#### **Cryosurgical unit**

## Cryo-S Electric II

### **Technical specification**





## **■ Metrum** CryoFlex

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Standard accessories of the unit include the following elements:

No.	Standard accessories	Qty
1	2-button footswitch with a cable	1
2	Cylinder-unit pneumatic hose	2
3	Flat wrench #22 and #32 (#27) (N <sub>2</sub> O and CO <sub>2</sub> )	1
4	Operating manual	1
5	Electric power cord	1
6	N <sub>2</sub> O and CO <sub>2</sub> cylinder connectors	2
7	Spare seals and seal cones	set
8	Spare fuses	2
9	Unit packaging	1
10	Socket caps (gas supply, cryoprobe)	2
11	Screw-in cryoprobe pantograph	1

Table 1. Standard accessories of the of Cryo-S Electric II device

The following can be ordered as non-standard accessories for the unit:

No.	Non-standard accessories
1	Hose for cryoprobes
2	Angular probes fixed to hose (non-sterile)
3	Detachable probes (non-sterile)
4	Angular probes fixed to hose (sterile)
5	Single-use probes
6	Detachable probes
7	Spray-type cryoprobes
8	Single-use probe adaptor
9	Fabric cylinder bag

Table 2. Non-standard accessories of Cryo-S Electric II device



#### 5. Technical characteristics of Cryo-S Electric II device

POWER SUPPLY				
Power supply	100 ÷ 240V (50 / 60 Hz) AC			
Maximum power consumption	150 VA			
SAFETY				
Class	I			
Level	В			
Fuses	2 pieces Ø5x20 time-delay cut-outs 1.25A / 250V			
Case IP class	IP 21			
GAS SUPPLY				
Working medium	CO <sub>2</sub> or N <sub>2</sub> O			
Maximum pressure	70 bars (CO <sub>2</sub> ) 55 bars (N <sub>2</sub> O)			
Working pressure	48 ÷ 65 bars (CO <sub>2</sub> ) 38 ÷ 53 bars (N <sub>2</sub> O) 25 ÷ 53 bars(N <sub>2</sub> O, Spray-type)			
Operation mode	AUTO MANUAL			
Minimum temperature of a cryoprobe tip	about -80°C for N <sub>2</sub> O about -70°C for C <sub>2</sub> O			
OTHER				
Unit dimensions	390 (w) x 420 (d) x 190 (H) mm			
Weight	around 11 kg			
ENVIRONMENT				
Temperature	18 – 32 °C			
Relative humidity	0 -75 %			
Atmospheric pressure	700 -1060 hPa			



# Table 3. Technical characteristics of Cryo-S Electric II with neurostimulation device 6. Construction and appearance of Cryo-S Electric II with neurostimulation

The case of the unit consists of a powder coated steel framework and a front panel made of formed ABS. A 7" LCD touch screen is used to operate the unit.

Description of drawings presenting the unit (Figure 1, Figure 2, Figure 3):

- LCD screen
- 2. Optional vacuum generator socket
- 3. Flow rate adjustment
- 4. Probe socket,
- 5. RFID reader (cryoprobe identification)
- 6. Speaker
- 7. CO<sub>2</sub> /N<sub>2</sub>O gas connector,
- 8. Footswitch socket,
- 9. CO<sub>2</sub> /N<sub>2</sub>O outlet,
- 10. Fuses.
- 11. Main power switch,
- 12. 110V 230V~ power supply socket,
- 13. Automatic / manual freezing mode icon.
- 14. Freezing temperature,
- 15. Probe flow rate,
- 16. Device work mode (AUTO, MANUAL)
- Duration of the freezing and defrosting,
- 18. Working mode (STOP, PREPARATION TO FREEZE, READY, FREEZING, CLEANING)
- 19. Gas cylinder pressure,
- 20. Cylinder icon:
  - Blue pressure OK.,
  - Red overpressure, empty or not connected
- 21. Gas type icon (CO2 / N2O),
- 22. "End of work" button gas release
- 23. Nominal flow of the probe
- 24. Footswitch buttons (yellow and blue),
- 25. Footswitch work mode icon (C, S),
- 26. Description of the current footswitch functions,

- 27. Neurostimulation button (for devices equipped with neurostimulation only),
- 28. Type of the chosen probe,
- 29. Number of treatments left for the specific probe,
- 30. Device settings screens.

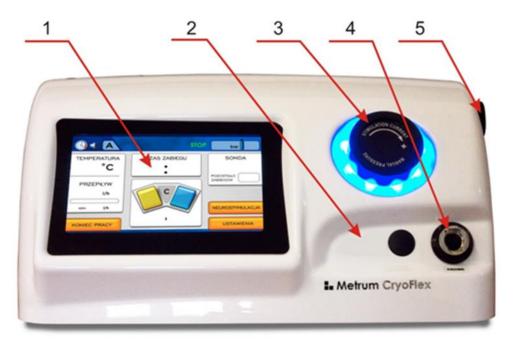


Figure 1. Front view of Cryo-S Electric II

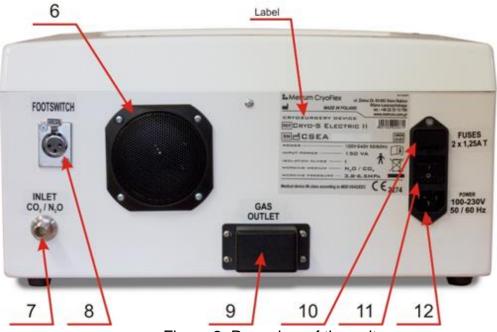


Figure 2. Rear view of the unit