



# ADVANTAGE

## ✓ Top performance

This advanced machine allows you to even change half of the wave shape and supports a premium Arc.

## ✓ Efficient

The high speed very efficient Inverter with PFC utilizes the maximum out of your input power.

## ✓ Unique LCD

The graphic display makes the machine easy to control.

## ✓ Adjustable cleaning and penetration

for perfect aluminium welding.

## ✓ Variable AC frequency

The adjustable AC frequency (20-200Hz) allows you to focus the arc cone.

## ✓ Adjustable Hot or Soft start

to produce a better weldbead appearance at the start.

## ✓ Fan on demand (F.A.N.™)

built-in reduces power and the intake of dust and fumes.

## ✓ 2 Years Full Parts and Labour Warranty



# PERFECT PERFORMANCE, DIGITAL DYNAMICS

The Invertec® V270-T AC/DC & V320-T AC/DC are industrial TIG welding machines designed and manufactured using the latest inverter digital technology enabling the machines to perform at high outputs : respectively 270A and 320A at 35% duty cycle.

The controller provides all the features you would expect from professional AC/DC TIG inverter welding machines combined with a user-friendly layout. The variable frequency control allows the welder to adjust the arc focus to suit the application.

The machines are equipped with a unique LCD user interface, not only showing welding parameters but also the effect on the arc.

A standard feature is the adjustable cleaning and penetration facility, used to gain the ideal balance between cleaning the aluminum surface of oxide and the penetration of the weld. The machines



operate using a square wave AC form as standard but can be set to an alternative wave form dependent on the welder's needs.

Adjustable Starting current is also available on these machines. With aluminium, a high starting current will support better wetting and improved weld appearance.

The machines are supplied air-cooled as standard, however they can be easily converted to water-cooled with the addition of the Lincoln COOL ARC® 34 water-cooler.

**LINCOLN®**  
**ELECTRIC**

## TECHNICAL SPECIFICATIONS

Product	Item Number	Primary Voltage	Fuse Size	Weight (kg)	Dimensions HxWxD (mm)	Protection/ Insulation Class	Compliance
V270-T AC/DC	K12045-1	230/400V/3/50-60Hz	20A	27.5	432 x 280 x 622	IP23C / H	EN 60974-1 EN 60974-3 EN 60974-10 ROHS
V320-T AC/DC	K12046-1		25A	33			

## COOL ARC® 34

Product	Item Number	Flow Rate	Dimensions HxWxD (mm)	Tank Capacity	Weight (kg)
COOL ARC® 34	K2694-1	2,5 Liters/min.	256 x 280 x 622	5L	16 KG

## WELDING OUTPUT

Product	Current range (A)	Voltage	TIG AC (40°C)		STICK DC (40°C)		O.C.V
			Rated Output Current / Voltage / Duty Cycle	Input Current @ Rated Output	Rated Output Current / Voltage / Duty Cycle	Input Current @ Rated Output	
V270T AC/DC	5-270	400Vac	210 A / 18.4 V / 100%	7.9 A	200A / 28.0 V / 100%	10.4 A	80Vdc
			230 A / 19.2 V / 60%	8.9 A	220A / 28.8 V / 60%	11.9 A	
			270 A / 20.8 V / 35%	11.3 A	270A / 30.8 V / 30%	15.6 A	
		200 A / 18 V / 100%	12.8 A	200A / 28.0 V / 100%	18.6 A		
V320T AC/DC	3-320	400Vac	220 A / 18.8 V / 60%	14.7 A	210 A / 28.4 V / 60%	19.8 A	
			270 A / 20.8 V / 30%	20.0 A	270A / 30.8 V / 25%	27.8 A	
			250 A / 20 V / 100%	10.0 A	230A / 29.2 V / 100%	12.5 A	
		280 A / 21.2 V / 60%	11.8 A	250A / 30 V / 60%	14.0 A		
V320T AC/DC	3-320	400Vac	320 A / 22.8 V / 35%	14.5 A	300A / 32 V / 30%	17.8 A	
			220 A / 18.8 V / 100%	14.7 A	200A / 28.0 V / 100%	18.6 A	
			260 A / 20.4 V / 60%	18.7 A	230A / 29.2 V / 60%	22.3 A	
		320 A / 22.8 V / 30%	26.4 A	300A / 32 V / 20%	32.3 A		

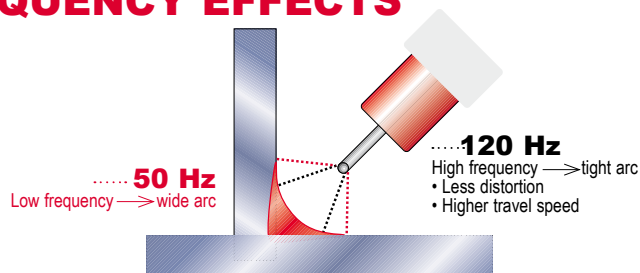
## ACCESSORIES

Item Number	Description
K10095-1-15m	Hand amptrol 15m
K870	Foot amptrol
GRD-300-50-5m	Ground cable 5m
K10420-1	Acorox (2 x 5L)
K2694-1	Undercarriage
K10513-18-4	LT 18 W Water-cooled TIG Torch 4m
K10513-26-4	LT 26 G Gas-cooled TIG torch 4m

## DYNAMIC DISPLAY™ ICONS

PARAMETERS	SYMBOL	
	Min	Max
AC Frequency		
AC Balance		
Pulse Frequency		
Hot Start		
Arc Force		

## FREQUENCY EFFECTS



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# LINCOLN® ELECTRIC

Your Lincoln Electric Distributor:

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