



Compact Filter Technic

BREATHE THE NEW EVOLUTION

Improve the CO₂ balance of your company
with the E-Generator now

Reduce energy costs



**by converting pressure
differences in steam
networks into electricity**

We optimise your steam processes. You minimise your energy costs and reduce your CO₂ emissions.

The issue of sustainability is more relevant today than ever before. The same applies when it comes to how energy costs can be saved in your company. With the e-generator, we optimise your steam processes and help you to gain energy by using pressure differences.

The technology we have developed and patented makes it possible to reduce energy costs by converting pressure differences in steam networks to electricity already from 0.5 bar. Previously unused pressure and heat energy is connected to a generator in an aggregate (roots expander), which is used to generate electrical current and provides the expansion of the steam. After expansion, the steam has exactly the pressure required to supply the downstream consumers and heat exchangers.

The core technology of the e-generator has been proven in other applications for more than 80 years and helps you to significantly reduce your external energy demand. The payback period is usually less than three years.

Power generation of pressures starting at 0.5 bar/ü



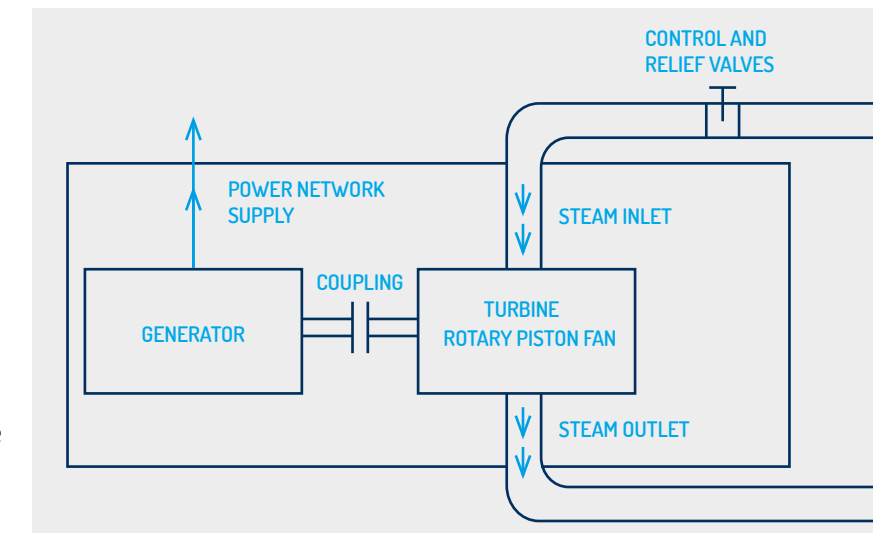
Next level technology for flexible applications
Significant cost reduction included

The e-generator can be easily retrofitted in all steam networks. It can be used with any form of steam generation (gas, oil, hydrogen). The electricity generated is fed into the plant's own network, reducing the need to purchase electricity externally. The plant does not interfere with the existing production process.

Good to know: Electricity production costs are much lower with the e-generator than with solar or wind plants. Depending on the local situation in the steam network, investment subsidies are also possible. Depending on the situation at the steam boiler plant, there is also the possibility of a partial refund of the gas tax.

Product description

- Output from 10 kW to 1,000 kW
- Inlet pressure up to 15 bar/ü
- Pressure differences from 500 mbar/ü can be used
- Steam quantity up to 20 t per module
- Use with saturated steam, wet steam and superheated steam possible



Technical data for e-generators (examples)

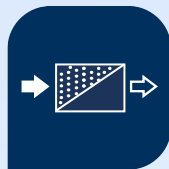
	Pressure reducing station	Relaxation in front of condensers
Inlet pressure	4 bar/ü	1,5 bar/ü
Outlet pressure	3 bar/ü	0,5 bar/ü
Steam mass flow rate	17.000 kg/h saturated steam	5.000 kg/h saturated steam
Electrical power	130 kW	75 kW
Generated electrical power	1.000 MWh/a	640.000 kWh/a
CO ₂ savings	approx. 590 t/a	ca. 380 t/a

Please contact us! We will be pleased to advise you.

CFT – BREATHE THE DIFFERENCE

Since 1999, CFT GmbH Compact Filter Technic has been at the service of its customers in mining and tunnelling with comprehensive know-how in the field of dust collection and ventilation technology as well as in heating and cooling of air. We guarantee our quality standard „Made in Germany“ for you since 2022 from our new headquarters in Marl (NRW) on more than 7,500 m² production area - including an innovative fan test stand.

CFT GmbH is part of the internationally operating CFH Group. The holding company bundles subsidiaries and associated companies that have one thing in common: excellent engineering services that enable innovative solutions in the fields of air in the workplace, energy and the environment. Across all sectors, in surface and underground applications and around the globe.



Dedusting



Ventilation



Mine air cooling systems



Mine air heating systems



Permanent ventilation



E-generator

For more information, please visit www.cft-gmbh.de. or simply give us a call.

We will be pleased to answer your questions and present the detailed advantages of the new CFT E-Generator to you in a personal consultation.

We are looking forward to meeting you!



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 MADE IN GERMANY