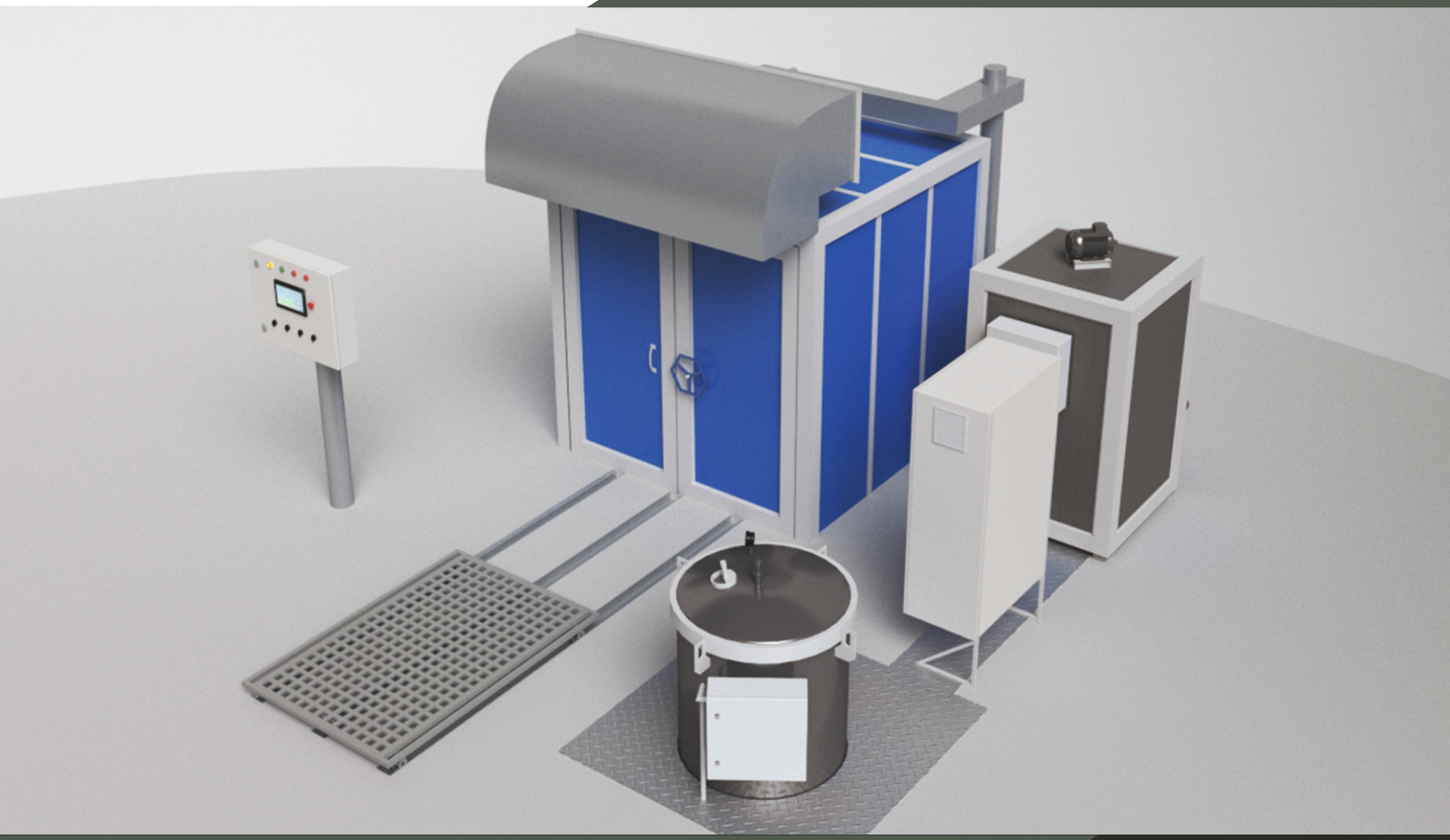


INDUSTRIAL CHAMBER ELECTRIC FURNACES

VOLNA

CE

ISO 9001:2015
Made in Belarus

INDUSTRIAL CHAMBER ELECTRIC FURNACES

For more than 25 years heretofore Volna company has been your reliable partner in manufacturing and service of electrical equipment. For the quarter-century the company has grown up from a small factory to a corporation with extensive industrial capabilities adequate to perform any project however complicated, to design and produce reliable and durable high-performance state-of-the-art equipment.

Volna company successfully practices **complex approach to equipping industrial sites**, designs and manufactures industrial chamber electric furnaces, impregnating installations, electrical equipment test benches, balancing machines, shaft build-up welders and other machinery.

Volna experts provide **consulting on requirements elaboration stage**. Years of expertise in technology ensures that through the target-oriented consulting our customer gets what he needs in a co-developed concept.

Electric furnaces are intended for various kinds of heat treatment of products, work pieces, materials, tools, at up to 600°C.

High degree of automation allows uninterrupted monitoring of the main parameters, ensures the best possible operating mode of equipment, and data archiving. You may create your own thermal cycles and apply them afterwards by pushing a key at the control panel.

Air circulation within the heating chamber ensures **uniform temperature** inside. The ventilation system **prevents emissions** in the process shop.

Thermal insulation of a furnace retains the heat inside the furnace for a long time (4-5 hours) in case of power failure so as to resume drying at the same settings upon power restoration.

A trolley is provided to ensure **easy loading and unloading** while avoiding temperature drop inside the furnace.

Electric furnaces by Volna **comply with safety standards of the Customs Union Technical Regulations**.

We will be happy to become your supplier of high-quality equipment.

Notes:

- Drying parts as painted and impregnated
- Polymerisation of materials
- Drying damp materials
- Low- and medium-temperature tempering of steel parts
- Drying composite parts
- Heating metals up for heat treatment and plastic deformation
- Annealing of insulation materials and electrical machine coils

INDUCTIVE DRYING FURNACES

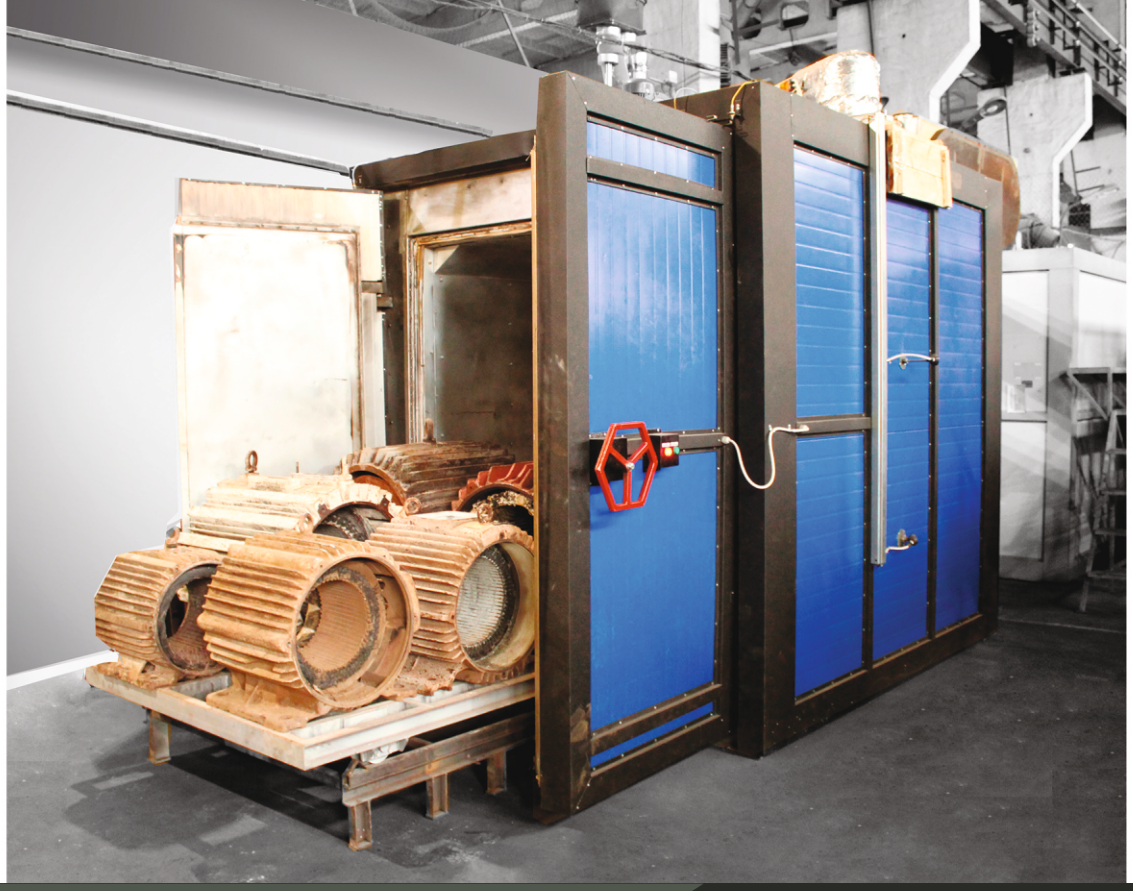
Inductive drying furnaces are intended to dry parts for various applications, including stationary drying of electrical machine coils in air at +50°C to +270°C by dissipation to magnetize internal walls of the furnace.

- Uniform and smooth heating because of no idle heat-transfer loops, for it is the heating chamber surface itself that is heated, thus, transferring the heat to the internal space of the furnace
- Fire safety ensured by no direct contact between the heat source and internal environment, while wall temperature is only slightly higher than that of the internal space
- No need to service the heat source within the entire service life
- Optimal heating cycle ensured by a controller and frequency converter to reduce power consumption

RESISTANCE FURNACES

Resistance furnaces are intended for stationary heat treatment of parts for various applications in air at +50°C to +600°C. The inner chamber is heated up with tubular electric heaters.

- Multi-loop heating and circulation system to ensure **uniform temperature**
- Fast heat-up
- Independent sets of heating elements to **control furnace warm-up time** and, optionally, maintain temperature of certain heating elements
- Low power consumption thanks to effective heat insulation and automatic control system
- Durability through the use of modern high-tech eco-friendly materials and stainless steel parts



ANNEALING FURNACES

Automatic annealing furnaces are intended to burn out insulation of electrical machine coils and components and to facilitate their removal for repair.

- Multi-loop heating and circulation system to ensure **uniform temperature**
- Independent sets of heating elements to **control furnace warm-up time** and, optionally, maintain temperature of certain heating elements
- Pyrolysis technique (thermal destruction of insulation materials with controlled oxygen supply)
- Ventilation system to ensure **constant underpressure inside the chamber** and air leak-in
- Three-stage electrical afterburner to separate gaseous substances to be burned or recycled
- Explosion hazard controller to measure concentration of oxygen and flammable substances produced by insulation annealing
- Chamber pressure emergency relief valve
- **Chamber cooling down** upon turning off in automatic mode

High energy efficiency	→	Lower operating expenditure
Durability	→	Lower capital expenditure
Cold body surface	→	Lower burn hazard
Process temperature maintenance	→	Stable manufacturing process
Modern insulation materials	→	Lower heat loss
High degree of automation	→	Lower operating expenditure
High treatment quality	→	Lower defect rate

SERVICES:

- Technical consulting
- Installation supervision, adjustment and start-up
- Delivery
- Diagnostics and maintenance
- Spare parts supply
- Repair and upgrade

Specialized Electro-repairing
Closed joint-stock company «Volna»

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