



WELD THE WORLD

CU-11 CU-11-HP

Instruction Manual







WELD THE WORLD

INDEX

1	INTRODUCTION.....	4
1.1	INTRODUCTION.....	4
2	INSTALLATION	5
2.1	FRONT PANEL	5
2.2	REAR PANEL.....	6
2.3	ASSEMBLY WITH THE WELDING POWER SOURCE	7
3	TECHNICAL DATA	9
3.1	CU-11	9
3.2	CU-11-HP	9
4	SPARE PARTS	11
4.1	COUPLINGS KIT ALREADY ASSEMBLED	14
5	ELECTRICAL DIAGRAM	15

1 INTRODUCTION

 	IMPORTANT!
<p><i>This handbook must be consigned to the user prior to installation and commissioning of the unit. Read the “General prescriptions for use” handbook supplied separately from this handbook before installing and commissioning the unit.</i></p> <p><i>The meaning of the symbols in this manual and the associated precautionary information are given in the “General prescriptions for use”.</i></p> <p><i>If the “General prescriptions for use” are not present, it is mandatory to request a replacement copy from the manufacturer or from your dealer.</i></p> <p><i>Retain these documents for future consultation.</i></p>	

KEY

	DANGER!
<p><i>This pictogram warns of danger of death or serious injury.</i></p>	

	WARNING!
<p><i>This pictogram warns of a risk of injury or damage to property.</i></p>	

	CAUTION!
<p><i>This pictogram warns of a potentially hazardous situation.</i></p>	

	INFORMATION!
<p><i>This pictogram gives important information concerning the execution of the relevant operations.</i></p>	

NOTES

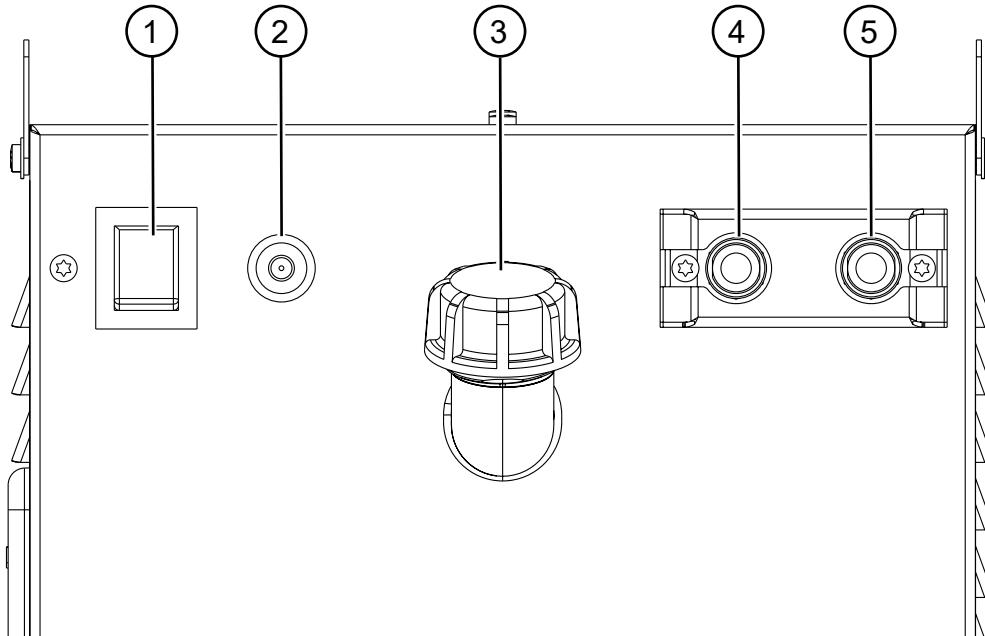
The figures in this manual are purely guideline and the images may contain differences with respect to the actual equipment to which they refer.

1.1 INTRODUCTION

The cooling unit CU-11/CU-11-HP can be connected to the generator, allowing the liquid cooling of the TIG torch.

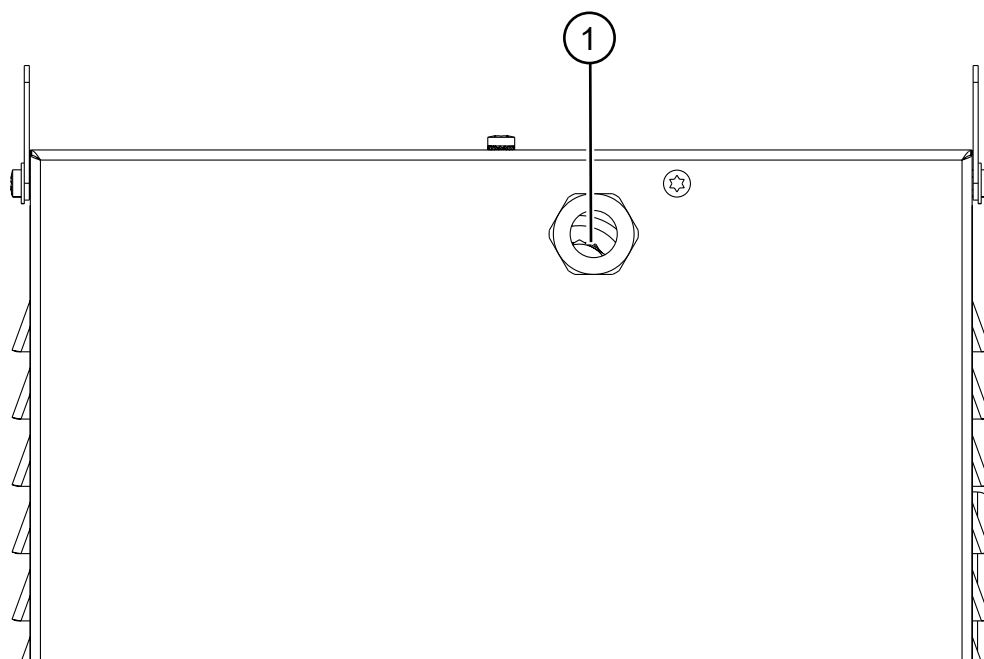
2 INSTALLATION

2.1 FRONT PANEL



1. Switch for switching on and off.
2. Fuse.
 - Type: Delayed acting (T)
 - Amperage: 1.6 A
 - Voltage: 500 V a.c.
3. Inlet for jerrycan filling.
4. Connector for coolant hose:
power source → cooler
5. Connector for coolant hose:
cooler → power source


2.2 REAR PANEL



1. Power cable.






- Total length (including internal part): 1,5 m
- Number and cross section of wires: 5 x 1 mm²
- Power plug type: ILME 16 A 230 / 400 Va.c.

2.3 ASSEMBLY WITH THE WELDING POWER SOURCE

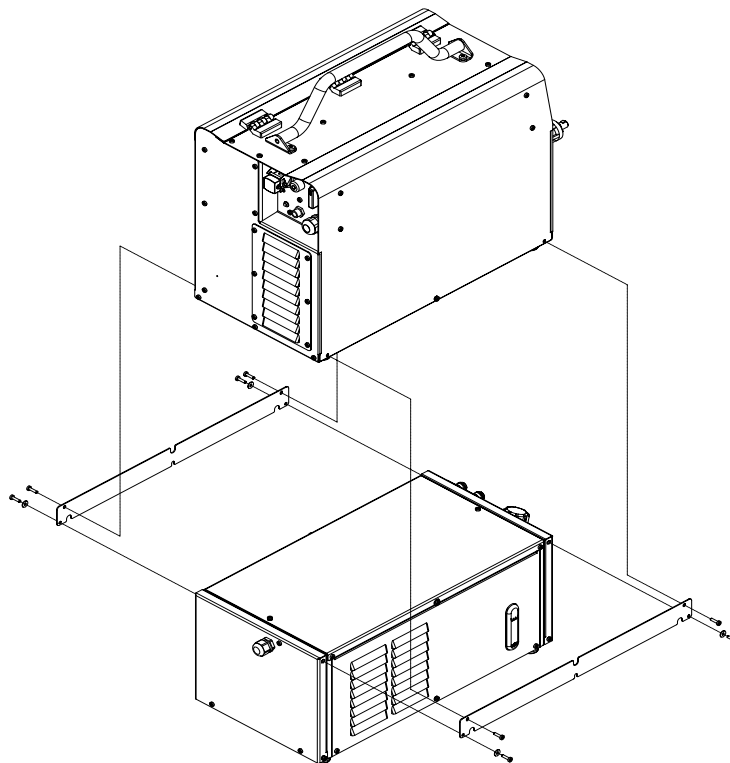


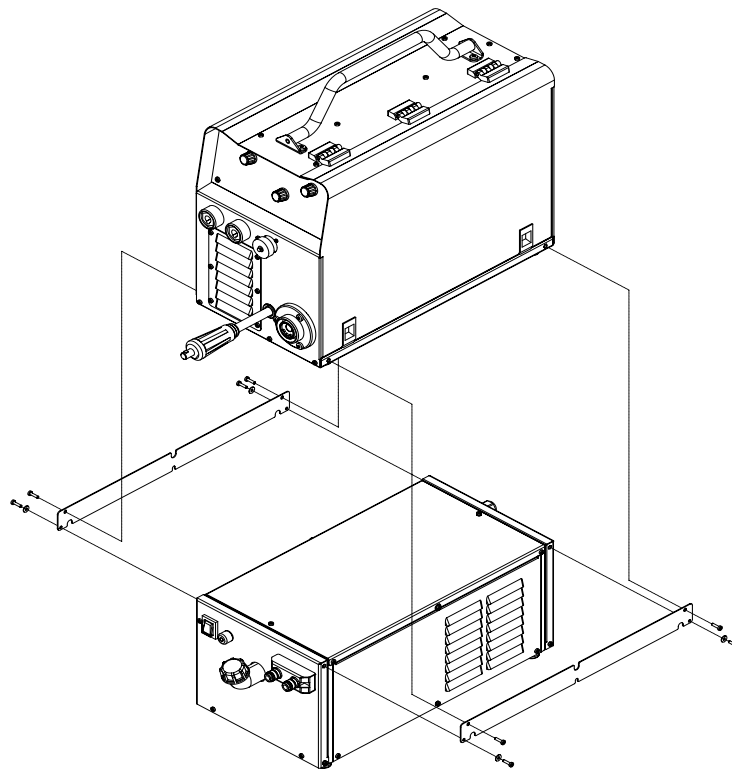
DANGER!
Lifting and positioning

Read the warnings highlighted by the following symbols in the "General prescriptions for use".



1. Set the welding power source ON/OFF switch to "O" (unit de-energized).
2. Remove the lower screws (front and back) from the right-hand side of the power source cabinet.
3. Loosen the screws of the upper brackets of the cooler and open out the brackets slightly.
4. Place the power source on top of the cooler.





5. Secure the cooler brackets to the power source using the screws.
6. Connect the plug of the cooler power cable to the cooler power socket on the rear panel of the welding power source.
7. Plug the power cable plug into a mains socket outlet.
8. Set the welding power source ON/OFF switch to "I" to switch on the unit.
9. Set the cooler ON/OFF switch to "I" (unit powered).







WARNING!

***Periodically checking the level of the liquid in the indicator on the side of the cooling unit.
Be careful when choosing the cooling liquid: it must not be an electricity conductor.
Do not use polypropylene liquids because they damage the seals and generate incrustations.
Read the warnings highlighted by the following symbols in the "General prescriptions for use".***



3 TECHNICAL DATA

Directives applied	Waste electrical and electronic equipment (WEEE)
	Electromagnetic compatibility (EMC)
	Low voltage (LVD)
	Restriction of the use of certain hazardous substances (RoHS)
Construction standards	EN 60974-2; EN 60974-10 Class A
Conformity markings	 Equipment compliant with European directives in force
	 Suitable in an environment with increased hazard of electric shock
	 Compliant with WEEE directive
	 Equipment compliant with RoHS directive

3.1 CU-11

Supply voltage	1 x 400 V~ ± 15 % / 50-60 Hz
Dimensions (D x L x H)	600 x 290 x 240 mm
Weight	18.0 kg (22.5 kg with liquid)
Tank capacity	4.5 l
Protection rating	IP23S
Maximum input current (A)	1.0 A (50 Hz) - 1.1 A (60 Hz)
Cooling power	760 W (1l/min)–2.8 KW (max. l/min)
Maximum pressure	0.32 MPa (50 Hz)–0.43 MPa (60 Hz)

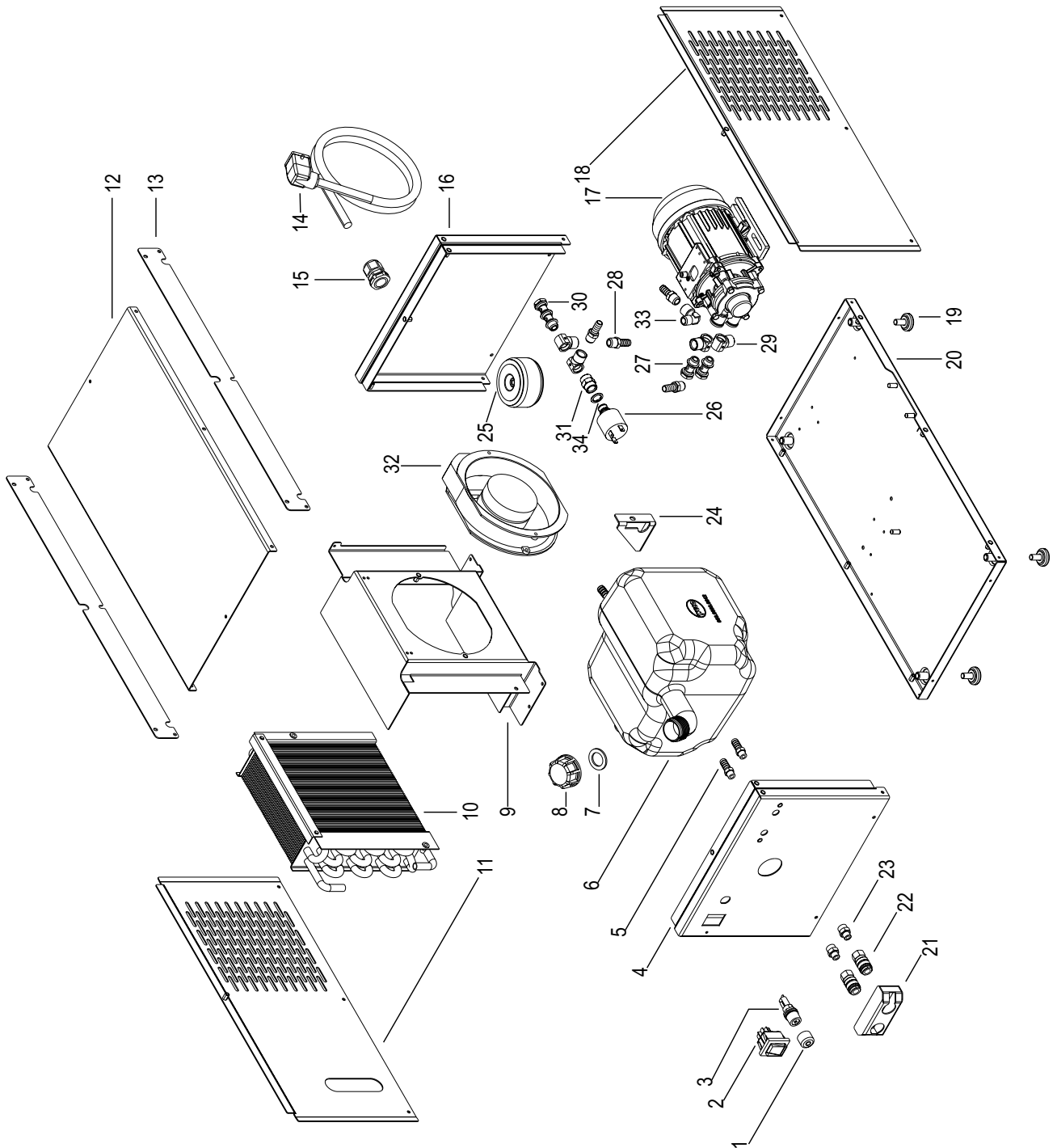
3.2 CU-11-HP

Supply voltage	1 x 400 V~ ± 15 % / 50-60 Hz
Dimensions (D x L x H)	600 x 290 x 240 mm
Weight	18.0 kg (22.5 kg with liquid)
Tank capacity	4.5 l
Protection rating	IP23S
Maximum input current (A)	1.35 A (50 Hz) - 1.53 A (60 Hz)
Cooling power	760 W (1l/min)–2.8 KW (max l/min)
Maximum pressure	0.41 MPa (50 Hz) - 0.51 MPa (60 Hz)

The technical characteristics of the antifreeze liquid supplied with this appliance are found below:

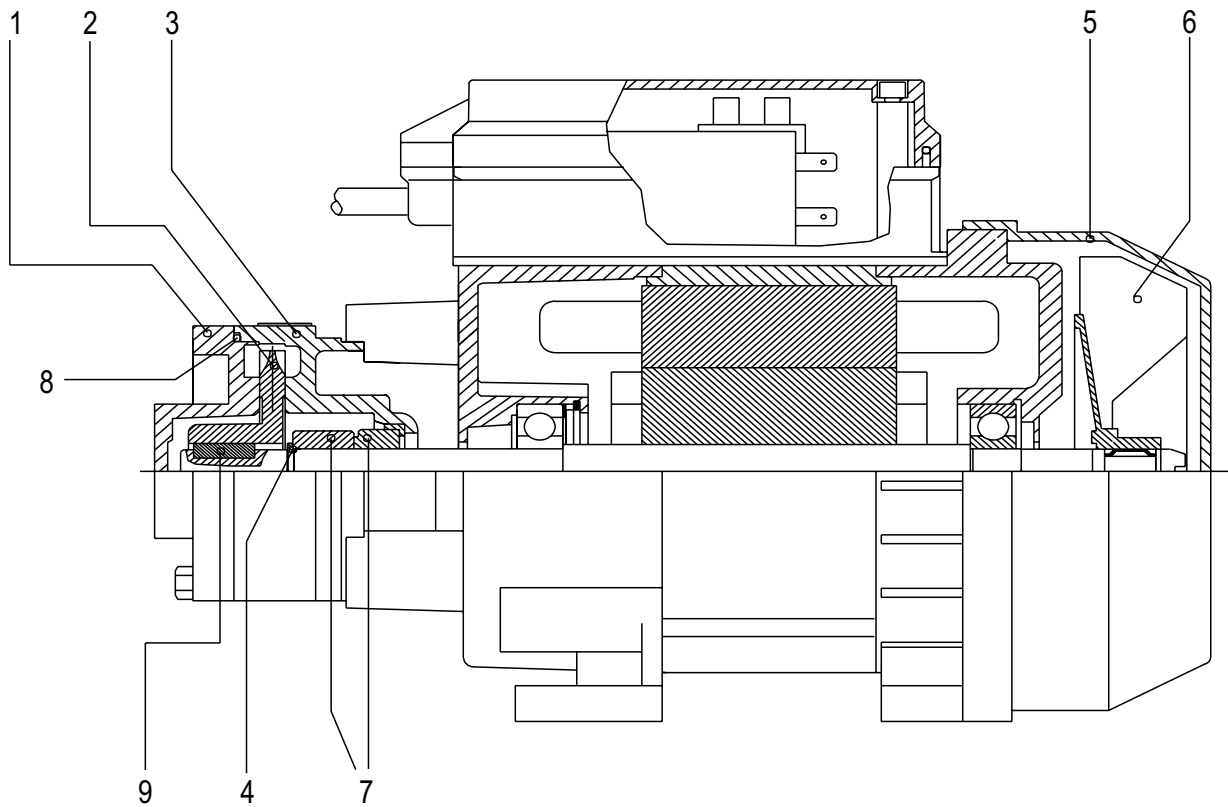
Base	Refrigerants polymers with low pour point
Appearance	Liquid
Color	Colorless
Odor	Odorless
Specific weight	1.030 g/cm ³
Viscosity	< 100 cP
pH	7 / 8
Refractive index	1.369 nD (20 °C)
Boiling point	102 °C
Specific heat	3.9 kJ/kg K
Thermal conductivity	0.45 W/m k (25 °C)
Electrical conductivity	2.3 mS/cm (20 °C)
Dissolved chloridea	< 2 ppm
Dissolved sulfides	< 2 ppm
Hardness	< 0.1 mol/m ³ (Ca ⁺⁺ , Mg ⁺⁺)
Biodegradability	Complete
Foaming power	No
Solubility	Soluble in water

4 SPARE PARTS



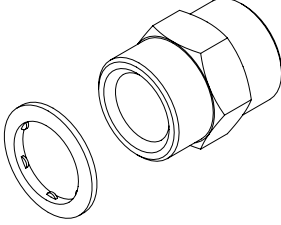
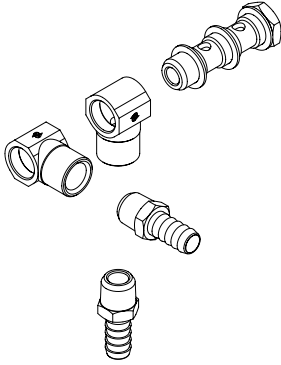
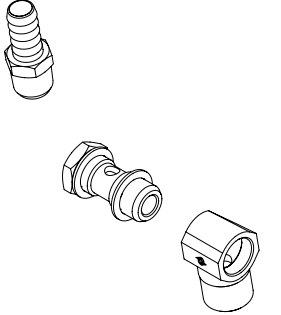
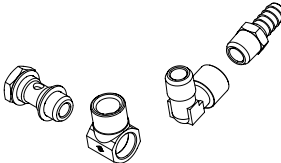
ENGLISH

N°	CODE	DESCRIPTION
1	016.0011.0004	FUSE CARRIER CAP
2	040.0001.0003	BI-POLE SWITCH
3	040.0006.1880	FUSE HOLDER
4	011.0012.0121	FRONT PLATE
5	016.5001.3041	SLEEVE HOSE ADAPTER FOR RUBBER HOSE Ø= 10 mm F= 1/8 M
6	003.0003.0012	TANK
7	003.0003.0016	GASKET
8	003.0003.0015	CAP
9	011.0012.0108	RADIATOR SUPPORT
10	003.0003.0014	RADIATOR
11	011.0000.1101	LEFT SIDE COVER
12	011.0012.0123	UPPER COVER
13	011.0012.0124	CLAMPING PLATE
14	022.0002.0074	SUPPLY CABLE
15	045.0000.0014	CABLE CLAMP
16	011.0012.0122	REAR PLATE
17	003.0004.0026	PUMP CU-11
17	003.0004.0041	PUMP CU-11-HP
18	011.0000.1111	RIGHT COVER PANEL
19	016.0009.0003	FOOT
20	011.0012.0120	LOWER COVER
21	011.0016.0156	QUICK CLUTCH COVER PLATE
22	018.0002.0004	FLUIDS, FEMALE QUICK FITTING MALE ELBOW 1/8 GAS
23	017.0003.0055	F= 1/8 - M= 1/8 NIPPLE CONNECTOR
24	011.0012.0018	TANK FIXING PLATE
25	041.0006.0008	AUXILIARY TRANSFORMER
26	017.0006.0007	PRESSURE SWITCH
27	017.0003.0021	HOLLOW BOLT M= 1/4
28	016.5001.3042	SLEEVE HOSE ADAPTER FOR RUBBER HOSE Ø= 10 mm F= 1/4 M
29	017.0003.0024	HYDRAULIC SWIVEL JOINT LF= 1/4
30	017.0003.0022	DOUBLE HOLLOW BOLT M= 1/4
31	017.0003.0056	F= 1/4 - M= 1/4 NIPPLE CONNECTOR
32	003.0002.0016	FAN
33	017.0003.0027	90° F= 1/4 - M= 1/4 NIPPLE CONNECTOR
34	016.1001.1001	WASHER 1/4 GAS NYLON



N°	CODE	DESCRIPTION
1	003.0004.0017	PUMP BODY ¼ GAS
2	003.0004.0018	IMPELLER
3	003.0004.0019	SEAL BODY
4	003.0004.0020	SEAL SEEGER
5	003.0004.0008	COVER FAN
6	003.0004.0007	FAN
7	003.0004.0021	MECHANICAL COMPLETE SEAL
8	003.0004.0023	BODY O-RING
9	003.0004.0022	SHAFT KEY

4.1 COUPLINGS KIT ALREADY ASSEMBLED

N°	CODE	DESCRIPTION
	010.0000.0067	PRESSURE SWITCH CONNECTOR KIT
	010.0000.0069	PRESSURE SWITCH PIPE DOUBLE CONNECTOR KIT
	010.0000.0070	PUMP CONNECTION KIT (A)
	010.0000.0071	PUMP CONNECTION KIT (B)



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