Products & Solutions

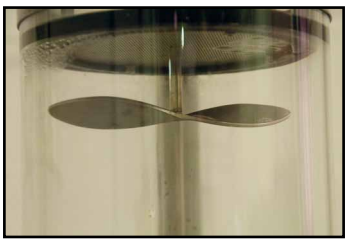
for seed centres

Plant the Planet

The BCC Prevac

BCC

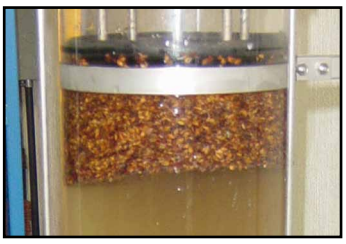
www.bccab.com



the water is continuously stirred by the blender

vacuum gauge

seed is drained into a sieve



seed with cracks will sink

The BCC Prevac

Mechanically damaged seed can be separated through a process of PREVAC. The principle of PREVAC is that a liquid (normally water) under pressure enters the cracks in the seed coat of the damaged seed. Seed with cracks will lose the buoyancy, sink and separated from undamaged floating seed.

The BCC PREVAC is generally used in small-scale seed processing plants, R&D facilities or containerized nurseries that process their own seed.

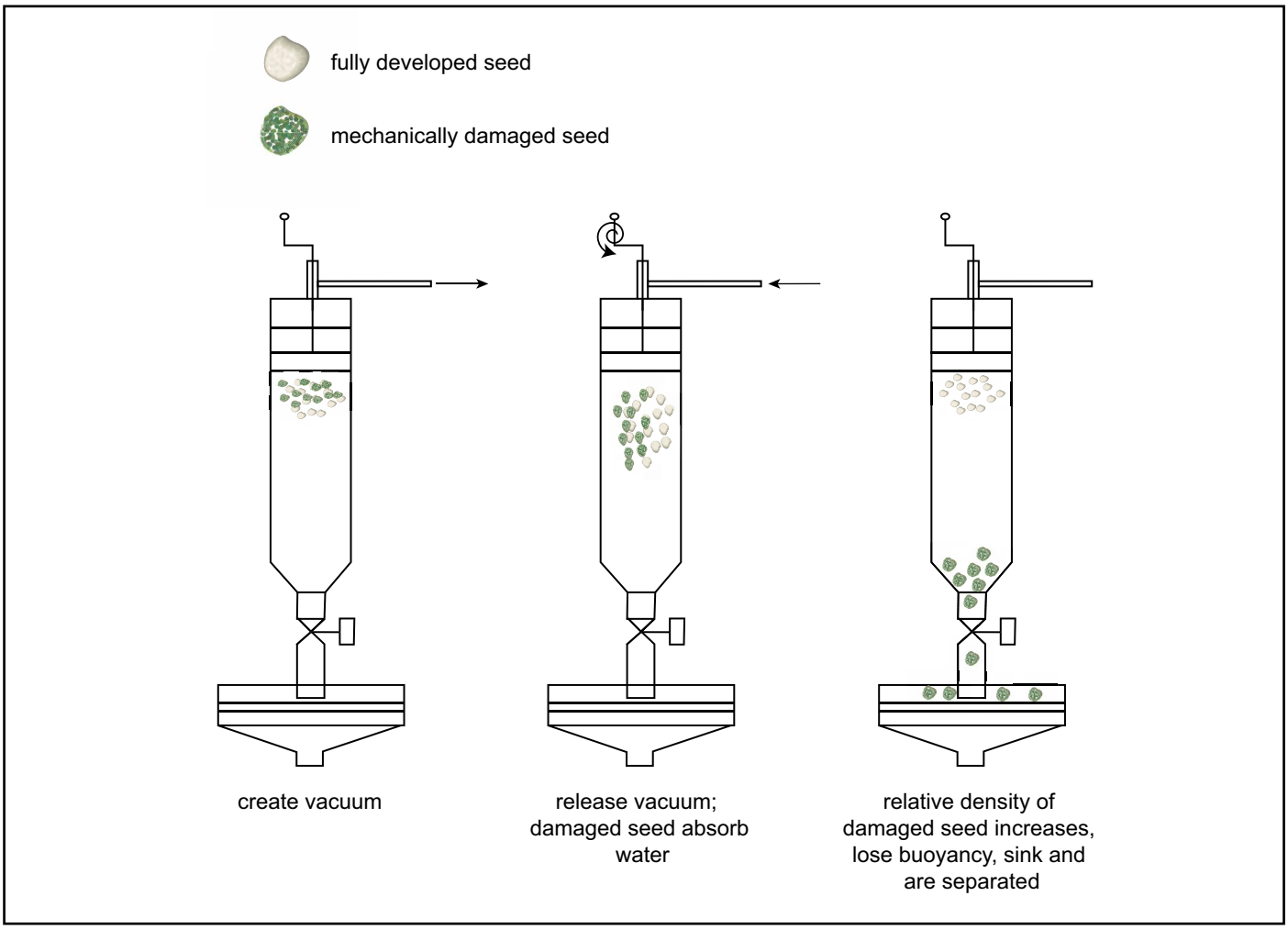
THE PROCESS

The Prevac cylinder is filled with water and the seed batch is added. The cover has an integrated sieve to keep the seed below the surface of the water, a stirrer and an air connection.

The PREVAC effect is achieved by first exposing the seed to vacuum which is done by a pneumatic vacuum unit connected to the compressed air system or by a vacuum pump. This evacuates air from the cracks or damaged seed. The pressure is then released, which forces water in the cracks.

The water is continuously stirred to ensure all seed is fully exposed to the liquid and air bubbles can escape. The relative density of damaged seed increases and sinks while the undamaged seed floats. The damaged seed is then separated through a valve at the bottom of the PREVAC.

After the damaged seed is removed, the floating undamaged seed is drained into a sieve. Seed is surfaced dried before further processing.



the prevac process

OPERATIONAL BENEFITS & KEY FEATURES

- The design of the cylinder makes it useful for other separation procedures as well e.g. buoyancy of various seed can be tested in different liquids
- The operation can be monitored at all times since the vessel is made from glass

ACCESSORIES AND EXTRA FEATURES

Fitted with vacuum pump

TECHNICAL DATA

Dimensions (L x W x H):	**600 mm x 600 mm x 1800 mm**
Cylinder length:	**500 mm**
Cylinder diameter:	**200 mm**
Weight:	**40 kg**
Power supply:	**1 x 230V, 50Hz**
Seed capacity:	**3-4 liters**
Water volume:	**16 liters**
Mesh size of sieve:	**1 mm**

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