CIGWELD

AN ESAB BRAND

100+ YEARS OF WELDING INNOVATION

BLUEVENOM XF320⁶

6-in-1 MULTIPROCESS WELDER



UNLEASH THE POWER! MASTER THE WELD!

THE TRUE POWER OF SiC TECHNOLOGY.

The **BlueVenom XF320⁶ SiC** redefines expectations in welding performance. Delivering up to 320 amps, this advanced multi-process system is powered by cutting-edge **Silicon Carbide (SiC) Inverter** technology, ensuring exceptional accuracy, stability, and repeatability across a broad range of materials and applications.

Designed for professionals, its outstanding versatility allows effortless progression from everyday mild steel fabrication to precision-driven AC TIG feature welds, supported by six intelligently engineered operating modes: **MIG, Single Pulse MIG, Double Pulse MIG, HF DC TIG, HF AC TIG, and Stick**. With further advanced modes featuring **Mixed AC+DC TIG, Cold Weld TIG and Pulse** on both TIG and Stick

Operating from a **32A factory fitted plug**, 3-phase 400V power supply, the BlueVenom XF320⁶ SiC incorporates **Power Factor Correction (PFC)** technology to maximise energy efficiency and maintain consistent output, even when used with extended lead lengths, delivering reliable performance wherever the job demands.

Boasting an **IP23S** rating, the BlueVenom XF320⁶ SiC is protected against small debris and light rain, ready for use in industrial and outdoor environments.

ENGINEERED FOR HIGH POWER, HIGH-CAPACITY WELDING.

Effortless control is delivered through the intuitive **7-inch Full Colour Touchscreen**, providing immediate access to all welding parameters within a clean, streamlined interface. Settings can be intelligently synchronised to material thickness or manually adjusted, allowing operators to fine-tune performance to match individual welding preferences.

Raising the bar for versatility and performance, the BlueVenom XF320⁶ SiC brings together multiple welding processes with advanced functionality to meet the demands of virtually any application. Equipped with AC TIG featuring **9 selectable waveforms**, it enables experienced operators to produce exceptional, presentation-quality TIG welds with outstanding control and consistency.

POWERED BY: SiC SILICON CARBIDE INVERTER

6 IN 1

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TOTAL CONTROL, NO LIMITS

Designed for productivity without compromise, MIG Single and Double Pulse deliver TIG-style weld appearance at high deposition speeds, while Pulse Stick technology provides enhanced control for heavy-duty tasks and challenging welding positions. Built as the ultimate all-round performer, the XF320⁶ SiC stands as the flagship workhorse of the BlueVenom range - **Powerful, Precise, and Unstoppable!**

Need to weld aluminium? The BlueVenom XF320⁶ SiC is **Spool Gun and Push-Pull Gun ready**, granting you further reach and preventing birdnesting of softer aluminium wires.

The BlueVenom XF320⁶ SiC comes packed with a **NEXARC TW4 OLED MIG gun**. Adjust the wire feed speed, voltage, inductance, trigger type, and even load jobs saved to memory all from the gun itself. The OLED display provides better contrast and reduces glare so you can keep your helmet on and focus on your weld, even with the darkest shades.

INTRODUCING VOLTSYNC

The latest feature among the BlueVenom SiC range, **VoltSync Line Compensation** – Designed to improve performance when MIG welding with extended cables lengths.

VOLTSYNC

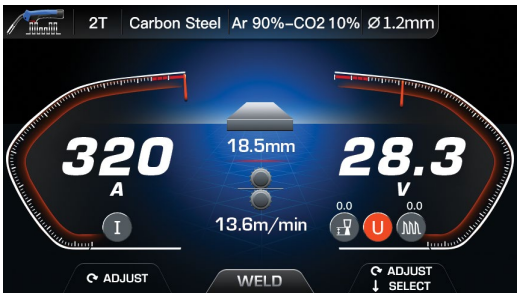
VoltSync Line Compensation measures the in-line resistance of your MIG Gun, compensating for large voltage drops due to an increased resistance from longer cable lengths.

EXPANSIVE MEMORY

With an impressive 100x memory bank, you can save and load job parameters instantly, enabling quick and seamless switching between jobs.

INTUITIVE DISPLAY

Powered by a HUGE 7" Full Colour Touch LCD display, you can access all you need from the 1 screen, allowing you to spend more time welding and less time searching for settings.





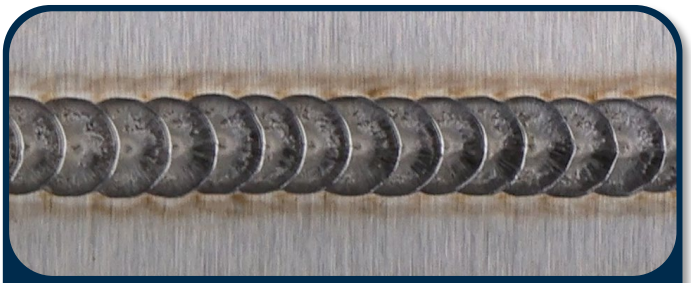
Double Pulse MIG

Start stacking dimes with Double Pulse MIG. Create fast welds with reduced spatter and less heat.



Mixed AC+DC TIG

Combine the cleaning power of AC and the penetrating power of DC to weld thicker aluminium plates.



Cold Weld TIG

Ultra-short pulses generate little heat, preventing distortion. Perfect for thin and delicate metals.



Super Pulse TIG

Give a little boost to the start of each pulse. Ideal to get low frequency pulses going

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CoolVenom 7LTR Water Cooler
(Sold Separately)
P/N: W4018270



FeedX4 3-Ph Wire Feeder
(Sold Separately)
P/N: W3000251

WARRANTY PERIOD

We stand behind the quality of our products, which is why the **BlueVenom XF320⁶ SiC** comes with **5-Year Warranty***.

WHAT'S IN THE BOX:

- BlueVenom XF320⁶ SiC 6in1 Power Source
- NEXARC DGX TW4 OLED, 4m MIG Gun with OLED Display and 3-Button Control, Tweco 4 Style
- Dimex Elite 26F, 4m 'Flex Head' TIG Torch with Trigger Button and Remote Current Control
- Fully Equipped with Fitted MIG Consumables, Spare Tip & Dimex Essentials TIG Kit
- 500A Twist lock Electrode Holder with 3m Lead
- 3m Quick Connect Gas Hose
- 500A Earth Clamp with 3m Lead
- BlueJet Regulator/Flowmeter
- Mild Steel & Nylon Liner, Inlet/Outlet Guides
- Feedrolls: 0.9/1.2mm (x2) V (Fitted), 0.9/1.2mm Knurled (x2), 1.0/1.2mm U (x2)
- Operating Manual

ORDERING DETAILS

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BlueVenom
XF320⁶ SiC 6in1
P/N: W1400320

TECHNICAL SPECIFICATIONS

Power Supply (Voltage):	Three Phase – 32A Plug 400V +/- 10%
Australian Standard:	AS 60974.1:2020
Nominal Supply Frequency:	50/60Hz
Supply Lead & Plug:	32 Amp (Fitted)
Minimum Generator Required:	16 kVA (0.8 Power Factor at Max Amps)
Amperage Range:	MIG: 30A – 320A TIG: 10A – 320A STICK: 10A – 320A
MIG Duty Cycle @ 40°	320A @ 40%, 30.0V
TIG Duty Cycle @ 40°	320A @ 60%, 22.8V
STICK Duty Cycle @ 40°	320A @ 40%, 32.8V
Voltage Reduction Device VRD:	Yes, on Stick Mode (<35V)
Weight (Power Source):	33.0kg
Weight (Package):	50.0kg
Dimensions (Power Source) - L x W x H:	750mm x 260mm x 480mm
Dimensions (Package) - L x W x H:	830mm x 410mm x 570mm
Wire Spool Size(s):	5kg (200mm) & 15kg (300mm)
Spool Gun Compatible:	Yes, MIG MAN/SYN modes only
Push-Pull Gun Compatible:	Yes, all MIG modes
Water Cooler Option:	Yes
Remote Feeder Option:	Yes
Protection Class:	IP23S



*5-Year Warranty applies to power source only. See website for more details.

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