Orbital welding (Welding power sources)

AXXAIR
INNOVATIVE ORBITAL SOLUTIONS

Our range of AXXAIR power supplies has been designed to be user friendly and intuitive. Our step by step design allows, even beginner, to easily generate programs after only a short learning period, while very advanced functions are available to advance users looking to customize their programs.

A particular attention has been paid to using as much as possible standard industrial components for their reliability and availability. The facilitatedaccess to parts makes our power sources robust and easy for maintenance.

The combination of an easy to use and sturdy package allows you to be competitive and makes this range the best choice for all your current or futur projects.

The electronics in charge of piloting the rotors of the welding heads is specifically designed to support various motor type, CD, brushless, stepping motors but also encoders or tachometers, making these power supply one of the most versatile on the market today.

Because our power supply can control most type of motors, we are able to control not only our products but also many of the other products available. Using a 32-pin « quick fit » connector we are able to design several cable adaptor to connect most products available today on our power supply. This great feature allows our customers to use our power supply as a one fits all, reducing the cost of ownership.

FLEXIBILITY, PRODUCTIVITY

Our latest touch screen interface allows us to make available even the most advanced features in a user friendly and intuitive way.

QUALITY AND REPEATABILITY

Part of the conviviality of our power supply comes from the innovative way we register a program. First you will create a configuration that includes the model and type of welding head, the tube diameter, the tube wall thickness and the tube material. Then within this configuration you will add you programs, up to 10 per configuration. This makes it really easy to retrieve and select a program even if it was created months ago.

PORTABILITY

Our power supply are among the easiest to carry on site or move around the workshop, however if you want to be able to move effortlessly the gas cylinder together with the power supply we designed a very convenient trolley.

Please do not hesitate to contact us for all enquiries relating to orbital welding power sources.

We will be glad to share our know-how with you and to devise a solution that best meets your needs!

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QUALITY MADE IN FRANCE

SAXX-300

AXXAIR
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Fully-assured gas management

2 separate gas lines, free choice of inerting gas flow management

Gas flow control and flow alarms

Display of the actual flow rate right on the screen

Water cooled

Compatible with most closed head on the market:

AMI, Polysoude, ESAB, Orbitec and Orbitalum
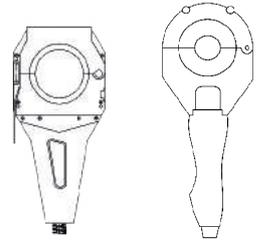
Interface 5.7 colour touch screen + WiFI (optional)

13 languages, possibility of remote control by smartphone or tablet
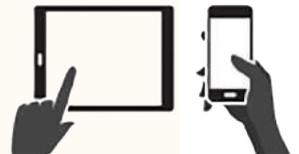
Integral printer:

Printing program and actual parameters

Compatible with AVC/OSC system

PPM sensor
Capable of managing thresholds and sending an electrical pulse to the power source in order to start the welding. This ensures a consistently and properly purged welding area

Records PPM variation during the weld

Remove control display
4 m long cable

USB port on front panel

200 programs per USB stick (possible to use several sticks)

Remote update possible

Axis for added metal

Possibility of using Step mode

Data acquisition

Records the last 999 welds on the USB stick

Integrated WeldReport (formatting of the data and presenting of the instructions in the form of DMOS)

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Join experience

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SAXX-300

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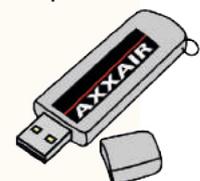
Technical characteristics:

Duty cycle:

400 V	
30 %	300 A
60 %	240 A
100 %	210 A

Power supply:
- Three phase main with earth
- Supply voltage : 400 V +/-15%
- Maximum current on main : 24A
- Frequency : 50/60Hz
- Cable : HO7RN-F 4x2.5 mm² black length 3m

Gas supply:
- Maximum inlet pressure: 5 bars
- Maximum flow rate: 50 l / min per gas line
- Inlet connectors: M12x100 male
- Outlet connectors: female blanking union Series 20

Technology:
- Colour touch screen 5"
- 13 languages
- Up to 16 users with passwords and custom permissions
- Simple and intuitive programming with automatic parameter calculation and programming assistance
- 200 programs in 20 sectors maximum / key

Wi-fi: (Option)
Remote control of the screen on smartphone or tablet via application, range: 20 to 30 m

Intelligence:
- Alarms: More than 30 alarms to protect the system and check that welding is normal.
- Welding voltage measured in increments of 0.1 A
- Minimum pulse time of 50 ms (modifiable via "operator dynamics")

Integrated printer:
- 32 characters / line
- Print program and actual parameters

Auxiliary connector:
- Possibility of triggering the welding start via an oxygen meter (dry contact).

Cooling connector:
- Max pressure: 5 bars
- Cooling power according to standard CEI60974-2: 1.4 kW
- Liquid connectors: female blanking union Series 21

CAUTION: The power source is delivered without coolant. See "Consumables" to order the 3 liter can (SACW-C006).

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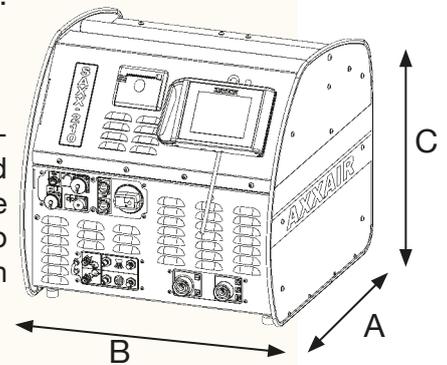
Product code	Description	Two gas lines	Wire feed	Wifi Antenna	AVC/OSC axis	Net weight	Dimensions AxBxC (in mm)
SAXX-300	Orbital TIG power source 300A, 380V, water cooled	x	x			44 kg	562 x 620 x 545
SAXX-300I		x	x	x		44 kg	
SAXX-300OSC		x	x		x	44 kg	
SAXX-300IOSC		x	x	x	x	44 kg	

All options must be mounted at AXXAIR.

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