

# MINI

Thyristor control DC TIG Welding Machine

The single-phase model for TIG and manual welding  
Very suitable for the thin plate welding.



MINI150

The economical model featuring high reliability and portability

DC TIG Manual

## Providing excellent TIG welding performance through the IC+ thyristor control.

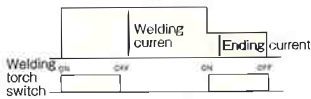
The performance of arc starting and the arc stability are excellent. MINI makes it possible to simplify the operation and improve the quality of thin plate welding. Also it is very suitable for tack welding and small objects welding.

### High frequency starting

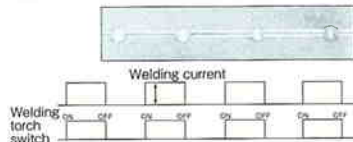
It prevents the pollution when the tungsten electrodes touch the surface of work-piece for arc start.

### Changeover of ending control modes

It is easy to achieve excellent performance of arc ending.



It is very suitable for tack welding.



### DC manual arc welding

For welding mild steel, stainless steel, high-strength steel, etc., by using the welding rod having the diameter up to  $\phi 4\text{mm}$ .

### Single-phase compact design

Enjoying multiple functions and high suitability just by using the single-phase power unit as small-size AC models do.

### The built-in thermal protector

In case the temperature rises abnormally due to overload, welding stops and the indicator lights up.

## Rated specifications

Model	YC-150TM	
Control mode	Thyristor	
Rated input voltage, number of phases	AC220V Single phase	
Input power frequency	Hz	50/60
Rated input capacity	kVA/kW	11.4/6.3
Rated output current	A	150
Rated output voltage	V	16
Rated duty cycle	%	20
Output current range	TIG	A 8~150
	Manual arc welding	A 8~150
Output voltage range	TIG	V 16~17
	Manual arc welding	V 20~26
Crater current	A	8~150
Pre-flow time	s	0.5
Post-flow time	s	2~15
Control mode for crater current	Two control modes for crater, i.e. "YES", "NO"	
Arc starting mode	High-frequency arc starting	
Enclosure protection class	IP21S	
Insulation class	H	
Cooling mode	Forced air cooling	
Overall dimensions (W x D x H)	mm 300x460x520	
Mass	kg	62

## Wide variety of options

### Water cooling unit

- High cooling capacity (60% up from former model)
- Tool is not necessary to change or supply coolant
- No pump-priming is needed
- Standard equipment  
Flow switch, fixing legs



### Rated specification

	YX-09KGC1 (standard type)	YX-09KGB1 (Insulated type)
Rated input voltage	V	200(+/-10%)
Phase	—	Single phase
Frequency	Hz	50 / 60(common)
Input power	W	230 / 330
Coolant capacity	L	9
Cooling system	—	Forced air cooling system with radiator
Coolant circulating system	—	Forced circulation system with pump
Cooling ability	kJ/min	200
Flow rate of coolant*1	L/min	2.2 / 2.6
Head of coolant*1	m	20 / 25
Maximum load	kg	60
Dimensions(WxDxH)	mm	380x545*2x474
Mass	kg	31 / 37

\*1 When our standard 300A water cooled TIG welding torch(4m) is connected.  
\*2 The figure does not include the refill inlet of the tank.

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### Welding torch applicable to this product

Water cooled torch (Rated current/Duty cycle)	YX-09KGC1 (standard type)	YX-09KGB1 (Insulated type)
CO <sub>2</sub> /MAG/MIG torch (500A / 80%)	○	○
Standard TIG torch (300A / 100%), (500A / 60%)	○	○
TIG torch with DC pulse arc start type TIG welder	×	○

■ Please use fixing bracket to fix with Panasonic's welding machine