



**KOUSHA FAN  
PARS**

Engineering and Manufacturing

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## **In the name of God**

### **Dear customer**

We thank you for your selectivity and trust in purchasing domestically produced products, and we are pleased that after continuous efforts, we have been able to manufacture Plaster Silo device in Iran and put it at your disposal.

This product has been designed by our technical and engineering team of experienced and committed people in the fields of mechanical, electronics and computer engineering, and by utilizing updated technology and building upon on ۲۰ years of experience in manufacturing dental equipment, this product has reached production of export index quality.

In designing the product, three principles of accuracy, reliability and safety performance and also being easy to use have been considered, so in order to correctly and completely utilize product features, we ask you to read the instruction manual carefully and if you have any questions or you need more information, contact the after sales unit.

Instruction manual is a comprehensive reference for efficient and safe use of the product. Following the instructions of this manual has a great role in reducing consumable costs, avoiding risks and ultimately increasing product life. Instruction manual should always be kept near the product and the user should periodically read it.

Please impart us with your constructive guidance, so that we can benefit from your comments, recommendations, and gain knowledge about your needs.

**With the hope of enticing your satisfaction,**

**Kousha Fan Pars Engineering and Manufacturing**

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## **Section ۱: Maintenance**

### **(۱-۱) How to use the manual**

**This manual presents the instructions about use, installation and maintenance of Plaster Silo made by Kousha Fan Pars Co. It should be noted that:**

- **The product should be used according to the instructions of this manual. Thus, all parts of it should be read carefully before starting and installing the tool. Special attention should be paid to the highlighted parts. (refer to section ۲-۱).**
- **Observing the instructions of manual assures the health and safe operation of the tool.**
- **Manual is an integral part of the product. Thus, it should always come with the product and should be used optimally as a reference for use during the operation of product. It should be available even during sale of the product, or even when it is not used.**
- **In case of losing or damaging the manual, get a replacement one from the after-sales service department of Kousha Fan Pars Co.**

**The following are explained in detail in this manual:**

- **Installation and start-up of the product**
- **Operation details of the product and its parts**
- **Maintenance program**
- **Primary safety and preventive details**

## **(١-٢) Terminology and signs**

Knowledge of signs meanings is of great importance. A list of signs has been introduced in the following for initial recognition and reference to them if necessary.



**Danger!**

**Indicates compulsory warnings.**



**Warning!**

**Indicates functional recommendations.**



**Forbidden!**

**Indicates forbidden activities.**



**Caution!**

**Refers to user instructions of the tool.**

## Section ۲: General information

### (۲-۱) Company liabilities

Kousha Fan Co. is not liable for any problem involving the following: Failure to follow the instructions of this manual (incorrect use of product), repair by an unauthorized person and part replacement without coordination with after-sales service department, failure due to power fluctuations.

### (۲-۲) Guarantee

Guarantee of this product includes repairs, supply and replacement. If used appropriately, Kousha Fan Co, guarantee covers all main parts of the device for ۱ year.



#### **Following cases are not covered by guarantee:**

- **power fluctuations**
- **incorrect transportation of device**
- **inappropriate and frequent use of device despite having obvious flaws**
- **not observing the maintenance instructions**
- **installation by unauthorized persons**
- **any repair or replacement by unauthorized persons.**



**Commutation fees of company representatives to install or repair during guarantee period will be received from buyer at site.**



**The device can't be used before installation and insurance of correct operation of protective parts.**



**It is highly recommended that user has a general knowledge of this manual before using this device. The cases which appear to be operation flaws in the device should be registered by user and they should be sent to the after-sale service department .**

- **Authorized representatives of Kousha Fan pars Co.**

**These persons are endorsed by company to work on the device under any operational circumstances. They are also authorized to do any electrical and mechanical adjustment/repair, maintenance program and authorized parts replacement.**



## Section ٣: Device Introduction

### (٣-١) Main parts description

#### a) Anterior part of the device

- ١. Plaster protective door
- ٢. Plaster outlet lever

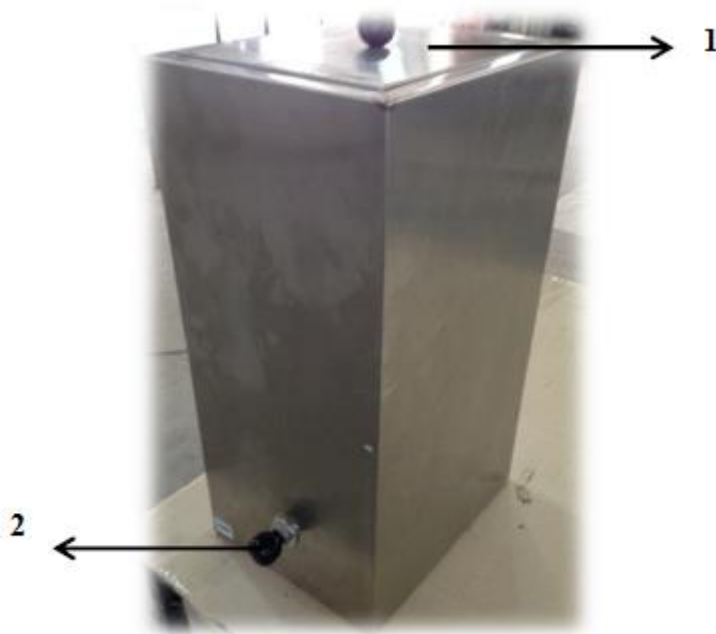


Fig 1- Plaster silo anterior view

#### b) Lower parts of the device:

- ١. Main electricity inlet jack
- ٢. Plaster outlet
- ٣. Plaster outlet speed adjustment gauge



**Fig2 - Plaster silo device view from below**

## Section ۴: Technical features

### (۴-۱) Technical features and operation rules of device

Kousha Fan Pars Co. products are manufactured based on the latest technologies and are of highest qualities. The most recent design and manufacturing methodologies are employed to increase lifetime and quality of products.

### (۴-۲) Technical details

Technical specifications of the Plaster Silo are given in Table ۱:

<b>Power supply</b>	<b>۲۱۰-۲۴۰V AC ۵۰/۶۰ Hz</b>
<b>Power</b>	<b>۱۰ W</b>
<b>Reservoir capacity</b>	<b>۲۲ Kg</b>
<b>Device height</b>	<b>۵۵ cm</b>
<b>Device width</b>	<b>۲۵ cm</b>
<b>Device depth</b>	<b>۳۱ cm</b>
<b>Net weight</b>	<b>۱۳ Kg</b>

Table ۱- The device technical specifications

### Accessories

<b>Part</b>	<b>Number</b>
<b>Device holder</b>	<b>۱</b>
<b>Electricity cable</b>	<b>۱</b>

Table ۲- A list of product accessories

## Section Δ: Transportation and installation

**In order to avoid accidents, it is really important to follow the following instructions during installation and fixing of equipment. All steps are explained in detail:**

### **(Ϸ-١) Unboxing**

**Having received the device, make sure that the main box is sealed and intact. Otherwise, inform the after-sales service department of Kousha Fan Co, or its authorized representatives.**

### **(Ϸ-٢) How to move the device**

**The device should be moved as follows:**

- ١. Unplug it from power source.**
- ٢. Empty the plaster reservoir.**
- ٣. The device should remain in vertical position during movement. For more safety and prevention of any injury due to neglecting the technical details, refer to the section ٤-٢.**
- ٤. Put the device in the designated box and if the box is not available, follow safety instructions for protection, because the company is not exposed to transportation risk and has no obligations towards it.**



**Failure to follow the aforementioned instructions results in device being damaged, and Kousha Fan Pars Co, won't be held liable.**

### **(٥-٣) environmental circumstances**

**It is important to choose an appropriate environment during installation and operation for personal safety, correct operation and long lifetime.**

**Workplace temperature:  $-4^{\circ}\text{C}$**

**Maximum humidity: ٧٥%**



**The device should not be used in a place where there is danger of explosion or firing**

**The light of place should be high enough so that all parts of device can be seen clearly.**



**The device should never be exposed directly to sunlight or humidity of rain, etc.**

**The following should be done before use of device:**

- ١. Fine blast has been designed to be put on a stable and firm worktable in parallel with ground. The stability of all parts of the worktable should be checked.**
- ٢. Plug the device into the outlet after input power and mains electricity are checked (device working voltage is based on AC ٢٢٠ electricity).**



**The grid single –phase electricity should match the power supply specifications of device.**

### **(٥-٤) device installation**

- ١. Get the device out of its box carefully. To do so, take out all the protective material (Plastofoams) around it, take out the steam cleaner, and put it on a flat and standard laboratory table such that the space within ٢٥ cm radius of device is empty. Make sure that the surface and legs of the table are not made of metal.**



**There is a danger of electrocution, if the surface or legs of table are made of metal and they are in contact with the ground. Thus, put your vacuum mixer on a wooden table or fiberglass.**

- ۲. Plaster Silo should not be exposed to sunlight directly.**
- ۳. An appropriate cord should be used to connect the device to its nearby power supply.**
- ۴. An electrical protector must be put on the way of socket by the user, so overload or indirect currents don't have contact with the protective parts of device.**



**It is recommended that the environment electronic system has an earth connection part.**

## Section ٩: Device application

### (٩-١) Device initiation

١. Make sure that all the protective parts are intact.
٢. To use this device, it is only necessary to plug the device to metropolitan electricity.



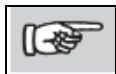
For safety reasons, before installing the plaster silo, refer to specification table.

٣. Plug the device.

### (٩-٢) Device full operation

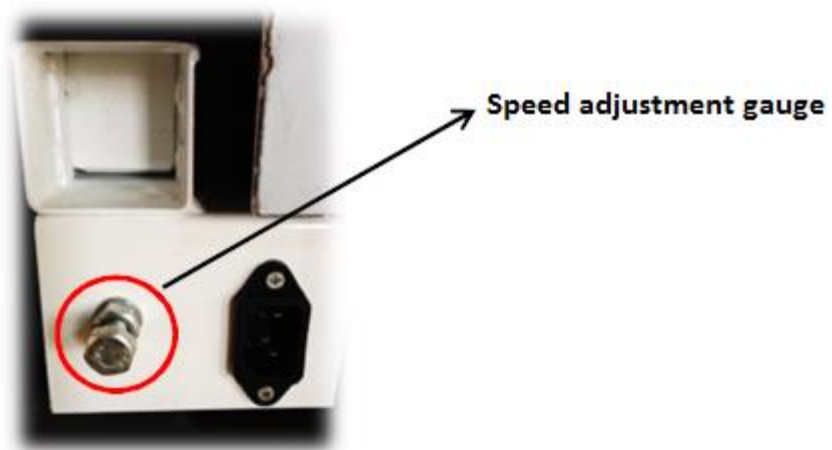
After installing the device by means of safe jack and levers, follow instructions.

- Plug the device to metropolitan electricity.
- Pull the lever (handle) in front of the device to the outside direction (user side).
- After filling the container in the special place, release the handle slowly.



If the device lever is stiff, contact the authorized service office.

The device has an outlet speed gauge and if you turn it clockwise the speed of plaster exit decreases and if it is turned counterclockwise, the speed increases.



**Fig 3- Plaster silo device view from below**



## Section V: Safety

### (V-1) general safety

Users are required to read and always follow the listed suggestions and warnings here; following these instructions will assure a long-term, flawless operation for product.

- Only authorized personnel from Kousha fan pars who have been trained to use this device may use it.



**Make sure that all parts of the device are installed correctly before using the device.**



**Never use a defected device.**



**You should never use the device if its accessories are defected, otherwise, the device operation will be affected, and it will no longer be covered by guarantee. Thus, make sure all parts are flawless before operation.**

- The place should be clean and well-lit and free of obstacles.
- If you see any flaws in the device operation, stop operating the device immediately, unplug it, and call the after-sales service department of Kousha Fan Pars Co and inform them about that.
- Never disassemble the electrical or pneumatic parts.
- Never replace the power supply or parts which are directly related to the plug.
- Operation of this device for applications other than those mentioned is forbidden.
- Make sure the device is disconnected from the main sockets before cleaning.

- **Never use benzene or combustible solutions for cleaning the device. Use noncorrosive, noncombustible and nontoxic materials.**

**(۷-۲) Device safety measures**

**Kousha Fan Pars Co. makes use of high-quality raw materials for advanced production processes to promote the safety level.**

**Quality control is performed in three stages of input, middle control, and final control through several control stations, a procedure which minimizes error and defect chances.**

## Section ٨: maintenance

### (٨-١) cleaning

Keep the device body clean using a dry cloth. Wet the cloth with little water or a non-greasy solution, if needed (only do this for body cleaning).

Users should make sure the device is kept clean and free of dust water and other unexpected solutions.

At the end of each operation and when the device is on OFF mode and stable, cleaning should be done.

If the user decides that the internal parts need cleaning, he/she should contact the after-sales service department.



**Put the main button on the off position before cleaning external parts of the device. It is forbidden to clean the device while it is plugged.**



**Never use combustible, corrosive, base or toxic solutions for cleaning the device.**

### (٨-٢) periodic maintenance

Inspection and periodic cleaning of the device depends on operation level. It is suggested for user to inform the company experts about the workflow through consultation after installation and learn the appropriate time for inspection and periodic cleaning from them. If user detects any damage or exhaustion during periodic inspections, he/she should

**contact the after-sales department, so that measures are taken for maintenance and compulsory service.**

**Periodic service should be determined by user and is performed by the after-sales service department. It is suggested that the maximum time interval for periodic repairs be 12 months.**

**If user detects any defects or problems on the device, he/she should place a warning sign on the device to indicate that it is being maintained and it should not be used (EC warning signs can be purchased at the associated stores).**

**Cleaning, periodic maintenance and appropriate use of the device are important factors in lifetime and safety of it.**



**When any defect is seen in the device operation, it is forbidden to use the device before solving that defect.**



**Safety and protective parts of the device should never be removed from the device unless for repair and maintenance purposes.**

**The other step is to periodically check the plaster reservoir.**



**Make sure that the plaster reservoir is dry before pouring plaster in it.**



**Inside the plaster reservoir must be free of any substance.**

**Thanks for your selectivity**

**Kousha Fan Pars Engineering and Manufacturing**

