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VACUUM SEED COUNTER (Cat No. 6832)

Instruction Manual



Manufacturer :

OSAW



An ISO 9001 :2008
Certified Company

GENERAL DESCRIPTION AND MANUAL FOR "VACUUM SEED COUNTER"

This manual contains general description, instructions for operation and maintenance of VACUUM SEED COUNTER.

The operational procedure for the VACUUM SEED COUNTER is very well explained in the steps. A careful perusal of the steps given in the manual will enable the user to operate the machine very easily.

SERVICE UPON RECEIPT:

Thoroughly check the machine for any damage or missing accessories on receiving the machine. The package should contain one vacuum seed counter along with one lead, one **hose pipe fitted with connectors on both head, Eleven acrylic heads & one needle (dresser).**

VACUUM SEED COUNTER

GENERAL DESCRIPTION:

QAQC VACUUM SEED COUNTERS are ideal for the seed testing and research laboratories; quick and accurate counting of seeds.

It is capable to count wheat, paddy, mustard, pearl millet, sorghum, black gram, green gram, lentil, red gram, finger millet, etc. The seeds stick on the holes of the head. The head is fitted to the handle of the hose. The head has 50/100 holes, on which seeds are sucked through vacuum. The seeds may be released from head after vacuum release.

Holes of different sizes of head are available, depending on the seed size, you may choose specific head. Thus, different sizes of seed can be counted. It has the facility to suck 50/100 seeds at a time and further used for germination potential of these seeds.

PRINCIPLE OF WORKING OF VACUUM SEED COUNTER:

There is a fan inside the vacuum seed counter that blows air. In order for a fan to blow air, it needs to draw air in. This is the air that sucks up the seeds and these seeds get stick on the holes of the head, up to the time the machine is ON. As soon as the machine is switched OFF, the seeds get removed from the holes of the head.



SPECIFICATIONS OF VACUUM SEED COUNTER:

Counting system	: Pneumatic sucking
Counting capability of head	: 50/100 seeds
Placing on petri dish	: Round head provided
Power supply	: 230±10v, 50hz, single phase power supply
Acrylic heads	: 50/100 holes
Number of heads	: 11 No.s

HEADS:

**1. RECTANGULAR HEAD
(140 x 140mm)**

Diameter : 1.2mm
Nos of Holes : 100

**2. RECTANGULAR HEAD
(116 x 116mm)**

Diameter : 1.2mm
Nos of Holes : 50

**3. RECTANGULAR HEAD
(140 x 140mm)**

Diameter : 2.0mm
Nos of Holes : 100

**4. RECTANGULAR HEAD
(116 x 116mm)**

Diameter : 2.0mm
Nos of Holes : 50

**5. RECTANGULAR HEAD
(140 x 140mm)**

Diameter : 0.5mm
Nos of Holes : 100

**6. RECTANGULAR HEAD
(116 x 116mm)**

Diameter : 0.5mm
Nos of Holes : 50

7. ROUND HEAD (90mm Dia)

Diameter : 1.2mm
Nos of Holes : 50

8. ROUND HEAD (90mm Dia)

Diameter : 2.0mm
Nos of Holes : 50

9. ROUND HEAD (90mm Dia)

Diameter : 1.2mm
Nos of Holes : 100

10. ROUND HEAD (90mm Dia)

Diameter : 0.5mm
Nos of Holes : 50

11. ROUND HEAD (90mm Dia)

Diameter : 0.5mm
Nos of Holes : 100 holes

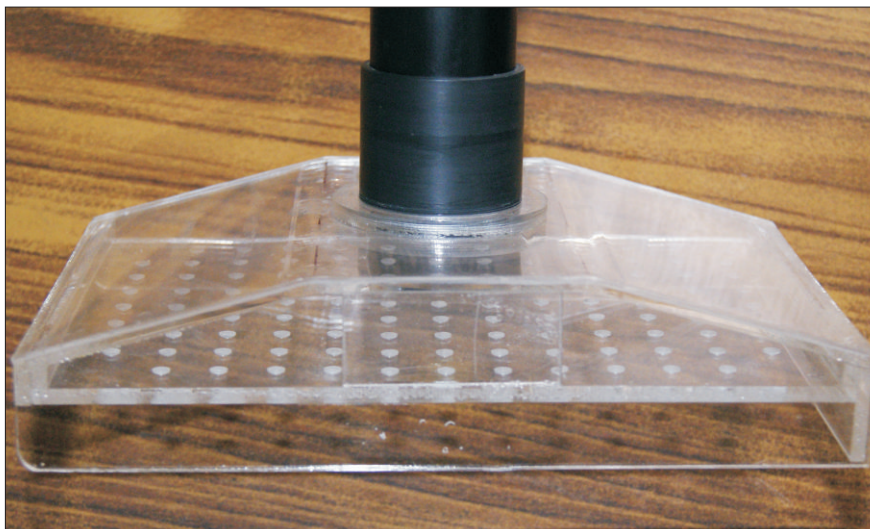
NOTE- Customer can choose from the counting heads of 50/100 holes according to suitability.

PROCEDURE TO OPERATE THE MACHINE:-

- 1) Put the hose into the hose socket. After putting the hose connector into the hose socket, turn the hose connector in the clockwise direction to lock.



- 2) Now, insert the top end of the head into the handle of the hose. Handle of the hose has the arrangement for attaching required head. (Put the required head as per your requirement).



- 3) Put the **cleaned and graded** seeds to be counted in a bulk inside a tray (as shown in the figure). The thickness of layer of seeds inside the tray should be 50mm minimum.



- 4) Note that there is a hole on the handle of the hose.



- 5) Switch on the machine.

- 6) Put the head on the bulk of the seeds. While you do so, cover the hole with the palm of your hand or any finger of your hand.



- 7) Increase or decrease the level/speed of vacuum with the movement of knob provided on the machine according to the density of seeds.

- 8) Now, remove the head from the bulk of the seeds and as you do this, remove the hand from the hole or uncover the hole immediately to prevent the unnecessary load on vacuum pump.



- 9) You will see the seeds have stuck into the holes of the head.



- 10) Do dressing with pin/needle to remove extra seeds on any hole of the head.
- 11) When you switch off the machine, the seeds stuck on the holes of the head will get separated from the head.

PRECAUTIONS:

- 1) **Use the graded and clean seeds for the good results.**
- 2) Remove the hand from the hole provided on the handle of the hose immediately after the seeds have stuck into the head otherwise, it can cause a severe damage to the machine.
- 3) Keep the heads in proper place and avoid falling of heads from heights.
- 4) Switch off the machine when not in use.
- 5) Clean the suction hole of blower after use by unscrewing the two screws on the lid of connection hole.

