



# Origo™ Mig C420 PRO

## Compact, strong and mobile

### Robust and powerful

Origo™ Mig C420 PRO are sturdy and robust step-controlled welding power units intended for heavy duty MIG/MAG welding with solid filler wires of steel, stainless steel or aluminium, and cored wires with or without shielding gas. Well proven technology together with ESAB developed software provides high reliability and outstanding welding performance.

The units are made with a strong galvanised metal casing to withstand harsh environments. The large wheels make the units easy to move.

The units are fan-cooled and equipped with thermal overload protection. A temperature controlled cooling fan ensures reduced dust ingress and noise emissions.

### Easy to use

The wide current and voltage range and the three-inductance outlets make it easy to optimise settings for a wide variety of filler materials and gases.

The units are equipped with the potentiometers to set the wire feed speed and burnback time adjustment. They also have 2/4 stroke torch switch functions.

The water cooled units can be fitted with an optional water flow guard. When the water-cooled torch is connected, the patented ELP, ESAB LogicPump, automatically starts the cooling water pump, preventing welding torch from overheating and costly repairs. When the air-cooled torch is connected, the pump is shutdown automatically, which results in reduced noise and extended pump lifetime.

### Applications

- Auto-repair
- Light metal fabrication
- Transport
- Education
- Household and furniture
- Tack welding



### Flexibility

The Origo™ Mig C420 PRO is equipped with standard control unit for manual setting of welding parameters and with a V/A digital instrument. The calibrated V/A meter kit is fitted in series and contributes to the increasing demands on weld quality and traceability.

The unit can be equipped with transformer for CO<sub>2</sub> heater as an option.

- **Outstanding welding characteristics**- high efficiency and high quality welding.
- **Standard digital V/A meter kit** – makes parameters visible and helps to improve weld quality.
- **Sturdy galvanised metal casing with air filter as option** - made to withstand tough corrosive and dirty environments.
- **Wide current and voltage range**- multiple purpose applications.
- **Three inductance outlets**- easy to optimise settings for different applications.
- **ELP, ESAB LogicPump**- automatically starts water pump when a water-cooled torch is connected.



### Technical data

|                                  | Origo™ Mig C420 PRO  |
|----------------------------------|----------------------|
| Mains voltage V, ph Hz           | 400-415 3~ 50/60     |
| Fuse, slow, V/A                  | 400/25               |
| Mains cable, mm <sup>2</sup>     | 4x4                  |
| Permitted load at                |                      |
| 50% duty cycle, A/V              | 420 / 35             |
| 60% duty cycle, A/V              | 400 / 34             |
| 100% duty cycle, A/V             | 315 / 30             |
| Setting range (DC), A/V          | 50 / 16.5 - 420 / 35 |
| Open circuit voltage, V          | 14-47                |
| Open circuit power, kW           | 0.52                 |
| with cooling unit, kW            | 0.73                 |
| Power factor at maximum current  | 0.92                 |
| Efficiency at maximum current, % | 77                   |
| Voltage steps                    | 35                   |
| Inductance outlets               | 3                    |
| Dimensions lxbxh, mm             | 935x 640 x 800       |
| Weight                           | 215                  |
| with cooling unit, kg            | 230                  |
| Operating temperature, °C        | -10 to +40           |
| Enclosure class                  | IP 23                |
| Application classification       | S                    |
| Wire feed speed, m/min           | 1.9-25               |
| Wire dimensions                  |                      |
| Steel*, mm                       | 0.6-1.6              |
| Aluminium, mm                    | 0.8-1.6              |
| Stainless, mm                    | 0.6-1.6              |
| Cored wire, mm                   | 0.9-1.6              |

|                             |       |
|-----------------------------|-------|
| Spot welding, s             | -     |
| Adjustable burnback time, s | 0-0.5 |
| Wire spool Ø 300mm, kg      | 18    |

\* unalloyed solid wire

### Ordering information

|  |              |
|--|--------------|
| Origo™ Mig C420 PRO                    | 0349 312 580 |
| Origo™ Mig C420w PRO                   | 0349 312 590 |
| Air filter                             | 0349 302 252 |
| Transformer for CO <sub>2</sub> heater | 0349 302 250 |
| Water flow guard                       | 0349 302 251 |

**Delivery content:** welding torch PSF™ 405 / PSF™ 410w (\*)  
4,5m, 5m mains cable with plug, 5m return cable with clamp,  
gas hose 1,5m, shelf for gas cylinder, attachment chain for gas  
cylinder, instruction manual.

(\*) for C420 and C420w respectively

### 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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