42,6 %
	M08 GEN B260	M08-BTID41	260 kW	41,7 %
	M08 GEN B333	M08-BT2D41	333 kW	42,6 %
LPG	M12 GEN B400	M12-BTID41	400 kW	41,9 %
	M12 GEN B500	M12-BT2D41	500 kW	42,7 %
	M06 GEN P115	M06-PT0D41	115 kW	30,7 %
	M06 GEN P173	M06-PTID41	173 kW	34,9 %
	M06 GEN P205	M06-PT2D41	205 kW	35,8 %
	M08 GEN P233	M08-PTID41	233 kW	35,0 %
woodgas	M08 GEN P260	M08-PT2D41	260 kW	35,9 %
	M12 GEN P350	M12-PTID41	350 kW	35,1 %
	M12 GEN P450	M12-PT2D41	450 kW	36,0 %
	M06 GEN H122	M06-HT2D41	122 kW	34,8 %
	M08 GEN H166	M08-HT2D41	166 kW	34,9 %
	M12 GEN H250	M12-HT2D41	250 kW	35,0 %

Engine specification			
Bore [mm]	130		
Stroke [mm]	142		
Speed [min ⁻¹]	1.500		
Mean piston speed [m/s]	7.1		
Applicable gas types	G = natural gas B = biogas P = propane and other high calorific gases H = woodgas and other low calorific gases		
Aspiration	T = turbocharged		
Mixture cooling	0 = none 1 = internal 2 = double stage internal / external		
Exhaust manifolds	D = dry, insulated		
ENERGIN® type	M06	M08	M12
No. of cylinders / configuration	6 in V90°	8 in V90°	12 in V90°
Displacement [dm³]	11,3	15,1	22,6

GEN Basic scope of supply

4-stroke gas engine coupled with double bearing alternator, mounted on common frame	●
Sound attenuating enclosure with air ventilation, mounted on common frame	○
Remote radiator for jacket water, lube oil and if applicable 1 st and 2 nd stage mixture cooling	○
ENERSCREEN® control system with 12" touch panel for engine, alternator and auxiliaries, set mounted in switchboard, with synchronizing and alternator protection functions	●
Generator circuit breaker, set mounted in switchboard	●
Lube oil system designed for long oil change intervals	●
Electric pre-lubrication pump with changeover valve	●
Exhaust silencer in single or two-stage design, supplied loose	○

● included ○ as an option



ENERGIN® GEN+

These units share the same compact design and efficient power generation capabilities as the **ENERGIN® GEN sets**. They run on various gases, including natural gas, biogas, LPG, wood gas, and flare gas. They also come with the same ease of installation and factory-mounted components, including the gas engine, heat exchanger, pumps, and control cabinet. However, the **GEN+ units** offer the additional advantage of heat recovery from the jacket water.

While they match the **GEN** in electrical efficiency, they also provide notable thermal energy recovery, reducing total energy losses to just under 30%. This makes them an excellent middle-ground solution for applications that require both electricity and some heat output.



Can be equipped with an external steam boiler to transfer the exhaust heat



An optional soundproof enclosure reduces noise to under 70 dB(A) at 1 meter



Perfect choice for applications with moderate heat demands

115-500 kW

Electric power

Up to 70.2%

Overall efficiency

Generators Sets with Heat Recovery

ENERGIN® GEN+ 60 Hz

	ENERGIN® type	Engine type	Electrical power	Electrical efficiency	Thermal power	Overall efficiency
natural gas	GEN+ G150/60 Hz	M06-GT0D41	150 kW	37,0%	127 kW	68,4%
	GEN+ G210/60 Hz	M06-GTID41	210 kW	39,5%	149 kW	67,5%
	GEN+ G250/60 Hz	M06-GT2D41	250 kW	40,3%	145 kW	63,7%
	GEN+ G280/60 Hz	M08-GTID41	280 kW	39,5%	200 kW	67,7%
	GEN+ G333/60 Hz	M08-GT2D41	333 kW	40,4%	194 kW	63,9%
	GEN+ G420/60 Hz	M12-GTID41	420 kW	39,6%	300 kW	67,9%
biogas	GEN+ G500/60 Hz	M12-GT2D41	500 kW	40,5%	285 kW	63,6%
	GEN+ B150/60 Hz	M06-BT0D41	150 kW	37,8%	112 kW	66,0%
	GEN+ B210/60 Hz	M06-BTID41	210 kW	40,2%	134 kW	65,9%
	GEN+ B250/60 Hz	M06-BT2D41	250 kW	41,1%	130 kW	62,5%
	GEN+ B280/60 Hz	M08-BTID41	280 kW	40,2%	180 kW	66,1%
	GEN+ B333/60 Hz	M08-BT2D41	333 kW	41,2%	175 kW	62,8%
LPG	GEN+ B420/60 Hz	M12-BTID41	420 kW	40,4%	270 kW	66,4%
	GEN+ B500/60 Hz	M12-BT2D41	500 kW	41,2%	258 kW	62,5%
	GEN+ P130/60 Hz	M06-PT0D41	130 kW	31,0%	161 kW	69,4%
	GEN+ P173/60 Hz	M06-PTID41	173 kW	33,5%	184 kW	69,1%
	GEN+ P205/60 Hz	M06-PT2D41	205 kW	34,3%	189 kW	65,9%
	GEN+ P233/60 Hz	M08-PTID41	233 kW	33,5%	248 kW	69,1%
woodgas	GEN+ P260/60 Hz	M08-PT2D41	260 kW	34,3%	241 kW	66,1%
	GEN+ P350/60 Hz	M12-PTID41	350 kW	33,6%	374 kW	69,5%
	GEN+ P450/60 Hz	M12-PT2D41	450 kW	34,5%	407 kW	65,7%
	GEN+ H140/60 Hz	M06-HT0D41	140 kW	33,3%	125 kW	63,0%
	GEN+ H180/60 Hz	M08-HT2D41	180 kW	33,4%	160 kW	63,1%
	GEN+ H275/60 Hz	M12-HT2D41	275 kW	33,5%	249 kW	63,8%

Engine specification			
Bore [mm]	130		
Stroke [mm]	142		
Speed [min ⁻¹]	1.800		
Mean piston speed [m/s]	8.5		
Applicable gas types	G = natural gas B = biogas P = propane and other high calorific gases H = woodgas and other low calorific gases		
Aspiration	T = turbocharged		
Mixture cooling	0 = none 1 = internal 2 = double stage internal / external		
Exhaust manifolds	D = dry, insulated		
ENERGIN® type	M06	M08	M12
No. of cylinders / configuration	6 in V90°	8 in V90°	12 in V90°
Displacement [dm³]	11,3	15,1	22,6

GEN+ 60 Hz Basic scope of supply

4-stroke gas engine coupled with double bearing alternator, mounted on common frame	●
Sound attenuating enclosure with air ventilation, mounted on common frame	○
Heat recovery from jacket water, lube oil and if applicable 1 st stage mixture cooling	●
Remote radiator for 2 nd stage (if applicable)	○
Remote radiator for jacket water, lube oil and if applicable 1 st and 2 nd stage mixture cooling	○
ENERSCREEN® control system with 12” touch panel for engine, alternator and auxiliaries, set mounted in switchboard, with synchronizing and alternator protection functions	●
Generator circuit breaker, set mounted in switchboard	●
Lube oil system designed for long oil change intervals	●
Electric pre-lubrication pump with changeover valve	●
Exhaust silencer in single or two-stage design, supplied loose	○

● included ○ as an option

Generators Sets with Heat Recovery

ENERGIN® GEN+ 50 Hz

	ENERGIN® type	Engine type	Electrical power	Electrical efficiency	Thermal power	Overall efficiency
natural gas	M06 GEN+ G140	M06-GT0D41	140 kW	38,6%	111 kW	69,2%
	M06 GEN+ G200	M06-GTID41	200 kW	41,0%	131 kW	67,8%
	M06 GEN+ G250	M06-GT2D41	250 kW	41,8%	128 kW	63,2%
	M08 GEN+ G260	M08-GTID41	260 kW	41,0%	173 kW	68,3%
	M08 GEN+ G333	M08-GT2D41	333 kW	41,9%	174 kW	63,8%
	M12 GEN+ G400	M12-GTID41	400 kW	41,1%	264 kW	68,2%
biogas	M12 GEN+ G500	M12-GT2D41	500 kW	42,1%	255 kW	63,6%
	M06 GEN+ B140	M06-BT0D41	140 kW	39,3%	98 kW	66,8%
	M06 GEN+ B200	M06-BTID41	200 kW	41,8%	120 kW	66,9%
	M06 GEN+ B250	M06-BT2D41	250 kW	42,6%	120 kW	63,0%
	M08 GEN+ B260	M08-BTID41	260 kW	41,7%	159 kW	67,2%
	M08 GEN+ B333	M08-BT2D41	333 kW	42,6%	162 kW	63,3%
LPG	M12 GEN+ B400	M12-BTID41	400 kW	41,9%	241 kW	67,1%
	M12 GEN+ B500	M12-BT2D41	500 kW	42,7%	241 kW	63,3%
	M06 GEN+ P115	M06-PT0D41	115 kW	30,7%	148 kW	70,2%
	M06 GEN+ P173	M06-PTID41	173 kW	34,9%	171 kW	69,4%
	M06 GEN+ P205	M06-PT2D41	205 kW	35,8%	174 kW	66,2%
	M08 GEN+ P233	M08-PTID41	233 kW	35,0%	233 kW	70,0%
woodgas	M08 GEN+ P260	M08-PT2D41	260 kW	35,9%	224 kW	66,8%
	M12 GEN+ P350	M12-PTID41	350 kW	35,1%	348 kW	70,0%
	M12 GEN+ P450	M12-PT2D41	450 kW	36,0%	376 kW	66,1%
	M06 GEN+ H122	M06-HT0D41	122 kW	34,8%	102 kW	63,9%
	M08 GEN+ H166	M08-HT2D41	166 kW	34,9%	140 kW	64,3%
	M12 GEN+ H250	M12-HT2D41	250 kW	35,0%	208 kW	64,1%

Engine specification			
Bore [mm]	130		
Stroke [mm]	142		
Speed [min ⁻¹]	1.500		
Mean piston speed [m/s]	7.1		
Applicable gas types	G = natural gas B = biogas P = propane and other high calorific gases H = woodgas and other low calorific gases		
Aspiration	T = turbocharged		
Mixture cooling	0 = none 1 = internal 2 = double stage internal / external		
Exhaust manifolds	D = dry, insulated		
ENERGIN® type	M06	M08	M12
No. of cylinders / configuration	6 in V90°	8 in V90°	12 in V90°
Displacement [dm³]	11,3	15,1	22,6

GEN+ Basic scope of supply

4-stroke gas engine coupled with double bearing alternator, mounted on common frame	●
Sound attenuating enclosure with air ventilation, mounted on common frame	○
Heat recovery from jacket water, lube oil and if applicable 1 st stage mixture cooling	●
Remote radiator for 2 nd stage (if applicable)	○
Remote radiator for jacket water, lube oil and if applicable 1 st and 2 nd stage mixture cooling	○
ENERSCREEN® control system with 12” touch panel for engine, alternator and auxiliaries, set mounted in switchboard, with synchronizing and alternator protection functions	●
Generator circuit breaker, set mounted in switchboard	●
Lube oil system designed for long oil change intervals	●
Electric pre-lubrication pump with changeover valve	●
Exhaust silencer in single or two-stage design, supplied loose	○

● included ○ as an option

ENERGIN® CHP units

Our **ENERGIN® CHP units** are compact cogeneration plants that excel in heat recovery from both jacket water and exhaust gases. With GEN-level electrical efficiency, these CHP units recover high amounts of thermal energy, reducing overall energy losses to just over 8%. This makes them ideal for applications requiring significant amounts of both power and heat.

Their modular design allows for easy, space-efficient installation with pre-mounted components like the gas engine, heat exchangers, circulation pumps, and control cabinet on a common frame.

Our in-house M-series gas engines, designed for multiple gases including natural gas, biogas, LPG, wood gas, and flare gas, feature advanced 4-valve technology for optimal efficiency.



An optional soundproof enclosure reduces noise to under 70 dB(A) at 1 meter



Ideal for customers with substantial heat demands

115-500 kW

Electric power

Up to 91.6%

Overall efficiency



Combined Heat and Power Units

ENERGIN® CHP 60 Hz

	ENERGIN® type	Engine type	Electrical power	Electrical efficiency	Thermal power	Overall efficiency
natural gas	CHP G150/60 Hz	M06-GT0D41	150 kW	37,0%	215 kW	90,1%
	CHP G210/60 Hz	M06-GT1D41	210 kW	39,5%	272 kW	90,6%
	CHP G250/60 Hz	M06-GT2D41	250 kW	40,3%	294 kW	87,7%
	CHP G280/60 Hz	M08-GT1D41	280 kW	39,5%	364 kW	90,8%
	CHP G333/60 Hz	M08-GT2D41	333 kW	40,4%	393 kW	88,0%
	CHP G420/60 Hz	M12-GT1D41	420 kW	39,6%	546 kW	91,1%
biogas	CHP G500/60 Hz	M12-GT2D41	500 kW	40,5%	584 kW	87,8%
	CHP B150/60 Hz	M06-BT0D41	150 kW	37,8%	192 kW	86,2%
	CHP B210/60 Hz	M06-BT1D41	210 kW	40,2%	242 kW	86,6%
	CHP B250/60 Hz	M06-BT2D41	250 kW	41,1%	258 kW	83,5%
	CHP B280/60 Hz	M08-BT1D41	280 kW	40,2%	324 kW	86,8%
	CHP B333/60 Hz	M08-BT2D41	333 kW	41,2%	345 kW	83,8%
LPG	CHP B420/60 Hz	M12-BT1D41	420 kW	40,4%	485 kW	87,0%
	CHP B500/60 Hz	M12-BT2D41	500 kW	41,2%	513 kW	83,5%
	CHP P130/60 Hz	M06-PT0D41	130 kW	31,0%	250 kW	90,7%
	CHP P173/60 Hz	M06-PT1D41	173 kW	33,5%	298 kW	91,1%
	CHP P205/60 Hz	M06-PT2D41	205 kW	34,3%	325 kW	88,6%
	CHP P233/60 Hz	M08-PT1D41	233 kW	33,5%	402 kW	91,3%
woodgas	CHP P260/60 Hz	M08-PT2D41	260 kW	34,3%	411 kW	88,6%
	CHP P350/60 Hz	M12-PT1D41	350 kW	33,6%	604 kW	91,6%
	CHP P450/60 Hz	M12-PT2D41	450 kW	34,5%	708 kW	88,8%
	CHP H140/60 Hz	M06-HT2D41	140 kW	33,3%	226 kW	87,0%
	CHP H180/60 Hz	M08-HT2D41	180 kW	33,4%	289 kW	87,0%
	CHP H275/60 Hz	M12-HT2D41	275 kW	33,5%	446 kW	87,8%

Engine specification			
Bore [mm]	130		
Stroke [mm]	142		
Speed [min ⁻¹]	1.800		
Mean piston speed [m/s]	8.5		
Applicable gas types	G = natural gas B = biogas P = propane and other high calorific gases H = woodgas and other low calorific gases		
Aspiration	T = turbocharged		
Mixture cooling	0 = none 1 = internal 2 = double stage internal / external		
Exhaust manifolds	D = dry, insulated		
ENERGIN® type	M06	M08	M12
No. of cylinders / configuration	6 in V90°	8 in V90°	12 in V90°
Displacement [dm³]	11,3	15,1	22,6

CHP Basic scope of supply

4-stroke gas engine coupled with double bearing alternator, mounted on common frame	●		
Sound attenuating enclosure with air ventilation, mounted on common frame	○		
Heat recovery from jacket water, lube oil, exhaust and if applicable 1st stage mixture cooling	●		
Cooling of exhaust to 120 °C for natural gas, wood gas or LPG and 180 °C for biogas applications	●		
Remote radiator for jacket water, lube oil, exhaust and if applicable 1st stage mixture cooling	○		
ENERSCREEN® control system with 12" touch panel for engine, alternator and auxiliaries, set mounted in switchboard, with synchronizing and alternator protection functions	●		
Generator circuit breaker, set mounted in switchboard	●	Remote radiator for 2nd stage (if applicable)	○
Lube oil system designed for long oil change intervals	●	Primary exhaust silencer, set mounted	●
Electric pre-lubrication pump with changeover valve	●	Secondary exhaust silencer, supplied loose	○

● included ○ as an option

Combined Heat and Power Units

ENERGIN® CHP 50 Hz

	ENERGIN® type	Engine type	Electrical power	Electrical efficiency	Thermal power	Overall efficiency
natural gas	M06 CHP G140	M06-GT0D41	140 kW	38,6%	187 kW	90,1%
	M06 CHP G200	M06-GT1D41	200 kW	41,0%	241 kW	90,4%
	M06 CHP G250	M06-GT2D41	250 kW	41,8%	272 kW	87,3%
	M08 CHP G260	M08-GT1D41	260 kW	41,0%	315 kW	90,7%
	M08 CHP G333	M08-GT2D41	333 kW	41,9%	364 kW	87,7%
	M12 CHP G400	M12-GT1D41	400 kW	41,1%	483 kW	90,7%
biogas	M12 CHP G500	M12-GT2D41	500 kW	42,1%	539 kW	87,5%
	M06 CHP B140	M06-BT0D41	140 kW	39,3%	165 kW	85,6%
	M06 CHP B200	M06-BT1D41	200 kW	41,8%	213 kW	86,3%
	M06 CHP B250	M06-BT2D41	250 kW	42,6%	238 kW	83,1%
	M08 CHP B260	M08-BT1D41	260 kW	41,7%	280 kW	86,6%
	M08 CHP B333	M08-BT2D41	333 kW	42,6%	320 kW	83,6%
LPG	M12 CHP B400	M12-BT1D41	400 kW	41,9%	427 kW	86,6%
	M12 CHP B500	M12-BT2D41	500 kW	42,7%	477 kW	83,5%
	M06 CHP P115	M06-PT0D41	115 kW	30,7%	225 kW	90,7%
	M06 CHP P173	M06-PT1D41	173 kW	34,9%	277 kW	90,9%
	M06 CHP P205	M06-PT2D41	205 kW	35,8%	301 kW	88,3%
	M08 CHP P233	M08-PT1D41	233 kW	35,0%	375 kW	91,3%
woodgas	M08 CHP P260	M08-PT2D41	260 kW	35,9%	382 kW	88,6%
	M12 CHP P350	M12-PT1D41	350 kW	35,1%	561 kW	91,4%
	M12 CHP P450	M12-PT2D41	450 kW	36,0%	657 kW	88,5%
	M06 CHP H122	M06-HT2D41	122 kW	34,8%	122 kW	86,7%
	M08 CHP H166	M08-HT2D41	166 kW	34,9%	166 kW	87,0%
	M12 CHP H250	M12-HT2D41	250 kW	35,0%	250 kW	86,9%

Engine specification			
Bore [mm]	130		
Stroke [mm]	142		
Speed [min ⁻¹]	1.500		
Mean piston speed [m/s]	7.1		
Applicable gas types	G = natural gas B = biogas P = propane and other high calorific gases H = woodgas and other low calorific gases		
Aspiration	T = turbocharged		
Mixture cooling	0 = none 1 = internal 2 = double stage internal / external		
Exhaust manifolds	D = dry, insulated		
ENERGIN® type	M06	M08	M12
No. of cylinders / configuration	6 in V90°	8 in V90°	12 in V90°
Displacement [dm³]	11,3	15,1	22,6

CHP Basic scope of supply

4-stroke gas engine coupled with double bearing alternator, mounted on common frame	●		
Sound attenuating enclosure with air ventilation, mounted on common frame	○		
Heat recovery from jacket water, lube oil, exhaust and if applicable 1st stage mixture cooling	●		
Cooling of exhaust to 120 °C for natural gas, wood gas or LPG and 180 °C for biogas applications	●		
Remote radiator for jacket water, lube oil, exhaust and if applicable 1st stage mixture cooling	○		
ENERSCREEN® control system with 12" touch panel for engine, alternator and auxiliaries, set mounted in switchboard, with synchronizing and alternator protection functions	●		
Generator circuit breaker, set mounted in switchboard	●	Remote radiator for 2nd stage (if applicable)	○
Lube oil system designed for long oil change intervals	●	Primary exhaust silencer, set mounted	●
Electric pre-lubrication pump with changeover valve	●	Secondary exhaust silencer, supplied loose	○

● included ○ as an option



Committed to Performance