Induction Heating
Equipment Manufacturer

Heating Equipment

INDUCTION HEATER | HEATER CARD | ELECTRIC HEATING BOILER | INDUCTION MELTING FURNACE
About Us
DaoBright Technology Co., LTD was established in FoShan, China in 2007, is a professional developer and manufacturer for Induction Heating Equipment. Superior quality and excellent customer service are our major focus.

Product Line
We currently have over 4 kinds of heating equipment with more than 20 models (MOQ 1PCS)

- Induction heater
- Heater card
- Heating Boiler
- Melting Furnace

Service
We have totally 210 staff members, 20 professional technicians, 15 senior engineer and 35 sales people. They are always ready to meet your requests.

Backed by our experience and creativity, our products feature reliable performance and unique functions.

Shipping
- By sea
- By air
- By express (including DHL, TNT, UPS, FedEx and EMS, arriving at your doorstep within an average of 4-5 days.)

Our value
In DaoBright, we stress shared three core values:

- Professionally
- Customer’s satisfaction
- Good and prompt after-sales support
Induction Heating

Simply stated, Induction heating is today most clean, efficient, cost-effective method of material heating available to the industry.

Most metals are induced by high frequency magnetic fields, and self-heating

Using this principle, a high frequency current is passed through the coil. The coil is caused to generate a high frequency magnetic field so that the metal rod in the coil is induced to generate heat.

The electrical energy can all be converted into metal thermal energy by the above process. Throughout the process, the metal rod does not have any physical contact with the coil, and energy conversion is accomplished by magnetic field eddy currents and metal induction.

Advantages of induction heating include:

1). Energy saving and emission reduction (30-70%)
2). Higher thermal efficiency
3). Reduce the working temperature
4). Long service life
5). Warm up quickly
6). Simple and convenient maintenance

The Induction heating system is composed of an controller(The induction power supply or called induction heater) and an Electromagnetic induction heating coil.

1. Induction heating controller: induction heater

The induction heater is a device using the electromagnetic induction principle to convert the electric energy into heat energy.

The induction heater turns the alternating current of 220V or the three-phase AC 380V, 50/60HZ into DC, then turns the DC into the high frequency 10~40KHz high current electricity used for heating industrial products.

2. Induction heating coil
In the use of induction heating process, success depends ot a great degree on proper design of the inductions.

The Inductor usually referred to as heating coil, can be made in large variety of types and styles – depending on the shape of the metal surface to be heated.

The inductor designs must follow certain principles of maximum efficiency of heating.

**Inductor Types**

Induction coils may be either have a multi-turn design or be in the form of a single-turn coil, the later often being termed a “solid” inductor.

In making multi-turn coils, a wide variety of shapes is possible:

**Solenoid Coil**

**Pancake Coil:**
## Induction Heater

### Product

<table>
<thead>
<tr>
<th>Model No.</th>
<th>Input Voltage</th>
<th>Rated Power</th>
<th>Efficiency</th>
<th>Cooling</th>
<th>Circuit Block</th>
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</thead>
<tbody>
<tr>
<td>RZ-FB-1K220D</td>
<td>220V±20%</td>
<td>1KW±10%</td>
<td>&gt;98%</td>
<td>Fan cooling</td>
<td>Full bridge</td>
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<td>RZ-HB-2K220A</td>
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<td>2KW±10%</td>
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<td>3KW±10%</td>
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<td>5KW±10%</td>
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<td>20KW±10%</td>
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<td>Water cooling</td>
<td>Half bridge</td>
</tr>
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<td>RZ-FB-150K380D</td>
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<td>Full bridge</td>
</tr>
</tbody>
</table>
Product

Induction Heater Cabinet
Inject molding machine

The induction heater used to plastic machinery is the earliest and most popular. Compared with the original resistance heating, it with insulating cotton so that its heat does not lose in the air. The other point is that the heating cartridge itself heats up and does not require heat transfer, so the thermal efficiency is high.

Mainframe (foaming machine) heating
Granulator energy saving heating

The high-power electromagnetic heating equipment is applied to the waste plastic recycling granulation equipment, which replaces the past coal-fired heating, reduces emissions, and achieves a win-win situation of energy conservation and environmental protection.

Dry material granulator heating
Application

Wire drawing machine Heating

According to the requirements of the equipment, the 220V or 380V electromagnetic heating controller can be modified, the operation is stable, the power saving effect is more obvious, and the electricity consumption can be saved by 40%~50%.
Application

Extruder transformation

It is modified by 380V electromagnetic heating module, the power saving rate is about 40%, and the surface temperature is low, and the operation is stable.

Trigger granulator heating

Energy saving, energy saving and emission reduction, increase the economic efficiency of the national EPE pearl cotton foam product manufacturers, reduce energy consumption, save electricity, and reduce the production cost of EPE pearl cotton.
Recycled plastic granulator

The retrofitted equipment extends the life of the barrel and screw, increases throughput, and improves the quality of the discharge.

The reclaimed plastic granulator is being modified and is being produced for the electromagnetic heating of waste plastic recycled particles.
Application

Roasting machine induction heating

Electromagnetic heating roller
Application

Heat transfer
- oil heating

Plexiglass production heating
Application

Used in Electric heating boiler

Internal Structure

Induction Heater

Hot water

Heating coil

Cold water
More Application

High frequency machine
Melting equipment
Mold heating

Welding machine
Brick machine

Metal heat treating, hardening, annealing, etc.
Hot air, drying, food machinery etc.
Electric boilers are a popular choice for households where gas is not available. They are an efficient choice for heating up your home and providing hot water. A great benefit of having an electric boiler to heat your home is that it doesn’t release any gases into the atmosphere and is small and compact enough to fit in a kitchen cupboard.

Electric heating boilers come in a variety of sizes and models, the most suitable option for your home will depend on your central heating system and your hot water usage and the number of bathrooms our home has to choose the power of the boiler required.

The technology behind electric heating boilers has developed into a competitive and advanced industry, due to how quiet the boilers are and how they are typically easier to maintain and install than gas boilers.
Electric heating water heater

Benefits & Features

Using the latest technology the electric heating water heater offers the discerning buyer the flexibility and controllability of a modern central heating system.

- Easy to install
- Outputs from 6KW up to 200KW
- 100% efficient
- No flue or Fuel tanks required – can be located almost anywhere
- Silent in operation
- Stainless steel heat exchanger
- Stainless steel heating elements
- No mandatory boiler servicing required
- Soft start approach to avoid power surges
- Can be used with standard radiators & thermostatic valves
- In-built fault finding diagnostics and LED display
- 3 Years Guarantee

The boiler makes it ideal for heating applications such as apartments, domestic dwellings, holiday homes and light commercial properties.

It has a user-friendly Front Control Panel incorporating heat mode and fault finding indicators, an ON/OFF switch and easy-to-use temperature control setting.

The boiler temperature range can be set between 30 degrees and 80 degrees centigrade which also makes it suitable for under-floor heating applications.
Easy to use, the main components are from Germany, and the design life is 15 years.
The CPU fetches instructions from the memory or cache, decomposes the machine and user settings into a series of micro-operations, and the system runs stably.

Advanced heating body
Safe and stable, thermal efficiency up to 97%, long-term use without attenuation, design life of up to 15 years.

The function of the expansion tank is to accommodate and compensate the expansion and contraction in the system. It is also used as a system water supply.

Warm in the transducer

Integrated waterway

Grundfos pump
NXB103 Wall Mount Boiler

✧ No flue required.
✧ No fumes and no risk of explosion
✧ 100% efficient
✧ Economic running costs
✧ Provide a complete heating and hot water solution
✧ Timer and thermostat supplied for 24/7 controllability

Technical Parameters

<table>
<thead>
<tr>
<th>Model</th>
<th>NXB-103-8</th>
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<tr>
<td>Voltage</td>
<td>220V with 6 mm² cable</td>
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<tr>
<td>Power</td>
<td>8000W</td>
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<td>Pipe Diameter</td>
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<td>Heating area</td>
<td>60-100m²</td>
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<tr>
<td>Dimensions</td>
<td>380x220x600mm</td>
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<td>LED display, Key operation, Built-in water pump, built-in expansion tank</td>
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<table>
<thead>
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<td>Power</td>
<td>12KW</td>
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<td>Heating area</td>
<td>100-150m²</td>
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<tr>
<td>Dimensions</td>
<td>410x220x700mm</td>
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<table>
<thead>
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<td>Power</td>
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<td>Heating area</td>
<td>130-180m²</td>
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<td>Dimensions</td>
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<td>LED display, Key operation, Built-in water pump, built-in expansion tank</td>
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</table>
NXB101 Up Right Heating Boiler

✧ No flue required.
✧ No fumes and no risk of explosion
✧ 100% efficient
✧ Economic running costs
✧ Provide a complete heating and hot water solution
✧ Timer and thermostat supplied for 24/7 controllability

Technical Parameters

<table>
<thead>
<tr>
<th>Model</th>
<th>NDL101-25</th>
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</thead>
<tbody>
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<tr>
<td>Power</td>
<td>25KW</td>
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<td>Pipe Diameter</td>
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<tr>
<td>Heating Area</td>
<td>200-280m²</td>
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<tr>
<td>Dimensions</td>
<td>500x300x675mm</td>
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<td>LED display, Key operation, Built-in water pump, built-in expansion tank</td>
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<table>
<thead>
<tr>
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<td>Voltage</td>
<td>380V with 10 mm² cable</td>
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<tr>
<td>Power</td>
<td>32KW</td>
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<tr>
<td>Pipe Diameter</td>
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<tr>
<td>Heating Area</td>
<td>280-360m²</td>
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<tr>
<td>Dimensions</td>
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<td>LED display, Key operation, Built-in water pump, built-in expansion tank</td>
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</table>
NDL111 Electric Heating Boiler

Model: NDL111-50
Voltage: 380V with 16 mm² cable
Power: 50KW
Pipe Diameter: 42mm
Heating area: 450-550m²
Dimensions: 600x600x1150mm
LED display, Key operation, External water pump, External expansion tank

Model: NDL111-65
Voltage: 380V with 20 mm² cable
Power: 65KW
Pipe Diameter: 42mm
Heating area: 400-700m²
Dimensions: 600x600x1150mm
LED display, Key operation, External water pump, External expansion tank

Model: NDL111-100
Voltage: 380V with 30 mm² cable
Power: 100KW
Pipe Diameter: 50mm
Heating area: 800-1200m²
Dimensions: 800x600x1270mm
LED display, Key operation, External water pump, External expansion tank

Model: NDL111-200
Voltage: 380V with 85 mm² cable
Power: 200KW
Pipe Diameter: 65mm
Heating area: 1500-2000m²
Dimensions: 1550*600*1270mm
LED display, Key operation, External water pump, External expansion tank
Direct supply radiator:

Direct supply of floor heating:
Heating storage installation: supply radiator & floor heating

Central heating & hot water:
Reliable Quality • Reasonable Price

Contact Us Today!

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