Камерные печи N(B) .. BO для процессов с высокой скоростью испарения органики или для термической очистки путем сжигания

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Chamber Furnaces N(B) .. BO for Processes with High Evaporation Rates of Organics or for Thermal Cleaning by Incineration

The chamber furnaces of the series N .. BO (electrically heated) and NB .. BO (gas-fired) are designed for thermal treatment of products that release flammable gas mixtures when heated or that are themselves flammable but are not damaged by an uncontrolled rise in temperature that may occur during the process. Processes where the product or impurities are incinerated by ignition can also be carried out safely in these chamber furnaces.

Examples include residual dewaxing of molds or thermal treatment of catalytic converters to remove soot or fuel residues. Undesired organic components can be incinerated at temperatures up to 800 °C. The introduction of volatile organic compounds, such as solvents or substances that form flammable atmospheres below 80 °C is not permitted. Nabertherm offers other furnace concepts for the respective processes and will be happy to advise you.

The chamber furnaces are electrically heated or gas-fired. As an element of the safety system, the furnace chamber is constantly purged with fresh air during the process. The occurring exhaust gases are removed from the furnace via an exhaust air outlet with motor-driven flap. To ensure safe operation, the furnace door is locked when the program is started and can be opened only when the temperature has fallen below a defined value at the end of the process. The electrically heated chamber furnaces N .. BO are recommended for processes that rely on good temperature control via the heating program. For safety reasons, the furnace is then equipped with an integrated pilot burner to ignite the flammable components in the furnace atmosphere. This prevents an accumulation of flammable components and enables safe burning.

In gas-fired furnaces, this task is performed by the gas burner. In case of burner malfunctions or gas shortage the process is stopped. The gas-fired chamber furnaces NB .. BO, where the burner flame is directly in the furnace chamber, are suitable for simple burn-out or ashing processes where temperature accuracy is not an important aspect.

Electrically heated chamber furnace N 300 BO

Standard Design

- Tmax 1000 °C
- Electrically heated or gas-fired
- 300 liters or 650 liters furnace chamber, other sizes on request
- Stainless steel exhaust flue
- Automatic temperature control
- Passive safety system BO (see page 11) with
  - monitored gas-fired pilot flame (natural gas or LPG)
  - Monitored fresh air
- Fresh air fan to dilute the furnace atmosphere during burn-off and for cooling after the process
- Switchgear mounted on the side of the furnace or alternatively installed in a separate upright cabinet (depending on furnace model)
- HiProSystems H1700, including Siemens PLC control system and 7” touchpanel as operating interface see page 84

Additional Equipment

- Thermal post combustion (integrated in the furnace or stand-alone) see page 13

Gas-fired chamber furnace NB 650 BO with integrated thermal post combustion

Gas-fired bogie hearth furnace WB 6200/12 BO with lift door and manually movable bogie

Model	Tmax	Inner dimensions in mm			Volume	Outer dimensions[1] in mm			Max. loading weight of organic substances	Output burner in
	°C	w	d	h	in l	W	D	H	in g	kW[2]
N 300 BO	1000	550	700	780	300	1350	1450	1750	2000	20
NB 300 BO	1000	550	700	780	300	1250	1650	1850	2500	60
N 650 BO	1000	700	850	1100	650	1700	1900	2350	3000	60
NB 650 BO	1000	700	850	1100	650	1600	2100	2450	3500	135

[1]Outer dimensions vary depending on the scope of supply. Dimensions on request.
[2]Depending on furnace design connected load might be higher

Furnace chamber N 300 BO with gas-operated pilot flame and electric furnace heating

Furnace chamber NB 650 BO with gas-fired furnace heating

Schematic representation of the air flow in the chamber furnace N(B) .. BO

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