

HDI™ Air Pak™ Series

Hydraulically-Driven
Multiprocess Welder/Air Compressor/
Generator/Battery Charger/Crank Assist



QUICK SPECS

Processes

- DC stick (SMAW)
- MIG (GMAW)*
- Aluminum MIG (GMAW)*
- Flux-cored (FCAW)*
- DC TIG (GTAW)
- Air carbon arc (CAC-A)
- HDI 265 Air Pak** 3/16-inch carbons
- HDI 325 Air Pak** 3/16-inch carbons (rated)
1/4-inch carbons (capable)

*With wire feeder.

Hydraulic Requirements

Air Compressor (100% duty cycle)

Battery Charge/Crank Assist (12/24 V)

Generator Power (Continuous)

Output Range (DC stick/TIG)
(MIG/flux-cored)

	HDI 265 Air Pak	HDI 325 Air Pak
Hydraulic Requirements	11–13 gpm	16–18 gpm
Air Compressor (100% duty cycle)	40 cfm at 100 psi, 40 cfm max.	58 cfm at 100 psi, 60 cfm max.
Battery Charge/Crank Assist (12/24 V)	150 A charge 300 A crank assist	150 A charge 300 A crank assist
Generator Power (Continuous)	7,000 watts	7,000 watts
Output Range (DC stick/TIG) (MIG/flux-cored)	30–265 A 14–30 V	30–325 A 15–40 V

Powerful hydraulically driven all-in-one unit designed for the rugged work truck industry with air compressor, battery charge/crank assist, auxiliary power, and multiprocess welding. The HDI Air Pak is designed with industry-leading technologies to provide the support and reliability you need on the job, while reducing payload for increased capabilities.



HDI 265 Air Pak and HDI 325 Air Pak (shown) models available.



User interface panel



Battery charge/crank assist panel



Weld output panel



Auxiliary power remote panel
Installation option on both models



Welder/generator/air compressor/hydraulic motor/battery charger is warranted for three years, parts and labor.



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HDI™ Air Pak™ Series Benefits



HDI Air Pak Series configuration:

- Rotary screw air compressor
- Battery charge/crank assist
- Generator power
- Integrated multiprocess welding with Auto-Set™ technology
- Integrated compressor heater
- Hydraulic cooling only mode

Comes standard with user interface panel, battery charge/crank assist panel, and weld output panel.



Smaller and lighter

Maximize truck space and increase payload by reducing equipment footprint by up to 54 percent and weight by up to 400 pounds compared to using an engine-driven welder and separate compressor.



Simple set up

Save time with a single, easy-to-use interface that shows key performance indicators for all systems and allows operators to easily change settings and parameters.



Quieter operation

Reduced sound levels lower noise on the jobsite and operator fatigue.



Proactive maintenance

Alerts help plan necessary service time.



Industry-leading weld quality

Best-in-class welding performance, reliability and support. Technicians are prepared for any welding job they encounter in the field. Auto-Set™ technology makes welding straight forward and accurate for technicians of all skill levels.



Auto-Speed™ technology

Advanced Auto-Speed technology automatically varies engine speed from 1,800–2,800 rpm to match compressed air, battery charge and weld demands — reducing fuel consumption, maintenance costs and noise for more efficient jobsites.



Modular remote panels

Remote panels and outputs for battery charge, welding, and auxiliary power can be installed at the point-of-use for convenience. Eliminate the need to climb onto the truck — reducing risk of slip, trip, or fall injuries.



CAN bus connectivity

Allows the HDI to connect to a telematics system so you can monitor engine data, machine loads and usage. Track service intervals, schedule maintenance proactively and improve diagnostics of your HDI power system.

HDI™ Air Pak™ Series Features



Air compressor

Rotary-screw compressor with 40 cfm (265 model) or 60 cfm (325 model) can power virtually any air tool, including most one-inch impact wrenches. The rotary-screw compressor reliably provides air on demand. Compressor oil heater included.



Integrated multiprocess welding

The HDI Air Pak provides multiprocess weld capabilities with 265 amps (265 model) or 325 amps (325 model) of output (100 percent duty cycle), so technicians are prepared for each welding job they encounter in the field.



Battery charge/crank assist

Up to 150 amps of DC current is produced to quickly charge 12- and 24-volt batteries. Also provides jobsite equipment with weak batteries up to 300 amps of crank assist.



Auto-Set™ technology

Auto-Set offers predefined weld settings to increase ease of use and ensure that the job is done right for operators of all skill levels.



Direct spool gun connection

Make it easy to weld aluminum. Expand the types of jobs you can take on. Adapters are no longer required with the integrated 10-pin connection. Optimized for Spoolmate™ and Spoolmatic® spool guns.



14-pin remote receptacle

Receptacle allows connection of legacy wire feeders and accessories (HDI 325 Air Pak model only).



Generator power

7,000-watt generator can handle most jobsite electrical needs — electrical tools, lights, and more.

The optional auxiliary power panel provides two 120-volt GFCI-protected duplex receptacles and one 120/240-volt receptacle with 60 Hz current.



Hydraulic cooling only mode

When output capabilities are not needed, disable the drive motor of the HDI Air Pak to keep the cooling system operating and cool hydraulic fluid when only other auxiliary hydraulic equipment is needed.

Function and Benefit Guide



User interface panel



Battery charge/crank assist panel



Weld output panel



Auxiliary power remote panel
Installation option on both models

1. **LCD screen/visual dashboard** shows key performance indicators of all system functions and lets operator change settings and configurations easily and quickly.
2. **Welding menu button** enables weld mode. Once in weld mode, select weld process and weld settings.
3. **Battery charge button.** Once in battery charge mode, select either 12V or 24V charge or crank assist.
4. **USB port** allows software updates from a USB drive. A summary file of recorded data from the unit will be saved to a USB drive that is inserted.
5. **Air compressor button** turns the air compressor on/off.

6. **Menu button** provides access to settings, functions, maintenance, and system information menus.
7. **Auto-Set™ control button** activates feature in weld mode.
8. **On/off button** powers unit on and off.
9. **Pushbutton main control knob** to easily navigate settings, change selections, and adjust parameters.
10. **Battery charge/crank assist receptacle** for Anderson-style connection to battery charge/crank assist (12 or 24 volt).
11. **Weld output receptacles (Tweco®-style).**
12. **120 V receptacles w/circuit breakers and 120/240 V, 50 A receptacle (installation option on both models)**
Note: For matching 50 A plug, order 119172.

Hydraulic Pump Specifications

MODEL	HYDRAULIC DRIVE	REQUIRED WORKING PRESSURE	MOTOR SIZE	HIGH SPEED	LOW SPEED	REQUIRED MINIMUM HYDRAULIC FLOW
HDI™ 265 Air Pak™	Gear motor with case drain	3,000 psi (250 bar)	14 cc	2,800 rpm	1,850 rpm	11–13 gpm
HDI™ 325 Air Pak™			19 cc			16–18 gpm

Note: Operating temperature range : -20° to 104°F (-28° to 40°C).

Hydraulic fluid warm up bypass mode until incoming fluid reaches minimum 0°F. Warm up time is variable due to oil viscosity, volume, and ambient air temperature. Hydraulic motor automatic engagement at 0° to 104°F (-17° to 40°C).

Air Compressor Specifications

MODEL	AIR COMPRESSOR BRAND AND WARRANTY	FEATURES	FREE AIR DELIVERY*	WORKING PRESSURE	DUTY CYCLE	OIL CAPACITY	AUTOMATIC COMPRESSOR SHUTDOWNS
HDI™ 265 Air Pak™	Rotorcomp, covered under the Miller® 3-year warranty	Rotary screw with electric clutch for on/off. Oil change intervals 500 hours	40 cfm (1.13 m³/min.)	90–175 psig	100%	3 qt. (2.8 L)	High pressure (200 psi), high temperature
HDI™ 325 Air Pak™			60 cfm (1.70 m³/min.)				

*Rated outputs at generator speed 3,600 rpm / hydraulic motor 2,800 rpm.

Note: Air compressor oil warm up period required which is variable based on ambient air temperature.

Compressor activation at oil temperature -4°F (-20°C). Operation below -20°F (-29°C) requires cold weather package.

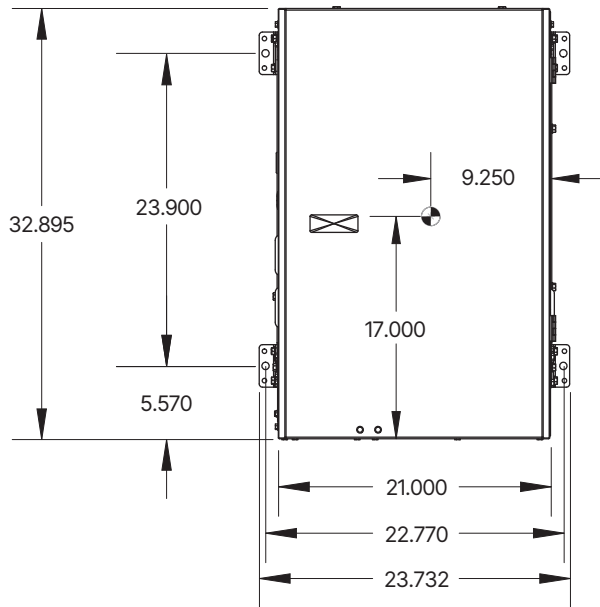
Battery and Weld Specifications

MODEL	PROCESS	OUTPUT RANGES	RATED OUTPUT AT 104°F (40°C)*	SINGLE-PHASE GENERATOR POWER	SOUND LEVELS AT 7 M (23 FT.)	DIMENSIONS	NET WEIGHT**
HDI™ 265 Air Pak™	Battery charge/crank assist	12/24 V	Charge: 150 A, Crank assist: 300 A	Continuous: 7,000 watts Peak: 7,500 watts	62 dB (no load) 74 dB (load)	Machine H: 26.6 in. (676 mm) W: 21 in. (533 mm) D: 32.9 in. (836 mm) Main Control Panel H: 9.61 in. (244 mm) W: 10.3 in. (261 mm) D: 2.7 in. (69 mm)	465 lb. (211 kg)
	DC stick	30–265 A	265 A at 30 V, 100% duty cycle				
	DC TIG	30–265 A					
	MIG/FCAW	14–30 V					
HDI™ 325 Air Pak™	Battery charge/crank assist	12/24 V	Charge: 150 A, Crank assist: 300 A				
	DC stick	30–325 A	325 A at 30 V, 100% duty cycle				
	DC TIG	30–325 A					
	MIG/FCAW	15–40 V					

*Rated at sea level with rated outputs at generator speed 3,600 rpm / hydraulic motor 2,800 rpm.

**Net weight without oil, but with included user interface, weld output, and battery charge/crank assist panels.

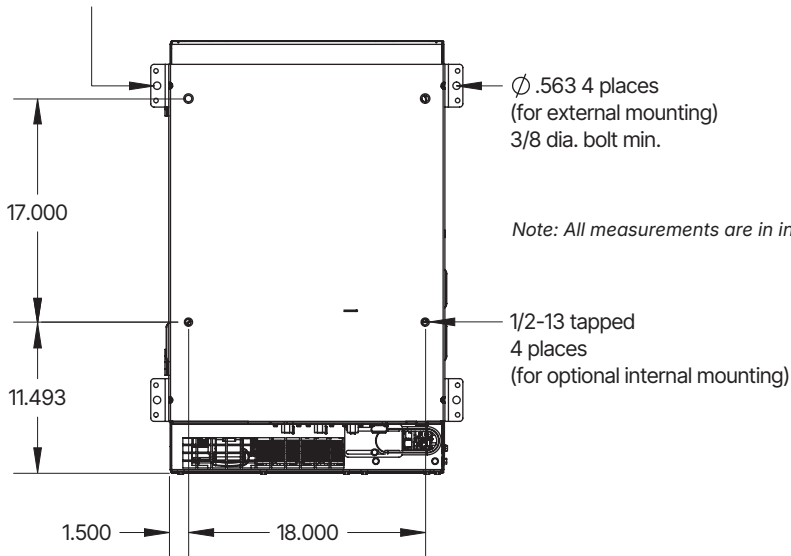
Mounting Specifications (See owner's manual for complete installation requirements.)



For truck installation information, visit MillerWelds.com/WTdrawings

Note: All measurements are in inches.

Ø .563 4 places
(for external mounting)
3/8 dia. bolt min.

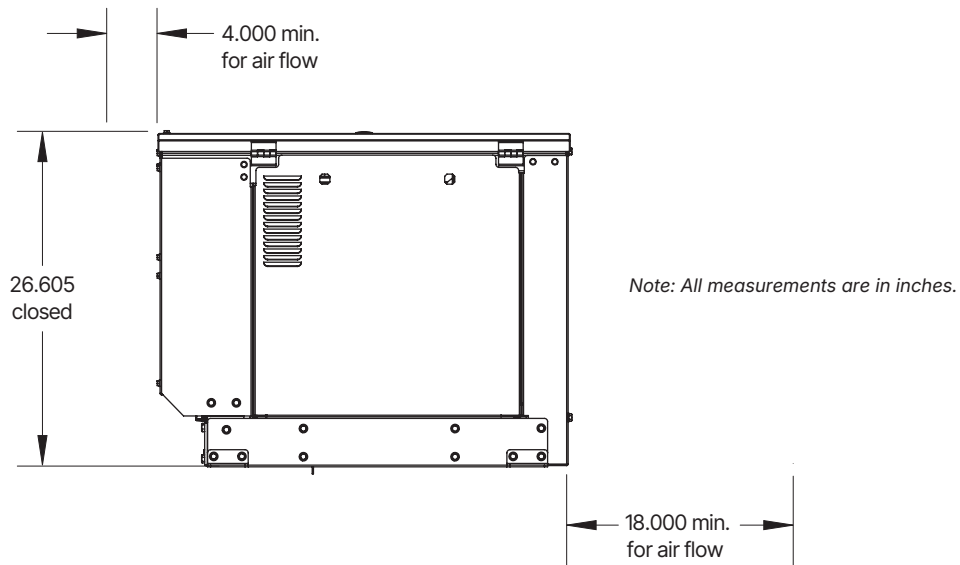
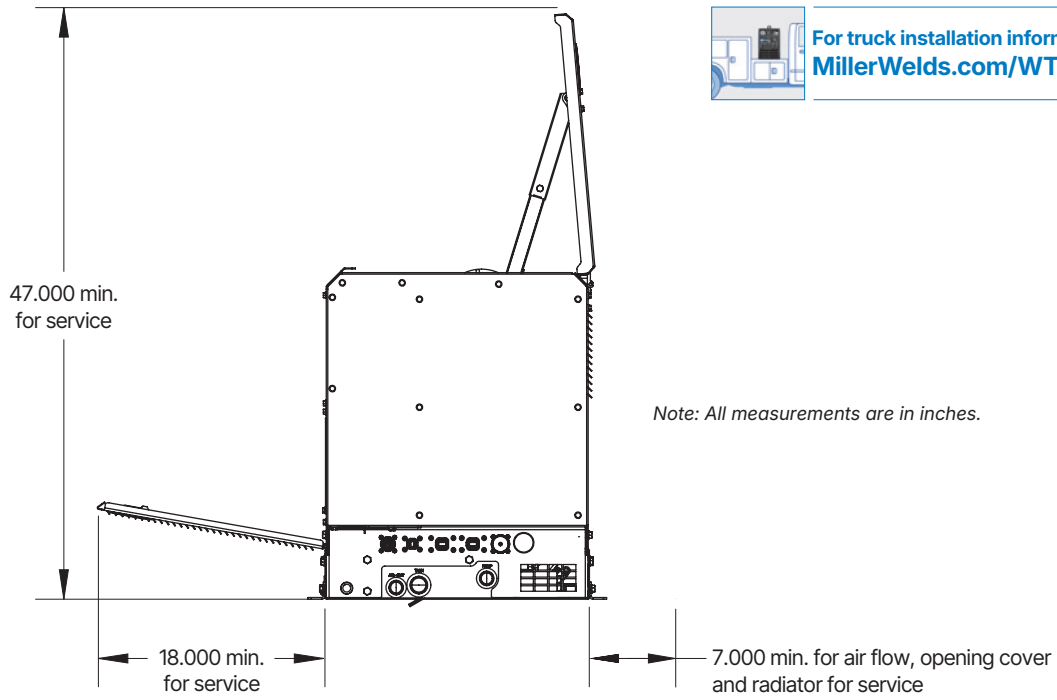


Note: All measurements are in inches.

Mounting Specifications (See owner's manual for complete installation requirements.)



For truck installation information, visit MillerWelds.com/WTdrawings



Genuine Miller® Accessories

Maintenance Kits



Air Compressor Service Kit 279123
Includes compressor oil filter, inlet air filter, oil/air separator and compressor oil.

Accessory Kit Packages



Ready To Work Accessory Kit 951858
Includes auxiliary power remote panel, battery charge/jump cables, and 50 ft. (15.2 m) weld cables with Tweco®-style male connectors and either an electrode holder or work clamp.

Hydraulic Pump Accessories



Hydraulic Tank Reservoir Kit 301612
20 gal. (76 L)

Battery Charge/Crank Assist Accessories



Battery Charge/Jump Cables with Plug 300422 25 ft. (7.6 m)

Crane/Communication Adapters

300832 Six Wire Crane
301857 Stellar CDT
301858 IMT
301859 Auto Crane

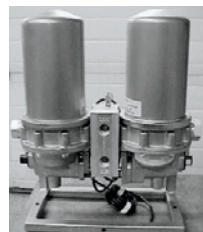
Air Compressor Accessories



Air Dryer Kit 301488

Cools and removes moisture from the air supply.

Note: Not recommended for use below 32°F (0°C). Water condensate in the cooler or separator can freeze causing reduced or blocked airflow.



Desiccant Air Dryer System 195117

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 ensure good air quality in all climates. Side mounted system.

Generator Power Accessories



Auxiliary Power Remote Panel 301562

Includes two 120 V receptacles w/circuit breakers and one 120/240 V, 50 A receptacle. **Cablings NOT included.**



Full KVA Plug Kit 119172

120/240 V, 50 A plug (NEMA 14-50P) to fit full KVA receptacle.

GFCI Receptacle 282067

15/20 A receptacle with mounting tabs.



Full KVA Adapter Cord 300517

NEMA 14-50P to NEMA 6-50R. Adapts engine drive 120/240 V plug to common Millermatic® and Spectrum® 240 V plug.

Female Receptacle



Weld Accessories

2/0 Weld Cable Sets 301566

350 amps, 100 percent duty cycle. 50-foot (15.2 m) cables with Tweco®-style male connectors and either an electrode holder or work clamp.



2/0 Weld Cables

195457 Cable with electrode holder

195458 Cable with work clamp

400 amps, 100 percent duty cycle. 10-foot (3 m) cable with Tweco®-style male connector and either an electrode holder or work clamp. Each includes a stud/Tweco® adapter.



2/0 Weld Cable Extension 195456

50-foot (15 m) cable extends weld cables 195457 and 195458. Two needed for a complete set.



Tweco®-Style Connector 191981

Male Tweco-style plug with cable capacity of #1/0 to #2/0 AWG cable.

Genuine Miller® Accessories

Weld Accessories (continued)



ArcReach® SuitCase® 8
951726001 With Bernard® BTB Gun 300 A
951727001 With Bernard® S-Gun™
951728 With Bernard® Dura-Flux™ gun
ArcReach® SuitCase® 12
951729001 With Bernard® BTB Gun 300 A
951730001 With Bernard® S-Gun™
951731 With Bernard® Dura-Flux™ gun
 Portable feeder designed to run off of arc voltage. See literature M/6.55.



Spoolmatic® 30A Spool Gun 130831
 Rated at 200 amps, 100 percent duty cycle with 30-foot (9 m) cable.



Spoolmate™ 200 Spool Gun 300497
 Rated at 160 amps, 60 percent duty cycle with 20-foot (6 m) cable.

Extension Hose and Cable Kit 132228
 25 ft. (7.6 m). For Spoolmatic 30A and Spoolmate 200 spool guns.

Flow Gauge Regulator 31-50-580
 0–50 scfh, argon/CO₂

Portable Battery-Powered Welders



Venture™ 150 S 951000202
 Includes power source, 400Wh battery pack, battery charger, electrode holder with cable, work clamp with cable, and shoulder strap. Lightweight and compact battery-powered stick/TIG welder with swappable battery packs engineered specifically for welding. See literature BP/1.0.

Plasma Cutters



Spectrum® 375 X-TREME™ 907529
 Comes complete with protective X-CASE™ (not shown). See literature PC/9.2.



Spectrum® 625 X-TREME™ 907579
 Comes complete with protective X-CASE™ (not shown). See literature PC/9.6.

Additional Accessories for HDI™ 325 Air Pak™ Model Only



SuitCase® 12RC Wire Feeder 951580001
 Lightweight and flexible enough to run wires up to .062-inch diameter. Includes remote voltage control, drive roll kit and Bernard® BTB Gun 300 A. See literature M/6.5.



Wireless Remote Hand Control 301582
 For remote current, voltage and contactor control. Receiver plugs directly into the 14-pin receptacle of Miller machine. Up to 300-foot (91.4 m) operating range.

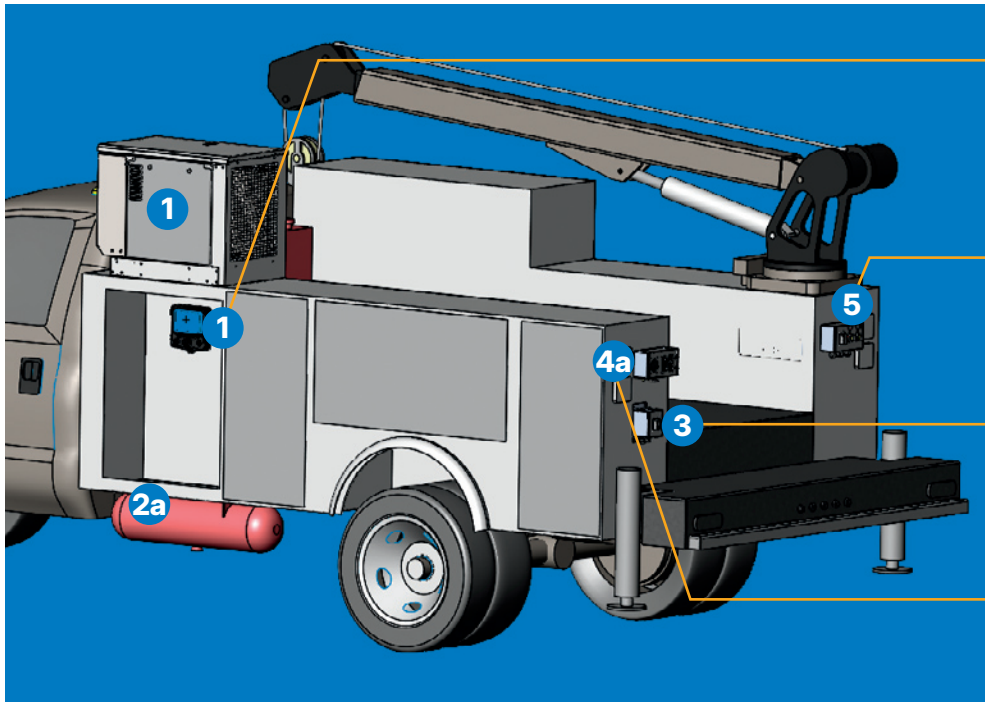


RHC-14 Hand Control 242211020
 Miniature hand control for remote current and contactor control. Dimensions: 4 x 4 x 3.25 inches (102 x 102 x 82 mm). Includes 20-foot (6 m) cord and 14-pin plug.

Extension Cables for 14-Pin Feeders and Controls

242208025 25 ft. (7.6 m)
242208050 50 ft. (15.2 m)
242208080 80 ft. (24.4 m)

HDI™ Air Pak™ Model and Accessories Selection



User interface panel
Included on all models. Includes 30 feet (9 m) of cabling and 3 foot (0.9 m) pigtail on the interface panel.



Weld output panel
Included on all models. Cabling is provided by integrator.



Battery charge/crank assist panel
Included on all models. Cabling is provided by integrator.



Auxiliary power remote panel
Optional on all models. Cabling is provided by integrator.

1 HDI Air Pak Models and Kits

- a** **CHOOSE an HDI Air Pak model**
Included on both models are user interface panel with 30 ft. (9 m) of cabling, weld output panel, battery charge/crank assist panel, hydraulic cooling only mode, and integrated compressor heater
- b** Maintenance kits
- c** Ready to work accessory kit
- d** Hydraulic tank reservoir kit (see page 8)
- e** Crane / communication adapters (see page 8 for options)

HDI Air Pak Series Accessories (sold separately)

2 Air Compressor

- a** **REQUIRES 10-gallon minimum (20-gallon recommended) air reservoir for installation — NOT provided by Miller**
- b** Air dryer kits

3 Battery Charge/Crank Assist

- a** Battery charge / jump assist cables

4 Generator Power

- a** Auxiliary power remote panel
- b** Adapter cords and plugs

5 Weld

- a** Weld cables and connectors (see page 8 for options)
- b** Wire feeders (see page 9 for options)
- c** Spool guns / spool gun accessories (see page 9 for options)

Ordering Information

EQUIPMENT AND OPTIONS	STOCK NO.	DESCRIPTION	QTY.	PRICE
1a HDI™ 265 Air Pak™	907868	Welder, air compressor, generator power, battery charge/crank assist, hydraulic cooling only mode and integrated compressor heater		
HDH™ 325 Air Pak™	907869	Welder, air compressor, generator power, battery charge/crank assist, hydraulic cooling only mode and integrated compressor heater		
Maintenance Kit				
1b Air Compressor Service Kit	279123	Includes compressor oil filter, inlet air filter, oil/air separator and compressor oil		
Accessory Kit Package				
1c Ready To Work Accessory Kit	951858	Includes auxiliary power remote panel (cabling not included), battery charge/jump cables, and 50 ft. (15.2 m) weld cables with Tweco®-style male connectors and either an electrode holder or work clamp		
Hydraulic Pump Accessories				
1d Hydraulic Tank Reservoir Kit	301612	20 gal. (76 L)		
1e Crane/Communication Adapters		See page 8		
Air Compressor Accessories				
2a REQUIRES 10-gallon (20-gallon recommended) minimum air reservoir for installation — NOT provided by Miller				
2b Air Dryer Kit	301488	Cools and removes moisture from the air supply		
Desiccant Air Dryer System	195117	Regenerating inline air dryer system that eliminates moisture in the air stream		
Battery Charge/Crank Assist Accessories				
3a Battery Charge/Jump Cables with Plug	300422	25 ft. (7.6 m)		
Generator Power Accessories				
4a Auxiliary Power Remote Panel	301562	Includes two 120 V receptacles w/circuit breakers and one 120/240 V, 50 A receptacle (no EnVerter receptacles) — cabling NOT included		
4b Full KVA Plug Kit	119172	120/240 V, 50 A plug (NEMA 14-50P) to fit full KVA receptacle		
GFCI Receptacle	282067	15/20 A receptacle with mounting tabs		
Full KVA Adapter Cord	300517	NEMA 14-50P to NEMA 6-50R. Adapts engine drive 120/240 V plug to common Millermatic® and Spectrum® 240 V plug		
Weld Accessories				
5a Weld Cables and Connectors		See page 8		
5b Wire Feeders		See page 9		
5c Spool Guns/Spool Gun Accessories		See page 9		
Portable Battery-Powered Welders				
		See page 9		
Plasma Cutters				
		See page 9 (requires auxiliary power remote panel on page 8)		
Additional Accessories for HDI 325 Air Pak Model Only				
SuitCase® 12RC Wire Feeder	951580001			
Wireless Remote Hand Control	301582			
RHC-14 Hand Control	242211020			
Extension Cables for 14-Pin Feeders and Controls		See page 9		

DATE:

TOTAL QUOTED PRICE:

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