

## Preconditioning Instruction va-Q-lite for +5°C shipments

For 00G & +05G / +05G bio

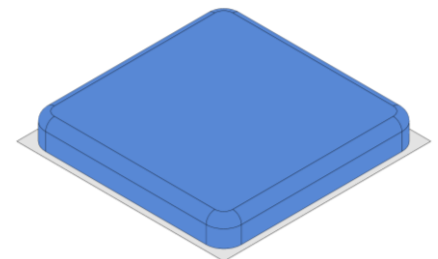
The ability to stabilize the temperature inside va-Q-tec's high-performance insulating container/parcel shipper for a qualified duration is caused by va-Q-tec's unique temperature batteries. Depending on customer requirements, temperature batteries are available with different Phase Change Materials (PCM) in individual colors. For a temperature-controlled shipment, a proper preconditioning process of the temperature batteries is mandatory. This instruction document describes each step of the preconditioning process for **va-Q-gel / va-Q-pad 00G and va-Q-gel +05G / +05G bio**. The following preconditioning instruction is only valid for the temperature batteries: **va-Q-gel / va-Q-pad 00G and va-Q-gel +05G / +05G bio** in combination with **va-Q-lite for +5°C shipments**.



1: va-Q-pad 37364 00G EL



2: va-Q-gel 48 00G





3: va-Q-gel +05G

### Step I

Before use, check the temperature batteries for damages such as leakages. Do not use damaged temperature batteries! A detailed check after every use is recommended.

### Step II

Store the temperature batteries at a temperature as defined in the table below:

PCM	Color Code	Method	Duration	Average Preconditioning Temperature	Tolerance
00G <sup>1</sup>		① Freeze	≥ 24 hrs	≤ -18°C	Max.: -30°C
		② Thaw	2 – 3 hrs	+3.0°C	± 0.5°C
+05G eq. +05G bio		Const.	≥ 72 hrs	+3.0°C	± 0.5°C

<sup>1</sup> For 00G a freeze and thaw method is necessary to reach a suitable temperature before loading the va-Q-gel 00G into the container/parcel shipper.

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**Note:**

It is necessary to secure proper airflow around the temperature batteries during the preconditioning process. A space of at least 1.5cm (0.6") between each temperature battery is mandatory. Optionally, va-Q-tec's preconditioning spacer can be used to ensure the airflow between the temperature batteries to achieve the best preconditioning results. The preconditioning spacer is available for purchase if required. Horizontal storage for preconditioning is necessary.



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**Step III**

Remove the temperature batteries from the preconditioning device.

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**Step IV**

Load the temperature batteries into the container/parcel shipper as per the respective loading instruction.

Prior to a shipment with the preconditioned temperature batteries, it is suggested that the user performs a validation process with the equipment available and under the conditions available. A test in worst case conditions is recommended. The temperature batteries can buffer energy and keep the temperature stable. Requests can be addressed to our service team: [TempChainInfo@va-q-tec.com](mailto:TempChainInfo@va-q-tec.com)