

RODARC and SAFEX

A range of rectifiers for coated electrode welding with MIG/MAG and TIG options



2006-870

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RODARC – SAFEX : a reputation that inspires



Coated electrode all-terrain rectifiers: efficiency, robustness and simplicity of use make SAF-FRO rectifier units the most reliable machines on the market. 2 ranges of rectifiers:

- **RODARC:** Ideal for welding in the workshop or on-site, they offer users a high duty cycle in a compact

RODARC

These shunt-adjusted rectifiers provide high power for low weight and volume. They are suitable for all electrodes: rutile, basic, specials, stainless, cast iron up to diameter 6.3 mm and cellulosic up to 4.0 mm. They are all delivered with wheels and handling frame.



RODARC 250

- **Special workshop model.**

Electrode diameter 5.0 mm maximum
Duty cycle: 220 A at 35 %
Weight: 57 kg

RODARC 400

- **Special site / workshop model.**

All electrodes: from diameter 1.6 to 6.3 mm
Duty cycle: 325 A at 35 %
Weight: 107 kg

RODARC 450

- **Special site / workshop model.**

All electrodes: from diameter 1.6 to 6.3 mm
Duty cycle: 400 A at 35 %
Weight: 123 kg

Selection table :

	RODARC 250	RODARC 400	RODARC 450
Input voltage	230 / 400 V 50 Hz	230 / 400 V 50 Hz	230 / 400 V 50 Hz
Current adjustment	manual	manual	manual
Welding Current	45 to 240 A	50 to 325 A	60 to 400 A
Duty cycle	at 35%	220 A	325 A
	at 60%	170 A	250 A
Max electrode diameter	5.0 mm	6.3 mm	6.3 mm
Cellulosic electrode	Yes	Yes	Yes
Remote control	No	No	No
TIG	Yes with TIG module	Yes with TIG module	Yes with TIG module
MIG	Yes with MIG module	Yes with MIG module	Yes with MIG module
Ruggedness	Good	Good	Good
Weight	57 kg	107 kg	123 kg



suitable for welding with all types of electrodes: rutile, basic, special, stainless steel, cast iron, but also cellulosic electrodes up to diameter 4 mm.

- **SAFEX:** For more than 15 years they have been proving their unequalled robustness on sites across the world with the toughest operating conditions.

SAFEX

Featuring easy-maintenance mechanical and electrical adjustment, these models guarantee power, robustness and reliability. The SAFEX power source are all delivered with wheels and handling frame. The SAFEX M models are also equipped with eyebolts.



SAFEX M 340

- **Special site / workshop model.**

All electrodes: rutile, basic, specials, stainless, cast iron diameter 2.0 to 6.3 mm, cellulosic up to 4.0 mm
Duty cycle: 240 A at 60 %
Weight: 108 kg

SAFEX M 450

- **Special site / workshop model.**

All electrodes: rutile, basic, specials, stainless, cast iron diameter 2.0 to 6.3 mm, cellulosic up to 4.0 mm
Duty cycle: 300 A at 60 %
Weight: 125 kg

SAFEX C 2

- **A favourite on sites with specially difficult operating conditions.**

Electrically adjusted rectifier.
Coated electrodes: rutile, basic, specials, stainless, cast iron diameter 2.0 to 6.3 mm, cellulosic up to 4.0 mm
Duty cycle: 270 A at 60%
Remote control in option
Weight: 235 kg

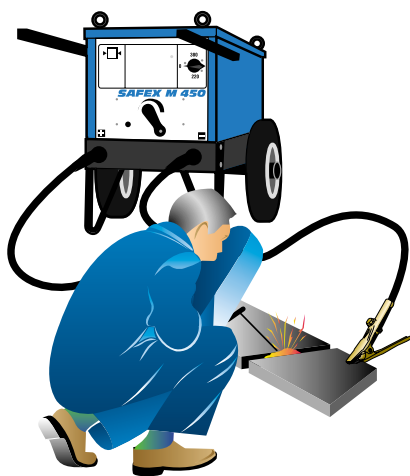
	SAFEX M 340	SAFEX M 450	SAFEX C 2
	220 / 380 V 50 Hz	220 / 380 V 50 Hz	220 / 380 V 50 Hz
	manual	manual	electrical
	45 to 325 A	65 to 405 A	20 to 300 A
	320 A	405 A	300 A (at 45%)
	240 A	300 A	270 A
	6.3 mm	6.3 mm	6.3 mm
	Yes	Yes	Yes
	No	No	Yes - option
	Yes with TIG module	Yes with TIG module	Yes with TIG module
	Yes with MIG module	Yes with MIG module	Yes with MIG module
	Very good	Very good	Excellent
	108 kg	125 kg	235 kg

Three processes all in one unit



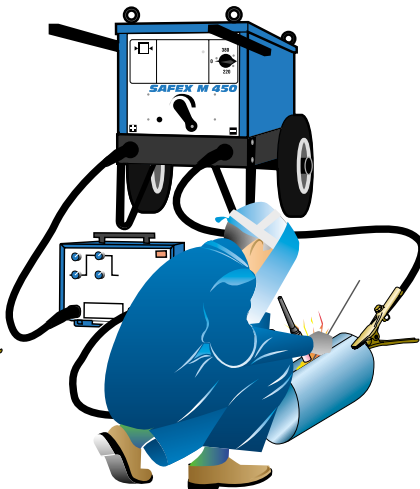
All RODARC and SAFEX models allow 3 welding processes to be operated with the unit, adding the corresponding option available in our SAF-FRO catalogue. Versatile, able to weld MMA, MIG or TIG processes, just pick the right option to start welding.

• Coated electrode welding



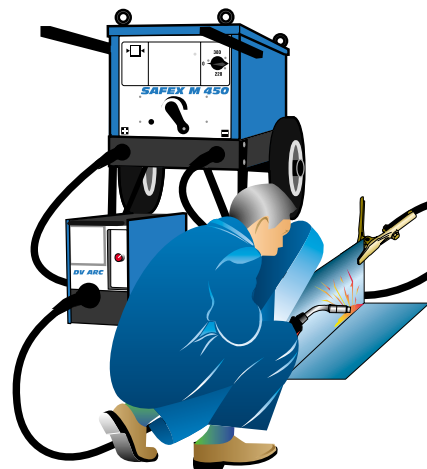
This is the most commonly used process with this product range. A facility guaranteeing simplicity of use, power and robustness.

• TIG welding



With the M 200 add-on unit, your power source is converted into a TIG transformer with gas control and HF striking.

• MIG welding



With DEVIDARC, you can easily transform your MMA unit into a MIG installation. The standalone wire feed unit connects easily to the welding cable for immediate use.

Add-ons for the implementation of TIG and MIG/MAG processes



1 DEVIDARC standalone wire-feeder for MIG

Adaptable to most MMA and TIG generators of more than 250 A. Operates in CC or CV mode. DEVIDARC is a fully standalone MIG welding case (4 rollers), powered directly from the welding cable and ready to use immediately, solid wire, up to 1.6 mm, flux-cored wire up to 2.4 mm.

Cat. no. 9160-0186.

2 Remote control unit for SAFEX C2

Allows you to adjust the current remotely.

Cat. no. 0320-0011.

3 M 200 add-on

Compatible with all DC or AC MMA generators (RODARC, SAFEX, etc.). This case converts coated electrode welding units into TIG welding units with gas control and HF striking.

Cat. no. 0375-0016.

4 PROTIG 30 RLS torch

Length : 5 m. **Cat. no. 0420-8213**
Length : 8 m. **Cat. no. 0420-8214**

5 PROMIG NG 341 torch

Cat. no. W 000 260 894 (3 m)
Cat. no. W 000 260 895 (4 m)
Cat. no. W 000 260 896 (5 m)

6 PRO ARC 200 A accessory kit

• 1 earth cable 25 mm² with 1 fitted DINSE plug,
• 1 welding cable 25 mm² with 1

electrode holder clip and 1 fitted DINSE plug,
• 1 mask, with a T11 filter and a white lens 105 x 50 and 1 coloured lens no. 11,
• 1 hammer-brush.

Cat. no. 0042-0200.

Accessory kit for SAFEX M 340 and RODARC 400

• 1 earth cable L = 3 m with 1 crocodile earth clamp + 1 DINSE plug,
• 1 welding cable L = 4 m + 1 DINSE plug, with 1 electrode holder,
• 1 mask,
• 1 brush and 1 hammer.

Cat. no. W 000 260 681.

(not illustrated)

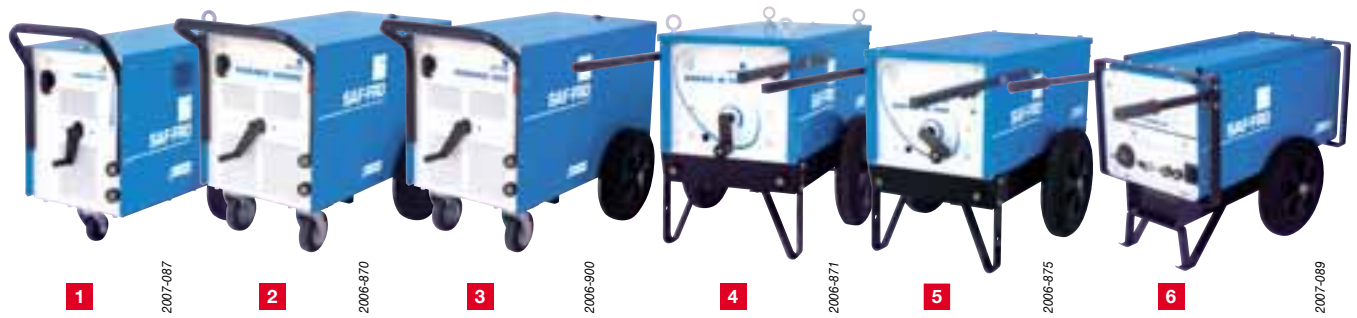
Accessory kit for SAFEX M 450 and SAFEX C2

• 1 earth cable with crocodile clamp 600 A,
• 1 welding cable L = 10 m/50 mm² with 1 VESTALE II electrode holder.

Cat. no. For SAFEX M 450 : W 000 260 682

For SAFEX C2 : W 000 011 139
(not illustrated)

Technical characteristics



Technical characteristics	RODARC			SAFEX			
	1 250	2 400	3 450	4 M 340	5 M 450	6 C 2	
Primary	230 / 400 V	230/400 V	230/400 V	220 / 380 V	220 / 380 V	220 / 380 V	
Power supply	Three phase - 50 Hz						
Max. power consumption	36 A (230 V)	57 A (230 V)	78 A (230 V)	60 A (220 V)	78 A (220 V)	52 A (220 V)	
	28 A (400 V)	33 A (400 V)	45 A (400 V)	35 A (380 V)	45 A (380 V)	30 A (380 V)	
Secondary							
No-load voltage	66 V	70 V	70 V	70 V	72 V	66 V	
Welding current	45 to 220 A	50 to 325 A	60 to 400 A	45 to 325 A	65 to 405 A	20 to 300 A	
Duty cycle at 40 °C 10 mm cycle	at 100 %	130 A	190 A	265 A	210 A	260 A	230 A
	at 60 %	170 A	250 A	345 A	240 A	300 A	270 A
	at 35 %	220 A	325 A	400 A	320 A	405 A	300 A (at 45 %)
Electrode diameter*	1.6 to 5 mm	1.6 to 6.3 mm	1.6 to 6.3 mm	2 to 6.3 mm	2.5 to 6.3 mm	1.6 to 6.3 mm	
Dimensions							
Net dimensions (L x W x H) in mm	890 x 450 x 620	1080 x 560 x 730	1080 x 560 x 730	840 x 670 x 670	880 x 670 x 670	900 x 600 x 710	
Net Weight	57 kg	107 kg	123 kg	108 kg	125 kg	235 kg	
Protection index	IP 23						
Standard	EN 60974-1; EN 60974-10						

* for cellulosic max. 4.0 mm

To order :	RODARC 250	RODARC 400	RODARC 450	SAFEX M 340	SAFEX M 450	SAFEX C 2
Cat. no. power source only	W 000 263 690	W 000 263 694	W 000 263 699	W 000 263 703	W 000 263 705	W 000 263 702
Options						
Accessory kit	W 000 011 139	W 000 260 681	W 000 260 682	W 000 260 681	W 000 260 682	W 000 011 139
Remote control	-	-	-	-	-	0320-0011
TIG M 200 add-on unit	0375-0016					
Stand-alone MIG add-on unit	9160-0186					
PROTIG torch for TIG welding	PROTIG 30 RLS : Cat. no. 0420-8213 (5 m) - Cat. no. 0420-8214 (8 m)					
PROMIG torch for MIG welding	PROMIG NG 341 : cat. n° W 000 260 894 (3 m) - W 000 260 895 (4 m) - W 000 260 896 (5 m)					



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