

PB+CO[®]mpressor TGA 210 UND TGA 130

COMPRESSED AIR + HEAT – A STRONG PAIR THANKS TO COGENERATION

Technical Data

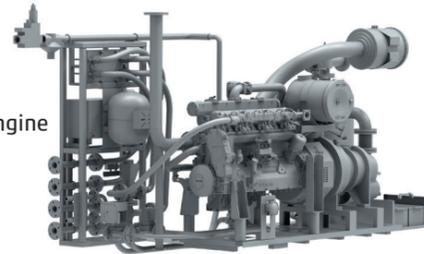
PB+CO [®] mpressor	TGA 210	TGA 130
Engine	6-cylinder industrial gas engine	6-cylinder industrial gas engine
Fuel	Natural gas	Natural gas
Gas input	approx. 480 kW	approx. 340 kW
Compressor	Screw compressor, oil-injection	Screw compressor, oil-injection
Nominal delivery rate	35,6 m ³ /min 33,3 m ³ /min 29,1 m ³ /min	21,6 m ³ /min 19 m ³ /min 16,6 m ³ /min
Nominal pressure	7 bar 8 bar 10 bar	8 bar 10 bar 12 bar
Thermal output	approx. 250 kW + optional heat exchanger 140 kW	approx. 183 kW + optional heat exchanger 99 kW
Temperature level hot water (return / forward flow)	max. 70 / max. 90 °C (+ optional heat exchanger max. 100 °C)	70 / 90 °C (max. 130 °C) (+ optional heat exchanger max. 100 °C)
Dimensions L x W x H	4.000 x 1.900 x 2.260 mm	4.000 x 1.900 x 2.260 mm
Weight	4.000 kg	3.850 kg

Valid from 04.18. All rights and changes reserved.

Protect resources, protect the climate, protect your budget – in one draft of air

YOUR BENEFITS

- + Up to **60 % cheaper generation** of compressed air and heat through gas engine
- + Compressed air generation **independent** of electricity rate and changing legal conditions (e.g. Cogeneration Protection Law KWKG)
- + High-efficiency machine with **efficiency level of up to 95 %**
- + **Transparent compressed air generation** thanks to Postberg + Co. measuring technology in moist compressed air
- + Environment-friendly – up to **50 % less CO₂ emissions** than electrical compressors
- + **Cogeneration technology** – high heat recovery efficiency thanks to **high flow temperatures** (90 up to 100°C)
- + **Compatible** with all common compressor controls
- + **Modular design** also as container
- + **Made in Germany** – developed and manufactured in Frankfurt
- + **Service directly from the manufacturer**
- + Funding and operation by means of **contracting and leasing** through our cooperation partners



**UP TO 60 % CHEAPER
COGENERATION**

Save half of the costs.

Ensure availability.

Increase quality.



Postberg + Co. GmbH
T: +49(0)561.5063 09-70 | F: -71
info@postberg.com

www.postberg.com
www.pbcompressor.com
Emilienstr. 37, 34121 Kassel



PB+CO[®]mpressor

TGA 210 130

Combined Heat and Air
generation plant (CHA)



COMPRESSED AIR AT ITS BEST

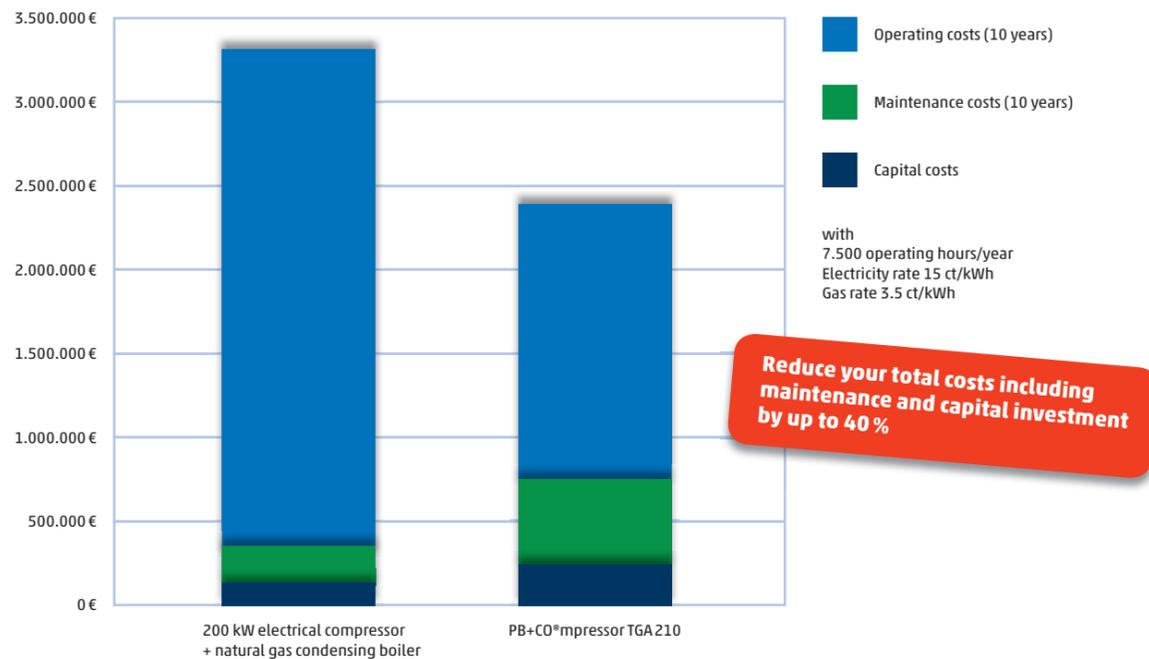
PB+CO®mpressor TGA 210 UND TGA 130

– THE SOLUTION FOR ECONOMIC COMPRESSED AIR GENERATION

As efficiency specialist in the field of compressed air, **Postberg + Co.** presents the air cogenerator **TGA 210** and **TGA 130** as innovative, highly efficient and consequently environment-friendly compressor that can **reduce the operating costs of compressed air generation by up to 60%**.

The system is highly efficient due to the use of a gas-operated combustion engine with the parallel utilization of the waste heat generated during compressed air production. As a result, the overall costs (including maintenance and capital costs) can be reduced by up to 40 %.

Cost comparison – efficiency expressed in figures



Application examples of the PB+CO®mpressor family

The **PB+CO®mpressors HWV 20, TGA 210** and **TGA 130** can be applied in all cases where **compressed air and heat** are needed and have to be generated in a **multi-shift operation**. The air cogenerators are applied, for example, in the following industries.

- + PLASTICS PROCESSING**
Heat is required for heating the injection moulds and there is a general compressed air requirement which may account for up to 10% of the operating electricity costs.
- + ELECTROPLATING**
Heat requirement for electrolyte bath and high compressed air requirement for subsequent metal processing.

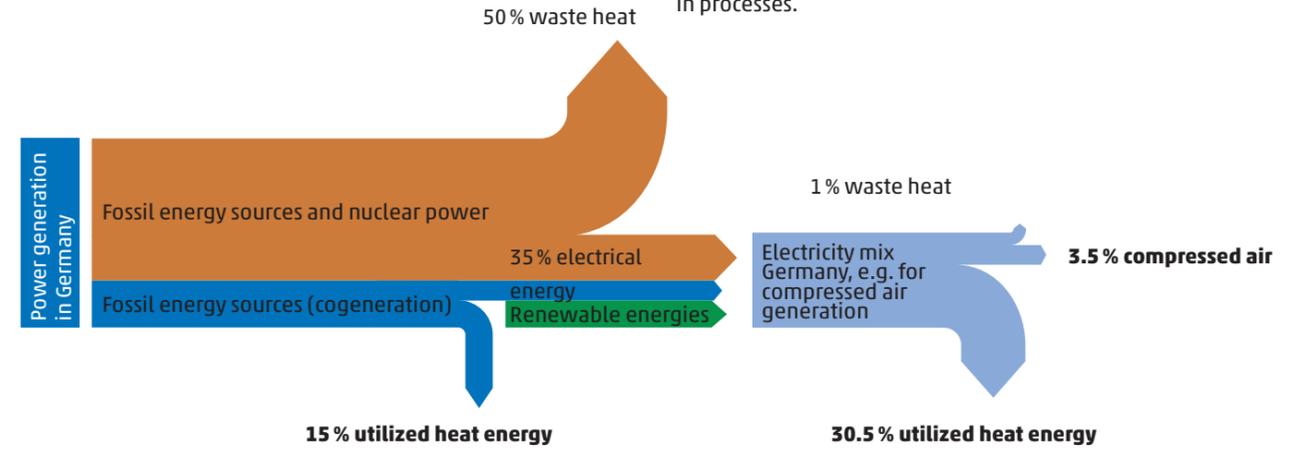
- + PAPER PRODUCTION**
Heat requirement for the production of paper and generally high compressed air requirement for further processing to paper rolls or multi-layer cardboard.
- + FOOD INDUSTRY**
Washing and rinsing of fittings and vessels (e.g. bottles and milking systems) as well as compressed air requirement for handling technology.

Compressed air generation – finally efficient

Conventional compressed air production

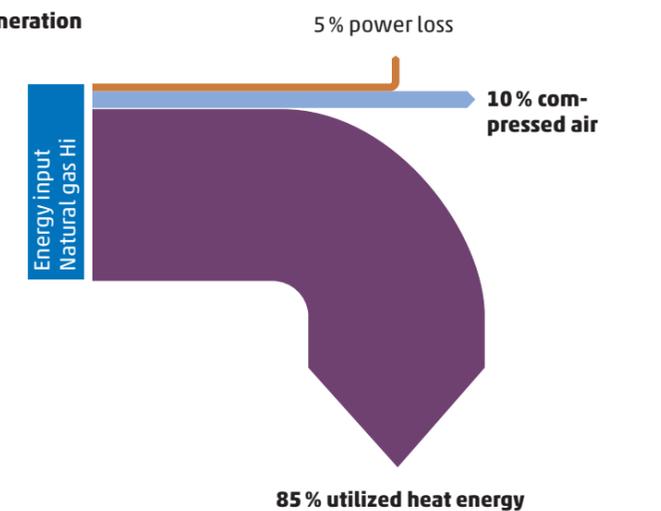
Compressed air is one of the most expensive energy carriers of our time. In practice, only approx. 3.5% of the primary energy used is converted to compressed air.

Already during compressed air generation, a large portion – approx. 50% – is lost as waste heat. In addition, the waste heat from the compressors that can be utilized has an insufficient temperature level (max. 70°C) so that it cannot be employed in processes.

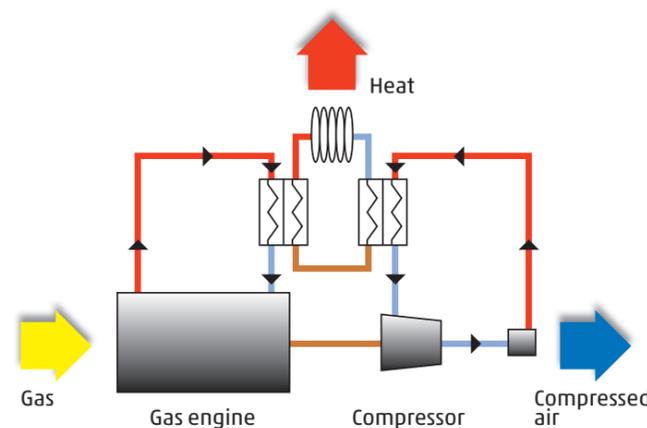


Compressed air generation through combined power-heat generation

This is different in the case of air cogenerators. Here, natural gas as the primary energy source is used to 95%. The major portion is converted to heat (up to 85%) and the other portion to compressed air (approx. 10%). This so-called power-heat cogeneration process relieves the environment as the energy input for compressed air generation is significantly lower than in electrical compressors.



Maximum energy output through double heat extraction and direct coupling of gas engine and compressor



PB+CO®mpressor – the original CHA on the german market – developed, produced and projected by high-efficiency specialists in cogeneration.

Derived in 2010 from a funding project of the **DBU German Foundation for Environment**, the **PB+CO®mpressors TGA 210, TGA 130** and **HWV 20** are today produced in series by our network partner. As manufacturer of high-efficiency compressors **Energiewerkstatt Hannover** brings in hands-on experience of over 30 years in the production of cogeneration plants.

Benefit from more than 10 years of experience accumulated by Postberg + Co. in the development of special compressed air measurement know-how to optimize the compressed air systems.