

Ignition Units Ignition



IGNITION UNITS

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Perfection
built in

BERU

Modern burner ignition systems: EMC optimized and tuned to perfection



Ignition systems for oil and gas burners

Standard solutions and applications according to customer specifications.

Technical data ignition system MKZ 30

Operating voltage:	230 V (-15 % +10 %) 50/60 Hz
Primary current:	0.16 A
Output:	40 VA

Connections:	
Primary:	2 x flat plug 2.8 mm
Secondary:	2 x 4 mm drop-in pins
Ignition voltage:	2 x 7.5 kV
Ignition frequency:	50/60 Hz
Ignition spark energy:	approx. 400 mJ
Duty cycle:	30 % in 3 mins.
Sparking distance:	1.5 - 3 mm
Operating temperature:	0-60 °C
Fitting position:	as required
Weight:	300 g

Technical data ignition system MKZ 100

Operating voltage:	230 V (-15 % +10 %) 50/60 Hz
Primary current:	0.22 A
Output:	50 VA

Connections:	
Primary:	2 x flat plug 2.8 mm
Secondary:	2 x 4 mm drop-in pins
Ignition voltage:	2 x 7.5 kV
Ignition frequency:	25/30 Hz
Ignition spark energy:	approx. 500 mJ
Duty cycle:	100 %
Sparking distance:	1.5 - 3 mm
Operating temperature:	0-60 °C
Fitting position:	as required
Weight:	300 g

Ignition systems for oil and gas burners for small until medium performance ranges. Per request, capacities as well as housing shapes can be modified according to customer specifications.

Per request, we will deliver the matching secondary cables as well as plugs with and without anti-interference components.



Technical data ignition system GZG 100

Operating voltage:	230 V (-15 % +10 %) 50/60 Hz
Primary current:	3.5 A
Output:	90 VA

Connections:	
Primary:	mains cable 3x0.75mm ² with multi-core cable ends
Secondary:	2 x 4 mm drop-in pins
Ignition voltage:	2 x 7.5 kV
Ignition frequency:	50/60 Hz
Ignition spark energy:	approx. 650 mJ
Duty cycle:	100 %
Sparking distance:	1.5 - 3 mm max.
Operating temperature:	0-60 °C
Fitting position:	as required
Weight:	630 g



Ignition system for oil and gas blowpipes for high and highest ignition capacities. Single-pole or double-pole operation is possible.

Beru – partner in development for the heating industry

The single-pole timing igniter with VDE safety mark: for gas pilot burners and gas burners with direct ignition.



This Beru ignition unit has a high ignition energy level and is EMC-optimized. The basis of the electronic ignition unit is a sophisticated electronic control system and a high-quality ignition coil, which increases the nominal voltage to 15 - 20 kV ignition voltage. The impact-resistant, temperature-resistant plastic housing is casted in PU resin.

Technical data single-pole timing igniters

Operating voltage:	230 V (-15 % +10 %) 50 Hz
Primary current:	3.5 mA / 25 mA
Output:	0.8 VA / 6 VA
Connections:	
Primary:	Drop-in 5 pin plug (operation only permitted with original matching plug)
Reference ground:	Attachment hook 5.0 mm
Secondary:	4 mm drop-in pins
Ignition voltage:	15 kV
Ignition frequency:	approx. 12 Hz / 50 Hz
Ignition spark energy:	approx. 8 mJ
Duty cycle:	30 % in 3 min.
Sparking distance:	2 - 4 mm
Operating temperature:	0-60 °C
Fitting position:	as required
Weight:	80 g

In our own EMC Laboratory we are able to make measurements according to the customer and mandatory standards. This enables us to develop and produce an ignition system which is optimized on the application.



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