

CITOMAG 380i

Manual MIG-MAG digital equipment
for wide range of welding applications

Performance through user friendly high technology

SYNERGIC



CITOMAG 380i



The welding installation CITOMAG 380i is the best technical offer for the conventional welding applications.

The technology used, inverter and Digital control allows to realise better welds with increased welding productivity conditions.

The continuous welding adjustment combined with synergic curves and the possibility to memorize the welding parameters brings a welding comfort and efficiency.



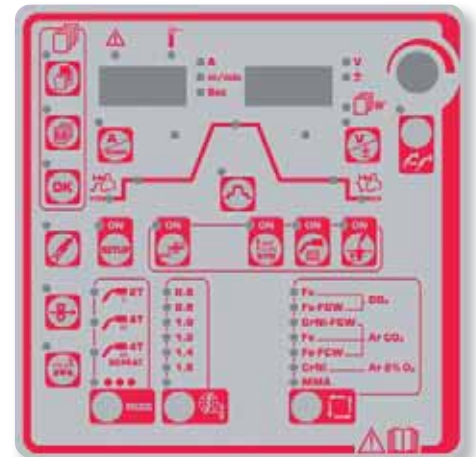
Quality welding

The advanced digital control of the inverter is a guarantee of quality welding, advanced build in functions simplify the work of the welders

- **Constant penetration:** compensate torch movements
- **Easy striking:** improve the rate of good striking,
- **Digital arc control:** control the current and the tension during the arc cycle, reducing the spatters
- **Hard – Soft Arc selection:** allow to select the typology of arc that better fit the need, Hard for stability, soft for less spatters.

Ergonomic – Versatile

- **Soft switching inverter:** compact and light power source.
- **Modular configuration:** separated cooler, trolley, trolley for Wire feeder.
- **Automation interface:** built in automatic interface, V-I regulation trough remote control connection.



Easy to use

- **Synergic:** the machine regulates welding parameters
- **30 Programs:** you can save your working condition and easily retrieve them
- **Digital display:** to display actual welding parameters and to preregulate them before the welding.

Industrial welding applications

CITOMAG 380i is compact, light and the modular design is readily adapted to the welding application. The combination of the efficient inverter, with complete welding cycle, and the simple and robust wire feeder brings the welder the right tool to achieve the highest welding quality.

CITOMAG 380i is particularly well suited for MIG/MAG and flux cored wire welding in the widest range of structural and alloy steel applications.

MMA welding functionality is also available for electrode diameters up to 5 mm.

CITOMAG 380i

Easy to adjust:

- Synergic mode or not

Select the:

- The couple wire /gas
- The wire diameter
- The welding cycle

Welding performances:

- Mixed gas and CO₂
- Complete welding cycle
 - pre-welding step
 - welding
 - crater filler
- Constant penetration function
- Adjustment of the welding arc
 - more soft or more strong
- Memorization
 - 30 welding programs
- MMA welding
- Configured for simple automated applications



DM 5000i

- 4 rollers
- 2 displays
- Regulated wire feed speed
- Selection of the program number
- Gas test and inching wire

Easy to adjust:

- SYNERGIC MODE one knob for the energy and the other for the fine adjustment
- CONVENTIONAL MODE one knob for the welding current and the other for voltage



COOLER III

Powerful cooling unit for an efficient water cooling of the torches.

- Light (10 kg)
- Visible liquid level



Configurations - Ordering information



CITOMAG 380i is a modular machine that fit for the most variety of applications:

- Infrastructure
- Boilers maker
- Railway equipment
- Road transport
- repair and maintenance

Can be composed to fit most of the configurations

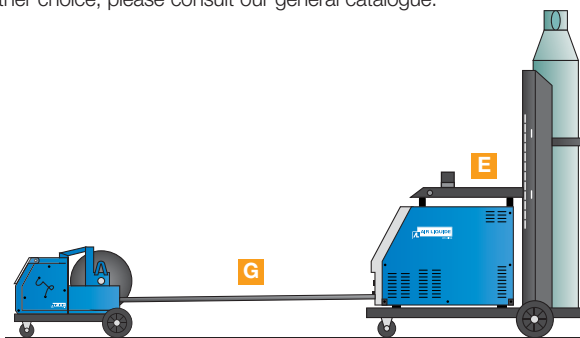
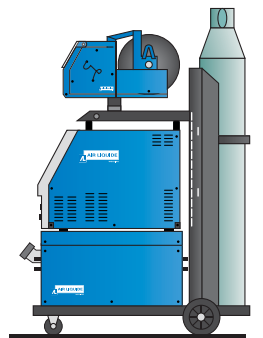
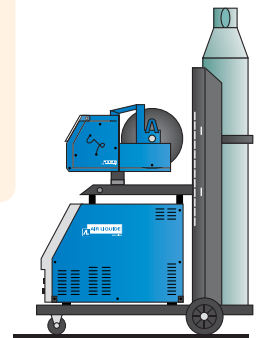
To order

A	CITOMAG 380i	W 000 272 363
B	Power source trolley	W 000 272 365
C	DM 5000i	W 000 272 364
D	Wire feeder trolley	W 000 267 595
E	Pivot adaptor	W 000 274 267
F	COOLER III	W 000 272 366
G	Air harness 2 m	W 000 055 088
G	Air harness 5 m	W 000 055 089
G	Air harness 10 m	W 000 055 090
G	Air harness 25 m	W 000 272 371
H	Water harness 2 m	W 000 055 091
H	Water harness 5 m	W 000 055 092
H	Water harness 10 m	W 000 055 093
H	Water harness 15 m	W 000 055 094
I	Remote control 10 m	W 000 305 112
J	Flowmeter	W 000 267 596
Welding torches		
	CITORCH M 341 - 4 m	W 000 345 092
	CITORCH M 341 W - 4 m	W 000 345 095
	CITORCH M 441 - 4 m	W 000 345 098
	CITORCH M 441 W - 4 m	W 000 345 101

For other choice, please consult our general catalogue.

The power source is delivered with:

- The primary cable
- 5 meters welding cable with the earth clamp
- The instruction manual



* Needed to stack wire feeder on trolley.

Technical Specifications



Power source

CITOMAG 380i	
Primary	
Power Supply - 3 Phases - 50/60 Hz	400 V (+/-) 15%
Maximum primary consumption	16.4 kVA
Secondary	
No load voltage	58 V
Welding current range	30 A - 400 A
Duty cycle at 50%	380 A
Duty cycle at 60%	350 A
Duty cycle at 100%	270 A
General	
Standard	EN 60974-1 - EN 60974-10
Protection index-insulation class	IP 21- H
Dimensions (L x l x h)	640 x 250 x 428 mm
Weight	31 kg

Wire feeder

DM 5000i	
Numbers of rollers	4
Wire feed rate	1 to 18 m/min
Steel - stainless steel	0.8 to 1.2 mm
Flux cored wire	1.0 to 1.2 mm (event 1.6 mm)
Aluminium	1.0 to 1.2 mm
Dimensions (L x l x h)	630 x 210 x 425 mm
Weight	16 kg
Standard	EN 60974-5 - EN60974-10
Protection index-insulation class	IP 23S - H

Cooling unit

COOLER III	
Power Supply - 3 Phases - 50/60 Hz	400 V
Cooling power	2.2 kW
Maxi flow	8 l/min
Dimensions (L x l x h)	640 x 250 x 300 mm
Weight	10 kg





Contacts

BELGIUM

AIR LIQUIDE WELDING BELGIUM SA
Z.I. West Grijpen - Grijpenlaan 5 - 3300 TIENEN
Tel.: +32 16 80 48 20 - Fax: +32 16 78 29 22

CHINA

AIR LIQUIDE WELDING SHANGHAI Rep Off.
Rm 1108 PINE CITY HOTEL
777, Zhao Jia Bang Lu - SHANGHAI 200032
Tel.: +86 21 64 43 11 60 - Fax: +86 21 64 43 58 97

CZECH REPUBLIC

AIR LIQUIDE CZ S.R.O. - Welding and Cutting
Podnikatelská 565 - Areál SVUM - 190 11 PRAHA 9 - Búchovice
Tel.: +420 274 023 163 - Fax: +420 274 023 233

FRANCE

AIR LIQUIDE WELDING FRANCE
13, rue d'Épluches - BP 70024 Saint-Ouen l'Aumône
95315 CERGY PONTOISE Cedex
Tel.: +33 1 34 21 33 33 - Fax: +33 1 34 21 31 30

GERMANY

OERLIKON SCHWEISSTECHNIK GmbH
Industriestrasse 12 - D-67304 EISENBERG/PFALZ
Tel.: +49 6351 4760 - Fax: +49 6351 476 335

HUNGARY

AIR LIQUIDE HUNGARY - Welding & Cutting
Krisztina krt. 39/b - H-1013 BUDAPEST
Tel.: +36 1 339 8650 - Fax: +36 1 339 8649

ITALY

AIR LIQUIDE WELDING ITALY
Via Torricelli 15/A - 37135 VERONA
Tel.: +39 045 82 91 511 - Fax: +39 045 82 91 536

LUXEMBOURG

AIR LIQUIDE WELDING LUXEMBOURG S.A.
5 rue de la Déportation - BP 1385 - L-1415 LUXEMBOURG
Tel.: +352 48 54 56 - Fax: +352 48 54 57

MALAYSIA

SAF-OERLIKON MALAYSIA SDN BHD
No 10, Jalan TPP 5/1
Taman Perindustrian Puchong - 47100 PUCHONG, SELANGOR
Tel.: +603 8060 8638 - Fax: +603 8061 620

NETHERLANDS

AIR LIQUIDE WELDING NETHERLANDS
Rudonk 6 B - NL 4824 AJ BREDA
Tel.: +31 76 541 00 80 - Fax: +31 76 541 58 96

POLAND

AIR LIQUIDE WELDING POLSKA - SP. Z.o.o
UL. Porcelanowa 10 - 40-246 KATOWICE
Tel.: +48 32 609 04 50 - Fax: +48 32 609 04 60

PORTUGAL

AIR LIQUIDE SOLDADURA LDA
Rua Dr. António Loureiro Borges, 4-2° Arquiparque
Miraflores - 1495-131 ALGÉS
Tel.: +351 21 41 64 900 - Fax: +351 21 41 69 40

ROMANIA

DUCTIL
Aleea Industriilor Nr 1 - 120224 BUZAU
Tel.: +40 238 722 058 - Fax: +40 238 716 861

RUSSIA

AIR LIQUIDE WELDING
17 Vorontsovskaya Str. - 109147 MOSCOW
Tel.: +7 495 641 28 98 - Fax: +7 495 641 28 91

SCANDINAVIA

OERLIKON SKANDINAVIEN AB
Krossverksgatan 7 - 216 16 LIMHAMN
Tel.: +46 (0)40 670 15 00 - Fax: +46 (0)40 670 15 01

SLOVAKIA

AIR LIQUIDE WELDING CENTRAL EUROPE S.R.O.
Hlohovecká 6 - 951 41 NITRA - LUŽIANKY
Tel.: +421 37 692 4610 - Fax: +421 37 651 28 04

SPAIN

OERLIKON SOLDADURA SA
Poligono Industrial la Noria Carretera de Castellon
Km-15,500 - 50730 El Burgo de Ebro - ZARAGOZA
Tel.: +34 976 10 47 00 - Fax: +34 976 10 42 67

SWITZERLAND

OERLIKON SCHWEISSTECHNIK AG
Mandachstrasse 54 - CH 8155 NIEDERHASLI
Tel.: +41 44 3076 111 - Fax: +41 44 3076 112

THAILANDE

AIR LIQUIDE WELDING THAILAND Co. Ltd.
40 Moo 6 - Ramindra Road Km 9.5 - KHANNAYAO, BANGKOK 10230
Tel.: +66 29 43 2250 - Fax: +66 29 43 2256

UAE

AIR LIQUIDE WELDING MIDDLE EAST FZE
Jebel Ali free zone warehouse No. FZS1AH05
P.O. BOX 18734 - Jebel Ali - DUBAI
Tel.: +971(0)48861606 - Fax: +971(0)48861608

U. K.

AIR LIQUIDE WELDING Ltd
Low March / London Road - DAVENTRY - Northants NN11 4SD
Tel.: +44 1 327 70 55 11 - Fax: +44 1 327 70 13 10

UKRAINE

AIR LIQUIDE WELDING UKRAINE, Lic.
1 rue Proskura - bureau 106A - 61070 KHARKOV
Tel.: +380 577 546 867 - Fax: +380 577 546 867

Contacts for other countries

ALW International Development Department Italy
FRO - AIR LIQUIDE WELDING ITALIA
Via Torricelli 15/A
37135 VERONA
Tel.: +39 045 82 91 511 - Fax: +39 045 82 91 536
E-mail: export.alwitaly@airliquide.com

ALW International Development Department France
13, rue d'Épluches
BP 70024 Saint-Ouen l'Aumône
95315 CERGY-PONTOISE Cedex
Tel.: +33 1 34 21 33 33 - Fax: +33 1 30 37 19 73
E-mail: export.alwfrance@airliquide.com

ALW International Development Department Switzerland
OERLIKON WELDING LTD
Mandachstrasse 54
CH - 8155 Niederhasli
Tel.: +41 44 3076 111 - Fax: +41 44 3076 212
E-mail: export.oerlikonwelding@airliquide.com

www.oerlikon-welding.com



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Air Liquide is the world leader in gases for industry, health and the environment, and is present in over 75 countries with 43.000 employees. Oxygen, nitrogen, hydrogen and rare gases have been at the core of Air Liquide's activities since its creation in 1902. Using these molecules, Air Liquide continuously reinvents its business, anticipating the needs of current and future markets. The Group innovates to enable progress, to achieve dynamic growth and a consistent performance. Air Liquide combines many products and technologies to develop valuable applications and services not only for its customers but also for society.