

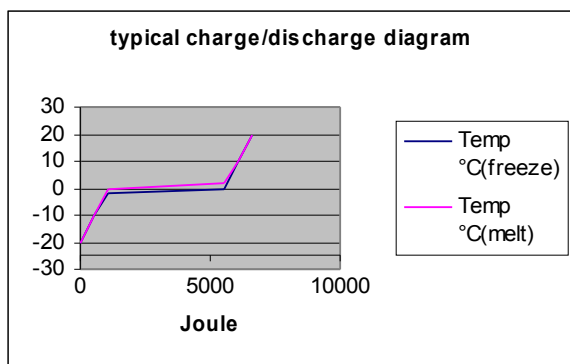
# Water Bags for radiosonde heating



Standard Water Bags

- The waterbags are used to heat the radiosonde during regular radiosonde flight.
- Keeps inside Temperature above  $-3^{\circ}\text{C}$  to ensure precision
- Reuseable
- Self – regulating, no risk of overheat

Due to the high heat capacity of water, and the even higher energy emitted during freezing, the waterbags can keep the electronics and batteries at temperatures above  $-3^{\circ}\text{C}$ .



The water is outgased, and the packets are kept free from any air to enable usage in low pressure conditions.

Special coated Material is used to avoid evaporation, even if stored for longer periods.

**Compared to other heating techniques, Waterbags are environment friendly, rechargeable and easy to control.**

3-4 waterbags will keep the temperature in the SRS-Radiosonde above  $5^{\circ}\text{C}$  at daytime and above  $-3^{\circ}\text{C}$  at night, during a regular 2h radiosonde flight with outside temperatures at about  $-50^{\circ}\text{C}$ .

#### Technical Data:

Weight: 16 gramm

Size: 85x47x8 mm (+/- 2mm)

Heating capacity:

56 Joule/K (4.187 joule/gramm/K )

(1100Joule @ 20K)

Freezing/Melting Energy:

4400 Joule (335J/gramm)

Price:

Up to 25 pcs: 1.90 Euro

25..100 pcs: 1.70 Euro

100...500 pcs: 1.50 Euro

(prices in Euro, without transportation and tax)

**Other sizes or quantities on request.**

meteolabor reserves the right to make changes without further notice

WaterBag\_e2.sxw

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