



## INSTALLATION REPORT AND CHECKLIST *RAPPORT ET CHECK-LIST D'INSTALLATION*

<b>For / Pour</b>	Choose an item.
<b>Distributor / Distributeur</b>	
Coordinates <i>Coordonnées</i>	
Maintenance engineer <i>Ingénieur de maintenance</i>	
<b>Institution / Laboratoire</b>	
Coordinates <i>Coordonnées</i>	
Lab manager <i>Responsable de laboratoire</i>	
<b>Installation report / Rapport d'installation</b>	
Serial number <i>Numéro de série</i>	
Delivery date <i>Date de livraison</i>	
Installation date <i>Date d'installation</i>	
Content packing list verified <i>Contenu liste d'emballage vérifié</i>	<input type="checkbox"/> Yes / Oui <input type="checkbox"/> No / Non
Installation checklist completed (see page 2) <i>Check-list d'installation complétée (voir page 2)</i>	<input type="checkbox"/> Yes / Oui <input type="checkbox"/> No / Non
Warranty activated (see page 2) <i>Garantie activé (voir page 2)</i>	<input type="checkbox"/> Yes / Oui <input type="checkbox"/> No / Non

The installation report of the laboratory equipment is approved and signed by:  
*Le rapport d'installation de l'équipement de laboratoire est approuvé et signé par:*

**Laboratory manager**  
*Responsable de laboratoire*

**Maintenance engineer**  
*Ingénieur de maintenance*

First and last name:  
*Nom et prénom:* \_\_\_\_\_

Date: \_\_\_\_\_

Signature: \_\_\_\_\_







<b>Checklist for installation (detailed instructions in user manual)</b> <i>Check-list d'installation (instructions détaillées dans le manuel d'utilisation)</i>	
<input type="checkbox"/>	Verify the location specifications (chapter 2.3) <i>Vérifier les spécifications de l'emplacement (chapitre 2.3)</i>
<input type="checkbox"/>	Check the electrical requirements (chapter 2.4) <i>Contrôler les exigences électroniques (chapitre 2.4)</i>
<input type="checkbox"/>	Perform an auto tuning (chapter 2.5) <i>Effectuer un autoréglage (chapitre 2.5)</i>
<input type="checkbox"/>	Give extensive information on daily use and maintenance to the user (chapter 3 and 6) <i>Fournir l'utilisateur d'informations détaillées sur l'utilisation et la maintenance (chapitre 3 et 6)</i>
<input type="checkbox"/>	Register the instrument to activate its warranty <i>Enregistrer l'instrument pour activer sa garantie</i>

**Warranty activation:**



Link: <https://diagnostics.be/warranty>

**Activation de la garantie:**



Lien: <https://diagnostics.be/fr/garantie>

This form is a compulsory requirement for ISO certification, laboratory accreditation, good laboratory practices and the legal requirements in many countries. Fill it out and be future ready.

*Ce formulaire est une exigence requise pour la certification ISO, l'accréditation des laboratoires, les bonnes pratiques de laboratoire et les exigences légales dans de nombreux pays. Remplissez-le et soyez prêt pour l'avenir.*

P.S. Keep a copy

*P.S. Gardez une copie*







# Mini Vortex Mixer

---

CYANLab CL016

---

## User Manual

Register now at: <https://diagnostics.be/warranty>

CE





# INDEX

1.	INTRODUCTION .....	2
1.1.	INTENDED USE .....	2
1.2.	SYSTEM DESCRIPTION.....	2
1.3.	TECHNICAL AND OPERATIVE SPECIFICATIONS .....	3
1.4.	LIMITATIONS OF USE .....	3
2.	INSTALLATION .....	4
2.1.	TRANSPORT AND STORAGE .....	4
2.2.	UNPACKING.....	4
2.3.	LOCATIONS SPECIFICATIONS .....	4
2.4.	ELECTRICITY REQUIREMENTS.....	4
2.4.1.	FUSES .....	5
2.4.2.	CIRCUIT DIAGRAM .....	5
2.5.	AUTOTUNING.....	5
3.	INSTRUCTIONS FOR USE .....	6
4.	RECOMMENDATIONS.....	6
5.	SAFETY INFORMATION .....	6
6.	MAINTENANCE .....	7
7.	TROUBLESHOOTING GUIDE.....	7
	SPARE PARTS	



## 1. INTRODUCTION

If the installation, usage and maintenance directions, given in this manual, are not followed correctly and/or safety indications are not respected, Cypress Diagnostics cannot guarantee correct functioning of the instrument. Misuse can compromise the safety of the operator and his surroundings and will void the warranty. Consumables are not included in the warranty.

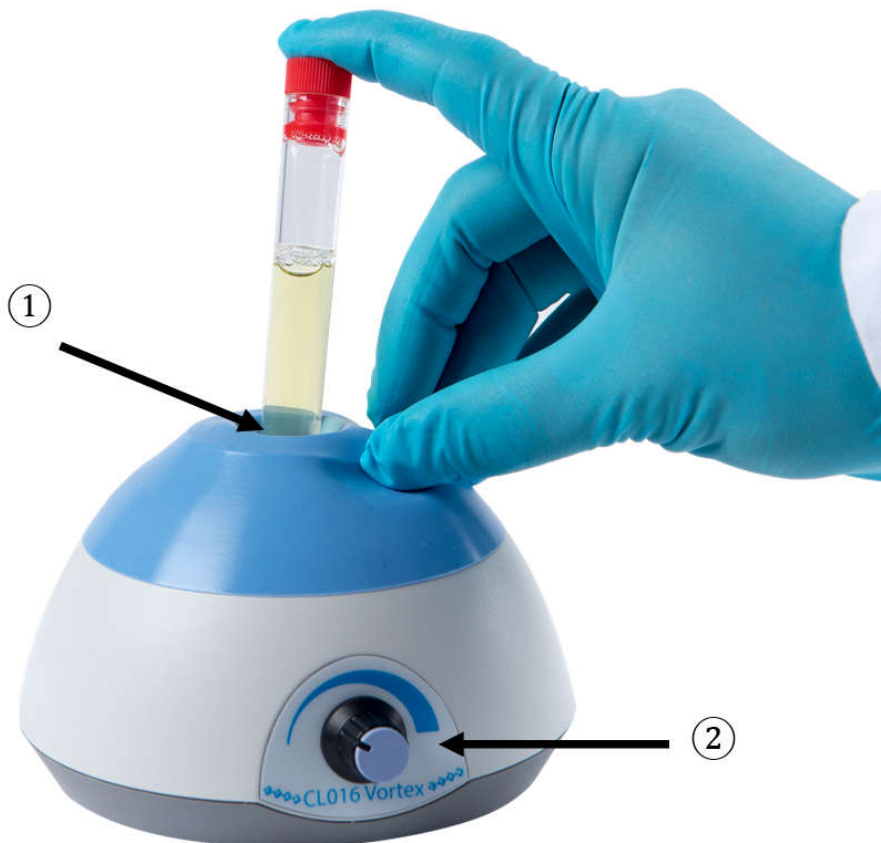


**WARNING!** Please read the user manual before operating the instrument and make sure the installation is performed correctly.

### 1.1. INTENDED USE

The CYANLab Mini Vortex mixer is suitable for mixing the content of specimen tubes in the laboratory. It provides a powerful and quiet vortex mixing with variable speed control and automatic start when pressed.

### 1.2. SYSTEM DESCRIPTION



- ① Mixing head
- ② Speed control





### 1.3. TECHNICAL AND OPERATIVE SPECIFICATIONS

CYANLab Mini Vortex mixer		
Voltage	110 – 240 V and 50 / 60 Hz 110V -60Hz	
Power consumption	12 W	
Dimensions		
	Mini Vortex mixer	Packed Mini Vortex mixer
L x W x H (cm)	11,3 x 8,1 x 5,5	20 x 14 x 9
Weight (kg)	0,63	0,76
Required space		
cm around	30	
Operational and technical specifications		
Max. speed	3200 RPM	
Speed control	Rotary knob	
Orbit	4,5 mm	
Max. tube diameter	21 mm	
Max. volume	50 ml	
Max. load	60 g	
Head cup diameter	21 mm	

### 1.4. LIMITATIONS OF USE

After turning on the instrument, pay attention not to spill liquids on the surface around the instrument.



## 2. INSTALLATION

### 2.1. TRANSPORT AND STORAGE

The packing has been expressly studied and designed to insure maximum protection of the contents during shipping and handling. It is therefore extremely important that the box is carefully examined upon delivery in order to assure the integrity. All visible external damage must be noted on the delivery note. Please make photos of the damage. This will simplify matters in the event of any future claims for damages.

**NOTE:** Once the carrier has taken possession of the system for transportation from the factory, the carrier takes total responsibility until delivery. All claims for damage due to transportation must be filed against the carrier as soon as these damages are noticed. The carton box should be stored in an environment with a temperature range of 5 – 50°C, relative humidity not more than 80%, well ventilated and indoors. Storage should be away from toxic, harmful and corrosive substances.

### 2.2. UNPACKING

When you receive the CYANLab Mini Vortex mixer, open the shipping box and take out the instrument.

1. Make sure the SN (on the back label) is in accordance with the delivery note
2. Check the content based on the following packing list:
  - CYANLab Mini Vortex mixer
  - Power cord
  - User manual

### 2.3. LOCATIONS SPECIFICATIONS

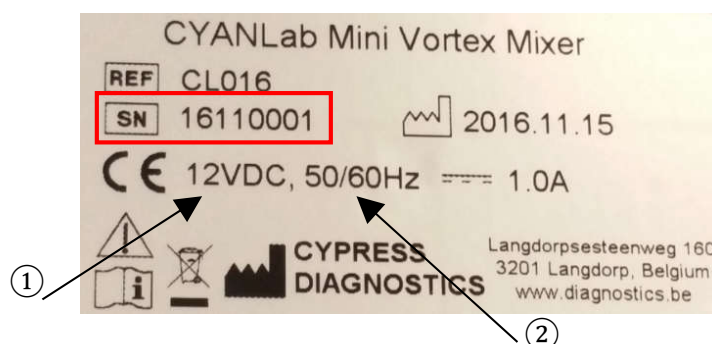
Please take note of the following conditions required for the location of the installation:

- Clean, dust-free environment.
- Placed on a stable, horizontal surface
- Place the instrument away from the edge to avoid falling off the bench top during vortex mixing.

### 2.4. ELECTRICITY REQUIREMENTS

The power voltages suited for this type of instrument are indicated on the back label (grey). It needs to be connected to a power supply with the voltage and frequency indicated on the label.

- ① Voltage
- ② Frequency





### 3. INSTRUCTIONS FOR USE

1. Connect the power supply
2. Turn the speed control button to the required speed.
3. Take a tube to be mixed and press downward against the mixing head to activate the mixing action.
4. When finished mixing, lift the tube upward. The vortex mixer will stop.

### 4. RECOMMENDATIONS

1. Do not press more than one specimen tube on the vortex mixer. Vortex samples one by one, this will guarantee homogenous mixing of the sample at the desired speed.
2. If sample is spilled on the instrument, stop vortexing and immediately wipe up the spillage to avoid fluid contact with internal components.
3. There are no serviceable parts in this instrument. Contact your distributor in case repair should be necessary.

### 5. SAFETY INFORMATION

The following hazard warnings are provided to help avoid injury:



**Warning! Power Rating.** The instrument's power cord must be connected to a power receptacle that provides voltage and current within the specified rating for the system. The use of an incompatible power receptacle may produce electrical shock and fire hazards.

**Warning! Liquids.** Avoid spilling liquids on the instrument; fluid seepage into internal components creates a potential for shock hazard or instrument damage. If a spill occurs while a program is running, abort the program and turn the instrument off. Wipe up all spills immediately. Do not operate the instrument if internal components have been exposed to the fluid.

**Warning! Unspecified Use.** Failure to operate this equipment according to the guidelines and safeguards specified in this manual could result in a hazardous condition.

The following precautions are provided to help avoid damage to the instrument:



**Caution: Spare Parts.** Only approved spare parts should be used. The use of unapproved spare parts may result in a loss of warranty and potentially impair instrument performance or cause damage to the instrument.

**Caution: Disposal.** This instrument contains wiring with lead solder. Dispose of the instrument according to Directive 2002/96/EC, "on waste electrical and electronic equipment (WEEE)" or local ordinances.

**Caution: Warranty.** Failure to follow preventive maintenance protocols may void the warranty.



## 6. MAINTENANCE

The CYANLab Mini Vortex Mixer does not require periodic maintenance or adjusting. The instrument is almost maintenance-free.

Regular cleaning is a very important procedure to both prevent and solve problems.

Dust can cause a lot of problems inside the vortex mixer. To avoid this, Cypress Diagnostics recommend to clean the outside of the vortex mixer with 6% Esfenol solution (60 ml in 1L of distilled water) at least once a week.

## 7. TROUBLESHOOTING GUIDE


**Caution: Always disconnect the power cord before troubleshooting!**

Problem	Cause	Solution
Instrument inoperative	Power cord not connected to outlet.	Plug instrument in.
	Dead power output.	Change to different output.
	Defective electronic component.	Contact your distributor for repair.
Mixing head doesn't rotate	Motor is broken.	Contact your distributor for repair.
	PC board is broken.	Contact your distributor for repair.
Speed cannot be controlled	Variable resistance is broken	Contact your distributor for repair.
	PC board is broken.	Contact your distributor for repair.





### CYAN Lab Instrumentation SPARE PARTS

Item Code	Item name	Photo	Comments	Consumable for one year*	Suggested stock: 10 sold instruments
<b>Mini Vortex Mixer</b>					
TR	Mini Vortex Mixer - Repair kit			N	
CL016-S01	Power adaptor		110-240VAC, 50/60 Hz	N	1

Register now at: <https://diagnostics.be/warranty>



CE



CL016  
English

## CL016 Mini Vortex

Suitable for mixing the contents of specimen tubes in the laboratory.  
The instrument operates automatically upon pressing on the head of the vortex (press start function).

Choose **CYAN CL016** and get the following advantages:

- Automatic press start function
- Variable speed control
- Compact, robust, and durable
- Vibration free
- Fast
- Quiet
- High-quality motor for perfect performance

### Technical data:

- Silicon cup head
- Orbit of 4,5 mm
- Max. speed: 3200 rpm
- Max. volume: 50 mL
- Max. weight: 60 g
- Head cup dimensions: 3,9 cm (Ø)
- Overall dimensions: 5,5 x 11,3 x 8,1 cm (W x D x H)
- Gross weight: 0,90 kg
- Power supply: 110/220 V - 50/60 Hz

### Order code:

- CL016: **Mini Vortex** (110/220 V - 50/60 Hz)

# Mini Vortex



Contact: e-mail: [cypress@diagnostics.be](mailto:cypress@diagnostics.be)  
tel: + 32 (0)15 67 67 68  
Nijverheidsstraat 8  
2235 Hulshout  
Belgium  
URL: [www.diagnostics.be](http://www.diagnostics.be)

Your Distributor

Mini Vortex EN 2021-09