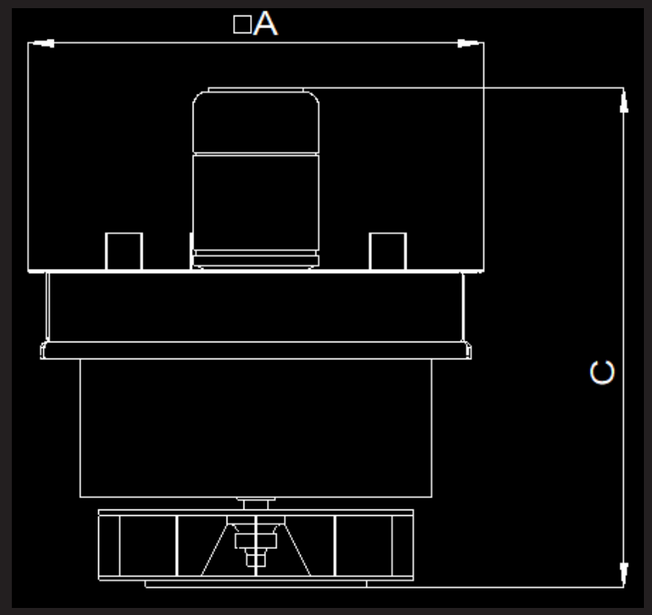
Features

- High power density
- Performance equivalent to side burner
- Very easy retrofitting / conversion of existing lehrs
- Fully modulating operation using state-of-the-art thyristor technology

Advantages

- Easy installation in existing Pennekamp ovens without the need for mechanical modifications
- Emissions-free – 0,0% CO_2, NOx, CO und NO
- „Green manufacturing“
- Low energy cost when using solar energy
- Hybrid technology = High flexibility. You decide when you want to use which type of energy
- Low investment cost thanks to the use of government subsidies

ConveX E	
Mechanical characteristics	
Width	A = 725mm
Dept	C = 820mm
Weight	150kg
Electrical characteristics	
Connection load / max. nominal load	85kW (adjustable)
Voltage	380-440V
Frequency	50/60Hz



pennekamp

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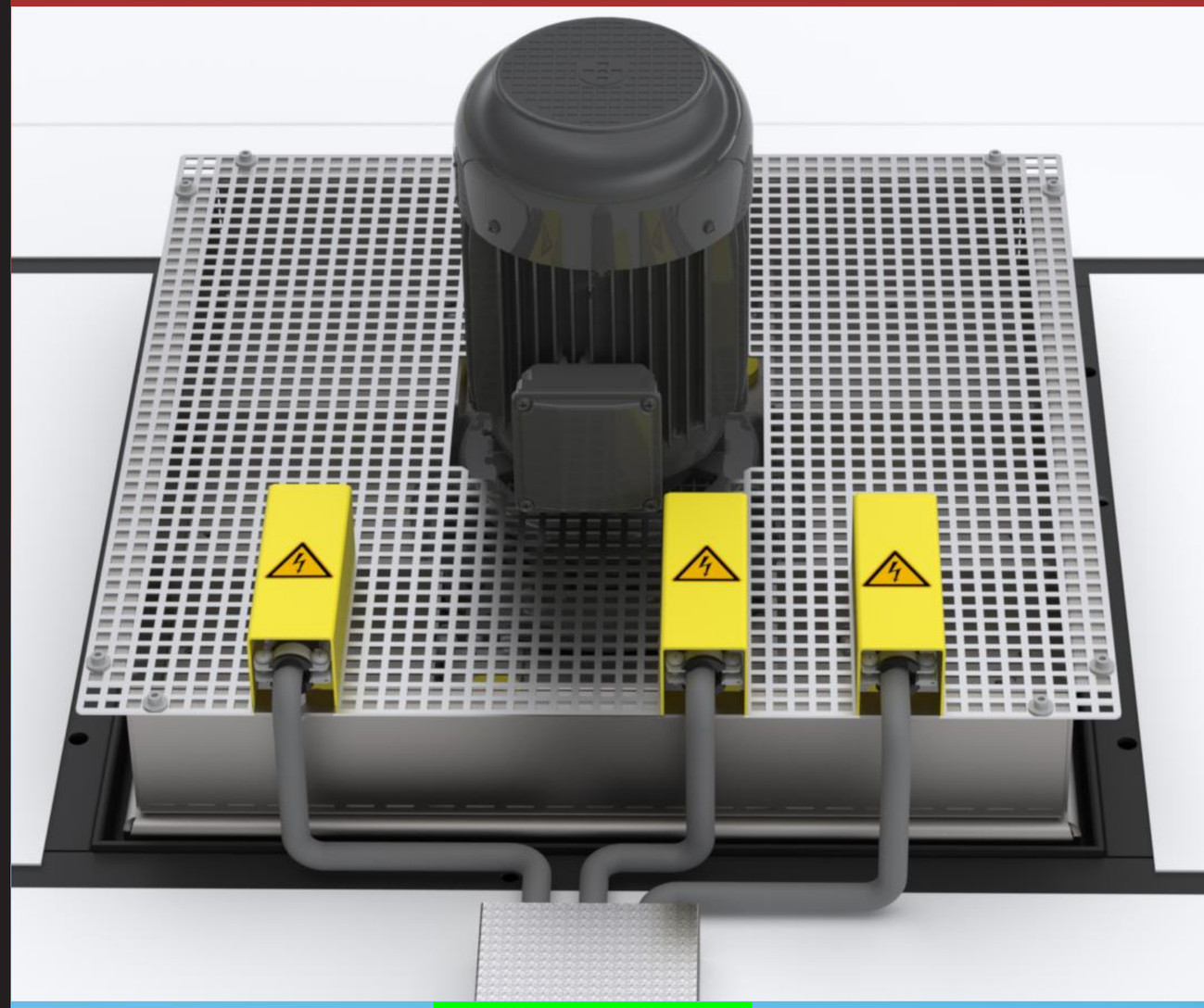


Go Hybrid!

Electrify your gas-fired lehr

—

ConveX E

ConveX E

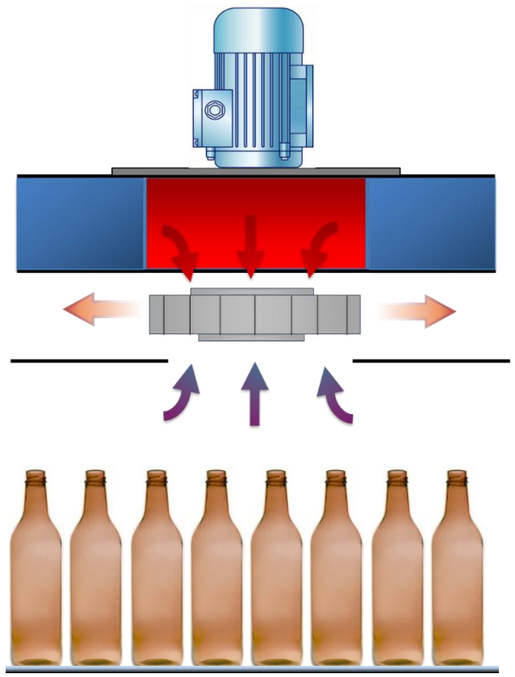
The **ConveX E** convection module combines an electric heating element with a circulation system. Thanks to its design, the module can be retrofitted to existing gas-fired lehrs, enabling them to be operated as 'hybrid' lehrs – using either electric heating or gas heating – depending on your requirements.

ConveX E can be used in all lehrs equipped with a circulation fan. This includes Pennekamp lehrs as well as those from various other manufacturers.

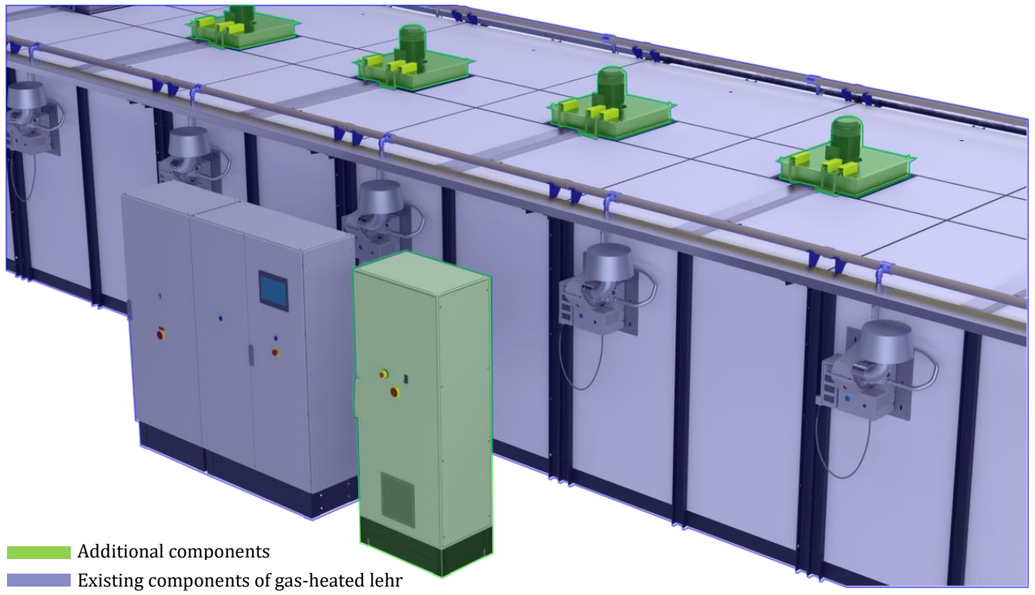
The electric heating element is controlled by thyristors, which automatically adjust the heating output to match the current heat demand.

ConveX E is supplied with a connected load of 85 kW, although the maximum heating output can be adjusted to suit the capacity of your electricity supply and the heat requirements of the lehr.

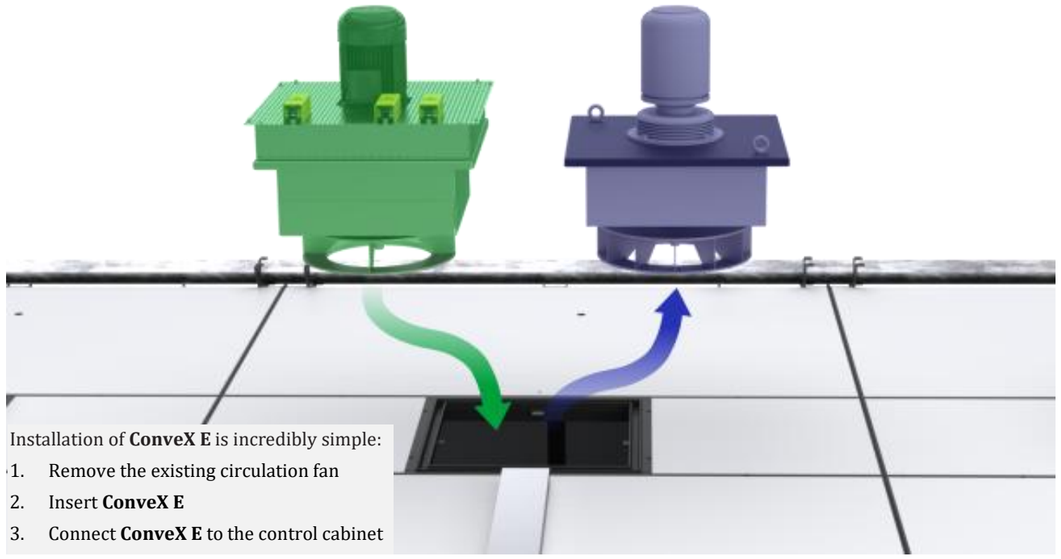
ConveX E is practically maintenance-free. Continuous thermal monitoring of the heating elements ensures operational reliability.



Operating principle of ConveX E



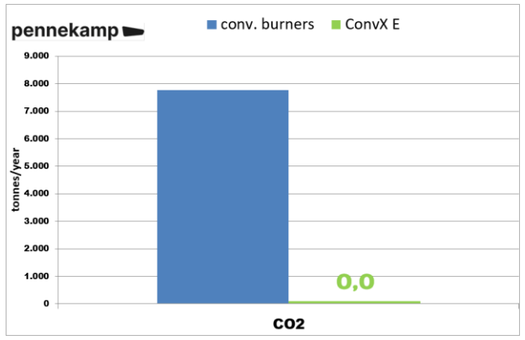
Hybrid lehr containing ConveX E-module and POROJET 160 side burner



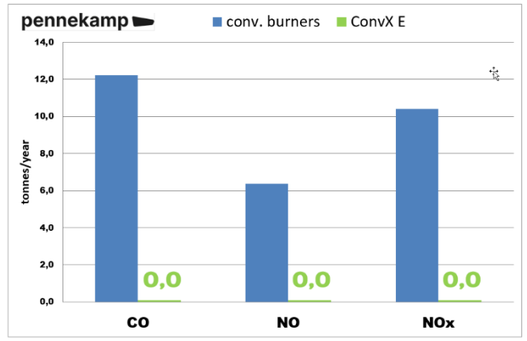
Installation of **ConveX E** is incredibly simple:

1. Remove the existing circulation fan
2. Insert **ConveX E**
3. Connect **ConveX E** to the control cabinet

Plug & Play of circulation fan to Convex E



Emissions of CO_2



Emissions of CO, NO, NOX

By using the **ConveX E** convection module, you can operate the lehr without CO_2- emissions – in other words, as part of 'green manufacturing'.

The use of **ConveX E** in gas-fired lehrs enables 'hybrid' operation.

This opens up a wide range of possibilities for utilising both types of energy.

For example, when combined with the use of self-generated solar energy, it is possible to run the lehr entirely on 'free' solar power during the day.
If there is not enough solar power available, the lehr automatically switches to gas heating.

Using of solar power during the day to run Hybrid lehr