

AIR VANTAGE® 600 SD HYDRAULIC

Engine Driven Welder with More Power and More Options

Do More With More Power

- This true four-in-one machine is the only one of its kind on the market to combine a powerful 600-amp welder, 20,000-watt continuous AC generator, 60-cfm air compressor and 10-gpm hydraulic pump.
- Ideal for heavy equipment, railroad, and utility repair amongst other heavy duty applications.
- Weld with up to 1/4 in. (6.4 mm) stick and 0.120 in. (3.0 mm) flux-cored wire.
- Get substantial gouging capability with up to a 3/8-inch carbon.

Pumped Up Potential

- Hydraulic pump enables the Air Vantage to replace several units on your truck.
- Powered by a 65.7HP Deutz® engine.
- Run a variety of hydraulic-powered equipment: truck-mounted boom, truck levelers, clamping fixtures, impact guns and more.

Lower Cost, Fewer Emissions

- First four-in-one machine at this capacity that can operate independent of a running truck engine.
- Reduce fuel consumption, run time, emissions, and maintenance costs on your truck engine.



Shown
K4343-1

Processes

Stick, TIG, MIG, Flux-Cored, Arc Gouging

Output



Input



Applications

- Heavy Equipment Repair
- Railroad Repair
- Energy Utility Repair
- Construction
- General Fabrication

Product Highlights

- 4-in-1 machine allows you to shut your truck engine off
- Power almost any tool at the job site – electric, air-driven, hydraulic, including plasma cutters, needle scalers, and impact guns
- ArcLink® Communications Protocol

Key Accessories

- 25 ft. (7.5 m), 100 ft. (30.48 m), 125 ft. (38.1 m) remote control
- LN-25 Ironworker® Across-the-arc wire feeder
- Power Feed® 25 m wire feeder
- Tomahawk® 1000 plasma cutter

SPECIFICATIONS

AIR VANTAGE 600 SD - OUTPUT

Product Number	Description	Rated Output at 104° F (40° C) Current/Volts/Duty Cycle	Welding Range	Open Circuit Voltage	AC Generator Power ⁽¹⁾	Dimensions ⁽²⁾⁽³⁾ H x W x L in (mm)	Weight lb (kg)
K4343-1	Air Vantage 600 SD Hydraulic	600A DC/40V/60% 575 A DC/43V/100%	30-600A CC/CV 20-350A GTAW	60V Max OCV@ 1800 RPM	120/240 VAC Continuous Single Phase: 12,000 watts 60Hz Continuous Three Phase: 20,000 watts 60 Hz	42 x 32.9 x 69 (1067 x 836 x 1753)	1800 (816)

(1) Output range in watts is equivalent to volt-amperes at unity power factor. Output voltage is within +/- 10 percent at all loads up to rated capacity. When welding, available AC generator power will be reduced.

(2) Height to top of enclosure. Add 16.11 in. [409.2 mm] for exhaust and air cleaner.

(3) Width includes door. Base is 31.6 in. [803 mm] wide.

AIR VANTAGE 600 SD - INPUT

Engine Model	Description	Speed (RPM)	Displacement	Starting System	Capacities
Deutz TD2.9L4 Diesel Engine	4 cyl. 65.7HP (49 kw) Turbo-Charged Water-Cooled Diesel Engine	High Idle: 1800 Low Idle: 1525	178 cu in (2.9L) Bore x Stroke 3.62 x 4.33 in (92 x 110 mm)	12VDC Battery and Starter w/ Automatic Glow Plugs	Fuel: 25 U.S. gal (94.6L) Oil: 2.25 U.S. gal (8.5L)

AIR VANTAGE 600 SD - AIR COMPRESSOR

Model	Description	Delivery	Maximum System Pressure	Compressor Protection	Capacities
VMAC® S700162	Belt-Driven Rotary Screw Type 12V Electro-Clutch	High Idle 60 cfm @ 100 psi (28.3 ltr/sec @ 7.0 Kg/cm)	150 psi (10.5 kg/cm ²)	Safety Relief Valve: 200 psi (14.1 kg/cm ²)	1.1 gal (4.0 ltrs)

AIR VANTAGE 600 SD - HYDRAULIC PUMP

Model	Description	Output @ High Idle	Inlet Fitting	Outlet Fitting
Casappa® PHP20	Belt-driven Cast Iron Gear Pump 12V Electro-clutch	10 gal/min @ 3000 psi	SAE12, 37 degrees JIC male flare	SAE10, 37 degrees JIC male flare

CUSTOMER ASSISTANCE POLICY

The Lincoln Electric Company is manufacturing and selling high quality welding equipment, consumables, and cutting equipment. Our challenge is to meet the needs of our customers and to exceed their expectations. On occasion, purchasers may ask Lincoln Electric for information or advice about their use of our products. Our employees respond to inquiries to the best of their ability based on information provided to them by the customers and the knowledge they may have concerning the application. Our employees, however, are not in a position to verify the information provided or to evaluate the engineering requirements for the particular weldment. Accordingly, Lincoln Electric does not warrant or guarantee or assume any liability with respect to such information or advice. Moreover, the provision of such information or advice does not create, expand, or alter any warranty on our products. Any express or implied warranty that might arise from the information or advice, including any implied warranty of merchantability or any warranty of fitness for any customers' particular purpose is specifically disclaimed.

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