Big Blue® 800X Duo Air Pak™ with ArcReach Technology

Part No: MR907763-1 [Dual VRD]


GAME-CHANGING TECHNOLOGIES CAN STOP YOU FROM WASTING HOURS EVERY DAY.
ArcReach welding technology minimises the non-value-added time spent walking to and from the power source - and maximises arc-on time, weld quality and job site safety.

APPLICATIONS
Pipe Welding
Maintenance & Repair Rigs
Mechanical Contractor
Construction
Mining Maintenance
Railroad Maintenance

PROCESSES
Stick (SMAW)
MIG (GMAW)
Flux-Cored (FCAW)
RMD*
Pulsed MIG* (GMAW-P)
DC TIG (GTAW)
Submerged Arc (SAW)
Stud Welding (13mm)
Air Carbon Arc (CAC-A) (13mm)

*With optional ArcReach Smart Feeder
Big Blue® 800X Duo Air Pak™
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THE MOST POWERFUL DIESEL GENERATOR IN THE INDUSTRY!

MORE POWER
800 Amps of weld power and 27,000 watts of peak generator power.

MULTI-ARC WELDING
› One dependable engine — two independent arcs with up to 400 Amps each. Or plug in an additional inverter for a true multi operator work platform!
› Example: Two additional XMT multi-process machines equals 4 operators, up to 200 Amps each. Premium quality arcs allow operators to work independently with no arc interaction. Multi operator welding has never been easier or more versatile.

AUTO REMOTE SENSE™
Standard 14-pin receptacle. For simple connection of remote controls and wire feeders.

HD POWER COAT
With zinc-rich primer protects sheet metal from rust and corrosion.

INCREASED EFFICIENCY
› More arcs and better fuel economy equal increased profits for your business.
› Estimated savings are 34 percent with a dual-operator unit versus two single operator units.

INERSOLL RAND
› Ultra-reliable industrial rotary screw compressor.
› 30,000-hour life expectancy.
› Independent on/off control for applications not requiring compressed air — allows greater fuel savings and longer compressor service intervals.

DIGITAL METERS
SunVision technology enables welding parameters to be viewed with greater clarity than analogue meters at virtually any angle. Meters can be seen clearly even in direct sunlight.

INDUSTRIAL USB PORT
Quickly upload the latest software and download machine log files to retrieve in-depth information such as diagnostics and machine statistics.

ARC CONTROL
Beneficial when welding with stick and solid wires for easier fine tuning of tough-to-weld materials and out-of-position applications.

SIMPLE PARALLELING SWITCH
Makes switching from a single operator to dual operators a breeze. Weld up to 400 Amps per side when set up in dual-operator mode, or up to 800 Amps in single-operator mode.

20,000 WATTS OF PURE GENERATOR POWER
Plug in an extra Miller inverter-based power source for a second welding arc.

HEAVY-DUTY LOW SPEED T4I INDUSTRIAL DIESEL ENGINES

ENGINE DRIVEN
THE MOST POWERFUL DIESEL GENERATOR IN THE INDUSTRY!

MODEL OPTIONS & UPGRADE PACKAGES PART NO
| Standard Machine Package - Dual VRD | MR907763-1 |
| Basic Upgrade Package - Dual VRD, Emergency Stop, Double Pole Battery Isolator & Lockout Device | MR907763-2 |
| Full Upgrade Package - Dual VRD, Roll Frame & Spill Tray Assembly, Emergency Stop, Double Pole Battery Isolator & Lockout Device | MR907763-3 |

ELECTRONIC ENGINE DISPLAY
Simultaneously displays fuel level, engine hours, coolant temperature, oil pressure, battery volts, engine rpm, and air pressure. It also tracks oil change intervals, compressor hours, and displays engine diagnostics for quick and easy servicing.

STANDARD FEATURES
› ArcReach.
› Digital preset weld meters.
› Automatic idle.
› Vandalism lockout.

<table>
<thead>
<tr>
<th>Model Options &amp; Upgrade Packages</th>
<th>Part No</th>
</tr>
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<tbody>
<tr>
<td>Standard Machine Package - Dual VRD</td>
<td>MR907763-1</td>
</tr>
<tr>
<td>Basic Upgrade Package - Dual VRD, Emergency Stop, Double Pole Battery Isolator &amp; Lockout Device</td>
<td>MR907763-2</td>
</tr>
<tr>
<td>Full Upgrade Package - Dual VRD, Roll Frame &amp; Spill Tray Assembly, Emergency Stop, Double Pole Battery Isolator &amp; Lockout Device</td>
<td>MR907763-3</td>
</tr>
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</table>

*Generator auxiliary power is 60Hz, and intended for operating equipment associated with welding, such as angle grinders, drills and floodlights. Some Australian 50Hz equipment incorporating induction motors, such as pumps, fans, air compressors, refrigeration or air-conditioners, may not operate correctly and could be damaged. Refer to appliance supplier or manufacturer to confirm suitability.
ENGINE DRIVEN

Big Blue® 800X Duo Air Pak™ with ArcReach® Technology

Part No: MR907763-1 [Dual VRD]

ENGINE DRIVEN

MORE ARC-ON TIME & REDUCED EXPOSURE TO WORKPLACE HAZARDS
Less time is spent going back to the welding power supply to set process and arc amperage or voltage.

AUTO-PROCESS SELECT™
Depending on connected accessory, the system automatically changes to stick or MIG/FCAW (with gas) if electrode positive polarity is detected or TIG or FCAW (no gas) if electrode negative polarity is detected, when ArcReach communication is established between the accessory and the Big Blue—reducing the need to access the power supply.

LESS OPERATOR FATIGUE
Operators no longer need to move or reposition heavy secondary weld leads bundled with control cords on the job site because control cables are not used.

AUTOMATIC RETURN TO PANEL SETTINGS
System automatically returns to Big Blue setting when ArcReach communication is terminated. For example, if the Big Blue is set to gouging at 500 Amps and an ArcReach feeder is connected, the Big Blue will go to a MIG/FCAW process. If the feeder is disconnected, the Big Blue will go back to its previous setting (gouging at 500 Amps).

MORE WELDS IN LESS TIME
Operators can precisely set arc amperage or voltage.

REMOTE OVERRIDE OF BIG BLUE
When an ArcReach accessory is connected to a Big Blue the accessory has full control and the Big Blue controls are disabled. While under ArcReach control, process and voltage/amperage adjustments are locked out, preventing accidental changes by personnel other than the welding operator.

SAVETIME
Operators no longer need to troubleshoot welding system problems that result from damaged control cords.

ELIMINATE COSTLY CONTROL CORD REPAIRS
Because control cords are not used.

FLEET COMPATIBILITY
The same ArcReach accessories that work on engine-driven equipment can also be used on select ArcReach-equipped XMT® and PipeWorx 350 FieldPro™ power sources.

REMOTE CONTROL OF THE POWER SOURCE WITHOUT A CONTROL CORD
ArcReach technology uses the existing weld cable to communicate welding control information between the feeder or remote and power source. This technology eliminates the need for control cords, and their associated problems and costs.

FEWER CABLES TO MAINTAIN
Because control cords are not used.

CROSS PLATFORM COMPATIBLE
The same ArcReach accessories that work on engine-driven equipment can also be used on select ArcReach-equipped XMT® and PipeWorx 350 FieldPro™ power sources.

REVERSE COMPATIBLE
ArcReach-equipped power sources work with non-ArcReach accessories; however, the complete ArcReach benefit is only realised with the ArcReach system.

BETTER WELDS WITH LESS REWORK
Remote override of Big Blue
ARCREACH SUITCASE 12 FEATURES

SETTING THE STANDARD FOR PERFORMANCE
Heavy-duty drive motor with tachometer control provides wire feed speed that is accurate and consistent from the start of the weld to the finish and from one weld to the next, which provides consistent arc quality. Front panel has trigger hold, wire jog, and gas purge for easy operator access. Wide voltage range for small and large wires with no contactor chatter or arc outages.

SET VOLTS & WIRE SPEED FEED REMOTELY
The simple interface on the feeder allows operators to adjust parameters at the point of use with no control cords.

EASY SOLUTION FOR TRADITIONAL WIRE PROCESS
Add the flux-cored capability of the Big Blue 800X Air Pak for fill and cap passes for increase productivity.

DURABLE DESIGN REDUCES DOWNTIME
Impact-resistant case and the elimination of feeder control cords provides a solid solution to last in harsh environments.

ARCREACH SMART FEEDER FEATURES

ARCREACH SMART FEEDER DELIVERS EXCELLENT RMD & PULSED MIG WELDING
Up to 60 metres away from the power source with no control cords - twice the distance previously possible. RMD and pulsed MIG processes also help reduce weld failures and eliminate backing gas on some stainless and chrome-moly applications.

EASY PROCESS CHANGEOVER
Simply connect the ArcReach SuitCase feeder to your weld lead and you are ready to go. The power source automatically switches settings to run conventional wire processes.

SYNERGIC PROCESSES
RMD and pulsed MIG welding permits procedures with one wire and one gas to eliminate process switch-over time.

DURABLE DESIGN REDUCES DOWNTIME
Impact-resistant case and the elimination of feeder control cords provides a solid solution to last in harsh environments.

ARCREACH STICK/TIG REMOTE

COMPLETE REMOTE CONTROL
Portable and lightweight, the ArcReach® Stick/TIG Remote paired with an Big Blue 800X Air Pak power source allows you to change weld settings at your work area, saving a trip to the power supply. No extra control cord to purchase, maintain, string or unstring — saving time and money.
**Big Blue® 800X Duo Air Pak™**

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### PRODUCT SPECIFICATIONS

<table>
<thead>
<tr>
<th>WELD. MODE</th>
<th>OUTPUT MODE</th>
<th>WELD OUTPUT RANGE</th>
<th>WELD OUTPUT RATED AT 40° C</th>
<th>MAX OPEN CIRCUIT VOLTAGE</th>
<th>GENERATOR POWER OUTPUT RATED AT 40° C***</th>
<th>DIM. (MM)</th>
<th>WEIGHT* (WITHOUT FUEL)</th>
</tr>
</thead>
<tbody>
<tr>
<td>CC/DC (Stick / TIG)</td>
<td>Separate (Dual Outputs)</td>
<td>20 – 400 A</td>
<td>400 A at 36 V*, 100% Duty Cycle (Each Side)</td>
<td>85 VDC 30 VDC**</td>
<td>415-380V 60Hz 3 Phase 27,000 watts peak, 20,000 watts continuous (dependent of weld output)</td>
<td></td>
<td>Net: 917kg  Ship: 939kg</td>
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<tr>
<td></td>
<td>Paralleled (Combined)</td>
<td>40 – 800 A</td>
<td>700 A at 44 V*, 100% Duty Cycle 800 A at 38 V, 100% Duty Cycle</td>
<td></td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>CV/DC (MIG / FCAW)</td>
<td>Separate (Dual Outputs)</td>
<td>14 – 50 V</td>
<td>400 A at 34 V*, 100% Duty Cycle (Each Side)</td>
<td></td>
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</tr>
<tr>
<td></td>
<td>Paralleled (Combined)</td>
<td>14 – 50 V</td>
<td>750 A at 40 V*, 100% Duty Cycle 800 A at 38 V, 100% Duty Cycle</td>
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</tbody>
</table>

* Meets NEMA and IEC ratings. ** VRD voltage for Stick & Sense voltage for Lift-Arc TIG. *** Will operate either 60Hz or 50/60Hz power tools, lights, etc.

### ENGINE SPECIFICATIONS

<table>
<thead>
<tr>
<th>ENGINE BRAND</th>
<th>HP</th>
<th>TYPE</th>
<th>FEATURES</th>
<th>ENGINE SPEEDS</th>
<th>CAPACITIES</th>
<th>SOUND LEVELS AT 7 M</th>
<th>AUTOMATIC ENGINE SHUT DOWN</th>
</tr>
</thead>
<tbody>
<tr>
<td>Deutz TD2011L04w</td>
<td>63.4</td>
<td>Turbo-charged four-cylinder, liquid-cooled industrial diesel</td>
<td>EPA Tier 4i compliant, includes oil pan and intake manifold heater</td>
<td>Idle: 1350 RPM Weld: 1800 RPM</td>
<td>Fuel: 95 L Oil: 10.4 L Coolant: Integrated Oil</td>
<td>Idle: 73.0 dB (97.8 Lwa), 77.2 dB at one metre from front panel Weld (800 A Load): 81.7 dB (106.5 Lwa), 84.4 dB at one metre from front panel</td>
<td>Low Oil Pressure, High Coolant Temperature, Low Fuel Level</td>
</tr>
</tbody>
</table>

### COMPRESSOR SPECIFICATIONS

<table>
<thead>
<tr>
<th>COMPRESSOR BRAND</th>
<th>FEATURES</th>
<th>FREE AIR DELIVERY</th>
<th>WORKING PRESSURE CONSTANT</th>
<th>DUTY CYCLE</th>
<th>OIL CAPACITY</th>
<th>AUTOMATIC COMPRESSOR SHUT DOWN</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ingersoll Rand CE55 G1</td>
<td>Rotary screw with electric clutch for on/off. Oil change intervals 500 hrs (same as engine). Life expectancy 30,000 hrs.</td>
<td>Idle: 40 cfm (1.13 m³/min) Weld: 60 cfm (1.70 m³/min)</td>
<td>100 PSIG 7 bar</td>
<td>100%</td>
<td>3.79 L</td>
<td>Oil Temperature</td>
</tr>
</tbody>
</table>
## ORDERING INFORMATION - AVAILABLE BASE PACKAGES

### OPTION 1 - MIG/FLUX-CORED SYSTEM

**POWER SOURCE**
- MR907763-1  Big Blue 800X Air Pak with ArcReach Technology

**WIREFEEDER (ALTERNATIVE WIREFEEDERS LISTED BELOW)**
- MR301456  ArcReach Suitcase 12

**REQUIRED ACCESSORIES**
- Interconnecting lead kit for this option is not supplied by WIA
- BEQ4015AH8EMC  Bernard 440 Amp MIG gun with rotatable long 45 deg. neck, 4.6m cable, 1.2 tip
- HA801AR  Argon regulator & flow gauge
- MR190300  0.9 / 1.2 mm "V" groove roll kit for solid wires
- MR079607  1.2 mm knurled "V" groove roll kit for flux-cored wires
- MR079609  1.6 mm knurled “V” groove roll kit for flux-cored wires

### OPTION 2 - RMD PULSE SYSTEM

**POWER SOURCE**
- MR907763-1  Big Blue 800X Air Pak with ArcReach Technology

**WIREFEEDER (ALTERNATIVE WIREFEEDERS LISTED BELOW)**
- MR301177  FieldPro Smart Feeder (Dinse) CE

**REQUIRED ACCESSORIES**
- Interconnecting lead kit for this option is not supplied by WIA
- BEQ4015AH8EMC  Bernard 440 Amp MIG gun with rotatable long 45 deg. neck, 4.6m cable, 1.2 tip
- HA801AR  Argon regulator & flow gauge
- MR190300  0.9 / 1.2 mm "V" groove roll kit for solid wires
- MR079607  1.2 mm knurled "V" groove roll kit for flux-cored wires
- MR079609  1.6 mm knurled “V” groove roll kit for flux-cored wires

### OPTION 3 - MIG/FLUX-CORED SYSTEM

**POWER SOURCE**
- MR907763-1  Big Blue 800X with ArcReach Technology

**WIREFEEDER (ALTERNATIVE WIREFEEDERS LISTED BELOW)**
- MR300615  22A wirefeeder - standard

**REQUIRED ACCESSORIES**
- Interconnecting lead kit with earth leads - 10m dinse
- AM294-0/10
- BEQ4015AH8EMC  Bernard 440 Amp MIG gun with rotatable long 45 deg. neck, 4.6m cable, 1.2 tip
- HA801AR  Argon regulator & flow gauge
- MR190300  0.9 / 1.2 mm "V" groove roll kit for solid wires

**OPTIONAL ACCESSORIES**
- MR242211020  RHC-14 remote hand current control
- MR300430  Wireless hand control & 14 pin receiver
- MR300429  Wireless foot control & 14 pin receiver
- MR301325  ArcReach Stick/TIG Remote
- BEQ4010AR8EMC  400 Amp MIG gun with fixed medium 45 deg neck 3.0m cable 1.2 tip