

the heart of cold cathode



F.A.R.T. (italy) COLD CATHODE TRANSFORMERS

The resin block cold cathode transformers are renowned worldwide for quality and reliability



MINIBLOCK

- Reduced size
- For indoor and outdoor use (enclosure needed - built in)
- IP 20 rated

10kV~90mA
10kV~120mA
12kV~60mA
15kV~60mA



RESINBLOCK 2000

- Best quality standard
- With moulded sockets for spiral sheaths allocations
- For indoor and outdoor use (no enclosures needed - built out)
- IP 44 rated



RESINBLOCK 2000 COMPACT

- Minimum effort and minimum weight
- Maximum output
- For indoor and outdoor use (no enclosures needed - built out)
- IP 44 rated



RESINBLOCK MILLENNIUM COMPACT

- Factory equipped with protection switch and Power Factor capacitor
- Box with injection moulded fairleads
- New enlarged lid with Nylon/Teflon fixing screw in self-extinguish material
- For indoor and outdoor use (no enclosures needed - built out)
- IP 44 rated



THE EUROPEAN STANDARD

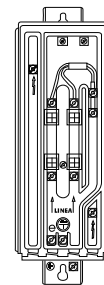
10KV Max total output.
Earth leakage switch always required



**Resinblock 2000
Millennium
Pe Type***

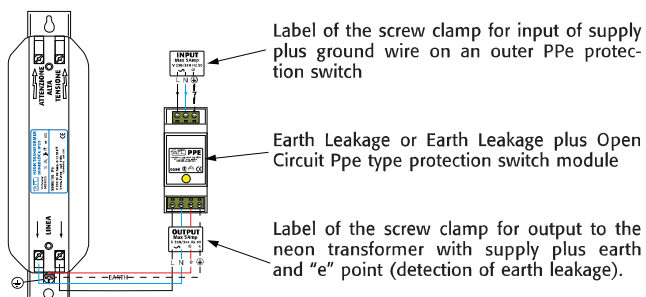


**Resinblock 2000
Pe Type***

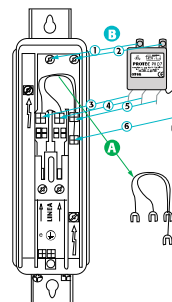


**Resinblock
Pe Type always
with safety
knife switches**

MOUNTING OF AN OUTER PROTECTION SWITCH PPE TYPE



TO FIT PROPERLY A PROTECTION SWITCH UNIT INTO THE TRANSFORMER, ONE MUST CARE:



- 1 unscrew screws (n. 4 through 6) of the wire bridge A (lift do not remove).
- 2 remove the wire bridge
- 3 unscrew and remove the upper screws (n. 1 and 2)
- 4 set in place properly the protection switch B
- 5 screw tightly the two upper screws through their fixing holes
- 6 screw tightly the remaining four screws.

Note: loose or improper screwing of a single screw can cause damages or malfunctioning of the protection switch

SUGGESTED CABLES LENGTH ACCORDING EUROPEAN STANDARD EN50143

Rated Output Voltage to the Earth	1 kV (2 kV total output)		2 kV (4 kV total output)		3 kV (6 kV total output)		4 kV (8 kV total output)		5 kV (10 kV total output)	
	Ar Ne	Ne	Ar Ne	Ne	Ar Ne	Ne	Ar Ne	Ne	Ar Ne	Ne
Gas filling inside the tubes										
Cable type B,C,F,G,H (drafted metres between transformer and the tubes load)	40	20	30	15	20	10	15	7	10	5
Cable type K (drafted metres between transformer and the tubes load)	40	20	30	15	Must not be used at voltages greater than 2.5kV to earth					
Cable type A,D,E (drafted metres between transformer and the tubes load)	24	12	16	8	12	6	9	4	6	3

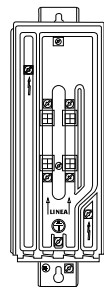
* Extra Europe available up to 15kV

THE INTERNATIONAL STANDARD

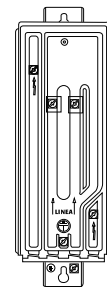
15KV Max total output allowed.



Resinblock CM Type
without safety
knife switches



CM Type with
safety knife
switches



CM without
safety knife
switches

LOAD CHART FOR F.A.R.T. TRANSFORMERS 1,2 Isc – series 30 – 60 – 120 mA

With “electrical metres” we intend the linear meter length of the tubes increased by some 0,5 metre per each tube’s section. Always remember to select the smaller transformer in case the load metreage falls in between two types.

This load chart is a simple guide line. Do check secondary current of the connected load with a milliammeter!

Electrical metres for tubes filled with 100% neon gas

OUTPUT VOLTS	Ø=9mm. press. 14mm.	Ø=10mm. press. 13mm.	Ø=12mm. press. 12mm.	Ø=15mm. press. 10mm.	Ø=20mm. press. 7mm.	Ø=25mm. press. 6mm.
1.000	0,50	0,60	0,80	1,00	1,20	2,00
2.000	1,00	1,25	1,50	2,10	2,50	4,20
3.000	1,60	1,90	2,35	2,90	4,10	6,30
4.000	2,20	2,50	3,20	4,00	5,80	8,20
5.000	2,90	3,25	4,10	5,00	7,30	10,40
6.000	3,60	4,00	4,90	6,00	8,84	12,55
7.500	4,60	5,20	6,40	8,00	11,10	15,50
9.000	5,50	6,40	8,00	10,00	13,72	18,50
10.000	6,20	7,20	8,80	11,00	15,20	20,49
12.000	7,25	8,44	10,73	13,21	18,07	24,75
15.000	9,20	10,97	13,45	16,59	22,55	30,85

Electrical metres for tubes filled with mixture argon/neon gas

OUTPUT VOLTS	Ø=9mm. press. 14mm.	Ø=10mm. press. 12mm.	Ø=12mm. press. 10mm.	Ø=15mm. press. 8mm.	Ø=20mm. press. 6mm.	Ø=25mm. press. 5mm.
1.000	0,80	0,80	1,10	1,50	2,00	2,80
2.000	1,40	1,50	1,90	2,70	3,50	5,00
3.000	2,10	2,40	2,90	3,90	5,10	7,60
4.000	2,80	3,20	3,90	5,10	6,70	9,80
5.000	3,60	4,00	4,90	6,30	8,40	12,20
6.000	4,30	4,90	6,00	7,60	10,10	14,60
7.500	5,30	6,20	7,60	9,50	12,90	18,40
9.000	6,40	7,60	9,50	12,00	15,70	22,50
10.000	7,10	8,50	10,70	13,00	17,50	24,60
12.000	8,54	10,10	12,47	15,25	20,81	29,40
15.000	10,61	12,63	15,71	19,09	25,71	36,41