

**WELDING CABINETS 50/60 HZ**



**WELDING CABINETS :**

- STANDARD
  - SPECIAL
- POWER UNITS**



## STANDARD WELDING CABINETS

COMPACT

FLEXIBLE

MODULAR



**T1500**

- ➔ **36 to 225 kVA**
- ➔ **Modular**
- ➔ **Compact**
- ➔ **Optional fluid panel on the back of the cabinet**



**T5000**

- ➔ **250 to 550 kVA**



**Compact Welder**  
(see commercial documentation  
Ref. : C377GB)

## CONFIGURATION GRID

WELDING CABINET TYPE	T1504	T1509	T1514	T1522	T5025	T5035	T5055
Standard 400V Reference :	ZT20400002	ZT20900002	ZT21400002	ZT22200002	ZT52500002	ZT53500002	ZT55500002
Power (kVA) at 50% duty cycle - 400V	36	90	140	225	250	350	550
Power at 100% duty cycle (kVA) - 400V	25	64	100	160	177	252	400
<b>Main breaker 400V with shunt trip</b>							
Rating - A	63	160	250	400	630	630	1000
Thermal release - A	63	160	250	400	443	630	1000
Magnetic release - A	1120	1250	2500	4000	4430	630	10000
Thyristors 400V - A	240	800	1200	1800	1800	3300	4000
<b>Power cable section (20 m)</b>							
Phase/earth - 400V - mm <sup>2</sup>	16/16	35/25	70/35	120/70	120/70	185/95	300/150
Fuses - 400V - A	63	160	250	400	500	630	1000
Cooling water flow - l/mm	4	4	4	4	4	4	4
Hoses internal Ø - mm	10	10	10	10	10	10	10
<b>Options</b>							
A - Under voltage remote trip	HCO1504A	HCO1509A	HCO1514A	HCO1522A	standard feature		
B - Bimanual Pilz relays (single stroke)	HCO1500B				HCO1500B		
C - Bimanual Pilz relays (double stroke)	HCO1500C				HCO1500C		
D - ELCB (30mA)	standard feature		HCO1514D	HCO1522D	N/A		
F1 - Fluid panel 1 manual gun 1 pressure regulator	HCO1500F1				HCO1500F1		
F2 - Fluid panel 2 manual guns 2 pressure regulators	HCO1500F2				HCO1500F2		
F3 - Fluid panel 2 manual guns & proportional valve	HCO1500F3				HCO1500F3		
F4 - Fluid panel 1 robot gun & proportional valve	HCO1500F4				HCO1500F4		
G1 - Fluid panel F1 + water flow controller	HCO1500G1				HCO1500G1		
G2 - Fluid panel F2 + water flow controller	HCO1500G2				HCO1500G2		
G3 - Fluid panel F3 + water flow controller	HCO1500G3				HCO1500G3		
G4 - Fluid panel F4 + water flow controller	HCO1500G4				HCO1500G4		
H - Clear protection window	HCO1500H				standard feature		
I - Isolation contactor	specific - creation of a V03 xxx xxxx number				specific - creation of a V03 xxx xxxx number		
K - Function kit : lights, switches...	HCO1500K				HCO1500K		
L - 16 program selector	HCO1500L				HCO1500L		
M - Primary toroid 1500mV/kA	HCO1500M				HCO1500M		
P - 12 p. Souriau socket	standard feature		HCO1500P		HCO1500P		
R - Kit of 6 relays for cascade	HCO1500R				HCO1500R		
S - Floor stand	HCO1500S				N/A		
S0 - synchro without backup network	optional feature				optional feature		
S1 - synchro without backup network 230V	optional feature				optional feature		
S2 - synchro without backup network 400V	optional feature				optional feature		
S3 - synchro without backup network 400V	optional feature				optional feature		
T - 32 program selector	HCO1500T				HCO1500T		
V - Auxiliary 24 VDC power supply	HCO1500V				HCO1500V		
W - WAGO terminal bar	HCO1500W				standard feature		

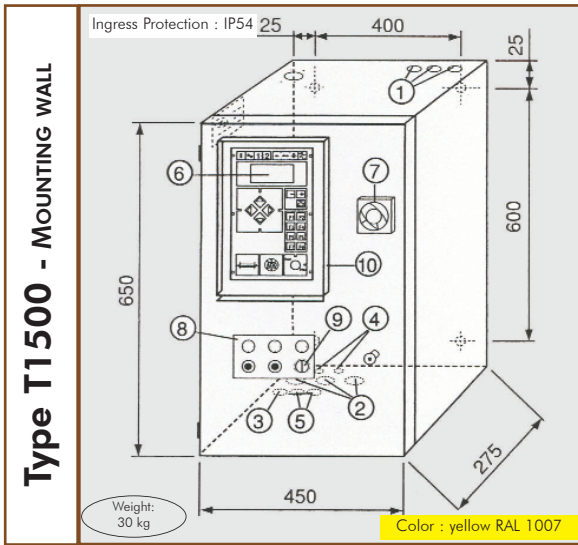
POWERFUL

FLEXIBLE

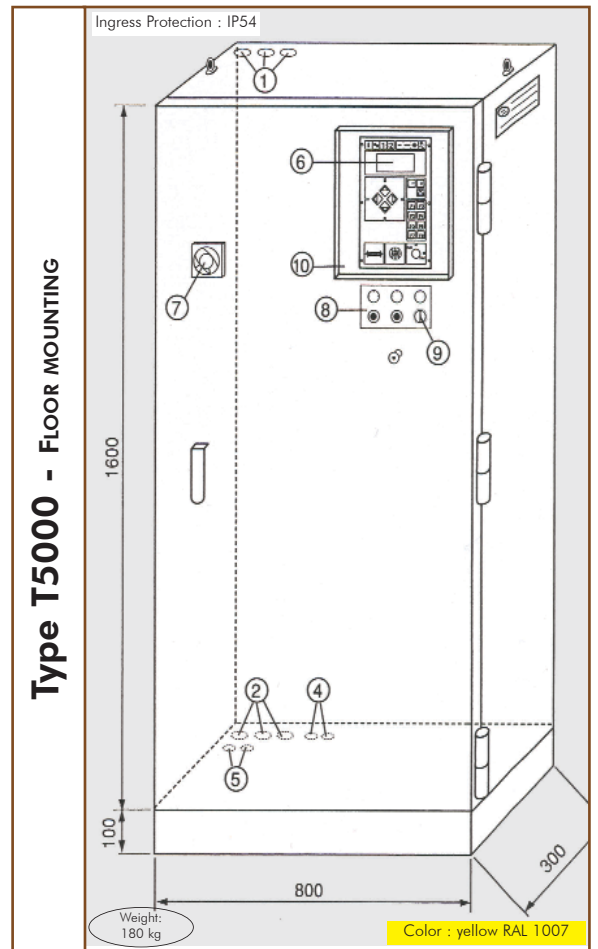
USER-FRIENDLY



## WELDING CABINET - DIMENSIONS AND CONNECTIONS



- ① Power network connection 2 x PG42 + PG36 for T5000; 2 x PG36 + PG29 for T1500
- ② Welder power connection 2 x PG42 + PG36 for T5000; 2 x PG36 + PG29 for T1500
- ③ Auxiliaries welder connection PG11 (or 12p SOURIAU socket for manual gun)
- ④ Water inlet and outlet connections for Ø10 mm hoses
- ⑤ Reserve (2 holes 1 x Ø 19mm)
- ⑥ Welding controller
- ⑦ Main breaker
- ⑧ Optional lights and switches kit
- ⑨ Program selection
- ⑩ Clear protection window



**Primary current toroid 1500mV/kAmp D86/45**  
Ref.: 20980012 - Drawing : 52745



**Converter RS 232/485**  
**Link between PC & controller 2x16III**  
Length : 3 m - Ref. : AG128590



**Thyristor panel 230V**

Type	Complete	Thyristor block	Control PCB
800A	ZRA041	00852692	0019974900
1200A	ZRA091	00852680	0019974900
1800A	ZRA141	00852700	0019975000



**Thyristor panel 400V**

Type	Complete	Thyristor block	Control PCB
240A	ZRA042	00852709	0019913201
800A	ZRA092	00852692	0019913201
1200A	ZRA142	00852680	0019913201
1800A	ZRA222	00852700	0019937500

**Welding controller**

Type	Complete	Power supply
5T2P	ZAA0A6A9DPIS	60380013
7T8P	ZAA0A6B9DPIS	60380013
10T16P	ZAA0A7A9DPIS	60380013
10T32P	ZAA0A7B9DPIS	60380013



**Supply cable: thyristor panel ↔ controller**

Length :	1 m	Ref. : B1852687	Drawing 21696
Length :	1,5 m	Ref. : B1852687	Drawing 21696
Length :	2 m	Ref. : AS852687	Drawing 21696
Length :	4 m	Ref. : A1852687	Drawing 21696

**Secondary current toroid 150mV/kAmp**

Ref. without connector :  
 Ø 150 mm - 20980002 - Ø 200 mm - 20980003 - Ø 300 mm - 20980006  
 Ref. with connector Sub D9E :  
 Ø 150 mm - 20980011 - Ø 200 mm - 20980013 - Ø 300 mm - 20980016



## SPECIAL WELDING CABINETS

ARO Controls also makes special cabinets to answer all the welding requirements (contact us)

Air cooled T1500  
(natural convection)



Medium Frequency cabinet  
with 4 inverters



Cabinet with small footprint  
(can be attached to the side  
of robot controller)



Cabinet for robot  
control



POWERFUL

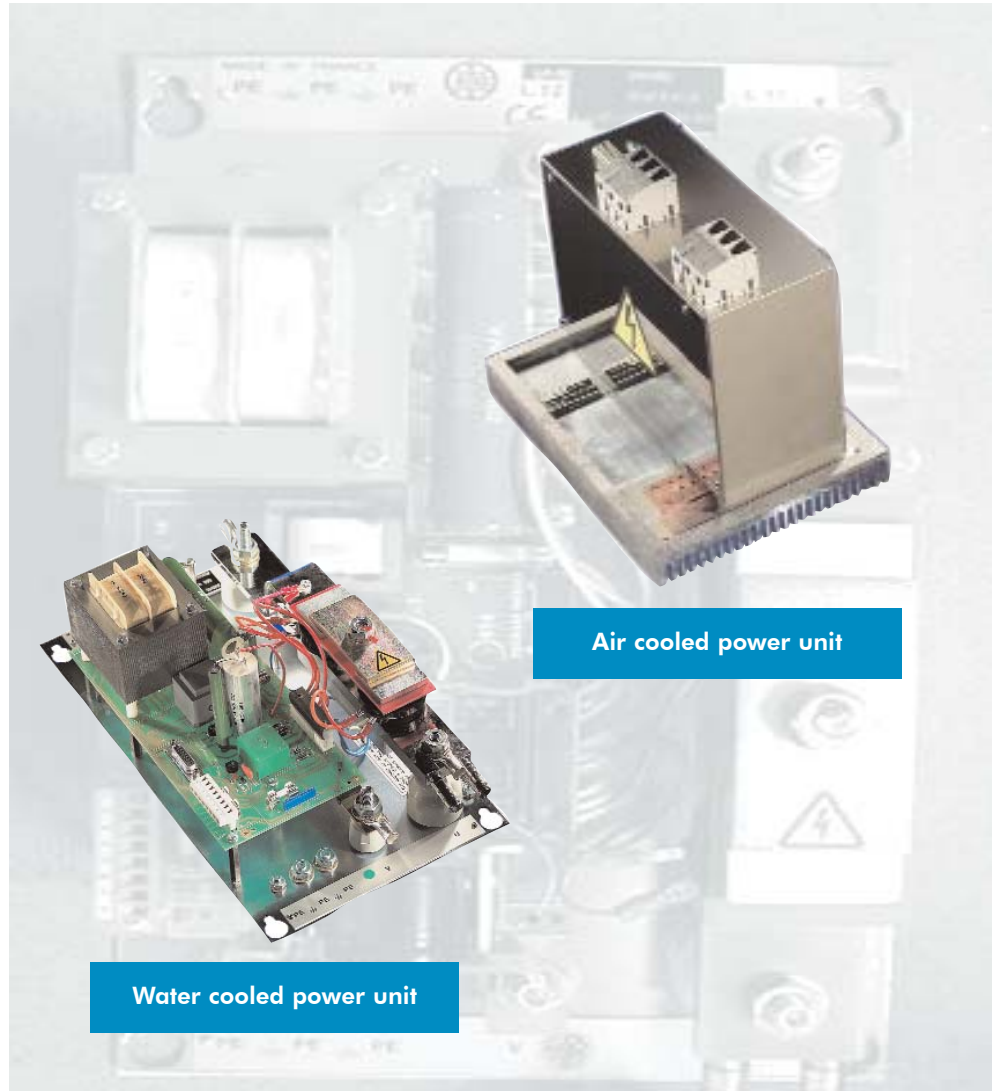
FLEXIBLE

USER-FRIENDLY

## POWER UNITS

A complete range to answer all needs :

- **From 36 to 550 kVA**
- **for networks from 200 to 690V**
- **Compact**



Air cooled power unit

Water cooled power unit



**Controls**  
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