

Red-D-Arc Welderentals

When you're ready to weld.

Red-D-Arc Welderentals, an Airgas company, is North America's leading provider of rental welding products and services, with over 50,000 units in a fleet that includes welders, welding positioners and other welding-related equipment, for almost any type of welding process and application.

D302K 3+12 Diesel Welder



300 AMP DC CC CV WELDER/GENERATOR

EXTREME-DUTY SPECIFICATIONS

KUBOTA V1505 DIESEL ENGINE POWER

12kW 120/240 VAC AUXILIARY POWER



Airgas

1-866-733-3272
Rental Centers Across North America

D302K 3+12 Diesel Welder

Processes

Stick, MIG, Lift-Arc DC TIG, Flux-Cored Welding and Air Carbon Arc Gouging

Description

The D302K 3+12 is a 300 amp @ 60% duty cycle, constant current, constant voltage, DC diesel engine-driven welder with 12,000 watts peak and 10,000 watts continuous 120/240 VAC auxiliary power. Its high-efficiency, three-phase welding generator requires less fuel and has enough power for gouging with up to 1/4" carbons. Output adjustment is via a potentiometer-type, full-range, Amperage/Voltage Adjust Control and a six-range Process/Contactor Control switch which includes four arc drive (dig) settings in Stick mode. Remote contactor control, as well as remote amperage and voltage control, are via 3-pin and 14-pin MS style receptacles mounted on the front control panel.

Engine

Kubota V1505-E2BG1, Tier 2, liquid-cooled, four cylinder, 20.2 HP @ 1800 rpm, 92 cu.in. with automatic engine shutdown

Features

Low Noise Level of only 74 dba at 13 ft (94 Lwa) at maximum output

Thermal Overload Protection prevents machine damage if the duty cycle is exceeded or airflow is blocked

Dual Digital Weld Ammeter and Voltmeter with Troubleshooting Diagnostic Display

Tailored Arc Control (DIG) allows arc characteristics to be changed for specific applications and electrodes

Auto Sense Remote (ASR) automatically detects a remote control connection in both Remote Control Receptacles

3-pin Remote Control Receptacle for operation with Red-D-Arc potentiometer-type remote controls

14-pin Remote Control Receptacle for operation with 24 volt and 115 volt wirefeeders

Lift-Arc for DC TIG arc starting without the use of a high-frequency generator

Automatic OCV Reduction (Low CV) drops open-circuit voltage to 41 V when the welding machine is not in use

Kubota V1505 clean running Tier 2 industrial diesel engine designed for 10,000 hours before first basic overhaul

Runs at a constant 1800 RPM for longer service intervals, long engine life and low operating expenses

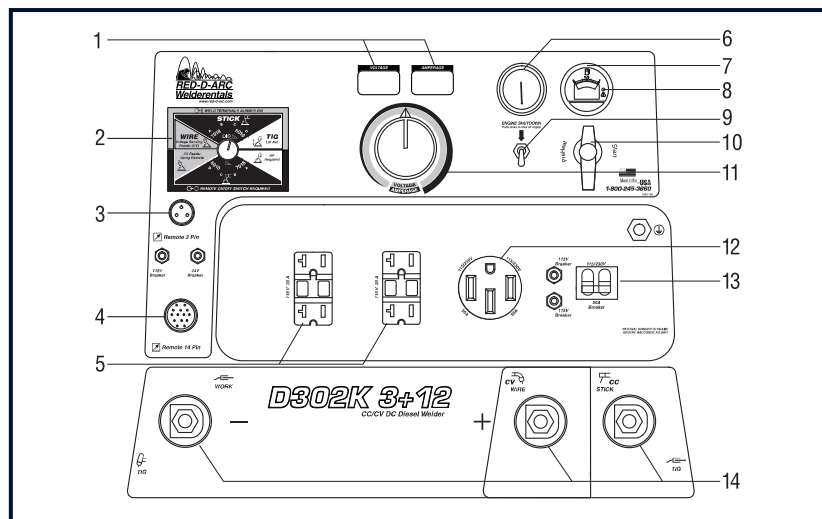
Fuel Level Gauge/Hourmeter with Engine Shutdown Indicator Light and Battery Ammeter

Two 120 VAC, 20 A GFCI Duplex Receptacles and one 120/240 VAC, 50 A Receptacle

Specifications

DC AMPERAGE RANGE	20 - 410 A Stick/TIG
MAXIMUM OCV	65 V
RATED CC OUTPUT	300 A at 32 VDC, 60% duty cycle 400 A at 23 VDC, 30% duty cycle
DC VOLTAGE RANGE	14 - 40 V MIG
AUXILIARY POWER	12,000 Watts Peak 10,000 Watts Continuous 120/240 VAC, 84/42 A Single-phase, 60 Hz
WEIGHT (with fuel)	1200 lb (544 kg)
FUEL CAPACITY	11.5 gal (43.5 L)
FUEL TYPE	No. 2-D (ASTM D975) only
ENGINE OIL CAPACITY	6.34 qt (6 L)
ENGINE OIL TYPE	above CD grade
OIL FILTER	Kubota 16271-32090
COOLANT CAPACITY	6 qt (5.7 L)
DIMENSIONS	H: 32" (813 mm) W: 26" (660 mm) L: 56" (1422 mm)
OPERATOR MANUAL	OM-4424
TECHNICAL MANUAL	TM-4424B

Control Panel



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|---------------------------------------|---|
| 1. Digital Voltmeter and Ammeter | 8. Engine Light Indicator |
| 2. Process/Contactor Control | 9. Engine Shutdown Switch |
| 3. 3-Pin Remote Control Receptacle | 10. Start/Preheat Switch |
| 4. 14-Pin Remote Control Receptacle | 11. Amperage/Voltage Adjust Control |
| 5. 120 V, 20 A GFCI Duplex Receptacle | 12. 120/240 V, 50 A Receptacle (NEMA 14-50) |
| 6. Battery Ammeter | 13. Generator Power Circuit Breakers |
| 7. Fuel Gauge/Hourmeter | 14. Work (-), CV, Stick Output Terminals |