



USER MANUAL DIA-COOL AND COOL-PACK

WHICH DIA-COOL DO YOU NEED?

1. How many pens and/or vials would you like to store in your Dia-Cool?
2. Measure the longest pen and/or vial and then add + 3 cm.
3. Measure the width of pens and/or vials, sum all the widths and then add + 3cm.

Example :

- 4 pens, each 2 cm wide = $4 \times 2 = 8$ cm next to each other + 3 cm extra = 11 cm total.
- Length of the tallest pen is 15 cm = 15 cm + 3 cm extra = 18 cm.
- You need a Dia-Cool with a minimum width of 11 cm and a minimum length of 18 cm. In this case the fitting choice would be Dia-Cool 4.

Store insulin for up to 48 hours with Dia-Cool.

Read this instruction carefully so you may continue to use your Dia-Cool efficiently and effectively over and over again.

HOW DOES DIA-COOL WORK?

Dia-Cool is activated by submerging the Cool-Pack in water. The absolute safe and nontoxic Gel-Pearls will swell as they absorb water. Depending on the surrounding temperature and humidity the Gel-Pearls release the absorbed water which then evaporates. Just like the perspiration of water on your skin the evaporation has a cooling effect. The evaporation process may keep the temperature in the Dia-Cool pack, sufficiently low for safe storage of insulin, until the surrounding temperature reaches 37 degrees Celsius. Depending on the type of insulin, it should be used within 4 weeks.

ATTENTION : Dia-Cool is not suitable for long term storage of insulin. Insulin should **ALWAYS** be stored in a good functioning refrigerator.

Dia-Cool works through evaporation, with the purpose of keeping insulin at a safe temperature of between 18-26 degrees Celsius for up to 48 hours or until the surrounding temperature reaches 37 degrees Celsius .

Dia-Cool can be reactivated for the next period of cooling up to 48 hours. Insulin that has been stored in a Dia-Cool must be used within 4 weeks.

ALWAYS FOLLOW THE INSTRUCTIONS OF THE INSULIN MANUFACTURER.

IMPORTANT ! Insulin should always be kept at the temperature recommended by the manufacturer, prior to placing it in the Dia-Cool pack.

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❖ EVERY DIA-COOL CONSISTS OF 2 PARTS:

- The outside bag
- Dia-Cool, Cool-Pack made of polyester and divided in channels these channels are filled with Gel-Pearls (non-toxic and non-flammable and not suitable for consumption)

HOW TO USE THE DIA-COOL?

PLEASE FOLLOW THIS INSTRUCTION CAREFULLY.

It is important that the Cool-Pack is not submerged for too short or extremely long times in order to ensure the correct volume of water is absorbed. If the Cool-Pack is submerged for too long, it will become heavy and bulky and will may not fit in the outer bag. If too much water is absorbed by the Cool-Pack, let the Cool-Pack dry naturally until, it returns to an acceptable size.

1. Submerge the Cool-Pack that contains the Gel-Pearls in cold water. Submerge it for the times listed below but also not significantly longer.

First time use	60 minutes
After fully dried out	60 minutes
Daily use recharging	15 - 20 minutes

2. Spread the Gel-Pearls evenly in the Cool-Pack channels during submersion. Do not over-fill the Cool-Pack, because it needs to remain pliable.

3. After taking the Cool-Pack out of the water, leave it to dry for 15-30 minutes and give the Gel-Pearls time to absorb the remaining water. Dry the Cool-Pack with a kitchen towel or paper tissues.
4. Place your medication in the activated Cool-Pack, when the Cool-Pack feels hand dry, and then place the Cool-Pack into the outer bag.

For a correctly functioning Cool-Pack, it should be placed into water at least once every 48 hours. This might be necessary sooner than 48 hours in the case of higher temperatures or very low humidity.

Dia-Cool works through evaporation, as such the Cool-Pack needs to be able to “breathe” and regularly in contact with air. The outer bag has been fitted with drop shaped “breath” holes to improve the evaporation and cooling. Always transport the Dia-Cool under conditions that allow exchange with air and ventilation. Never place Dia-Cool in a closed container.

Dia-Cool can be placed in a refrigerator however we do not advice to do so. Never place Dia-Cool in a freezer, because there is the risk for the fabric to stick to the walls of the Cool-Pack.

DRYING, CLEANING, STORAGE

If you do not need the Dia-Cool for a period of time, remove the Cool-Pack from the outer bag and let the Cool-Pack dry-out naturally or until the Gel-Pearls have returned to their solid form. Shake the Cool-Pack every now and then to prevent the pearls from sticking together.

FASTER DRYING

Place the Cool-Pack near a heat source like a central heating radiator, place it in the sun or hang it out to dry.

IMPORTANT!

- The Cool-Pack cannot be washed or placed in a clothes dryer.
- The outer bag can be hand washed at low temperatures.
- The Cool-Pack can only carefully be brushed with a soft brush under flowing water without, damaging the Gel-Pearls.
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- Store your Dia-Cool in a dry place after use.
- This manual is a general guideline.
- Dia-Cool behaves divergent under different climatological conditions in specific to the air temperature and humidity.
- Under normal, non-tropical circumstances you may use Dia-Cool over an extended period of time.

- Over time (usually about 2 years) the water absorbing capacity of the Gel-Pearls starts to deteriorate. Once the absorption has dropped to a minimum intake of water, you should consider to replace your Dia-Cool.



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