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A-TRON 20

CHP module



The compact A-TRON 20 cogen module, equipped with a modern electronic industrial Volkswagen gas engine, guarantees easy handling and low maintenance costs.

The construction of the cogeneration system with a water-cooled asynchronous generator, an engine cooling water and a condensing exhaust gas heat exchanger allows a maximum heat production combined with high electrical performance.

These features guarantee the best possible energy efficiency and investment protection for the customer!

Forget old-fashioned control systems: Our ATROMATIC plant controller reads information from the CAN based engine control unit and displays all together with the module information in plain text on the graphical screen. The data is transmitted to a central server via Internet (LAN or GPRS) and the GreenGuard fleet management software offers a comfortable access from your home PC.

Options required?

We offer a reactive power compensation, heating water temperature control, gas metering, gas leakage test routine, boiler management, emergency cooling and connectivity to upper control systems including complete system integration and planning support.



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Technical data A-TRON 20

Engine:	Volkswagen gas-industrial engine, fully electronic, 4 cyl. 2l displacement
Nominal speed:	approx. 1.520rpm
Fuel:	Natural gas, liquid gas, biogas or sewage gas, depending on chp type
Oil supply:	Automatic oil refill and oil-change functionality
Generator:	Asynchronous water-cooled, 4-pole, 3 x 400V, 40A
Power:	5 – 20kW _{el}
Temperatures:	
Inlet flow:	max. 90°C
Return flow:	min. 30°C, max. 70°C
Exhaust:	approx. 10K above the return flow temperature (approx. 40°C – 80°C)
Dimensions:	1300x800x1300mm (LxBxH)
Weight:	approx. 630kg
Noise level:	< 50 dB(A) at 1m distance

Control Unit: The microprocessor based ATROMATIC control unit offers a graphic display, multi language support, CAN connection to the engine ECU and an integrated Lambda control. The unit supports a power control range from 5-20kW_{el} and allows heat-controlled operation (modulation). ATROMATIC allows remote monitoring and provides historical data records enabling diagnostics in the event of a fault or status change. The unit also provides automatic error and status reporting via SMS and e-mail.

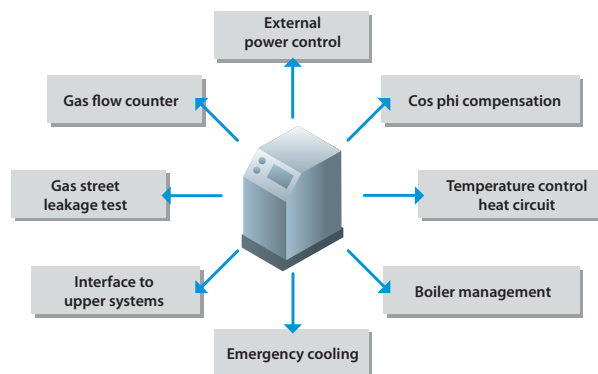
Performance and efficiencies:

Nominal power:	20kW _{el} @ cosphi 0.7-1.0, 40kW _{th}
Efficiency:	electrical: 32% thermal: 65% total: 97%
Gas flow:	26 – 62kW _{H_u}
Emission:	referring to German emission regulations NOX <250mg/Nm ³ CO <300mg/Nm ³

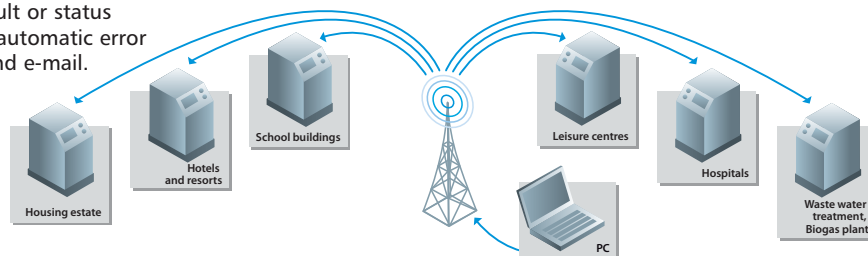
Standard conditions:	Air pressure: 1013.25mbar
	Air temperature: 25°C
	Air humidity rel: 30%

The technical data is based on standard conditions according to ISO 3046-1 (DIN6271) with a tolerance of + / - 5% of what is specified and natural gas fuel.

The following optional packages are available:



Remote access via web server GreenGuard:



PARTNER



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Features and specifications are subject to change without prior notice