

Origo™ Arc 410c/650c/810c

Heavy duty switching converter

Robust and powerful

The Origo™ Arc 410c, 650c and 810c are sturdy and robust switching converter (chopper) power sources intended for manual heavy duty MMA welding with coated electrodes, TIG welding and Air Carbon Arc Gouging.

Well proven technology with a high level of reliability, outstanding weld performance, a strong metal housing and large wheels for ease of handling, make this range of machines ideal for use in the toughest of industrial environments.

Easy to use

The wide current range of the Origo™ Arc makes it easy to optimise settings, allowing the machine to be used with an extensive range of filler materials. These units are equipped with such functions as hot start, arc force and anti stick. It is also possible to adjust parameters during welding process.

Flexibility

The units have vertical static characteristics which means that regardless of cable length and arc voltage, the current remain constant.

The dynamic characteristics of the Origo™ Arc range ensures stable, spatter free arc and an easily controlled molten pool.

Due to the high power factor, energy consumption is low and installation costs can be kept to a minimum.



The welding properties of these units are configured to meet the requirements of welding with celluloid electrodes. The arc is very flexible when starting from the lowest currents.

When the arc is shortened arc force makes weld penetration easier, especially when the electrode is pressed against the welded material.

The Origo™ Arc 410c, 650c and 810c are available with control panels A11 or A12. The panel A11 is a basic solution with only current, hot start and arc force settings. The panel A12 is a full version with a V/A instrument and a receiver for wireless current setting.

As an option the Origo™ Arc range can be equipped with remote control.

The units are switched off automatically in case of overheating. They also conform to both EN 60974-1 and EN 60974-10

Applications

- General fabrication and civil construction
- Repair and maintenance
- Power generation
- Pipelines
- Shipbuilding and offshore
- Process industry

- Best for cellulose electrodes.
- Outstanding welding characteristics- high efficiency and high quality welding.
- Wide current and voltage range- multiple purpose applications.
- Mains voltage compensation - stable welding controls.
- Stepless current control - exact settings with optional remote control facilities.
- Hot start, arc force and anti stick.
- Digital instrument.

Technical data

	Origo™ Arc 410c	Origo™ Arc 650c	Origo™ Arc 810c
Mains voltage	230/400-415/500 V, 3~50 Hz 230/440-460/550 V, 3~60 Hz	230/400-415/500 V, 3~50 Hz 230/440-460/550 V, 3~60 Hz	230/400-415/500 V, 3~50 Hz 230/440-460/550 V, 3~60 Hz
Permitted load at			
35% duty cycle	400 A / 36V	650 A / 44V	800 A / 44V
60% duty cycle	310 A / 33V	490 A / 40V	630 A / 44V
100% duty cycle	240 A / 30V	400 A / 36V	500 A / 40V
Setting range (DC)	20A/20V - 400 A/36V	20A/20V - 650 A / 44V	20A/20V - 800 A / 44V
Open circuit voltage	56V	56V	56V
Open circuit power	390W	510W	520W
Power factor at maximum current	0,9	0,9	0,9
Efficiency at maximum current	0,74	0,77	0,76
Dimensions lxxwxh	1310 x 800 x 780 mm	1310 x 800 x 780 mm	1310 x 800 x 780 mm
Weight	157 kg	223 kg	245 kg
Operating temperature	-10 till +40°C	-10 till +40°C	-10 till +40°C
Enclosure class	IP 23	IP 23	IP 23
Application classification	S	S	S

Ordering information

Origo™ Arc 410c, A11 stationary	0349 312 100
Origo™ Arc 410c, A12 stationary	0349 311 490
Origo™ Arc 650c, A12. stationary	0349 311 510
Origo™ Arc 810c, A12 offshore	0349 311 430

Accessories

Wheeling kit	0349 312 090
N02 Remote control unit wireless	0349 304 617

MMA 1 Remote control, 10 m	0349 501 024
MMA 2 Remote control, 10 m	0349 501 025
AT1 Remote control	0459 491 896
AT1 CoarseFine Remote control	0459 491 897

Remote interconnection cable 5 m analogue 12 pole	0459 552 880
Remote interconnection cable 10 m analogue 12 pole	0459 552 881
Remote interconnection cable 15 m analogue 12 pole	0459 552 882
Remote interconnection cable 25 m analogue 12 pole	0459 552 883



Quality accessories for the quality welder
ESAB offers a wide range of accessories. The complete range, along with product information, is available at our local web-sites, look at www.esab.com or contact your local ESAB dealer.

Unrivalled service and support

Our commitment and ability to deliver the expected service and support starts immediately after the order is confirmed. We endeavour to offer our customers an After Sales service, which is second to none. A strong and skilful service organisation is prepared to offer service and maintenance, calibration, validation and upgrading of equipment and software.

The service organisation will offer standardised solutions for the reconditioning or modification of existing products.

Spare and wear parts are manufactured according to ESAB's quality plan. Exchange Printed Circuit Board (PCB), exchange modules and components are available for all our products in order to reduce downtime to an absolute minimum. ESAB is continuously upgrading authorised service partners for local service support. Customers who have their own service and maintenance personnel will always be offered a service-training package as part of a total ESAB offering. However, product and process training for end-users will form an additional part of the ESAB offering. Always ask your ESAB sales representative or distributor for a complete ESAB solution.



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