

# AIR VANTAGE® 600X-I

## Diesel Engine Driven Welder/Generator



Shown  
K4394-2

### Durability for the Harshest Environments

#### POWERFUL

- Equipped with a 65.7 hp, turbocharged Deutz® diesel engine
- Up to 600 amps of welding output to handle 3/8 in. (9.5 mm) carbons
- Integrated 60 cfm (1.7 cmm) VMAC® air compressor

#### DEPENDABLE

- Field-proven ruggedness - Encapsulated GFCIs, stainless steel paneling, and potted PC boards for added protection and durability
- Reliable cold-weather starting and high altitude performance

#### CAPABLE

- Expanded welding capabilities for stainless, aluminum, and steel as well as advanced SAW and orbital pipe modes<sup>1</sup>
- Pulse welding capability for better arc control in out-of-position work and low heat input for critical welds<sup>1</sup>
- **CROSSLINC® ENABLED<sup>2</sup>**
  - Change weld parameters at the arc without an additional control cable to help increase productivity, promote safety, and improve weld quality

(1) Requires ArcLink® Communications accessory.

(2) Requires CrossLinc enabled accessory.

#### Processes »

SMAW (Stick), FCAW (Flux-Cored), GMAW (MIG), GMAW-P (Pulsed MIG), GTAW (TIG), CAC-A (Arc Gouging)

#### Output »



#### Input »



#### Product Number »

K4394-2

#### Industries Served »

- Maintenance & Repair
- Pipeline
- Power Generation
- Shipbuilding
- Structural

#### Key Accessories »

- LN-25X® Wire Feeder
- Activ8X® Wire Feeder
- CrossLinc Remote
- PF-25M™ Wire Feeder
- Large Two-Wheeled Trailer

## MACHINE SPECIFICATIONS

Product Name	Product Number	Rated Output @104°F (40°C)	Output Range	Open Circuit Voltage	AC Generator Auxiliary Power <sup>(1)</sup>	Auxiliary Receptacles <sup>(2)</sup>	Dimensions <sup>(3)</sup> H x W x L in (mm)	Weight lb (kg) <sup>(4)</sup>
Air Vantage 600X-I	K4394-2	IEC Rating – 575A / 43V / 100%  Max Rating – 600A / 40V / 60%	CC-Stick: 30 – 600 Amps  Downhill Pipe (CC): 40 – 350 Amps  Touch Start® TIG: 20 - 350 Amps  CV-Wire: 10 – 45 Volts  Arc Gouging: 60 – 600 Amps	70 Max OCV @ 1800 RPM	Single Phase: 7.8 kW  Continuous, 120V/240V @ 60 Hz  Three Phase: 20 kW Continuous, 240V @ 60 Hz	NEMA 5-20R (120V / 20A / 1-)  NEMA 15-50R (240V / 50A / 3-)  IEC 60309 Yellow 2P+Ground (120V / 15A / 1-)  IEC 60309 Blue 2P+Ground (240V / 15A / 1-)	Machine Only: 42.0 x 32.9 <sup>(3)</sup> x 69.0 (1067 x 836 x 1753)  To Top of Air Intake: 58.1 (1476)	1779 (807)

## ENGINE SPECIFICATIONS

Engine Model	Engine Description	Operating Speed (RPM) @ 65.7 HP	Displacement	Capacities
Deutz® TD2.9L4 <sup>(5)</sup> Tier 3 Compliant	4 Cylinder 65.7 HP (49 kW) Turbocharged Water Cooled Diesel Engine	High Idle: 1800 Low Idle: 1525	178 cu. in (2.9 L) Bore x Stroke 3.62 in x 4.33 in (92 mm x 110 mm)	Fuel: 25 US gal. (94.6 L) Oil: 2.25 US gal. (8.5 L) Cooling System: 2.5 US gal. (9.5L)

## AIR COMPRESSOR SPECIFICATIONS

Compressor Model	Compressor Description	Delivery	Maximum System Pressure	Compressor Protection	Capacities
VMAC <sup>(6)</sup> S700162	Belt-Driven Rotary Screw	High Idle, 60 cfm @ 100 psi (1.7 cmm @ 6.9 bar)	150 psi (10.3 bar)	Safety Relief Valve: 200 psi (13.8 bar)  High Temperature Automatic Shutdown: 290 °F (143 °C)	Compressor Oil: 1.1 gal (4.0L) <sup>(7)</sup>

(1) When welding, available auxiliary power will be reduced. Output voltage is within +/- 10% at all loads up to rated capacity.

(2) Circuits cannot be wired in parallel to operate the same device.

(3) Includes width of door. Base width is 31.6" (803 mm).

(4) Machine only – Does not include fuel.

(5) Engine warranted separately by engine manufacturer.

(6) Compressor warranted separately by compressor manufacturer.

(7) VMAC® synthetic compressor oil recommended for best operation results, or oil approved by VMAC®

**For best welding results with Lincoln Electric equipment, always use Lincoln Electric consumables. Visit [www.lincolnelectric.com](http://www.lincolnelectric.com) for more details.**

**Manufactured at a facility with certified ISO Quality and Environmental Management Systems.**

### CUSTOMER ASSISTANCE POLICY

The business of 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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Subject to Change – This information is accurate to the best of our knowledge at the time of printing. Please refer to [www.lincolnelectric.com](http://www.lincolnelectric.com) for any updated information.

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