

AIR VANTAGE® 566X HYDRAULIC

Diesel Engine Driven Welder/Generator



Shown
K4343-4

The Ultimate Utility Machine

POWERFUL

- Equipped with a 65.7 hp, turbocharged Deutz® diesel engine
- True 525 amp machine (IEC rated)
- Integrated 60 cfm VMAc® air compressor with de-icing heater
- Built-in 10 gpm hydraulic pump

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 modes¹
- Pulse welding capability for better arc control in out-of-position work and low heat input for critical welds¹
- CROSSLINC® ENABLED²
 - 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 »

K4343-4

Industries Served »

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

Key Accessories »

- LN-25X® Wire Feeder
- Activ8X® Wire Feeder
- CrossLinc Remote
- PF-25M™ Wire Feeder

MACHINE SPECIFICATIONS

Product Name	Product Number	Rated Output @104°F (40°C)	Output Range	Open Circuit Voltage	AC Generator Auxiliary Power ⁽¹⁾	Auxiliary Receptacles ⁽²⁾	Dimensions ⁽³⁾ H x W x L in (mm)	Weight lb (kg) ⁽⁴⁾
Air Vantage 566X Hydraulic	K4343-4	IEC Rating – 525A / 41V / 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	66 Max OCV @ 1800 RPM	Single Phase: 12 kW Continuous, 120V/240V @ 60 Hz Three Phase: 20 kW Continuous, 240V @ 60 Hz	NEMA 5-20R (120V / 20A / 1-) NEMA 14-50R (120/240V / 50A / 1-) NEMA 15-50R (240V / 50A / 3-)	Machine Only: 42.0 x 32.9 ⁽³⁾ x 69.0 (1067 x 836 x 1753) To Top of Air Intake: 58.1 (1476)	1800 (816)

ENGINE SPECIFICATIONS

Engine Model	Engine Description	Operating Speed (RPM) @ 65.7 HP	Displacement	Capacities
Deutz® TD2.9L4 ⁽⁵⁾ Tier 4 Final 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 ⁽⁶⁾ S700162	Belt Driven Rotary Screw with De-icing Heater	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) ⁽⁷⁾

HYDRAULIC PUMP SPECIFICATIONS

Hydraulic Pump Model	Hydraulic Pump Description	Output at High Idle	Inlet Fitting Connection	Outlet Fitting Connection
Marzocchi® GHP2A	Cast Iron Gear Belt-Driven with 12 Volt Electro-clutch	14 gal/min @ 3000 psi (53 L/min @ 20.7 Mpa)	SAE16, 37° JIC Male Flare	SAE10, 37° JIC Male Flare

(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 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 the 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.

Lincoln Electric is a responsive manufacturer, but the selection and use of specific products sold by Lincoln Electric is solely within the control of, and remains the sole responsibility of, the customer. Many variables beyond the control of Lincoln Electric affect the results obtained in applying these types of fabrication methods and service requirements.

Subject to Change – This information is accurate to the best of our knowledge at the time of printing. Please refer to www.lincolnelectric.com for any updated information.

The Lincoln Electric Company
22801 St. Clair Avenue · Cleveland, OH · 44117-1199 · U.S.A.
www.lincolnelectric.com