

Features

- High power density
- Available in 120 kW and 200 kW outputs
- Burner head from porous ceramic
- Modulating Heating and Cooling
- Autonomous control
- High volume integrated air filter
- Fully complied with EN 746-2

Advantages

- Easy installation in existing Pennekamp ovens without the need for mechanical modifications
- Automated backup control for oven PLC failure
- Nitrogen oxide reduction up to 80%
- Reduced energy consumption up to 35%
- No visible flame
- H₂-ready (Hydrogen fuel gas)
- Hybrid-technology = High flexibility. You decide when you want to use which type of energy.
- Low investment costs thanks to the use of government subsidies

ConveX G

Mechanical Characteristics

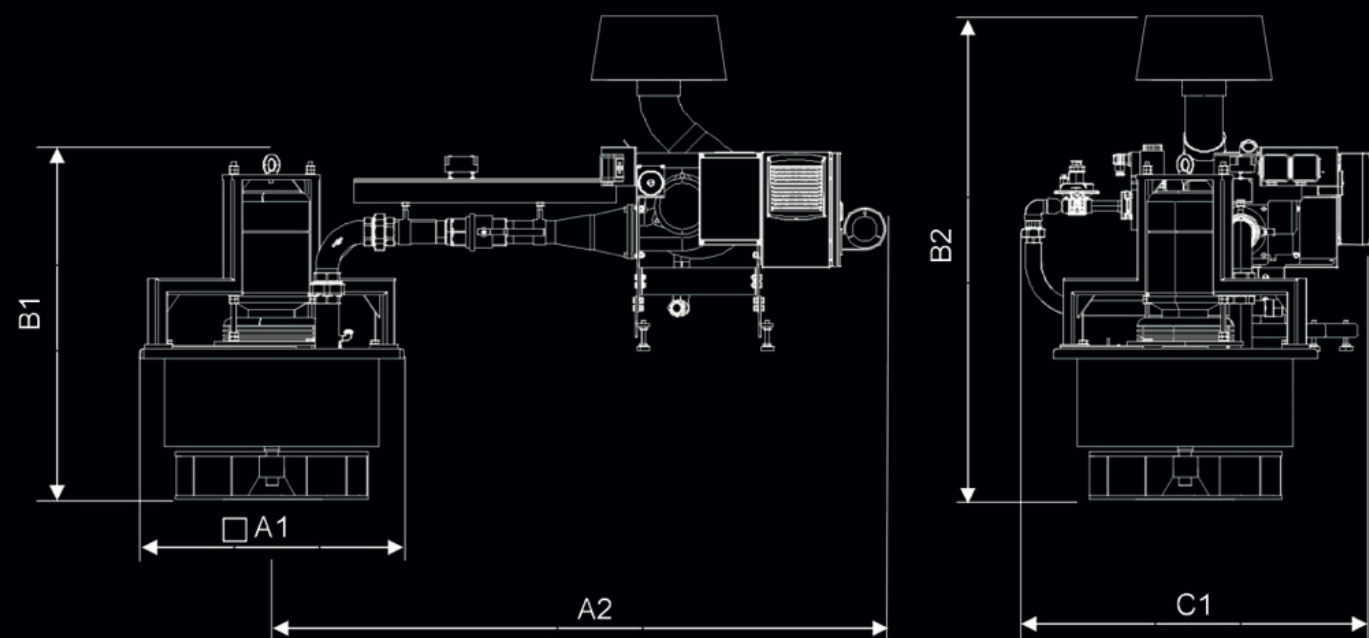
Width A1	685mm
Width A2	1600mm
Height B1	900mm
Height B2	1250mm
Depth C1	150kg
Weight	

Electrical Characteristics

ConveX G200	
Heating output	20 - 200kW (240kW)
Cooling output	0 - 60kW
ConveX G120	
Heating output	10 - 120kW
Cooling output	0 - 40kW
Voltage	120/240V
Frequency	50/60Hz

Gas supply

Gas Types	NG / LPG
Pressure	50 - 250mbar



pennekamp

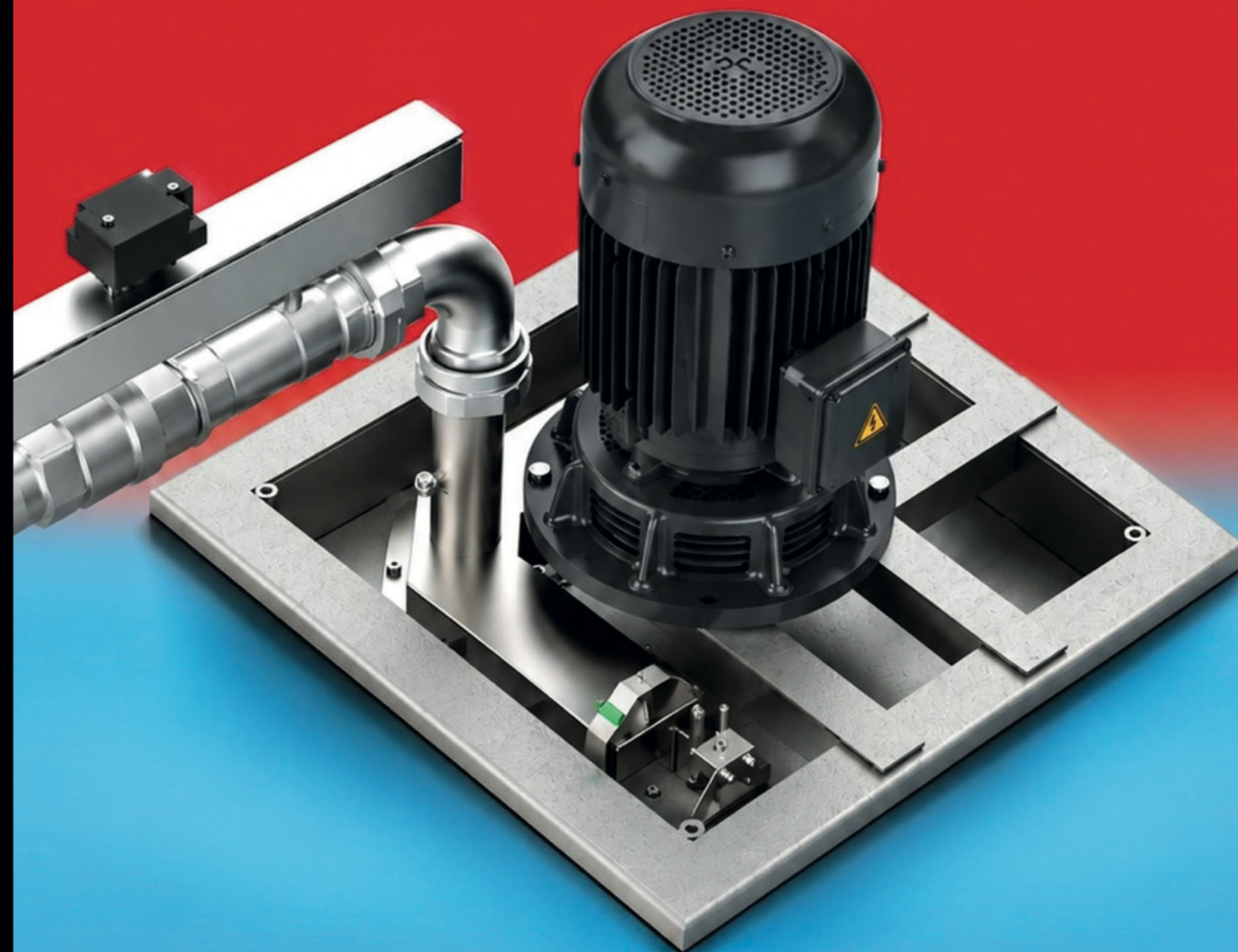


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pennekamp



Up to 50%
less energy consumption

ConveX G

ConveX G

The **ConveX G** convection module combines a gas heated burner 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.

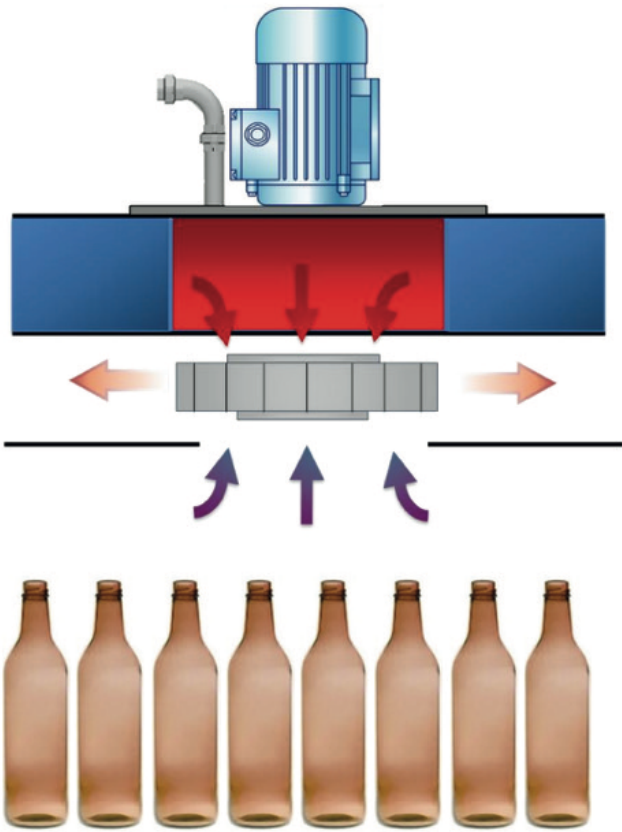
ConveX G can be used in all lehrs equipped with a circulation fan. This includes Pennekamp lehrs as well as those from various other manufacturers.

Each **ConveX G** module features an autonomous burner control system. This system continuously and automatically adjusts the heating and cooling output to match the current heat demand.

Maximum reliability: Thanks to the autonomous burner control system and the independent **ConveX G** - HMI, the system automatically acts as a reliable backup in the event of an oven PLC failure.

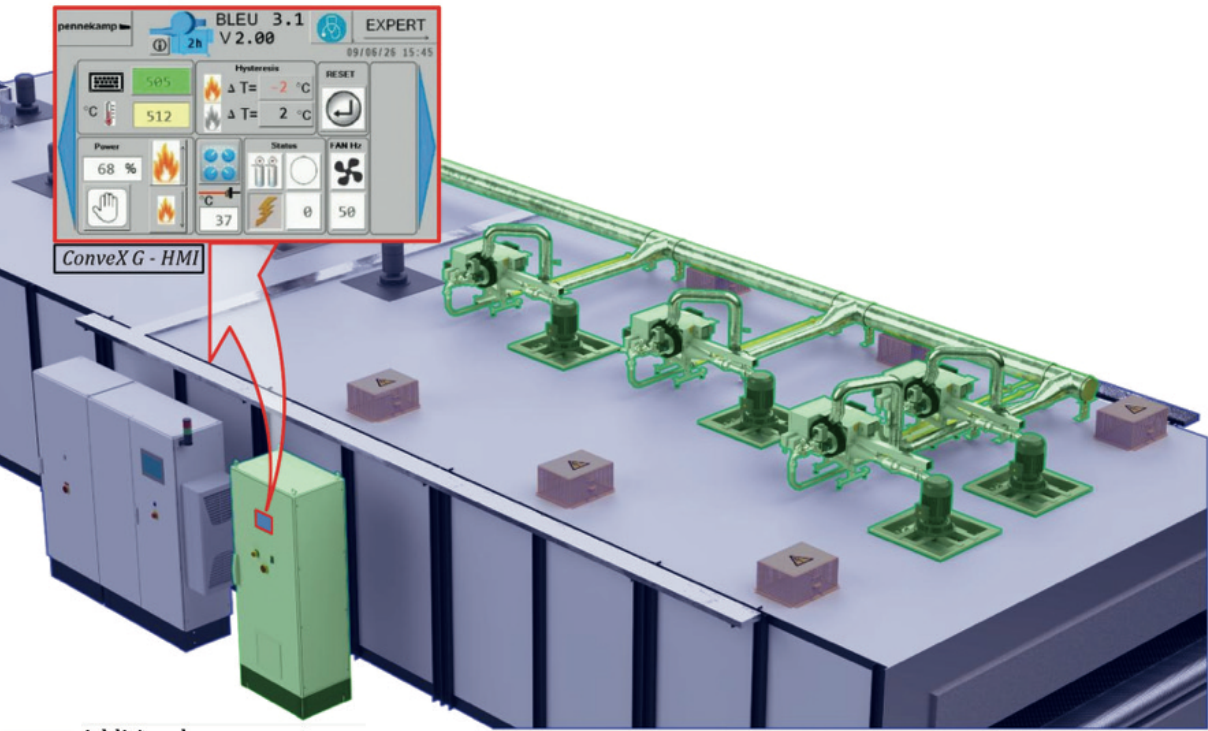
ConveX G: Choice of 2 burner sizes

	ConveX G120	ConveX G200
Heating output	10 – 120 kW	20 – 200 kW (optional 240kW)
Cooling output	0 – 40 kW	0 – 60 kW



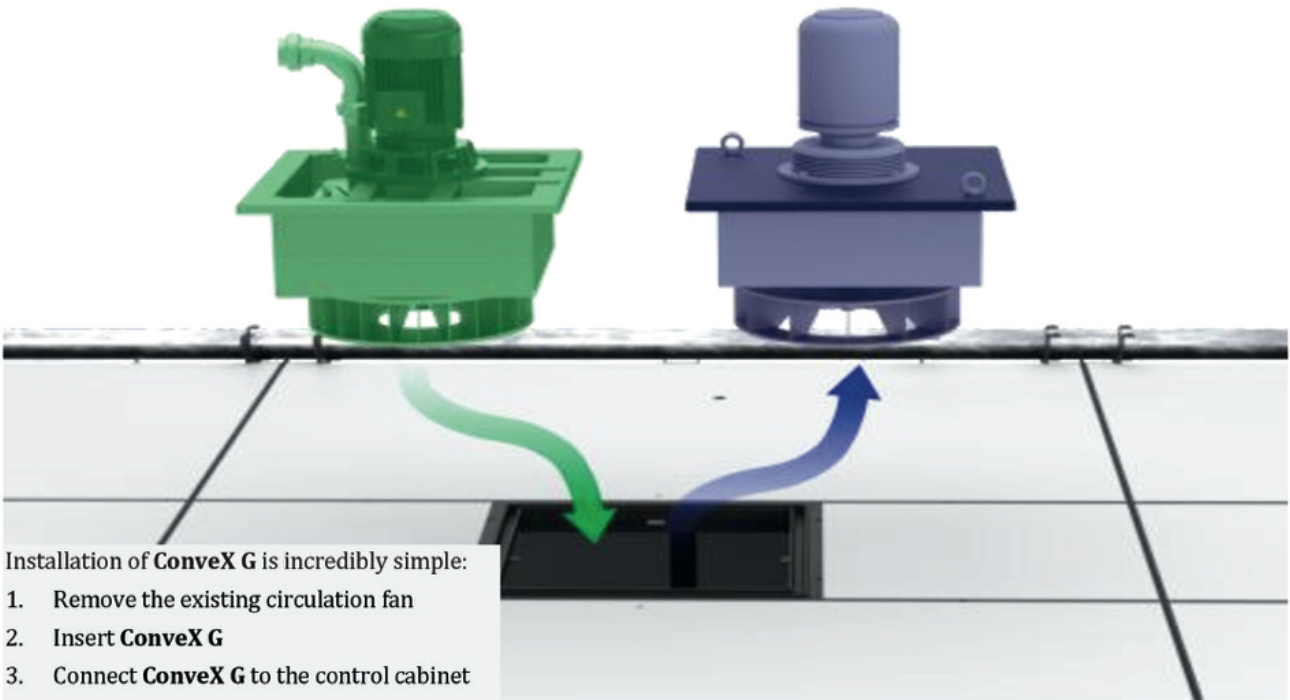
Operating principle of ConveX G

ConveX G is equipped with a porous ceramic (heat-resistant) burner head and virtually maintenance free. Maximum operational reliability through continuous temperature and pressure monitoring.



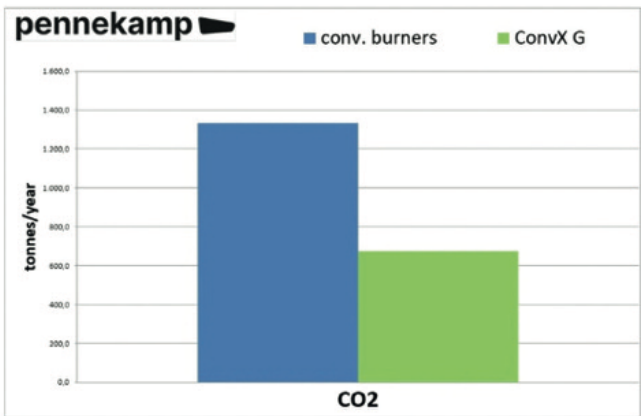
Additional components
Existing components of an electric-heated lehr

Hybrid lehr containing ConveX G-modules and conventional electric heaters



- Installation of **ConveX G** is incredibly simple:
1. Remove the existing circulation fan
 2. Insert **ConveX G**
 3. Connect **ConveX G** to the control cabinet

Plug & Play of circulation fan to Convex G



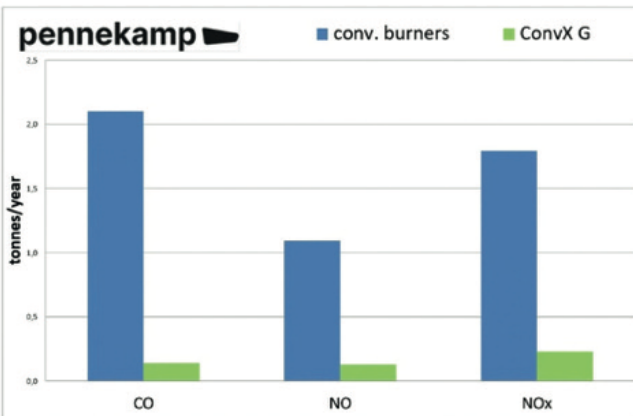
Emissions of CO₂

Equipped with a premix burner, **ConveX G** guarantees stable, low-emission combustion (CO, NO_x, NO_x) independent of internal oven pressure.

The use of **ConveX G** in electric heated 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.



Emissions of CO, NO, NO_x



Using of solar power during the day to run Hybrid lehr