



## **Additional tests for multi temperature equipment not equipped with heating system**

For the independent and for the non-independent equipment, in the Technical reference document (CER-72-011-P on January 2017, annexes 8 and 10), it is mentioned that within the frame of the ATP certificates renewal procedure for 6 and 9 year old equipment, additional tests shall be run after the pull down tests (independent appliance) or temperature maintain (non-independent appliance).

The additional tests are performed by changing successively the compartments set points according to the following tables. A valid temperature control of the compartments set to 0°C must be noticed (from the first sensor reaching the set point) during at least 10 minutes, with a tolerance of plus or minus 3°C around the set point. The temperature rise is performed door closed by means of the unit.

- Set points for two compartments:

<b>Compartment 1</b>	<b>Compartment 2</b>
-20°C	0°C
0°C	-20°C

- Set points for three compartments:

<b>Compartment 1</b>	<b>Compartment 2</b>	<b>Compartment 3</b>
0°C	-20°C	0°C
-20°C	0°C	-20°C

For equipment non equipped with heating system, even if the Reference document does not impose a time limit for the performance of the additional tests, it is not always technically possible to reach the desired set points.

For these cases, it is allowed for the test center to open the vehicle doors in order to perform the additional tests. In these cases, the test center shall apply for the renewal of the certificate restricted for domestic use only, which will be the only one to be issued.