

# BRANCHIA



## Vacuum manifold

*Please read the User Manual carefully before use,  
and follow all operating and safety instructions!*

user manual

english

# User Manual



## Vacuum manifold

### **Preface**

Users should read this Manual carefully, follow the instructions and procedures, and beware of all the cautions when using this instrument.

### **Service**

If help is needed, you can always contact your dealer or Labbox via [www.labbox.com](http://www.labbox.com) (declare an incidence)

Please, provide the customer service representative with the following information:

- Serial number (on the back side)
- Description of the problem
- Your contact information

### **Warranty**

This instrument is guaranteed to be free from defects in materials and workmanship under normal use and service, for a period of 24 months from the date of invoice. The warranty is extended only to the original purchaser. It shall not apply to any product or parts which have been damaged on account of improper installation, improper connections, misuse, accident or abnormal conditions of operation.

For claim under the warranty, please contact your supplier.

## 1. Safety instructions



### Warning!

- Read the operating instructions carefully before use.
- Ensure that only trained staff works with the instrument.

- Do not operate this instrument in any manner not described in this user manual.
- It is recommended on the first use to press the cover plate so that the pressure rises to the desired value rapidly
- If you need to open the lid while using the manifold, please ensure that the vacuum pressure gets released before.
- The precautions described in this user manual are carefully developed in an attempt to cover all the possible risks. However, it is also important that you are alert for unexpected incidents.

## 2. Intended use

This manifold has been designed for the solid phase extraction process. Is capable to separate, concentrate and enrich the target compound with the use of absorbents and vacuum process. Reducing the sample matrix interference and improving the detection sensitivity. It is applied to food safety testing, agricultural residue monitoring, medical health, environmental protection, commodity inspections, water and chemical production processes.

- The manifold is made of transparent glass with a high corrosion resistance
- The vacuum chamber can tolerate more than -96kPa high vacuum without suffering deformations on long term uses
- Uniform pressure throughout, air tightness and stability
- Extraction speed consistency, easy adjusting control
- Multi-channel can be controlled independently
- Internal test tube rack is made of PTFE which has a high corrosion resistance
- The joints can bear high corrosion resistance also.

### 3. Inspection

#### 3.1 Reception inspection

Unpack the equipment carefully and check for any damages which may have arisen during transport. Please contact your supplier for technical support.



**Note:**

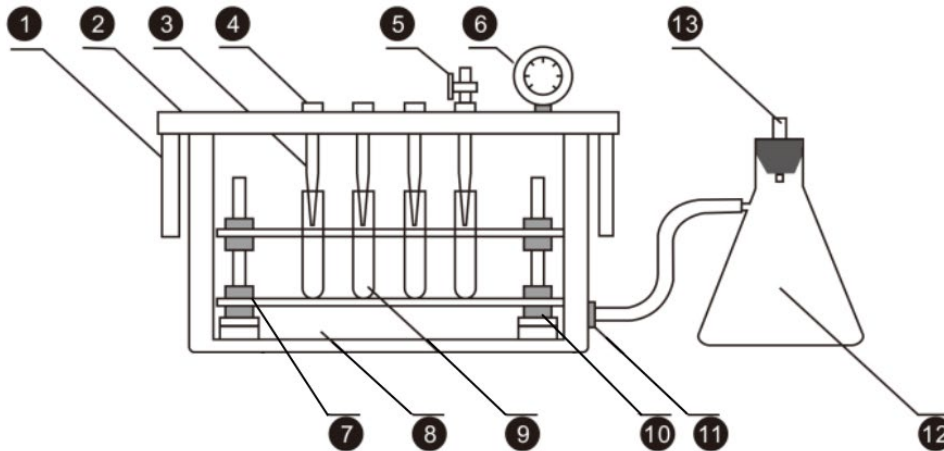
If there is any apparent damage to the system, contact your dealer

#### 3.2 List of items

The package includes the following items:

Items	Qty
Glass chamber with vacuum gauge	1
Regulating valves	12
Screwed cover holders	4
Cover plate	1
Collection rack	1
Drainage catheters	12
User Manual	1

## 4. Operation



- |                          |  |
|--------------------------|--|
| 1. Screwed cover holders | 8. Vacuum chamber                              |
| 2. Cover plate           | 9. Tube  |
| 3. Drainage catheters    | 10. Tube frame stoppers                        |
| 4. Catheter ports        | 11. Suction nozzle                             |
| 5. Regulating valve      | 12. Filtration bottle(optional, not included)* |
| 6. Vacuum gauge          | 13. Connection nozzle to vacuum                |
| 7. Tube rack             |  |

\*You can add our references FFK3-1K0-001 + ADS3-002-001 as element n°12

- Place the tube rack (7) into the vacuum chamber (8), adjust the distance by lifting the tube frame stoppers (10) up and down to match different tube sizes. Place the tubes (9) into the tube rack (7).
- Twist the screwed cover holders (1) into the four screw holes of the cover plate (2).
- Insert tightly the drainage catheters (3) into the catheters ports (4) and ensure that the sealing mat of the cover plate is neatly placed, and lays it on the vacuum chamber (8).
- Insert the regulating valves (5) into the drainage catheters (4) tightly, ensuring the good sealing performance. Flow rate can be adjusted freely.
- Then connect the exhaust nozzle (13) to the vacuum chamber, the pressure gauge should show the vacuity level

## 5. Maintenance and Cleaning

It is necessary to clean up the chamber, transition bottle and its connector after using to avoid contaminating the samples.

