



1Phase ACDC CC

HELIARC® 161 AC/DC POWER SOURCE

Heliarc® 161 AC/DC

- Square wave AC output gives superior welding with improved cleaning and lack of rectification
- AC wave balance control - allows adjustment from maximum cleaning to maximum penetration
- Arc force control - fine tunes arc for stick welding from soft to a high penetration, digging arc
- Two Stroke or Four Stroke with Trigger Lock
- HF starting (AC or DC) and Non-HF Starting (DC)
- Direct connections for Tig torch and electrode holder for maximum convenience
- Adjustable preflow and postflow gas control -protects weld area and extends tungsten life
- Protected against overheating and overcurrent
- Small and portable, inverter based
- 10 to 160A AC & DC TIG Welding
- Adjustable downslope control
- Presettable start current
- Low current draw
- 6 Ready-to-Weld Packages, add shield gas and power to weld

Ordering Information

Heliarc® 161 AC/DC Package Basics

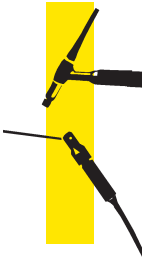
Heliarc® 161 packages listed below include power source, Heliarc® HW-17V TIG torch, TIG accessory kit, Remote Control, R-33-FM-580 Reg/Flowmeter, 12.5 ft. gas hose, 15 ft. Work Cable & 1# Electrodes.

Heliarc® 161 AC/DC Packages

Heliarc® 161 AC/DC w/HW-17V TL 12.5 ft./TC-3A.....	0558002775
Heliarc® 161 AC/DC w/HW-17V TL 25 ft./TC-3A	0558002777
Heliarc® 161 AC/DC w/HW-17V TL 12.5 ft. & 15 ft. Electrode Holder/FC-5B	0558002776
Heliarc® 161 AC/DC w/HW-17V TL 25 ft. & 15 ft. Electrode Holder/FC-5B	0558002778
Heliarc® 161 AC/DC w/HW-17 12.5 ft. & 15 ft. Electrode Holder/TC-2B	0558004452
Heliarc® 161 AC/DC w/HW-17 25 ft. & 15 ft. Electrode Holder/TC-2B	0558004453

Options & Accessories

HW-17 Accessory Kit.....	999126
R-33 FM 580 Reg/Flowmeter	21557
Primary Extension Cord (25 ft.) 50 amp.....	37833
FC-5C Foot Control	0558004234
Work Cable 15 ft. TL	35881
Gas Hose 6 ft.	31503
Gas Hose 12-1/2 ft.	40V77
Gas Hose 25 ft.	34V38
HW-17V TL 12-1/2 ft.	35857
HW-17V TL 25 ft.	35856
Electrode Holder 15 ft. 175 amp.....	0558001791



Tee Connector (1 Male/2 Female)	13792804
Torch Adaptor HW-17 Std. to Twist Lock	0558002692
(This adaptor allows a standard one piece HW-17 to a 50 mm Twist Lock.)	
TC-3A Remote Torch Switch - 30 ft. cable with 14 pin plug	35783
Provides on/off contactor control.	
(Note: Does not provide current control.)	
TC-2B Torch Control - 25 ft. cable with 14 pin plug	33839
Attach to torch handle. Provides remote current and contactor control.	
50 mm Connectors - quick-acting twist lock connectors for attaching output power cables or torches to power source:	
Male for 1/0 to 4/0 cable.....	13792513
Female for 1/0 to 4/0 cable.....	13735631
Male for #2 AWG to 1/0 cable.....	13733936
Female for #2 AWG to 1/0 cable	13735632
Quick connector with 1/2 in. threaded stud.....	13735501
Tee connector- 1 male, 2 female	13792804

Specifications

Heliarc® 161 AC/DC

Primary Input Voltage/Phase	208/230 vac, 1 ph., 50/60 Hz.
Primary Input Current @ Rated Load.....	30/27 Amps
Efficiency	83%
Power Factor.....	.81
TIG Duty Cycle & Rated Output	40% - 160 amps @ 16.4 V
STICK Duty Cycle & Rated Output	35% - 160 amps @ 26.0 V
Open Circuit Voltage (max)	50V
Net Weight	28.7 lbs. (13 kg)
W x L x H.....	8.0 in. (20 cm) x 14.4 in. (37 cm) x 16.4 in. (42 cm)

Instruction Manual	F-15-655
Sales Literature	
Heliarc 161.....	(12-01-2006) ARC-23101

Tig / Stick Power Sources