

Big Blue® Air Pak™

Issued January 2005 • Index No. ED/10.5

Engine-Driven Welder/
AC Generator/Air Compressor 

Quick Specs

Heavy Industrial Applications

Railroad Maintenance
Mining Maintenance
Maintenance and Repair Rigs

Processes

Stick (SMAW)
MIG (GMAW)
Flux Cored (FCAW)
Submerged Arc (SAW)
AC TIG (GTAW)*
DC TIG (GTAW)

Stud Welding — 1/2 in (12.7 mm)

Air Plasma Cutting
with Optional Spectrum Models

Air Carbon Arc (CAC-A)
1/2 in (12.7 mm) Carbons

Battery Charging/Jump-Starting*
Air Compressor

Output Range

DC Stick 45–750 A MIG/FCAW 14–40 V
DC TIG 20–450 A AC 20–575 A*
Battery Charge 12/24 V, 50–750 A*

*Deluxe Model Only.

Weld Output Rated at 104°F (40°C)

Stick 600 A, 44 V, 26.4 kW, 40% Duty Cycle
Stick 550 A, 42 V, 23.1 kW, 60% Duty Cycle
MIG/FCAW 500 A, 40 V, 20 kW, 100% Duty Cycle
AC TIG 400 A, 26 V, 10.4 kW, 100% Duty Cycle*

Generator Output Rated at 104°F (40°C)

5,500 Watts Peak — 4,000 Watts Continuous
20,000 Watts 3-Phase/12,000 Watts 1-Phase
Continuous*

Air Compressor 100 PSI, 60 CFM, 100% Duty Cycle

Weight Net: 1931 lb (876 kg)
Ship: 1982 lb (899 kg)

The Power of Blue.®

Welder/generator/air compressor.

One machine that will do it all. Designed and built to be the most reliable high-output system in the world.

 **Ingersoll Rand® ultra-reliable industrial rotary screw air compressor.** Belt-driven with automatic belt tensioner with a life expectancy of 30,000 hrs.

Independent compressor controls.

On/off switch for applications not requiring compressed air. At **idle speed** will produce 100 PSI at 40 CFM.

Weatherproof Lexan® nameplate

resists cracking and fading, and is color-coded for ease of operation.

Enclosed robust case design protects internal components from impact and allows air flow to cool and prolong the life of the engine. Also reduces sound levels.

GFCI receptacle as required on most job sites to protect operators from electrical hazards.



DEUTZ turbocharged four-cylinder diesel engine provides ample power at high altitudes.

Low maintenance with easy single-side access to engine and 500 hour oil changes for both engine and compressor.

Quiet at only 70 dB (95 Lwa) when idle, 79 dB (104 Lwa) at maximum output. Improves work site communications.

Hot Start™ provides positive stick electrode starts to make it easy to start all types of electrodes.

Arc-Drive makes welding easy. Automatically enhances Stick welding, especially on pipe, by focusing the arc and preventing the electrode from going out.

Optional AC/DC/battery charge/jump-start for AC TIG welding and 12 or 24 volt batteries. Simply select the battery voltage and connect cables to the separate battery output studs.

(High-frequency unit required for AC TIG.)



Welder/Generator/Air Compressor is warranted by Miller for 3 years, parts and labor.
Engine is warranted by Deutz for 3 years.

MADE IN **USA**
APPLETON, WI



Miller Electric Mfg. Co.
An Illinois Tool Works Company
1635 West Spencer Street
Appleton, WI 54914 USA

International Headquarters
Phone: 920-735-4505
USA FAX: 920-735-4134
Canadian FAX: 920-735-4169
International FAX: 920-735-4125

Web Site
www.MillerWelds.com



Specifications (Subject to change without notice.)



Welding Mode	Weld Output Range	Weld Output Rated at 104° F (40° C) NEMA Amperage and Voltage	Max. Open-Circuit Voltage	Generator Output Rated at 104° F (40° C)	Dimensions**	Weight Without Fuel***
CC/DC	20–750 A	600 A, 44 V, 26.4 kW, 40% Duty Cycle 550 A, 42 V, 23.1 kW, 60% Duty Cycle 500 A, 40 V, 20 kW, 100% Duty Cycle	95	Peak: 5500 watts Continuous: 4000 watts, 120/240 VAC, 34/17 A, 60 Hz while welding Optional kW 3-phase, 20 kW, 36 A, 240 VAC 1-phase, 12 kW, 50 A, 120/240 VAC while not welding	H: 43 in (1092 mm) W: 28-1/2 in (724 mm) D: 67-1/2 in (1715 mm)	Net: 1931 lb (876 kg) Ship: 1982 lb (899 kg) Deluxe Model Net: 1956 lb (887 kg) Ship: 2007 lb (910 kg)
CV/DC	14–40 V	500 A, 40 V, 20 kW, 100% Duty Cycle	56			
CC/AC*	20–575 A	400 A, 36 V, 14.4 kW 100% Duty Cycle	64			
Battery* Charge Jump-Start	12/24 V	750 A, 12 V, Jump-Start 750 A, 24 V, Jump-Start	14/28			

Meets NEMA and IEC output ratings. *Only available on deluxe model. **Additional 7 in (178 mm) to top of exhaust. ***Additional 190 lb (86 kg) when fuel tank is full.

CSA approved.

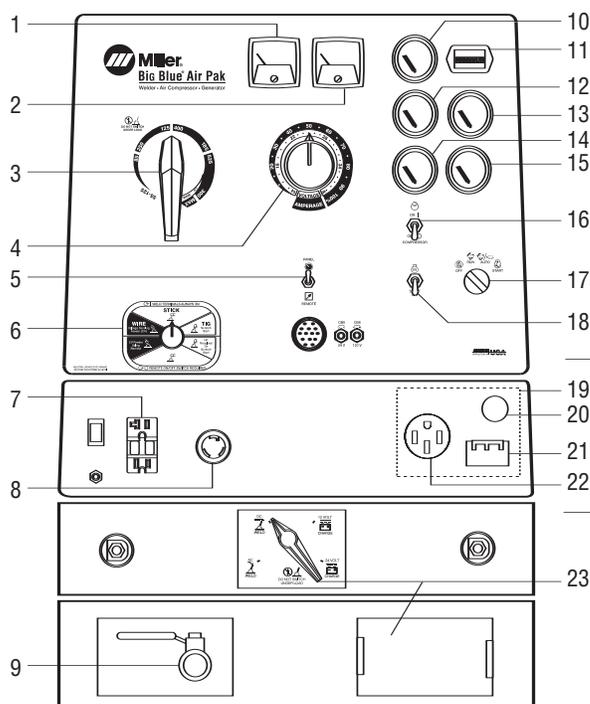
Engine

Engine Brand	Features	HP	Type	Engine Speeds	Fuel Capacity	Oil Capacity	Automatic Engine Shutdowns
 Deutz, BF4M 2011 Diesel	EPA certified, turbocharged direct-injected, liquid-cooled (oil) engine. Right side service access with 500 hr intervals for oil and filters. MSHA approved with purchase of certificate from Deutz dealer.	64	Four-cylinder, industrial, liquid-cooled engine	1850 Run 1235 Idle	25 gal (95 L)	11 qt (10.4 L)	Oil pressure Oil temperature

Air Compressor

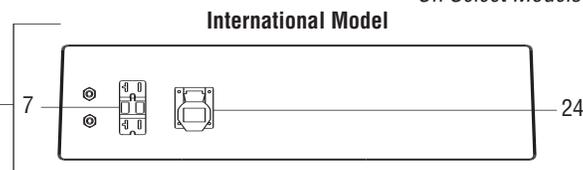
Compressor Brand	Features	Free Air Delivery at 1850 RPM	Free Air Delivery at 1235 RPM	Working Pressure Constant	Duty Cycle	Oil Capacity	Automatic Compressor Shutdowns
 Ingersoll-Rand CE55 G1	Rotary screw with electric clutch for on/off. Oil change intervals 500 hrs (same as engine). Life expectancy 30,000 hrs.	60 cfm (1.70 m³/min)	40 cfm (1.13 m³/min) Idle	100 psig 7 bar	100%	5 qt (4.7 L)	Oil temperature

Control Panel

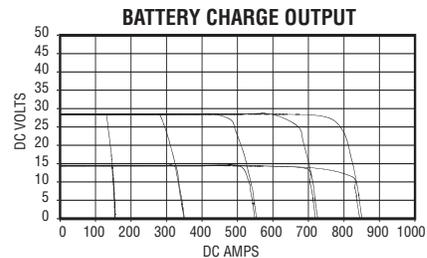
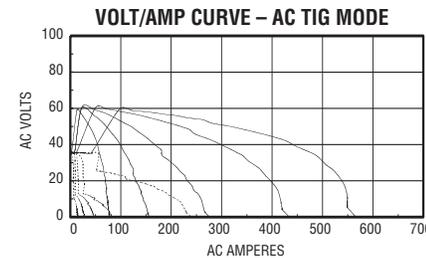
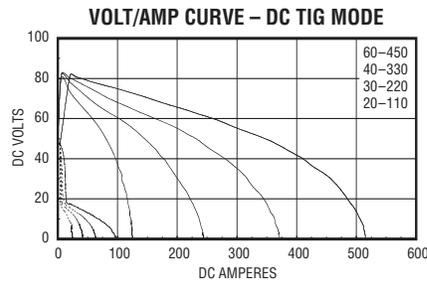
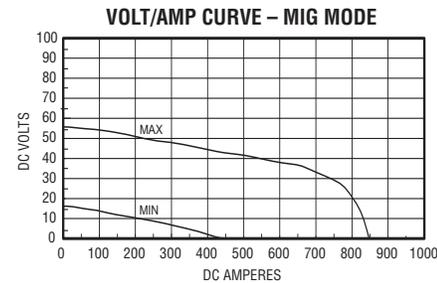
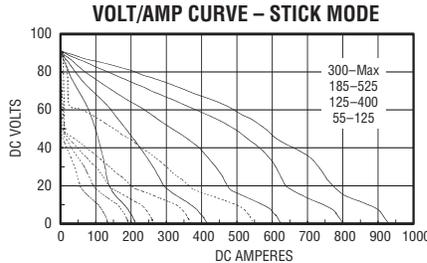
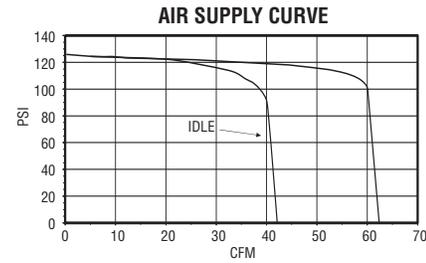
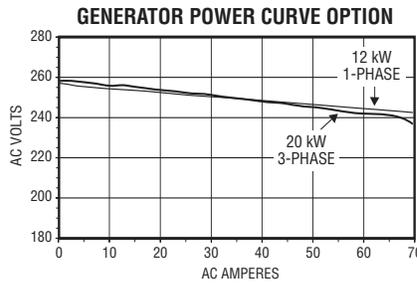
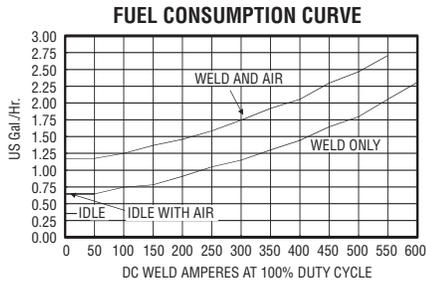


1. AC/DC Voltmeter*
2. AC/DC Ammeter*
3. Amperage Range Switch
4. Amperage/Voltage Adjust Control
5. Amperage/Voltage Adjust Switch and Remote Amperage/Voltage Adjust 14-Pin Receptacle
6. Process/Contactor Selector Switch
7. 120 VAC, 20 A GFCI Duplex Receptacle
8. 240 VAC, 30 A TwistLock Receptacle (NEMA L6-30)
9. Air Outlet Valve 3/4 in NPT
10. Engine Oil Pressure Gauge
11. Engine Hour Meter
12. Engine Coolant Temperature Gauge
13. Fuel Gauge
14. Battery Voltmeter
15. Air Compressor Pressure Gauge
16. Air Compressor On/Off Switch
17. Engine Control Switch
18. Starting Aid Switch*
19. 20 kW, 3-Phase Generator*
20. Strain Relief*
21. 50 A, 3-Phase Circuit Breaker*
22. 50 A, 1-Phase 120/240 V Receptacle (NEMA 14-50)*
23. AC/DC/Battery Charge/Jump-Start Switch*
24. International Model – 240 VAC, 16 A Pin and Sleeve Receptacle

*On Select Models



Performance Data



The Vault
The ultimate in control board reliability. Designed and built to operate in the harshest conditions with a 99.7% reliability rating. This rugged solid-state control has sealed connections made through watertight plugs that make this component impenetrable to dust, moisture and corrosion.



IR Screw Compressor
Belt-driven compressor with an electric clutch allowing the compressor to be turned off if not needed. An automatic belt tensioner provides proper belt tension even after years of service. The compressor is protected by a high-temperature shutdown switch.



Toolless Generator Brushes
100% copper-wound generator brushes features quick and easy brush and slip ring inspection. Brushes can be removed and/or replaced in a matter of seconds.

Genuine Miller Accessories

AC/DC/Battery Charge/Jump-Start Switch #195 148 Field
AC TIG welding and 12/24 V battery charge/jump-starting system.

Lockable Fuel Cap Flame Arrestor Kit #043 947 Field
Fuel cap can be padlocked to prevent vandalism. A built in flame arrestor prevents flames or sparks from entering the fuel tank.

Cold Weather Starting Aids*
#043 959 Field 12 V intake manifold heater.
#195 086 Field 120 V oil pan heater element.
**Note: for extreme cold weather both starting aids can be used in conjunction.*

Weld Ammeter and Voltmeter #195 131 Field
Panel-mounted AC/DC analog meters to monitor weld output.



Desiccant Air Dryer System #195 117
A regenerating inline air dryer system that eliminates moisture in the air stream to prevent air tool freeze-ups in cold climates. Internal thermostat and heating elements insure good air quality in all climates. The system can be mounted on the side of the machine or remotely for truck mount installations.



Vandalism Lockout Kit #195 118 Field
Lockable hinged steel panels cover and protect name plate gauges and ignition switch (padlock included). Also includes engine compartment door lock and key.



Battery Lockout/Tagout Disconnect Switch #195 120 Field
Lockable battery disconnect switch for safe routine maintenance.

Ordering Information

Equipment and Factory Options	Stock No.	Description	Qty.	Price
Big Blue® Air Pak™ CC/CV Base Model	#907 062	Automatic Idle, Engine Gauges, 5.5 kW AC Generator		
	#907 062-01-1	50/60 Hz, Dry Battery, Automatic Idle, Engine Gauges, 5.5 kW AC Generator		
	#907 062-04-1	Automatic Idle, Engine Gauges, 5.5 kW AC Generator, Weld Meters, Battery Lockout/Tagout Disconnect Switch, 12 V Intake Manifold Heater, 120 V Oil Pan Heater		
International Model				
Cold Weather Model				
Deluxe Model	#907 062-07-1	Automatic Idle, Engine Gauges, 5.5 kW AC Generator, Weld Meters, Battery Lockout/Tagout Disconnect Switch, 12 V Intake Manifold Heater, 120 V Oil Pan Heater, Vandalism Lockout Kit, 20 kW Generator, AC/DC/Battery Charge/Jump-Start Switch		
Field Kit Accessories				
Weld Ammeter and Voltmeter Kit	#195 131	AC/DC analog weld output meters		
Lockable Fuel Cap Flame Arrestor	#043 947	Padlock not included		
Cold Weather Starting Aids	#043 959	12 volt intake manifold heater		
	#195 086	120 volt oil pan heater		
Desiccant Air Dryer System	#195 117	Removes moisture from air supply		
Vandalism Lockout Kit	#195 118	Lockable front control panel and engine compartment		
Battery Lockout/Tagout Disconnect Switch	#195 120	Allows machine battery to be disconnected and locked		
AC/DC/Battery Charge/Jump-Start Switch	#195 148	Field		
Cable Holder	#043 946	Stores up to 200 ft of 2/0 weld cable		
Protective Cover	#195 159	Will not fit over machine with cable holder attached		
Remote Controls				
RHC-14	#129 340	Hand control		
RFCS-14	#043 554	Foot control		
RMLS-14	#129 337	Momentary and maintained contact switch		
RCC-14	#151 086	Fingertip control		
Extension Cords	#043 725	25 ft, 14-pin remote controls/24 VAC wire feeders		
	#043 726	50 ft, 14-pin remote controls/24 VAC wire feeders		
	#043 727	75 ft, 14-pin remote controls/24 VAC wire feeders		
Stick Accessories				
Welding Leads	#173 851	2/0, 350 A, 100% Duty Cycle, 50 ft stinger, 50 ft work clamp		
	#043 952	2/0, 300 A, 100% Duty Cycle, 100 ft stinger, 50 ft work clamp		
Wire Feeders				
Suitcase™ 8VS Wire Feeder	#194 890	Includes contactor and gas valve. See Lit. Index No. M/6.4		
Suitcase™ X-TREME™ 12VS	#195 500	Includes contactor and gas valve. See Lit Index No. M/6.41		
Suitcase™ 8RC	#194 938	See Lit Index No. M/6.5		
Suitcase™ 12RC	#194 940	See Lit Index No. M/6.5		
S-32SL Wire Feeder	#109 294	See Lit. Index No. M/6.21		
Guns and Consumables		See Lit. Index No. M/10.0 and M/13.4		
TIG Accessories				
HF-251D-1	#042 388	High frequency unit for AC TIG welding		
Water Coolant System		See Lit. Index No. AY/7.2		
TIG Torch, Consumables				
Trailers and Hitches				
OFR-224 Trailer	#043 802	Off-road trailer with 2650 lb (1202 kg) capacity includes jack stand, safety chains and 2 in (50 mm) ball hitch		
HWY-224 Trailer	#043 805	Highway trailer with 2650 lb (1202 kg) capacity includes jack stand, safety chains, 2 in (50 mm) ball hitch, fender and lights		
HWY-430 Tandem Axle Trailer	#043 806	Highway trailer with 3750 lb (1701 kg) capacity. Hitch must be ordered separately.		
4-West Trailer	#042 801	Off-road steerable trailer with 2570 (1166 kg) capacity		
Lunette Eye	#043 824	2-1/2 in (64 mm). For 224 trailers only		
	#043 863	3 in (76 mm). For 430 trailer only		
Ball Hitch	#043 864	2 in (51 mm). For 430 trailer only		
Clevis	#043 823	For 430 trailer only		
Cable Tree	#043 826	Works on 224 and 430 trailers		

Date:

Total Quoted Price:

Distributed by:

