

Good news, our new 3m³ and 8m³ climate chambers have been officially put into use from 18th Sep. 2017, which means that ITTC now can perform VOC tests of a very large product, such as a 3-seat sofa. With the existing 5m³, 1m³, 500L, 250L and 25L climate chamber, ITTC have seven different size of chambers, greatly enriched the types of test products. ITTC is purchasing 100L climate chamber, will soon be put into use.

We have already discussed how to pack the samples and how to choose the suitable chamber. Today, let's talk about what kind of the sample can be tested in 3m³ and 8m³ climate chamber?

Mr. Zhang, one of IKEA supplier, was very pleased to hear the news, he immediately called the customer service for consult. Let's see what questions he asked and how ITTC replied?

Mr. Zhang: what is the size of these two climate chambers?

ITTC: 3m³ climate chamber is a H:W:D of about 1.2m×1.5m×1.6m rectangular box. 8m³ climate chamber is a H:W:D of 1.8m×1.8m×2.5m rectangular box.

Mr. Zhang: Can I apply VOC test in this chamber for the product which has a size smaller than the H:W:D of the climate chamber?

ITTC: The answer is definitely not possible, it depends on the surface area of the products. For 3m³ chamber, the surface area of the product between 1.5m² ~ 4m² is recommended, for 8m³ chamber, the surface area of the product between 6m²~12m² is recommended.

Mr. Zhang: If my product surface is fulfill above description of the requirements, is that means it can be put into corresponding climate chamber to perform VOC test?

ITTC: The answer is not necessarily. The structure of the climate chamber also restricts the size of the product. Each climate chamber has a door that can be opened to put the sample into the chamber, to ensure the testing accuracy, each climate chamber must be kept in an airtight and constant positive pressure status during the test. In order to ensure airtightness and test accuracy, the larger chamber can't have a larger door, which will reduce the airtightness of it. Therefore, the product size less than 1.4m×1.1m×1.1m can be tested in 3m³ chamber, and the product size less than 2.5m×1.1m×1.6m can be tested in 8m³ chamber.

Mr. Zhang: if my product surface area is 4m², and the size can be put into 3m³ chamber, but also into 5m³ chamber, which size chamber should I book?

ITTC: Usually for a 4m²-surface area product, we will consider to use 5m³ chamber to test. If 5m³ chamber has a very long q-line, 3m³ chamber will be used. Equally, for a 7m² -surface area product, we will preferentially to perform the test in 8m³ chamber.

Mr. Zhang: For a product can be performed in both 3m³ and 5m³ chamber, if I choose 5m³ chamber to perform VOC test, will the test fee be higher?

ITTC: Don't worry, it won't. For 3m³, 5m³ and 8m³ chamber, VOC test fee is same, and for the chamber less than 3m³ chamber, VOC test fee is same.

Mr. Zhang: I heard mattress can be cut into small part to perform VOC test, is it true?

ITTC: Yes. ITTC has the same rules with WKI if the mattress is made by homogeneous materials, lab can cut part of the mattress to perform the test. If the mattress contains wood frame or spring, which is difficult to cut, the mattress can't be tested in small pieces. Mattress can be cut part to test VOC doesn't means it is necessary to cut every mattress to test, so ITTC won't cut every mattress into small size to test, it's depend on customer request. If we have suitable size chamber, we still recommend test full size mattress. Customer also can prepare small size mattress sample directly then send to ITTC perform VOC test. We recommend small mattress size around 0.7m×0.6m, but this is not fixed.

Mr. Zhang: I am clear now. Can I deliver my sample to ITTC directly after I fill test application form on the website?

ITTC: we suggest you contact customer service before applying for the VOC test. Please prepare the article number and sample size, if it is necessary to assemble the product, please provide the final product size, and send these information to ITTC CS to confirm. Then you can send samples to ITTC.

Mr. Zhang: thank you very much.

ITTC: if you have any questions, please feel free to contact us. The following is our customer service contact information.

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Summary of chamber size for different sample:

Chamber	8m ³	5m ³ -1	5m ³ -2	3m ³	1m ³	500L	250L	25L
Suitable sample size H(m)*W(m)*D(m)	2.5×1.1 ×1.6	1.8*0.8 * 1.5	1.4*1.1* 2.1	1.4×1.1 ×1.1	0.75*0. 75*1.5	0.7*0.7* 0.6	0.55*0. 55*0.55	0.25*0.2 5*0.15
Suitable surface area(m ²)	6~12	2.5~8	2.5~8	1.5~4.0	0.7~1.5	0.3~0.8	0.13~0. 4	0.013~0 .04