



SPECIFICATION

HAIFEI INTELLIGENT EQUIPMENT CO. LTD

Mid Frequency Diffusion Welder for Copper

Model: HFTD-150-QY

1 set

Part Name	Description	Brand / Model No.	Quantity
Power Supplies			
1 Mid Frequency Transformer	Max.short cut current 40KA	TD-150 HAIFEI, China	1 set
Pressure Supplies			
2 Air liquid booster cylinder		Ø160*120mm HAIFEI, China	1 set
PLC controller			
3 PLC controller	Digital control circuit	Japan	1 set
	Touch Screen	Flexem, China	1 set
	Circuit breaker, air switch	Schneider, France	1 set
4 Inverse circuit	Medium frequency switch	IGBT Japan	2 sets
	Semi-control rectification	SCR Semikron, Germany	4 sets
	Welding capacitor	Japan	4 sets
	80% of the other components come from international brands		
5 Welding loop parts	copper strip and the copper plate, etc		1 set
6 Upper and bottom welding platform	high quality copper material, precisely machined		1 set
7 Cooling water circuit and protection circuit			1 set
	Water cooling	Water flow switch CATO, China	
The water flow switch is installed in the total circuit of water cooling system. If cooling water flow is insufficient, the controller will automatically give alarm and shut down.			
8 Infrared temperature detection system			1 set
9 Body frame	High strength thick steel plates		1 set
10 Down-to-earth switch			1 set
11 Welding Consumables			1 set
Graphite block			



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Main parts

1	Transformer
2	Air liquid booster cylinder
3	PLC controller Touch Screen, control circuit
4	Inverse circuit IGBT, SCR, switches
5	Copper connection strip and copper plate
6	Upper and bottom welding platform
7	Cooling water circuit and protection circuit
8	Infrared temperature detection system
9	Body frame
10	Down-to-earth switch
11	Graphite block

Mid Frequency Diffusion Welder for Copper
HFTD-150-QY
The picture is only for reference.



Main Parameters

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Main Parameters

1	Part Name	Mid Frequency Diffusion Welder for Copper
2	Model	HFTD-150-QY
3	Rated capacity	150KVA
4	Rated duty cycle	50%
5	Input power	380V±10% 50HZ 3 phases
6	Primary input current Max.	200A
7	Primary cable	3*30+2*16 mm ²
8	Secondary short-circuit current Max.	40KA
9	Secondary empty voltage	7.5 - 9.7V
10	Transformer insulation grade	Grade F
11	Cooling water demand	0.2~0.3MPa, 40 micron filtration, Resistivity of 5 kΩ. cm
12	Cooling water flow rate	50 L/min water temperature ≤30℃
13	Air liquid booster cylinder diameter	Ø160*120mm
14	Working pressure Max.	100KN
15	Throat depth	320mm
16	Maximum welding area	60*60*mm stack thickness 20mm
17	Working environment	temperature: 1~45℃ humidity: 20~80%RH