

# COFI

ignitions



**Ignition Transformers**

## ELECTRONIC IGNITION TRANSFORMERS

This transformer is produced with the electronic technology, the system is vacuum impregnated to ensure the highest rate of insulation. The features of this transformer make it suitable for gas and oil burners where is required continuous power, with smaller size and weight than conventional inductive transformers.

### The Applications

The electronic ignition transformer is suitable to be applied to all kind of oil and gas burners, wall hang boilers, hot water high pressure cleaners and anti-mosquito equipment. These applications are indicated by a symbol beside each type of product as follows.

Oil Burners	
Gas Burners	
Hot water high pressure cleaners	
Anti-mosquito equipment	

### The inlets

These icons represent the inlets types available on every single product

Plug D	
Plug K	

### The outlets

These icons represent the outlets types available on every single product

H plug, horizontal output plug, Ø 4mm	
V plug, Vertical output plug, Ø 4mm (13.5 mm deep)	

CAPACITANCE DISCHARGE IGNITER TRW	Type	Vin	Pin	Iout cc	Energy	Vout	ED	Ta	Output
	TRW1P2	220-240V	7W	5 mA	5 mJ	1x15 kV	100%	60°C	Grounded pole
	TRW1P2R	230V	7W	5mA	5 mJ	1x15 kV	100%	60°C	Grounded pole
	TRW1P4	230V	7W	5mA	5 mJ	1x15 kV	100%	60°C	Grounded pole
	TRW1P4R	220-240V	7W	5 mA	5 mJ	1x15 kV	100%	60°C	Grounded pole
	TRW1S2M	230V	7W	5mA	5 mJ	15 kV	100%	60°C	Insulated
	TRW1S4	230V	7W	5mA	5 mJ	15 kV	100%	60°C	Insulated
	TRW2P2	220-240V	7W	5 mA	5 mJ	1x15 kV	100%	60°C	Grounded pole
	TRW2P4	220-240V	7W	5 mA	5 mJ	1x15 kV	100%	60°C	Grounded pole
	TRW2P4R	220-240V	7W	5 mA	5 mJ	1x15 kV	100%	60°C	Grounded pole

This Ignition transformer is built to satisfy the power requirement of condensing and atmospheric boilers. Thanks to its particular electronic configuration it delivers a very high power output to ensure the ignition even on most difficult conditions. This product is available as "over the gas valve" mounting version. The integrated single pole flame detection signal is available.



ELECTRONIC IGNITION TRANSFORMER TRJ	Type	Vin	Pin	Iout cc	Iout Burn*	Vout	ED	Ta	Output
	TRJ1-20CVD	220-240V	30W	20 mA	15 mA	2x14 kV	100%	60°C	Grounded center
	TRJ2-30VD	220-240V	65W	35 mA	21 mA	2x10 kV	33% su 3'	60°C	Grounded center
	TRJ2-30PVD	220-240V	63W	30 mA	22 mA	1x15 kV	33% su 3'	60°C	Grounded pole

New transformer with higher efficiency and lower cost.



\*Iout Burn.= Current measured on the burner with 5mm spark gap, blowing air and suppressed cables.

### ELECTRONIC IGNITION TRANSFORMERS TRK



Type	Vin	Pin	Iout cc	Iout Burn*	Vout	ED	Ta	Output	Notes
TRK1-20CVD	220-240V	30W	20 mA	12 mA	2x14 kV	100%	60°C	Grounded center	
TRK1-20PCVD	220-240V	30W	20 mA	12 mA	1x15 kV	100%	60°C	Grounded pole	
TRK1-30CVD	230V	30W	30 mA	17 mA	2x12 kV	100%	60°C	Grounded center	Ⓜ
TRK1-30CHD	230V	30W	30 mA	17 mA	2x12 kV	100%	60°C	Grounded center	Ⓜ
TRK1-30PCVD	230V	30W	30 mA	17 mA	1x15 kV	100%	60°C	Grounded pole	
TRK2-35	220-240V	65W	35 mA	20 mA	2x10 kV	33% on 3'	60°C	Grounded center	
TRK2-30PVD	220-240V	63W	30 mA	20 mA	1x15 kV	33% on 3'	60°C	Grounded pole	Ⓜ
TRK2-30PFVD	220-240V	63W	30 mA	20 mA	1x15 kV	33% on 3'	60°C	Grounded pole	
TRK2-30PVDUS	230V	69W	30 mA	20 mA	1x15 kV	33% on 3'	60°C	Grounded pole	c Ⓜ US - Ⓜ
TRK2-30PFVDUS	230V	69W	30 mA	20 mA	1x15 kV	33% on 3'	60°C	Grounded pole	c Ⓜ US
TRK2-40VD	230V	65W	40 mA	24 mA	2x10 kV	33% on 3'	60°C	Grounded center	Ⓜ
TRK2-40HD	230V	65W	40 mA	24 mA	2x10 kV	33% on 3'	60°C	Grounded center	
TRK2-40HK	230V	65W	40 mA	24 mA	2x10 kV	33% on 3'	60°C	Grounded center	Ⓜ
TRK2-40HKL	230V	65W	40 mA	24 mA	2x10 kV	33% on 3'	60°C	Grounded center	Ⓜ
TRK2-40PVD	230V	65W	40 mA	24 mA	1x15 kV	33% on 3'	60°C	Grounded pole	Ⓜ
TRK2-40PHK	230V	65W	40 mA	24 mA	1x15 kV	33% on 3'	60°C	Grounded pole	Ⓜ
TRK2-40PHKL	230V	65W	40 mA	24 mA	1x15 kV	33% on 3'	60°C	Grounded pole	Ⓜ
TRK2-40SHK	230V	65W	40 mA	24 mA	15 kV	33% on 3'	60°C	Insulated	
TRK2-40SVD	230V	65W	40 mA	24 mA	15 kV	33% on 3'	60°C	Insulated	
TRK1-20CUVD	120V	22W	20 mA	12 mA	2x14 kV	100%	60°C	Grounded center	c Ⓜ US
TRK1-20PCUVD	120V	30W	20 mA	12 mA	1x15 kV	100%	60°C	Grounded pole	
TRK2-30PUVD	120V	60W	26 mA	20 mA	1x15 kV	33% on 3'	60°C	Grounded pole	c Ⓜ US
TRK2-30PUFVD	120V	60W	26 mA	20 mA	1x15 kV	33% on 3'	60°C	Grounded pole	c Ⓜ US
TRK2-30UVD	120V	60W	30 mA	20 mA	2x12 kV	33% on 3'	60°C	Grounded center	c Ⓜ US

This is a standard electronic transformer. The features of this transformer make it suitable for a wide range of applications such as oil and gas burners, continuous or intermittent duty, single or double poles.



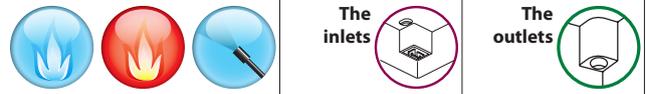
\*Iout Burn.= Current measured on the burner with 5mm spark gap, blowing air and suppressed cables.

### ELECTRONIC IGNITION TRANSFORMERS TRH



Type	Vin	Pin	Iout cc	Iout Burn*	Vout	ED	Ta	Output	Notes
TRH2-30CU	120V	70W	30 mA	25 mA	2x12 kV	100%	60°C	Grounded center	c Ⓜ US
TRH2-30C	230V	60W	30 mA	25 mA	2x12 kV	100%	60°C	Grounded center	
TRH2-30CQ	400V	60W	30 mA	25 mA	2x12 kV	100%	60°C	Grounded center	
TRH2-60	230V	100W	50 mA	30 mA	2x12 kV	33% on 3'	60°C	Grounded center	
TRH2-40U	120V	90W	40 mA	30 mA	2x12 kV	33% on 3'	60°C	Grounded center	c Ⓜ US

This is a HIGH POWER electronic transformer suitable for heavy oil and gas burners where high spark currents on continuous duty conditions and severe working temperatures are required. It is available on 120V 230V and 400V versions.



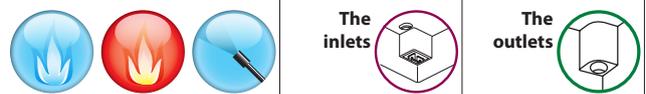
\*Iout Burn.= Current measured on the burner with 5mm spark gap, blowing air and suppressed cables.

### ELECTRONIC IGNITION TRANSFORMERS TRL



Type	Vin	Pin	Iout cc	Iout Burn*	Vout	ED	Ta	Output	Notes
TRL12-30C	12V DC	80W	30 mA	22 mA	2x12kV	100%	60°C	Grounded center	
TRL24-30C	24V DC	80W	30 mA	22 mA	2x12kV	100%	60°C	Grounded center	
TRL12-30PC	12V DC	80W	30 mA	22 mA	1x15kV	100%	60°C	Grounded pole	
TRL24-30PC	24V DC	80W	30 mA	22 mA	1x15kV	100%	60°C	Grounded pole	

This is a 12 and 24 VDC HIGH POWER electronic transformer suitable for heavy oil and gas burners. It is very performant, with high spark currents on continuous duty conditions even on severe working temperatures.



\*Iout Burn.= Current measured on the burner with 5mm spark gap, blowing air and suppressed cables.

## INDUCTIVE TRANSFORMERS

Traditional electro-mechanic transformer, It can be customized in many different versions to fit the requirements of any kind of application like oil and gas burners, high pressure cleaners, anti-mosquito equipments, ozone generators.

### The Applications

The conventional ignition transformer is suitable to be applied to all kind of oil and gas burners, hot water high pressure cleaners and anti-mosquito equipment. These application are indicated by a symbol beside each type of product as follows.

Oil Burners	
Gas Burners	
Hot water high pressure cleaners	
Anti-mosquito equipment	

### The inlets

These icons represent all the different kind of connection for each product

Standard buried cable L=380mm		COFI plug		Triangle plug	
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### The outlets

These icons represent the outlets types available on every single product

Code SP, eccentric plug, Ø 4 (21.5 mm deep)		Code SPPRO, hole Ø 6, plug Ø 4 for cable Ø 5.2 (35 mm deep)	
Code VIMAN, self-tapping screw with sleeve (25 mm deep)		Code SPMAN, plug Ø 4 with sleeve (23 mm deep)	
Code SPRAS, flush plug, Ø 4 (13.5 mm deep)		Code VIRAS, flush self-tapping screw (18 mm deep)	

### Transformer TRZ



The smallest conventional transformer of the range, especially developed for the anti-mosquito equipments, a version can be made with the optional integrated neon lamp power supply.

Type	Vin	Freq	Vout	Iout	ED	Output	Notes
TRZ410CL	230V	50Hz	2x2 kV	10 mA	100%	Grounded center	Lamp power supply
TRZ510C	230V	50Hz	2x2,5 kV	10 mA	100%	Grounded center	
TRZ4.509PC	230V	50Hz	1x4,5 kV	9 mA	100%	Grounded pole	



\*\*\*The whole range is available with input voltages between 100 and 400V

### Transformer TRE



Small dimension transformer, it achieves the same performances of medium size transformers with lower costs, largely used for oil and gas burners, available with the secondary insulated for flame detection by ionization of the flame. It can also be applied to anti-mosquito equipment or ozone generators.

Type	Vin	Freq	Vout	Iout	ED	Output	Notes
TRE308C	230V	50Hz	1x1,5 kV	8 mA	100%	Grounded center	
TRE510C	230V	50Hz	2x2,5 kV	10 mA	100%	Grounded center	
TRE820	230V	50Hz	2x4 kV	20 mA	19% on 3'	Grounded center	 
TRE210PC	230V	50Hz	1x2 kV	10 mA	100%	Grounded pole	
TRE410PC	230V	50Hz	1x4 kV	10 mA	100%	Grounded pole	
TRE510PC	230V	50Hz	1x5 kV	10 mA	100%	Grounded pole	
TRE820P	230V	50Hz	1x8 kV	20 mA	19% on 3'	Grounded pole	 
TRE820PISO	230V	50Hz	1x8 kV	20 mA	19% on 3'	Grounded pole	Insulated



\*\*\*The whole range is available with input voltages between 100 and 400V

## Transformer TRS

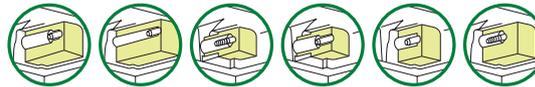


Type	Vin	Freq	Vout	Iout	ED	Output	Notes
TRS513C	230V	50Hz	2x2,5 kV	10 mA	100%	Grounded center	 
TRS812C	230V	50Hz	2x4 kV	12 mA	100%	Grounded center	 
TRS818C	230V	50Hz	2x4 kV	18 mA	100%	Grounded center	
TRS820	230V	50Hz	2x4 kV	20 mA	25% on 4'	Grounded center	 
TRS1020	230V	50Hz	2x5 kV	20 mA	25% on 4'	Grounded center	 
TRS1020	230V	50Hz	2x5 kV	20 mA	33% on 3'	Grounded center	 
TRS1030	230V	50Hz	2x5 kV	30 mA	25% on 4'	Grounded center	
TRS1220	230V	50Hz	2x6 kV	20 mA	25% on 4'	Grounded center	
TRS404PC	230V	50Hz	1x4 kV	4 mA	100%	Grounded pole	
TRS505PC	230V	50Hz	1x5 kV	5 mA	100%	Grounded pole	
TRS508PC	230V	50Hz	1x5 kV	8 mA	100%	Grounded pole	
TRS510PC	230V	50Hz	1x5 kV	10 mA	100%	Grounded pole	
TRS515PC	230V	50Hz	1x5 kV	15 mA	100%	Grounded pole	
TRS6.508PC	230V	50Hz	1x6,5 kV	8 mA	100%	Grounded pole	
TRS606PC	230V	50Hz	1x6,5 kV	6 mA	100%	Grounded pole	
TRS610PC	230V	50Hz	1x6,5 kV	10 mA	100%	Grounded pole	
TRS708PC	230V	50Hz	1x7 kV	8 mA	100%	Grounded pole	
TRS818PC	230V	50Hz	1x8 kV	18 mA	100%	Grounded pole	
TRS820P	230V	50Hz	1x8 kV	20 mA	25% on 4'	Grounded pole	 
TRS723P US	120V	60Hz	1x8 kV	23 mA	25% on 4'	Grounded pole	
TRS820PISO	230V	50Hz	1x8 kV	20 mA	33% on 3'	Grounded pole	Insulated
TRS830P	230V	50Hz	1x8 kV	30 mA	25% on 4'	Grounded pole	
TRS1815CISO	230V	50Hz	1x2 kV	15 mA	100%	Grounded pole	Insulated

Medium-size conventional transformer, suitable for all kinds of gas and oil burners, where continuous or intermittent power and achievement of higher voltages and currents are required. This serie is available in a great number of variations. It suits very different uses such as burners, high-pressure cleaners, anti-mosquito electric equipment and ionizers.



The outlets



The inlets



\*\*\*The whole range is available with input voltages between 100 and 400V

## Transformer TRG



Type	Vin	Freq	Vout	Iout	ED	Output	Notes
TRG1015C	230V	50Hz	2x5 kV	15 mA	100%	Grounded center	 
TRG1020C	230V	50Hz	2x5 kV	20 mA	100%	Grounded center	
TRG1035	230V	50Hz	2x5 kV	35 mA	25% on 4'	Grounded center	 
TRG1035 US	120V	60Hz	2x5 kV	35 mA	25% on 4'	Grounded center	
TRG1225	230V	50Hz	2x6 kV	25 mA	25% on 4'	Grounded center	
TRG1230	230V	50Hz	2x6 kV	30 mA	33% on 3'	Grounded center	
TRG1230	120V	60Hz	2x6 kV	30 mA	25% on 4'	Grounded center	
TRG623PC US	120V	60Hz	1x6 kV	23 mA	100%	Grounded pole	
TRG820PC	230V	50Hz	1x8 kV	20 mA	100%	Grounded pole	
TRG835P	230V	50Hz	1x8 kV	35 mA	25% on 4'	Grounded pole	
TRG1020PC	230V	50Hz	1x10 kV	20 mA	100%	Grounded pole	
TRG1035P	230V	50Hz	1x10 kV	35 mA	25% on 4'	Grounded pole	

Large-size conventional transformer, suitable for large-flow and heavy fuel burners, where continuous power and higher voltages or currents are required. The versions of this range are suitable for use in large-size transformers and industrial high-pressure cleaners.



The outlets



The inlets



\*\*\*The whole range is available with input voltages between 100 and 400V