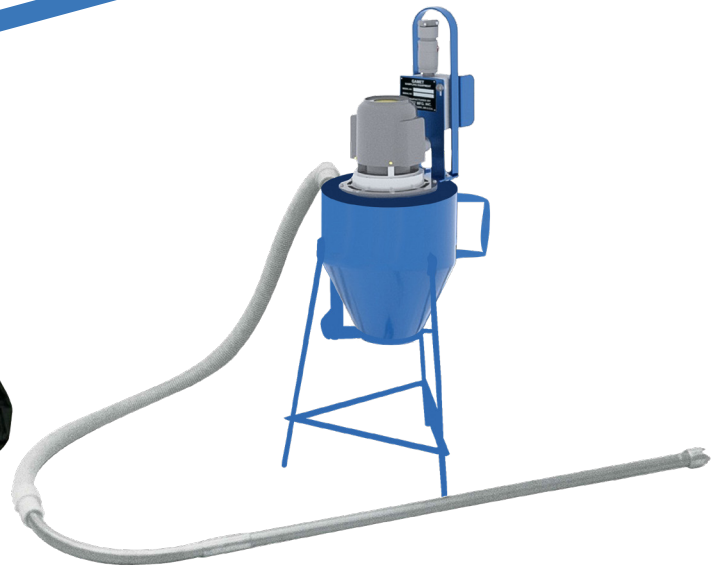


VAC-A-SAMPLE®

Pneumatic Sampling Systems



Standard Vac-A-Sample®
Q71P1000



Cottonseed Vac-A-Sample®
Q71P4000



VAC-A-SAMPLE®

How it works



The Vac-A-Sample® is a manually inserted pneumatic sampling probe capable of sampling to depths of up to 60 or more feet. Ideally suited for use in obtaining samples from enclosed bins and ground piles. The use of this sampler eliminates unnecessary shifting and turning of stored grain.

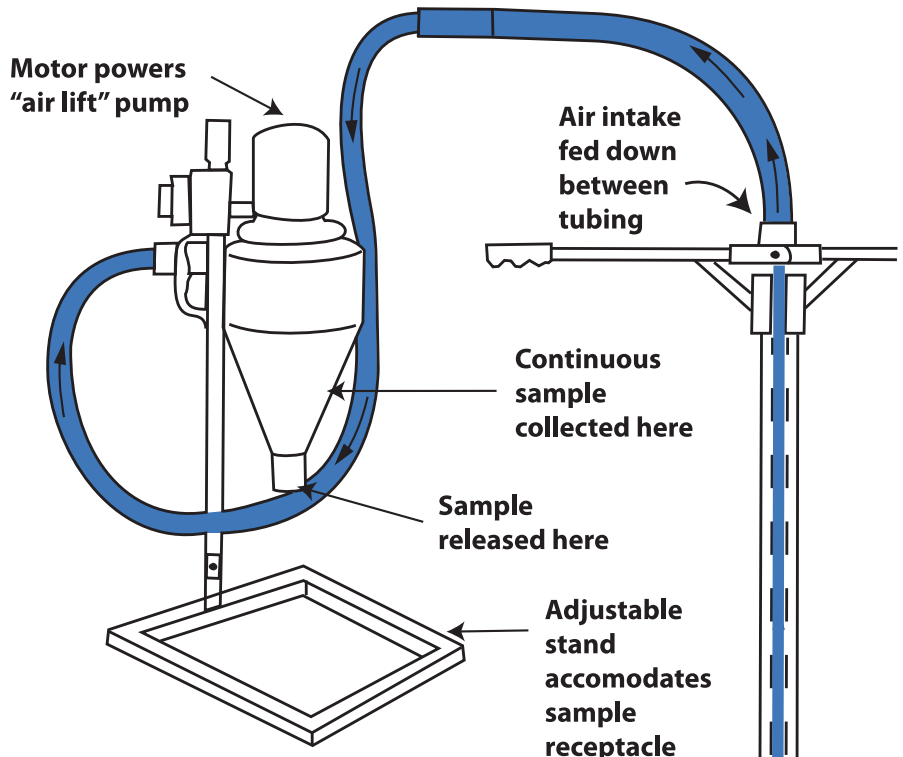
The unit utilizes an explosion-proof electric vacuum motor/switch assembly to draw samples from various depths into a portable cyclone assembly. Insertion of a sampling tip section and subsequent 4' tube sections connected to a flexible hose assembly allows for the collection of a solid core of sample to a desired depth.

Tip sections are available in three types. A coarse tip is used for large grain (corn and soybeans), a fine tip is used for small grains (wheat and barley) and the burr tip for compacted products.

Uses of the Vac-A-Sample® Pneumatic Sampler

Sampling – The Vac-A-Sample® can penetrate loads up to (approximately) 60 feet. This allows the user to spot sample at various levels of the bin or vessel, as well as, obtain composite sample of the entire “core” within a bin.

Fumigation – Locating and isolating insect infestation can be preformed with the Vac-A-Sample®. The type of infestation, the size, and the geographical location of a “hot spot” can be determined by successive probing of the bin. When hot spots occur, due to insects or moisture, treatment can be made by inserting the probe into the damaged area and introducing the insecticide into the probe section(s). When removing the probe, insecticide is left in place to solve the problem locally, eliminating the need for treating the entire bin or moving the grain.



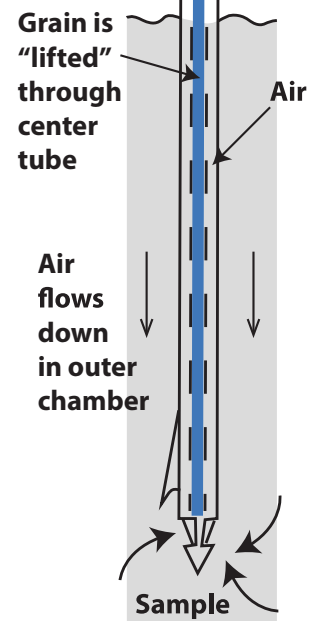
...lifts a continuous sample as vacuum action clears way from lowering Probe!

A 7/8 HP, Class II, Group G motor powers a specialty designed cyclone air pump, providing the unit with its vacuum-like suction. The cyclone is engineered to exhaust air as it deposits the sample from the “core”.

A continuous sample is fed into the cyclone collector through a flexible pneumatic hose attached to the Probe.

The Probe itself is a series of sections of inner and outer tubes. The chamber formed between the two pipes allows outside air to pass downward to the Probe point, where the pneumatic action takes place.

This downward flow of air combines with the upward suction (inside the inner tube), to “lift” the sample upwards. At the same time, it allows the Probe point to be lowered into the vacated area.



POWER REQUIREMENTS	
1/60/115	15 AMPS
1/50/230	8 AMPS

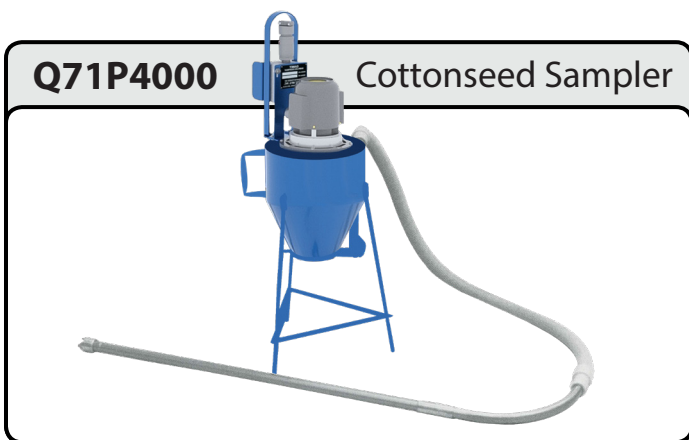
Q71P1000

Standard Sampler



Q71P4000

Cottonseed Sampler



Set Up

1. The motor and cyclone base unit may be placed on the grain at the point of probing or on the floor of sampling house bins.
2. Adjust the stand (using thumb screw) to accommodate your sampling container.
3. Plug Vac-A-Sample® into 115 Volt, 60Hz (or 230 Volt, 50Hz) VAC power supply.
4. Connect flexible hose to cyclone at one end and gooseneck connector at other end. Connect gooseneck connector to inner tube section of desired probe point section. Inner tube should be projecting out of outer tube 4 to 6 inches.
5. Check shutter at base of cyclone to make sure it is tightly closed to assure full air lift.
6. Flip switch to start motor.
7. Push probe point section into grain by gripping tube with hands. The lever yoke T-handle is unnecessary for the first few probe sections. Probe section should be pushed straight down into grain until 6 to 8 inches of section is showing above grain.
8. Samples can be taken once probing has started. SHUT OFF motor and wait until it stops before opening shutter at bottom of cyclone. Allow grain to pour into sampling container.
9. Cyclone is designed to handle a sample from each section of the probe. In the event cyclone fills before additional section is needed, stop the motor and empty cyclone.
10. If no grain is lifting and the Vac-A-Sample® is ON, you have reached a crust, moisture pocket, hot spot, or a pocket of foreign material which will not flow into the air stream. Continue to apply force with a twisting action on the probe section. This action will "feed" material into the air stream and permit the probe to go on through the tough material. DO NOT push probe section into the grain unless motor is on.
11. If motor is OFF while the probe continues to be pushed into the grain, or if the probe is pushed too rapidly into the grain, material can be forced into lifting (inside) tube and prevent air flow. If this does occur, back the probe section out of the grain until the "cork" of grain falls out.

Seedburo provides a Vac-A-Sample® Pneumatic Samplers specifically designed for the cottonseed industry. The Q71P4000 cottonseed sampler provides a fast and efficient method of sampling cottonseed in bins, trucks, railcars and other storage vessels.

The Vac-A-Sample® lifts a continuous sample as vacuum action assists the operator to probe deeper into the bin. The continuous sample is fed into the uniquely designed cyclone collector through a flexible pneumatic hose attached to the probe.

Where the "grain" Vac-A-Sample® utilizes a double-tube probe section, the cottonseed units have single-tube construction to lift the lightweight cottonseed more efficiently. This allows for easier penetration into lint pockets and hard packed areas.

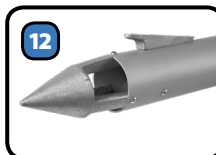
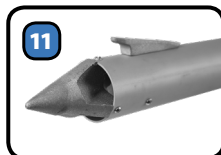
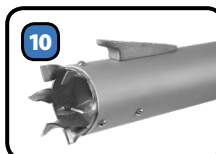
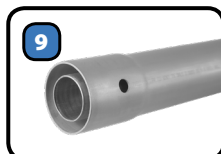
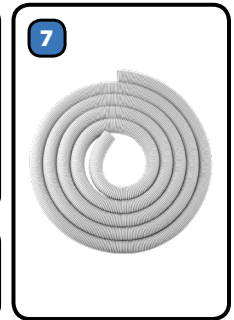
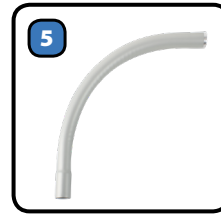
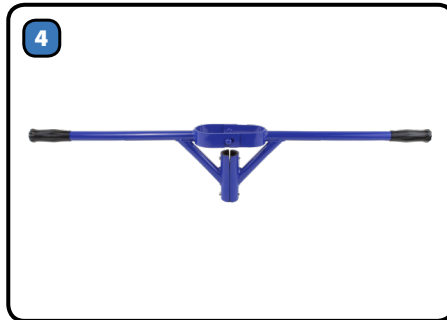
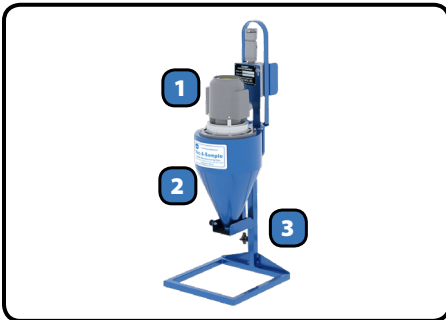
Works On The Following:

Barley	Kasha	Soybeans
Bulgar	Lentils	Soybean Meal
Canola	Millet	Spelt
Corn	Milo	Wheat
Corn Meal	Mustard Seed	Wheat Berries
Cottonseed	Oats	Wheat Gluten
Dry Beans	Quinoa	Wild Rice
Farro	Rice	

VAC-A-SAMPLE®

Components

Standard Vac-A-Sample® Parts List:



1. Motor

A high speed, 7/8 HP motor powers the cyclone for the sampling and is Class II, Group G listed by Underwriters Laboratories. A manual off-on switch is also supplied.

2. Cyclone

Specially engineered cyclone lifts material up in probe sections and deposits the material in the collection chamber. The funnel shaped chamber holds the sample until the motor is switched off and the bottom release shutter is opened. The air is exhausted into the atmosphere. An air filter system is built into the cyclone to prevent dust blow-

out. A protective screen is mounted inside the cyclone to prevent material from hitting the fan impeller.

3. Adjustable Standard

The standard allow motor and cyclone to be adjusted up and down to accommodate desired sample receptacle.

4. Lever Yoke Handle

Features a friction grip handle for one or two man operation. This handle reverses for probe withdrawal.

5. Gooseneck Connector

A special curved aluminum "gooseneck" saves wear on vinyl hose and prevents kinking.

6. Pliers

Specially designed pliers

depress spring lugs for quick assembly and disassembly of tube sections.

7. Flexible Pneumatic Hose

10', 20' or 30' flexible vinyl hose attaches the probe to the motor-cyclone unit.

8. Aluminum Tubing

The chamber formed by the inner (1 1/4" OD) tube and the outer (2" OD) tube provides air duct passage for the pneumatic action at the point of the probe. The inner tube is held in place by specially designed luglocks. Both tubes are lightweight rolled aluminum.

9. Additional Aluminum Tubes

Tubes are made in standard easy-to-handle 4' sections. Heavy gauge spring lock lugs

attach sections together.

10. Burr Tip Section

One of three different points that are built to accommodate various materials to be sampled. The tips are so designed to allow the right amount of pneumatic pressure to connect the material and lift it upwards. The burr tip is for compacted material.

11. Fine Tip Section

For fine materials.

12. Coarse Tip Section

For coarse materials.

13. Heavy Canvas Carryall Bag

Everything fits easily into this heavy-duty bag except the motor-cyclone unit and flexible pneumatic hose.

Cottonseed Vac-A-Sample® Parts List:

• Motor & Cyclone

Includes a cottonseed deep bin cyclone complete with a 7/8 HP, Class II, Group G Motor and stand.

• Lever Yoke Handle

Features a friction grip handle

for one or two man operation. This handle reverses for probe withdrawal.

• Threaded Goose Connector

The cottonseed sampler uses threaded connectors to connect the probe sections.

• Threaded 4' Probe Sections

Visually similar to the probe sections of the standard sampler, the cottonseed probes are threaded to allow attachment via threaded goose connectors.

• 4' Cottonseed Tip Sections

• **Flexible Pneumatic Hose**
10', 20' or 30' flexible vinyl hose attaches the probe to the motor-cyclone unit.