

Highly compact power plant

New CHP complete module Loganova EN20 simplifies installation even in small rooms

Combined heat and power
plant Loganova EN20
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The efficient generation of power and heat is a key characteristic of natural gas-fired combined heat and power plants (CHP). The CHP complete module Loganova EN20 from Buderus is a small power plant rated for 20 kW of electrical output and 38 kW of thermal output.

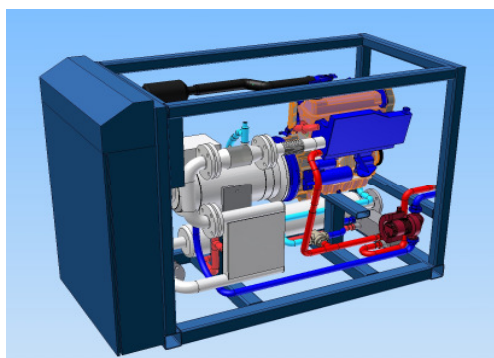
The heart of the CHP is a commercial industry gas engine. This low-maintenance unit is directly coupled to the water-cooled, non-wearing asynchronous generator. The stable, torsion-free frame with closed base plate is suitable even for less-than-ideal installation sites. The design of the system is focused on easy installation and maintenance: it is 750 mm wide, 1800 mm deep and 1200 mm high and weighs only 700 kg.

One prominent characteristic of the complete module Loganova EN20 is the compact flue gas heat transmission concept which enables a very space-saving design. Thanks to the integrated condensing technology, there is no need to increase the return flow temperature. The outlet temperature is controlled by a speed-induced circulating pump.

The new complete module with three-way catalyst technology and Lambda control has particularly low emissions. It is equipped with a closed cooling water circuit with integrated safety technology and pressure maintenance as well as a plate-type heat exchanger for system separation. The complete encapsulation of the module and

the decoupling elements make for low-noise operation – the medium noise level from the complete module is below 55 dB (A). The noise insulating hoods consist of easily removable elements – a particular advantage for service and maintenance.

The clear structure based on standard components and only a few wearing parts has several advantages including low operating costs and high system efficiency. While general maintenance is required every 4000 operating hours, intervals for a full engine overhaul are approximately 40,000 operating hours. In day-to-day operation the graphics-enabled control unit provides a user-friendly display of all important parameters and functions.



Caption:

The CHP complete module Buderus Loganova EN20 owes its particularly space-saving design to a compact flue gas heat transmission concept.

Source: Buderus

For lists of manufacturers:

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