Envirotainer
Precision with Purpose

Drawing of OneBlok 00G EL (left) va-Q-gel 48 00G (middle) va-Q-gel +05G (right).

TEMPERATURE BATTERIES WITH 00G OR 00G EL & +05G OR +05G BIO PCM

The ability to stabilize the temperature inside Envirotainer´s high-performance insulating container/parcel shipper for a qualified duration is caused by Envirotainer´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 00G / OneBlok 00G EL and va-Q-gel +05G / +05G bio**. The following preconditioning instruction is only valid for the temperature batteries: **va-Q-gel 00G / OneBlok 00G EL and va-Q-gel +05G / +05G bio** in combination with **OnePak Lite for +5°C shipments.**

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Step 1

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 2

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

COLOR CODE AND PRECONDITION TEMPERATURES FOR DIFFERENT PCM CONFIGURATIONS

PCM	Color Code PCM	Method	Duration	Average Precondition Temperature	Tolerance
00G eq. 00G EL [1)]		*1. Freeze*	≥ 24 hrs	≤ -18 °C	Max.: -30 °C
		2. Thaw	2-3 hrs	+ 3 °C	± 0.5°C
+05G eq. +05G bio		Const.	≥ 72 hrs	+ 3 °C	± 0.5°C

[1)] For For 00G a freeze and thaw method is necessary to reach a suitable temperature before loading the va-Q-gel 00G / OneBlok 00G EL into the container/parcel shipper.

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, Envirotainer’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.

Step 3

Remove the temperature batteries from the preconditioning device.

Step 4

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.

For more information please contact support@envirotainer.com

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