

# MULTIFUNCTION SYSTEMS

## 6-IN-1 POWER SYSTEM

### OVERVIEW

Nothing will stop you on the jobsite; with everything you need in a single compact system, you will be ready for anything.

This self-contained system can be fully integrated into any diesel work truck fuel system or skid-mounted for stand-alone applications with an optional external fuel tank.

### **Components included:**

- 45 CFM Rotary Screw Air Compressor
- 8 kW Continuous AC Generator
- 300 A DC Welder (adjustable)
- 12-48 V Battery Booster (adjustable)
- 12-48 V Battery Charger (adjustable)
- 2,800 RPM Power Take-off Port
- Factory-installed Cold Climate Kit – 120 V, tested to -40°F (-40°C)

### **Applications** – Common jobs that use 6-in-1 Power Systems:

- Mobile heavy duty mechanics

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- Heavy equipment repair technicians
- Remote access jobs in mining, logging and oil & gas

## SPECIFICATIONS

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Air Compressor: 45 CFM and up to 175 psi, 100% duty cycle, VMAC oil-injected rotary screw, belt driven

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Engine: Kubota Diesel D902 3-cylinder, naturally aspirated 3,600 RPM, Tier 4 Final

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AC/DC Generator/Welder:

- AC:
  - 8 kW continuous output
  - 1 x 30 A, 240 V, 60 Hz three phase circuit with receptacle
  - 2 x 20 A, 120 V, 60 Hz single phase circuit with receptacles
- DC:
  - For battery boosting/jump starting, other DC loads
  - 12 V, 24 V, 36 V, 48 V selectable
  - CC mode for SMAW and GTAW (stick/TIG welding)
  - 300 A @ 70% duty cycle, 200 A @ 100% duty cycle

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Power Take-off Port: Clutched SAE 'A' port with 9-toothed spline, 2,800 RPM output, 35 ft-lb continuous torque (max)

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Throttle Control: 2-speed throttle, responds to air demand

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Battery: Integrated ACDelco 12 V, 460 CCA, 575 CA

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Control System:

- Easy to use digital control system with adjustable parameters.
- Remote mounted generator/welder and compressor control panel.
- Separate selector switches engage compressor, generator and PTO.
- Any one function or all can be selected and used simultaneously.
- With compressor-only selected, and sustained periods of no air use, the control system will shut down the engine.
- Engine auto-restarts with air demand.
- With any other function selected, the engine will not shut down automatically.

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Cold Climate Protection:

- Adjustable glow plug control.
- Engine and compressor will wait till the temperatures are above 41°F (5°C) before loading and going into a running state.
- Engine will automatically restart when system temperature falls below

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23°F (-5°C); small heat strip included in LCD Digital Control Box.

- Battery jump start connections are recommended to be tied into the truck batteries in locations where extreme cold is expected. It is not necessary in mild climates.

Weight (wet): Approximately 570 lbs (259 kg)

Dimensions:

- 33" (l) x 23" (w) x 29" (h); 83.8 cm (l) x 58.4 cm (w) x 73.7 cm (h)
- Mounting Plate: 20" (l) x 20" (w); 50.8 cm (l) x 50.8 cm (w)

Decibels (dB) @ 21 feet (6.4 meters): 81.2 dB at high idle, 76 dB at low idle, 0 dB in Standby Mode

Fuel Supply Options:

- 7-Gallon tank with fuel gauge and low fuel shut-off sensor
- External Diesel Fuel Pump Kit

Air Receiver Tank (recommended, not included): Minimum 10-Gallon Air Receiver Tank - Recommended for proper operation of all functions.

Warranty:

- Two years on all major components; VMAC air ends are covered by VMAC's Lifetime Warranty; the Kubota engine is covered by Kubota's 2-Year warranty.

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## 6-IN-1 – *OILMAN SERIES* POWER SYSTEM

### OVERVIEW

For industrial jobsites with flammable gasses present, there is no better system.

The VMAC Multifunction - Oilman Series includes everything you need for safe operations on any jobsite in a single compact system. This self-contained system can be fully integrated into any diesel work truck fuel system or skid-mounted for stand-alone applications with an optional external fuel tank.

Why is a Positive Air Shutoff System (PASS) required?

According to [Headwind Solutions](#), the manufacturer of the “Shocker” Positive Air Shutoff System (PASS) used on VMAC’s Multifunction All-in-one – Oilman Series, a Positive Air Shutoff System is a necessity for anyone with a diesel engine that may come in contact with natural gas, propane, or any other flammable gasses. A small leak of flammable gas is likely to cause a diesel engine to “run away”, causing catastrophic damage to the engine, and surrounding area as it explodes.

A diesel engine will utilize any fuel available, and flammable gas in the air is more than enough to keep a diesel engine running, even when the key is removed. Once a diesel engine gets a supply of flammable gas from the air, it will run indefinitely or to the point of catastrophic failure. The only way to prevent and stop this is to shut off the air supply to the engine, starving it of fuel.

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The “Shocker” PASS is capable of automatically sensing high-revving "run away" situations, and will automatically shut the valve, closing the air supply to the engine to protect the engine itself, as well as property and personal in the area.

## **Components included:**

- 45 CFM Rotary Screw Air Compressor
- 8 kW Continuous AC Generator
- 300 A DC Welder (adjustable)
- 12-48 V Battery Booster (adjustable)
- 12-48 V Battery Charger (adjustable)
- 2,800 RPM Power Take-off Port
- 10GPM @ 2800psi (max) Hydraulic Pump
- Factory-installed Cold Climate Kit – 120 V, tested to -40°F (-40°C)
- “Shocker” Positive Air Shutoff System (PASS)

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**Applications** – Common jobs that use 6-In-1 Power Systems:

- Industrial jobsites with flammable gases present
- Oil & gas leases
- Mobile heavy duty mechanics
- Heavy equipment repair technicians
- Remote access jobs in mining, logging and oil & gas

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## SPECIFICATIONS

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Air Compressor:

45 CFM and up to 175 psi, 100% duty cycle, VMAC oil-injected rotary screw, belt driven

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Engine:

Kubota Diesel D902 3-cylinder, naturally aspirated 3,600 RPM, Tier 4 Final

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AC/DC Generator/Welder:

- AC:
  - 8 kW continuous output
  - 1 x 30 A, 240 V, 60 Hz three phase circuit with receptacle
  - 2 x 20 A, 120 V, 60 Hz single phase circuit with receptacles
- DC:
  - For battery boosting/jump starting, other DC loads
  - 12 V, 24 V, 36 V, 48 V selectable
  - CC mode for SMAW and GTAW (stick/TIG welding)
  - 300 A @ 70% duty cycle, 200 A @ 100% duty cycle

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Power Take-off Port:

Clutched SAE 'A' port with 9-toothed spline,



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	2,800 RPM output, 35 ft-lb continuous torque (max)
Hydraulic Pump:	10GPM @ 2800psi (max)
Throttle Control:	2-speed throttle, responds to air demand
Battery:	Integrated ACDelco 12 V, 460 CCA, 575 CA
Control System:	<ul style="list-style-type: none"><li>• Easy to use digital control system with adjustable parameters.</li><li>• Remote mounted generator/welder and compressor control panel.</li><li>• Separate selector switches engage compressor, generator and PTO.</li><li>• Any one function or all can be selected and used simultaneously.</li><li>• With compressor-only selected, and sustained periods of no air use, the control system will shut down the engine.</li><li>• Engine auto-restarts with air demand.</li><li>• With any other function selected, the</li></ul>

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engine will not shut down automatically.

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Cold Climate Protection:

- Adjustable glow plug control.
  - Engine and compressor will wait till the temperatures are above 41oF (5oC) before loading and going into a running state.
  - Engine will automatically restart when system temperature falls below 23oF (-5oC); small heat strip included in LCD Digital Control Box.
  - Battery jump start connections are recommended to be tied into the truck batteries in locations where extreme cold is expected. It is not necessary in mild climates.
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Positive Air Shutoff System (PASS):

“Shocker” PASS automatically senses high-revving engines situations and closes the air supply to the engine.

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Weight (wet):

Approximately 575 lbs (261 kg)

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Dimensions:

- 33” (l) x 23” (w) x 29” (h); 83.8 cm (l) x

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# MULTIFUNCTION SYSTEMS

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58.4 cm (w) x 73.7 cm (h)

- Mounting Plate: 20" (l) x 20" (w); 50.8 cm (l) x 50.8 cm (w)

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Decibels (dB) @ 21 feet (6.4 meters):

81.2 dB at high idle, 76 dB at low idle, 0 dB in Standby Mode

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Fuel Supply Options:

- 7-Gallon tank with fuel gauge and low fuel shut-off sensor
- External Diesel Fuel Pump Kit

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Air Receiver Tank (recommended, not included):

Minimum 10-Gallon Air Receiver Tank - Recommended for proper operation of all functions.

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Warranty:

- Two years on all major components; VMAC air ends are covered by VMAC's Lifetime Warranty; the Kubota engine is covered by Kubota's 2-Year warranty.

# MULTIFUNCTION SYSTEMS

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## COMPRESSOR- GENERATOR POWER SYSTEM

### OVERVIEW

For customers who need an air compressor and an AC generator.

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This self-contained system can be fully integrated into any diesel work truck fuel system or skid-mounted for stand-alone applications with an optional external fuel tank.

## **Components included:**

- 45 CFM Rotary Screw Air Compressor
- 10.2 kW Continuous AC Generator
- Factory-installed Cold Climate Kit – 120 V, tested to -40°F (-40°C)

**Applications** – Common jobs that use the Compressor-Generator Power System:

- Mobile heavy duty mechanics
- Heavy equipment repair technicians
- Mobile tire service technicians
- 24/7 roadside repair technicians

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## SPECIFICATIONS

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Air Compressor: 45 CFM and up to 175 psi, 100% duty cycle, VMAC oil-injected rotary screw, belt driven

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Engine: Kubota Diesel D902 3-cylinder, naturally aspirated 3,600 RPM, Tier 4 Final

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AC Generator:

- 10.2 kW continuous output
- 1 x 30 A, 240 V, 60 Hz three phase circuit with terminal strip
- 2 x 20 A, 120 V, 60 Hz single phase circuit with terminal strip

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Throttle Control: 2-speed throttle, responds to air demand

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Battery: Integrated ACDelco 12 V, 460 CCA, 575 CA

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Control System:

- Easy to use digital control system with adjustable parameters.
- Remote mounted generator and compressor control panel.
- Separate selector switches engage compressor and generator.
- Any one function or all can be selected and used simultaneously.
- With compressor-only selected, and sustained periods of no air use, the control system will shut down the engine.

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- Engine auto-restarts with air demand.
  - With any other function selected, the engine will not shut down automatically.
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## Cold Climate Protection:

- Adjustable glow plug control.
  - Engine and compressor will wait till the temperatures are above 41oF (5oC) before loading and going into a running state.
  - Engine will automatically restart when system temperature falls below 23oF (-5oC); small heat strip included in LCD Digital Control Box.
  - Battery jump start connections are recommended to be tied into the truck batteries in locations where extreme cold is expected. It is not necessary in mild climates.
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## Weight (wet):

Compressor-Generator – approximately 550 lbs (249 kg)

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## Dimensions:

- 33” (l) x 23” (w) x 29” (h); 83.8 cm (l) x 58.4 cm (w) x 73.7 cm (h)
  - Mounting Plate: 20” (l) x 20” (w); 50.8 cm (l) x 50.8 cm (w)
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## Decibels (dB) @ 21 feet (6.4 meters):

81.2 dB at high idle, 76 dB at low idle, 0 dB in Standby Mode

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## Fuel Supply Options:

- 7-Gallon tank with fuel gauge and low fuel shut-off sensor

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- External Diesel Fuel Pump Kit
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Air Receiver Tank  
(recommended, not  
included):

Minimum 10-Gallon Air Receiver Tank - Recommended for proper operation  
of all functions.

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Warranty:

- Two years on all major components; VMAC air ends are covered by VMAC's Lifetime Warranty; the Kubota engine is covered by Kubota's 2-Year warranty.



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## COMPRESSOR-GENERATOR-WELDER POWER SYSTEM

### OVERVIEW

Extreme performance in a single compact system. This system includes all the power you need on the jobsite to complete your work.

This self-contained system is ideal for mechanic's trucks with electric or electric over hydraulic cranes. The Compressor-Generator-Welder system can operate electrical equipment, air tools and welding accessories.

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## **Components included:**

- 45 CFM Rotary Screw Air Compressor
- 8 kW Continuous AC Generator
- 300 A DC Welder (adjustable)
- 12-48 V Battery Booster (adjustable)
- 12-48 V Battery Charger (adjustable)
- Factory-installed Cold Climate Kit – 120 V, tested to -40°F (-40°C)

## **Applications** – Common jobs that use the Compressor-Generator-Welder Power System:

- Mobile heavy duty mechanics
- Welding trucks
- Heavy equipment repair technicians
- Remote access jobs in mining, logging and oil & gas

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## SPECIFICATIONS

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Air Compressor:	45 CFM and up to 175 psi, 100% duty cycle, VMAC oil-injected rotary screw, belt driven
Engine:	Kubota Diesel D902 3-cylinder, naturally aspirated 3,600 RPM, Tier 4 Final
Throttle Control:	2-speed throttle, responds to air demand
AC/DC Generator/Welder:	<ul style="list-style-type: none"><li>• AC:<ul style="list-style-type: none"><li>• 8 kW continuous output</li><li>• 1 x 30 A, 240 V, 60 Hz three phase circuit with receptacle</li><li>• 2 x 20 A, 120 V, 60 Hz single phase circuit with receptacles</li></ul></li><li>• DC:<ul style="list-style-type: none"><li>• For battery boosting/jump starting, other DC loads</li><li>• 12 V, 24 V, 36 V, 48 V selectable</li><li>• CC mode for SMAW and GTAW (stick/TIG welding)</li><li>• 300 A @ 70% duty cycle, 200 A @ 100% duty cycle</li></ul></li></ul>
Battery:	Integrated ACDelco 12 V, 460 CCA, 575 CA
Control System:	<ul style="list-style-type: none"><li>• Easy to use digital control system with adjustable parameters.</li></ul>

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# MULTIFUNCTION SYSTEMS

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- Remote mounted generator/welder and compressor control panel.
  - Separate selector switches engage compressor and generator.
  - Any one function or all can be selected and used simultaneously.
  - With compressor-only selected, and sustained periods of no air use, the control system will shut down the engine.
  - Engine auto-restarts with air demand.
  - With any other function selected, the engine will not shut down automatically.
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## Cold Climate Protection:

- Adjustable glow plug control.
  - Engine and compressor will wait till the temperatures are above 41°F (5°C) before loading and going into a running state.
  - Engine will automatically restart when system temperature falls below 23°F (-5°C); small heat strip included in LCD Digital Control Box.
  - Battery jump start connections are recommended to be tied into the truck batteries in locations where extreme cold is expected. It is not necessary in mild climates.
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## Weight (wet):

Approximately 560 lbs (254 kg)

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## Dimensions:

- 33" (l) x 23" (w) x 29" (h); 83.8 cm (l) x 58.4 cm (w) x 73.7 cm (h)

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- Mounting Plate: 20" (l) x 20" (w); 50.8 cm (l) x 50.8 cm (w)
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Decibels (dB) @ 21 feet (6.4 meters): 81.2 dB at high idle, 76 dB at low idle, 0 dB in Standby Mode

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Fuel Supply Options:

- 7-Gallon tank with fuel gauge and low fuel shut-off sensor
- External Diesel Fuel Pump Kit

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Air Receiver Tank (recommended, not included): Minimum 10-Gallon Air Receiver Tank - Recommended for proper operation of all functions.

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Warranty:

- Two years on all major components; VMAC air ends are covered by VMAC's Lifetime Warranty; the Kubota engine is covered by Kubota's 2-Year warranty.

# MULTIFUNCTION SYSTEMS



## COMPRESSOR-HYDRAULIC POWER SYSTEM

### OVERVIEW

Ideal for hydraulic crane trucks that need an air compressor - this package keeps you working without relying on your truck engine.

This self-contained system can be fully integrated into any diesel work truck fuel system or skid-mounted for stand-alone applications with an optional external fuel tank.

### **Components included:**

- 45 CFM Rotary Screw Air Compressor
- 2,800 RPM Power Take-off Port
- Factory-installed Cold Climate Kit – 120 V, tested to -40°F (-40°C)

**Applications** – Common jobs that use the Compressor-Generator Power System:

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- Mobile heavy duty mechanics
- Heavy equipment repair technicians
- Remote access jobs in mining, logging and oil & gas

## SPECIFICATIONS

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Air Compressor:	45 CFM and up to 175 psi, 100% duty cycle, VMAC oil-injected rotary screw, belt driven
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Engine:	Kubota Diesel D902 3-cylinder, naturally aspirated 3,600 RPM, Tier 4 Final
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Power Take-off Port:	Clutched SAE 'A' port with 9-toothed spline, 2,800 RPM output, 35 ft-lb continuous torque (max)
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Throttle Control:	2-speed throttle, responds to air demand
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Battery:	Integrated ACDelco 12 V, 460 CCA, 575 CA
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# MULTIFUNCTION SYSTEMS

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## Control System:

- Easy to use digital control system with adjustable parameters.
- Remote mounted PTO and compressor control panel.
- Separate selector switches engage compressor and PTO.
- Any one function or all can be selected and used simultaneously.
- With compressor-only selected, and sustained periods of no air use, the control system will shut down the engine.
- Engine auto-restarts with air demand.
- With any other function selected, the engine will not shut down automatically.

## Cold Climate Protection:

- Adjustable glow plug control.
- Engine and compressor will wait till the temperatures are above 41°F (5°C) before loading and going into a running state.
- Engine will automatically restart when system temperature falls below 23°F (-5°C); small heat strip included in LCD Digital Control Box.
- Battery jump start connections are recommended to be tied into the truck batteries in locations where extreme cold is expected. It is not necessary in mild climates.

## Weight (wet):

Approximately 500 lbs (227 kg)



# MULTIFUNCTION SYSTEMS

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Dimensions:

- 33” (l) x 23” (w) x 29” (h); 83.8 cm (l) x 58.4 cm (w) x 73.7 cm (h)
- Mounting Plate: 20” (l) x 20” (w); 50.8 cm (l) x 50.8 cm (w)

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Decibels (dB) @ 21 feet (6.4 meters):

81.2 dB at high idle, 76 dB at low idle, 0 dB in Standby Mode

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Fuel Supply Options:

- 7-Gallon tank with fuel gauge and low fuel shut-off sensor
- External Diesel Fuel Pump Kit

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Air Receiver Tank (recommended, not included):

Minimum 10-Gallon Air Receiver Tank - Recommended for proper operation of all functions.

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Warranty:

- Two years on all major components; VMAC air ends are covered by VMAC’s Lifetime Warranty; the Kubota engine is covered by Kubota’s 2-Year warranty.

# MULTIFUNCTION SYSTEMS



## YOUR POWER, YOUR CHOICE

### OVERVIEW

Everyone is different, encountering unique challenges on their jobsites requiring different equipment for different applications.

For those who want a truly customized solution, the VMAC Multifunction Power System can be ordered in 240 configurations. Each customized system will have the same overall size, with differences in overall weight.

Contact VMAC and let us guide you through the customization so you get the system that best works for you.

**YOUR POWER, YOUR CHOICE** – Build your own in 5 simple steps:

Start with the basics - Includes: Kubota Diesel Engine; VMAC Rotary Screw Air Compressor

# MULTIFUNCTION SYSTEMS

## 1. Choose your power (choose one)

- No Generator or Welder
- AC Generator only
- AC Generator and DC Welder with Battery Booster/Charger

## 2. Choose your hydraulics (choose one)

- No PTO
- PTO Port only
- PTO w/ 5 GPM @ 3,500 psi (max) Pump
- PTO w/ 8 GPM @ 3,500 psi (max) Pump
- PTO w/ 10 GPM @ 3,500 psi (max) Pump

## 3. Choose your Fuel Supply (choose one)

- None
- Transfer Fuel Pump

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- 7-Gallon Diesel Tank

## 4. Choose your Factory-installed Options (choose any)

- Cold Climate Protection
- Terminal Strips only (on generator/welder)
- Receptacles (on generator/welder)
- Positive Air Shutoff System (PASS)

## 5. Choose your color (choose one)

- Black
- White (extended lead times apply)

# MULTIFUNCTION SYSTEMS

## 6. SPECIFICATIONS

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### **SPECIFICATIONS ON OPTIONS**

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AC/DC Generator/Welder: AC: • 8 kW continuous output • 1 x 30 A, 240 V, 60 Hz three phase circuit with receptacle • 2 x 20 A, 120 V, 60 Hz single phase circuit with receptacles DC: • For battery boosting/jump starting, other DC loads • 12 V, 24 V, 36 V, 48 V selectable • CC mode for SMAW and GTAW (stick/TIG welding) • 300 A @ 70% duty cycle, 200 A @ 100% duty cycle