Orbital welding (welding generators)

AXXAIR
INNOVATIVE ORBITAL SOLUTIONS

Our new range of AXXAIR welding generators has been designed to facilitate the use and programming of your equipment.
Intuitively, you will have access to sophisticated functions allowing you to make the most demanding welds with ease.

Particular attention has been paid to the choice of technologies used, while favouring as much as possible standard commercial components, in order to facilitate access to parts.

This flexibility will be a genuine asset for your future projects and allow you to be competitive in all your work.

FLEXIBILITY, PRODUCTIVITY

With the latest touch screen interface, we offer you all the possibilities including the most advanced while taking into account the users.

QUALITY AND REPEATABILITY

A classification system for programmes by welding configuration (diameter, wall thickness and head type) allow you to find the corresponding programme for the welding application you are looking for very easily. Each configuration can hold 9 programmes.

PORTABILITY

In order to facilitate mobility on site or in the workshop, transport trolleys for generators are recommended, thus enabling efficient management of the generator and its gas cylinder.

The axis board that controls the motors used on the heads was specifically designed to be able to control various motors and servo systems:
DC, brushless, stepping motors, and also encoders and tachometers.

Here, the innovation resides in the ability to easily control the motors used in our competitors' heads so as to offer greater flexibility to our customers that already have them. A 32-pin "quickfit" connector allows interaction between our generator and AXXAIR welding heads and other brands.

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

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

Join experience
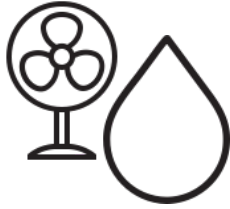
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SAXX-200

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Fully-assured gas management
2 separate gas lines, free choice of inerting
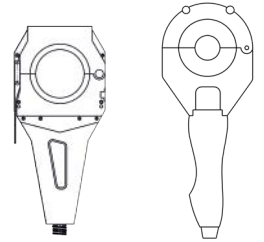gas flow management

Gas flow is controlled on the generator using the buttons (flow rate displayed on the screen)

Air Cooling or Water cooling

Compatible with closed welding heads:
AMI, Polysoude, ESAB, Orbitec and Orbitalum

Interface 5.7 colour touch screen + WiFI

13 languages, possibility of remote control by smartphone or tablet

Acquisition and documentation

Records the last 999 welds + weldreport (formatting of the data and presentation of the instructions in the form of demos)

Integral printer:
Printing program and actual parameters

Ppm measuring device
Capable of managing thresholds and sending an electrical pulse to the station in order to start the welding

Axis for added metal

Possibility of using Step mode

Cooler: removable without tools
Cooling capacity 700 W, min flow safety system

USB on front panel

200 programs per stick (possible to use several sticks)
Remote update possible

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Join experience

SAXX-200
AXXAIR welding generator options

AXXAIR
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You can now order your SAXX-200 generator with **the options you need**.

CAUTION: The options must be factory fitted. (Exception: Scool-700 cooler)

Second gas line

This second gas line allows control from the generator of **your internal inerting** and / or dual gas management of the welding torch.

- Gas savings

- Welding process safety

WIFI

This option includes a built-in **Wifi antenna** in the station.
The operating distance is 20-30 m depending on the environment.

We have authorized remote control via a smartphone or tablet. In fact, one application provides access to all functions, including programming.

Wire feed

This option includes the axis board and the connectors. It must be completed by the dispenser (see accessories).

The Axxair welding generator makes it possible to use the **step mode** and to **synchronize the wire feed** with the current pulse

WATER cooler

Removable cooler without tools with a cooling capacity of **700W** with a flow safety sensor.
It is essential to use in all water cooled machines.

- Increasing the duty cycle

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Join experience

SAXX-200

Technical characteristics

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Duty cycle:

230 V		110 V	
25 %	200 A	35 %	140 A
60 %	140 A	60 %	115 A
100 %	115 A	100 %	100 A

Power supply:
- Single phase network **with earth**
- Supply voltage: 110 to 230 V +/-15%
- Input current consumed 23A at 230V and 32A at 110V
- Frequency: 50/60Hz
- Cable supplied: HO7RN-F 3x2.5 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 5.7"
- 13 languages
- Up to 16 users with passwords and custom permissions
- Simple and intuitive programming with automatic parameter calculation and programming
- 200 programs in 20 sectors maximum / key

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

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

Auxiliary connector:
- Possibility of triggering the welding start via an oxygen meter (dry contact)
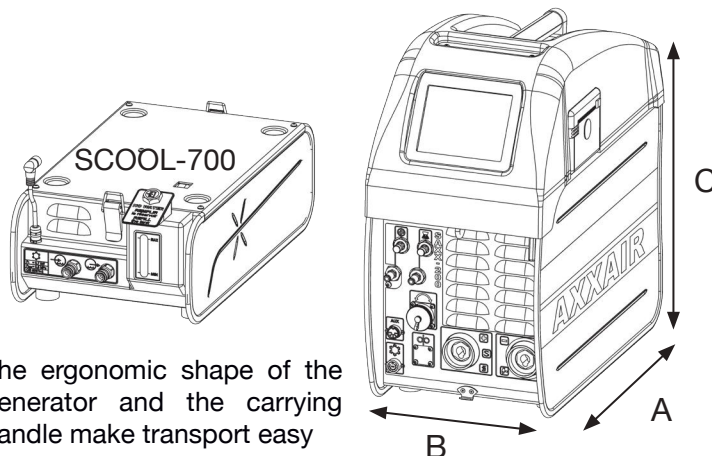
Wi-fi: (Option)
Remote control of the screen on smartphone or tablet via application, range: 20 to 30 m

Cooling connector:
For SCOOL-700 cooler only: It must be connected to a SAXX200 to operate (No standalone operation)
- Max pressure: 5 bars
- Cooling power according to CEI60974-2 standard: 0.7 kW

SCOOL-700

The ergonomic shape of the generator and the carrying handle make transport easy

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C

A

B

	Product Code	Description	Net weight	Customs code	Dimensions A x B x C (mm)
NEW	SAXX-200	Orbital TIG station, 200A, auto-voltage, one line of gas, air cooled	21 kg	85153 10000	468 x 249 x 482
Option	SCOOL-700	Cooler (water), 700W for SAXX-200	8 kg	85159 00090	468 x 249 x 146
Option	SGAS	Second digital gas line on SAXX-200	-	85159 00090	-
Option	SWIFI	Wifi antenna for SAXX-200 for remote control	-	85159 00090	-
Option	SWIRE	Wire board for SAXX-200	-	85159 00090	-

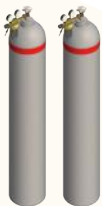**Join** experience

QUALITY
MADE IN FRANCE

SAXX-210

AXXAIR
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Gas management completely assured
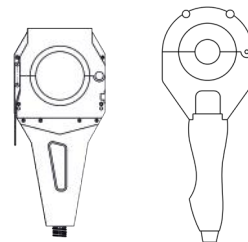2 separate gas lines, free choice of inerting gas flow management

Gas flow is controlled on the generator using the buttons (flow rate displayed on screen)

Water cooling

Compatible with closed welding heads:
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 real parameters

Remove control display
4 m long cable

ppm measuring device
Capable of managing the thresholds by sending an electrical impulse to the station to to start the welding

Axis for added metal
Possibility of using Step mode

Acquisition and documentation
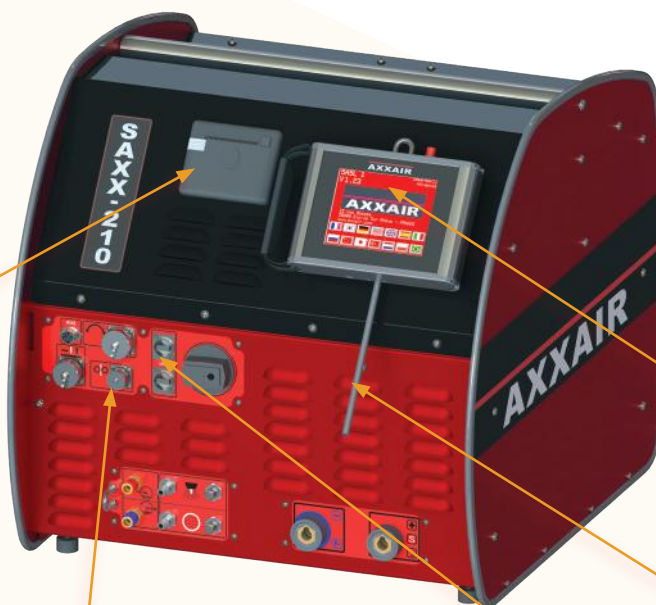Records the last 999 welds + weldreport (formatting of data and presentation of instructions in the form of demos)

USB front panel
200 programmes per USB stick (multiple sticks can be used)
Remote update possible

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Join experience

SAXX-210

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Technical characteristics:

Duty cycle:

230 V		110 V	
50 %	210 A		
60 %	180 A	60 %	127 A.
100 %	160 A	100 %	110 A.

Power supply:
- Single phase network **with earth**
- Supply voltage: 110 to 230 V +/-15%
- Input current consumed 25A at 230V and 32A at 110V
- Frequency: 50 / 60Hz
- Cable supplied: HO7RN-F 3x2.5 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

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

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

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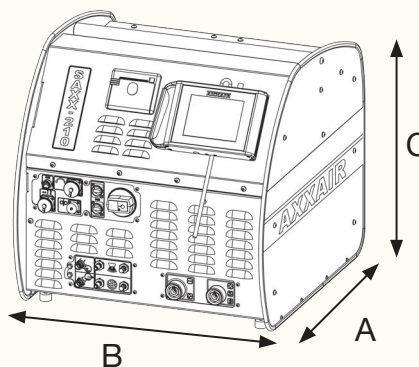
	Product Code	Description	Net weight	Code code	Dimensions A x B x C (mm)
NEW	SAXX-210	Orbital station 210 A., with double gas lines and wire axis	44 kg	85153 10000	562 x 620 x 545
Option	SWIFI	Wifi antenna for SAXX-210 for remote control	-	85159 00090	-

Join experience

SAXX accessories

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INNOVATIVE ORBITAL SOLUTIONS

Product Code	Description	Net weight	Customs code	Dimensions (in cm)
SACG-X200	Trolley	22 kg	81515 900090	117 x 51 x 57

Trolley for SAXX-200 generator:

- Module for transporting the SAXX-200 welding station and gas cylinders up to 10.5 m^3

√**SAXX-200**	SAXX-210

Product Code	Description	Net weight	Customs code	Dimensions (in cm)
SACG-300	Trolley	55 kg	81515 900090	83 x 56 x 118

Trolley for SAXX-210 generator:

- Module for transporting the SAXX-210 welding station and gas cylinders up to 10.5 m^3

SAXX-200	√**SAXX-210**

Product Code	Description	Net weight	Customs code	Dimensions (in cm)
SPPM-10	PPM reader	2 kg	81515 900090	12 x 6 x 15

PPM reader compatible with SAXX generators:
- Integrated pump
- Trigger threshold adjustment
- Upper and lower tolerance adjustment
- Connected to the SAXX, it only allows welding to be triggered when the threshold is reached. The SPPM-10 guarantees the interior inerting of the tubing and the desired good colouration

√**SAXX-200**	√**SAXX-210**

Product Code	Description	Net weight	Customs code	Dimensions (in cm)
SAFS-G01	Gas splitter pipe	0.2 kg	81515 900090	22 x 22 x 22

Gas splitter pipe:
- For connecting the back and front purge gas to the same cylinder. To be used in combination with a pressure regulator for an industrial gas cylinder.

√**SAXX-200**	√**SAXX-210**

SAXX accessories

AXXAIR
INNOVATIVE ORBITAL SOLUTIONS

Product Code	Description	Net weight	Customs code	Dimensions
SAFS-ADAMI1	Adapter kit	1.2 kg	85159 00090	L < 40 cm

Adapter kit for connecting the following heads to SAXX generators:
- AMI Models 8 and 9
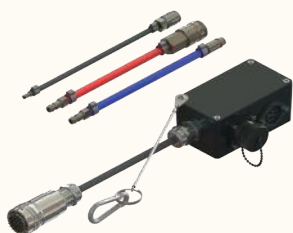- SATF-xxMI and SATF-xxMIH

✓SAXX-200	✓SAXX-210

Product Code	Description	Net weight	Customs code	Dimensions
SAFS-ADORBI1	Adapter kit	1.2 kg	85159 00090	L < 50 cm

Adapter kit for connecting the following heads to SAXX generators:
- Orbitalum ORBITALWELD models
(ORBIWELD38S,ORBIWELD76S and ORBIWELD115S)

✓SAXX-200	✓SAXX-210

Product Code	Description	Net weight	Customs code	Dimensions
SAFS-ADPO-LY1	Adapter kit	0.9 kg	85159 00090	L < 50 cm

Adapter kit for connecting the following heads to SAXX generators:
- MW Polysoude models (MW40, MW 65, MW115, MW170,
MU IV 38, MU IV 115, UHP250, UHP500 and UHP1500)

✓SAXX-200	✓SAXX-210

Product Code	Description	Net weight	Customs code	Dimensions
SAFS-ADORBITEC	Adapter kit	0.3 kg	85159 00090	L < 50 cm

Adapter kit for connecting the following heads to SAXX generators:
- Orbitec models: OSW40, OSW80 and OSW170

✓SAXX-200	✓SAXX-210

Product Code	Description	Net weight	Customs code	Dimensions
SAFS-ADESAB	Adapter kit	0.5 kg	85159 00090	L < 50 cm

Adapter kit for connecting the following heads to SAXX generators:
- ESAB models: PRB17-49, PRB33-90 and PRB60-170

✓SAXX-200	✓SAXX-210

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Join experience

SAXX accessories

AXXAIR
INNOVATIVE ORBITAL SOLUTIONS

Product Code	Description	Net weight	Customs Code	Dimensions (in cm)
SAFS-AD01	Adaptor	0.411 kg	85159 00090	l : < 35 cm

Adaptor for new generations of welding heads:
- SATF-xxNDX
- SATF-xxNDHX
- SATO-xxE41 - SATO-xxE42 - SATO-xxE43 - SATO-xxE44
on welding power sources SASL

✓ SAXX-200	✓ SAXX-210

Product Code	Description	Netr weight	Customs Code	Dimensions (in cm)
SAFS-AD02	Adaptateur	0.48 kg	85159 00090	l : 35 cm

Adaptor for previous generation of welding heads:
- SATF-xxND
- SATO-xxE01 et SATO-xxE02
on new power sources SAXX

✓ SAXX-200	✓ SAXX-210

Product Code	Description	Net weight	Customs code	Packaging (in cm)
SAMD-NL	Pressure regulator	1.1kg	81515 900090	16 x 14.5 x 17

Pressure regulator 30 l / min compatible with:

- Finland, Netherlands, Sweden, Denmark

✓ SAXX-200	✓ SAXX-210

Product Code	Description	Net weight	Customs code	Packaging (in cm)
SAMD-FR	Pressure regulator	1.1kg	81515 900090	16 x 14.5 x 17

Pressure regulator 30 l / min compatible with:

- Algeria, Angola, France, Greece, Syria, Tunisia, Sudan, Lebanon, Morocco, Portugal, Gabon, Ivory Coast, Senegal, Chad, Mauritania, Congo, Guinea, Mali, Belgium

✓ SAXX-200	✓ SAXX-210

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SAXX accessories

AXXAIR
INNOVATIVE ORBITAL SOLUTIONS

Product Code	Description	Net weight	Customs code	Packaging (in cm)
SAMD-AL	Pressure regulator	1.1kg	81515 900090	16 x 14.5 x 17

Pressure regulator 30 l / min compatible with:

- Germany, Austria, Bosnia Herzegovina, Croatia, Hungary, Israel, Switzerland, Macedonia, Montenegro, Poland, Serbia, Slovenia, Korea, Czech Republic

✓ **SAXX-200**	✓ **SAXX-210**

Product Code	Description	Net weight	Customs code	Packaging (in cm)
SAMD-UK	Pressure regulator	1.1kg	81515 900090	16 x 14.5 x 17

Pressure regulator 30 l/min compatible with:

- South Africa, Saudi Arabia, Brunei, Egypt, United Arab Emirates, Hong Kong, India, Singapore, Yemen, Indonesia, Iraq, Ireland, Jordan, Kuwait, Liberia, Libya. Sri Lanka, Malaysia, Malta, New Zealand, Nigeria, Pakistan, Peru, United Kingdom, Vietnam

✓ **SAXX-200**	✓ **SAXX-210**

Product Code	Description	Net weight	Customs code	Dimensions (in cm)
SATMX-E	TIG Manual torch	2.1kg	81515 900090	22 x 22 x 22

TIG Manual torch **water cooled:**

- Allows manual tacking and welding with the SAXX stations

✓ **SAXX-200 (WATER cooled)**	✓ **SAXX-210**

Product Code	Description	Net weight	Customs code	Dimensions (in cm)
SADF2X	Wire dispenser	12 kg	85159 00090	59.7 x 38.4 x 24

Wire Dispenser for SAXX, cable sheath 5 m max:
- Supplied with the SAXX power supply-connection cable and teflon sheath to guide the wire
- Drive pressure adjusted by adjustable spring, with handle.

✓ **SAXX-200**	✓ **SAXX-210**

SAXX consumables

AXXAIR
INNOVATIVE ORBITAL SOLUTIONS

Product Code	Description	Net weight	Customs code	Packaging (in cm)
SACW-C006	Cooling liquid	3.3kg	38200 00090	15 x 15 x 27
Cooling liquid (3l container)				

✓SAXX-200	✓SAXX-210

Product Code	Description	Net weight	Customs code	Packaging (in cm)
SIMP-02	Rolls printer	0.7kg	85159 00090	29 x 9.5 x 5
Rolls for integrated printer (set of 10)				

✓SAXX-200	✓SAXX-210

Product Code	Description	Net weight	Customs code	Dimensions (in cm)
SUSBX200	USB stick	0.02kg	85159 00090	6 x 2 x 1

USB stick for **SAXX-200**:
USB stick with software for recording welding programmes and the WeldReport

✓SAXX-200	SAXX-210

NEW

Product Code	Description	Net weight	Customs code	Dimensions (in cm)
SUSBX210	USB stick	0.02kg	85159 00090	6 x 2 x 1

USB stick for **SAXX-210:**
USB stick with software for recording welding programmes and the WeldReport

SAXX-200	✓SAXX-210

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Join experience