

## Blue Fire GmbH

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### Marketing arguments for Blue Fire catalysts

Blue Fire catalysts reduce CO emissions from wood fires by more than 50%\*.

\*The prerequisite for this is the correct engineering integration of the catalyst into the furnace.

Blue Fire catalysts enable compliance with emission limit values for small firing capacities for demand-based heat generation in modern and state-of-the-art living spaces.

Blue Fire catalysts reduce the dust content in the exhaust gas of wood-burning furnaces by up to 20%\* by converting the sooty part of the dust into CO<sub>2</sub> by accumulation on the catalyst surface. This effect reduces the dust mass.

\*Prerequisite for this is the correct integration of the catalyst into the furnace.

Blue Fire catalysts are used directly in the furnace, in the upper part of the combustion chamber. The advantage is that the Blue Fire catalysts can thus operate in a temperature range that is optimal for the Blue Fire catalyst technology.

Blue Fire catalysts reduce CO emissions already from a temperature of 250°C. The catalysts work in this way shortly after the firing is ignited.

Blue Fire catalysts are stable at high temperatures and can permanently withstand an operating temperature of 800°C.

Blue Fire catalysts are manufactured with a specially developed active, innovative coating. This coating is only available from Blue Fire.

Blue Fire catalysts are long-term stable. A permanent effectiveness could be proven after 3 heating periods by activity measurement.

Blue Fire catalysts reduce CO, CnHm, VOC and dust.

Blue Fire catalysts generate only a low pressure loss and therefore do not influence the combustion process.

Blue Fire catalysts are integrated into the furnace and are therefore part of the combustion process.

Blue Fire develops catalysts with a suitable holding system and with an integrated bypass, specially designed for each furnace.

Blue Fire catalysts are designed and manufactured by engineers who have dedicated their studies and professional careers to catalyst technology.

Blue Fire engineers have more than ten years of experience in catalyst development and research.

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ETE EmTechEngineering GmbH

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Blue Fire GmbH and its shareholders have over 20 years of experience in the coating of catalysts.

The Blue Fire sales engineers have extensive market experience over a period of more than 14 years and are therefore able to serve the customer's wishes with know-how very well. Blue Fire catalysts are developed and manufactured in Germany.

We appreciate the quality term "Made in Germany" and monitor our production and our products constantly and software-supported.

Blue Fire catalysts are easy to clean.

Cleaning and maintenance are described in a separate operating manual.

Blue Fire catalysts are an economical way to significantly reduce emissions from wood fires.

Blue Fire GmbH is active in research and development and is single-mindedly pushing the development of catalyst technology for small combustion plants. The goals are to develop systems that are integrated into the furnaces and offer maximum emission reduction with the best customer benefit.

Blue Fire GmbH takes back all catalysts after their use in order to be able to recycle the precious metals used.

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