

150610-1

ClimSel™ C-18



Transport

Typically used for temperature stabilized transports of deep-frozen products and other payloads at around -18°C / -6°F.

Typical temperature stabilization span

-23°C ↔ -18°C

-9°F ↔ -0.4°F

Product description

ClimSel™ C-18 is a salt hydrate based Phase Change Material that works by either the charging or discharging of energy at different temperatures. ClimSel™ C-18 is delivered in various sizes of aluminium foil pouches. Its main components are sodium nitrate, water and additives.

Physical data

Phase change temperature: Solid	-23°C / -9°F
Phase change temperature: Liquid	-18°C / -0.4°F
Latent heat of fusion (see curve)	80 Wh/kg – 288 kJ/kg
Specific gravity	1.15 kg/litre
Thermal conductivity: Solid	2.17 W/m/°K
Thermal conductivity: Liquid	0.56 W/m/°K

Estimated functionality time

If the products are handled correctly, and the packaging is kept uncompromised, the product will continue to cycle as intended over time, with no known lifetime limit.

Note: ClimSel™ C-18 will only work as declared for as long as the pouch is intact.

Usage guidelines

- Recommended storage temperature: 10-15°C / 50-60°F.
- Preparation before use depends on application conditions.
- Handle the ClimSel™ C-18 pouch with care and do not bend when solid.
- Do not use damaged pouch, as the product functionality will be compromised.

Damaged products

- If damaged pouch is suspected, it shall be thoroughly inspected before use.
- Damaged products shall be discarded and treated in accordance with federal, state and local requirements for EWC (=European Waste code) = 060314.

Climator is one of the world's leading companies within PCM and temperature stabilization solutions.

Through our know-how, PCM expertise and innovation power, we develop project-based solutions that solve our customers' temperature stabilization and control problems.

We operate within four application areas.



Transport



Room



Body



Equipment

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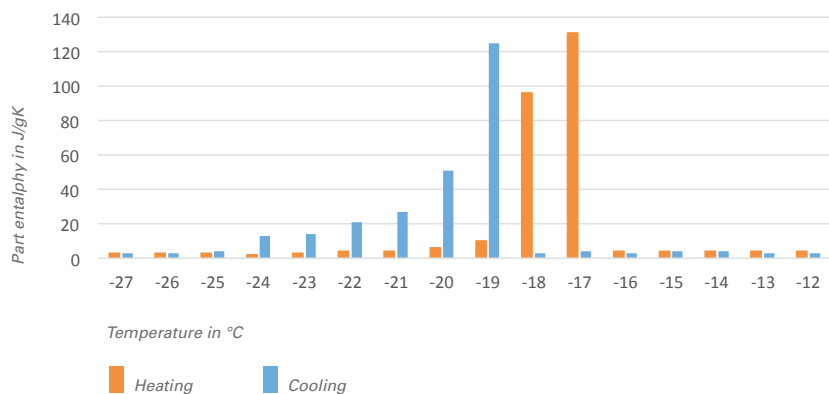
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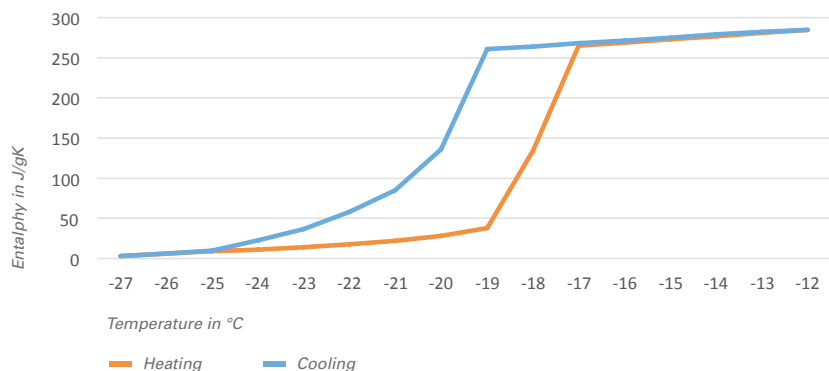
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Phase change performance curves

Part enthalpy



Enthalpy



Orange curve shows performance during melting (to be read from left to right).
 Blue curve shows performance during crystallisation (to be read from right to left).

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