

# CAPP®

D E N M A R K

**CRV-45X**



**USER MANUAL**

## 10. PRODUCT DISPOSAL

In case the product is to be disposed of, the relevant legal regulations are to be observed.

### **Information on the disposal of electrical and electronic devices in the European Community**

The disposal of electrical devices is regulated within the European Community by national regulations based on EU Directive 2012/19/EU on waste electrical and electronic equipment (WEEE). According to these regulations, any devices supplied after 13.06.05 in the business to business sphere, to which this product is assigned, may no longer be disposed off in municipal or domestic waste. They are marked with the following symbol to indicate this.



As disposal regulations within the EU may vary from country to country, please contact your supplier if necessary.





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## 1. INTRODUCTION

Congratulation! You are using simple and compact Mini Vortexer. It comes with a powerful brushless DC motor and delivers speed upto 4500 rpm. With an orbital motion to 4.5 mm it provides thorough mixing and it can accommodate plastic tubes & vials up to 30 mm diameter.

## 2. INTENDED USE

It is used in Laboratories for general mixing applications in individual test tubes for up to 30 mm diameter.

## 3. FEATURES

- Touch Operation – can handle plastic tubes of upto 30 mm dia
- Extremely small footprint
- 4.5mm orbital motion
- Suction cups for proper grip
- Die cast base for stable operation
- Low voltage power supply
- Suspension design for longer switch life
- Variable speed for gentle to vigorous mixing

## 4. STANDARD PART LISTING



## 5. SAFETY PRECAUTIONS

Read the following safety instruction before using the Mini Vortexer for your as well as equipment safety.

1. Gentle take the Mini Vortexer out of the packaging box and place it on a flat, stable, clean, non - slippery surface.
2. Do not lift or hold the device from the cable.
3. The Mini Vortexer must be used to mix material that the user knows will not react dangerously to extra energy produce by mixing.
4. Mini Vortexer should be used for the specified application only. It must not be operated in a hazardous or flammable environment and must not be used to mix explosive or highly reactive material.
5. Overfilling of liquid may cause the medium to splash out. You should therefore always use covered test tubes.
6. Cautions! The equipment will restart, both in case of mains interruption and in case of any fault or mechanical interruption. Care should be taken based on sample used for mixing.
7. Always use tubes upto 30 mm diameter for best result and product safety.

## 6. OPERATION



Operation starts automatically when the soft rubber cup is press down using test tube (as shown in image) and stops once test tube is removed. In variable Mini Vortexer, rotate the speed knob to increase or decrease the speed between 2500 to 4500 RPM. Rotate clockwise to increase speed and anti-clockwise to decrease speed.



## 7. TECHNICAL SPECIFICATION

|  |                         |
|--|-------------------------|
| Type of movement                                   | Orbital                 |
| Shaker diameter                                    | 4.5 mm                  |
| Tube diameter                                      | Upto 30 mm              |
| Permissible shaking weight<br>(Include attachment) | 100 g                   |
| Maximum Speed                                      | 4500 RPM                |
| Variable Speed                                     | Yes                     |
| Speed Accuracy                                     | $\pm 5 \%$              |
| Operation Type                                     | Touch                   |
| Dimensions (L x H x D)                             | 116 x 121 x 76 mm       |
| Weight   | 0.8 Kg                  |
| Noise Level  | <50 dB                  |
| Permissible ambient temperature                    | 5 - 40 °C               |
| Protection class according<br>to DIN EN 60529      | IP 43                   |
| Permissible relative moisture                      | <80%                    |
| Air Pressure                                       | 80 to 106 kPa           |
| Input Voltage                                      | 100 - 240 V, 50 / 60 Hz |
| Output Voltage                                     | 9 V, 1.5A               |
| Power Consumption                                  | 13.5 W                  |
| Rated input of adaptor                             | 0.3A                    |

## 8. MAINTENANCE & CLEANING

1. The whole unit should be cleaned regularly with a moist cloth.
2. Ensure that while cleaning the unit is not plugged in.
3. Always keep the Mini Vortexer clean. Whole unit should be wiped down periodically with a soft cloth. Excessive amount of liquid should be avoided. Liquid should not come in contact with the motor.
4. After cleaning, ensure that all parts are dried.
5. Do not use the unit if it shows the sign of Mechanical or electrical damage. Do not use the equipment if the rubber cup or suction cup are damaged. In such case, contact authorized service personnel.
6. The brushless motor in the Mini Vortexer does not require no routine maintenance. Any required service should be performed by authorized, qualified personnel only.

## 9. WARRANTY STATEMENT

This products is warranted to be free from defects in material and workmanship for a period of two (2) years from date of purchase. Your product will be duly repaired upon prompt notification in compliance with the following conditions :

This warranty is valid only if the product is used for its intended purpose and within the guidelines specified in this instruction manual. This warranty does not cover damage caused by accident, neglect, misuse, improper service, natural forces or other causes not arising from defects in original material or workmanship. This warranty does not cover any incidental or consequential damages, commercial loss or any other damages from the use of this product.

The warranty is invalidated by any non-factory modification, which will immediately terminate all liabilities on us for the products or damages caused by its use. The buyer and its customer shall be responsible for the product or use of products as well as any supervision required for safety. If requested the products must be returned to the distributor in well packed and insured manner and all shipping charges must be paid.

Some states do not allow limitation on the length of implied warranties or the exclusion or limitation of incidental or consequential damages. This warranty gives you specific legal rights. This warranty is given expressly in lieu of all other warranties, expressed or implied.

## 9. WARRANTY STATEMENT

The purchaser agrees that there is no warranty of merchantability or of fitness for any intended purpose and that there are no other remedies or warranties, expressed or implied, which extend beyond the description on the face of the agreement. This warranty is only applicable to the original purchaser.

Products received without proper authorization will not be entertained. All items returned for service should be sent postage prepaid in the original packaging or other suitable carton, padded to avoid damage. We will not be responsible for damage incurred by improper packaging.

All items returned for service should be set postage prepaid in the original packaging or other suitable carton, added to avoid damage.

This warranty is valid only if the warranty is registered with the supplier within 30 days from the date of purchase.