

RAVEN PROCESS CENTRIFUGE F-10300



The Raven F-10300 Centrifuge is a rugged precision instrument. Each unit is built with quality and craftsmanship in. Stainless steel structure with aluminum machined parts.

Uses:

- **Measure percent solids in fluid samples**
- **Clarify samples for lab tests**
- **Verify solids reduction in large separators - sample pre and post separation**

Equipment and Features

F-10300 Centrifuge

- Six-position rotor rotates at a right angle to the axis of spin and provides a sharp, easily read solids/liquid interface.
- Digital timer to start and automatically switch unit OFF at end of test.
- Corrosion resistant stainless steel and aluminum construction for durability and easy cleaning.
- 1/8 HP, 3000 RPM, Totally Enclosed Fan-Cooled motor designed for use in dirty environments.
- On/Off switch in rear of unit near power cord.

B-10101-19 Centrifuge Tubes (19mm) included

- Clear, impact resistant polycarbonate plastic eliminates costly breakage.
- Steep tapered conical design for volumetric determination of percent solids.
- Bright white markings which contrast vividly with most samples.

Centrifuge Procedures

Collect sample

Collect at least 50 ml. of sample for the centrifuge spin in a wide mouth container.

Mix sample

The sample to be poured into the centrifuge tube should be gently mixed.

Fill a clean tube with sample to the 100% mark on the tube. Samples should be poured quickly to prevent settling in the sample collection container.

Prepare tube sample

Remove any air bubbles that may become entrained in the tube by tilting and tapping the outside tip of the tube.

Position tube samples in opposing trunnion rings to maintain balance

Note

- **Balanced condition must be maintained.**
- **Use only an even number of tube filled samples.**
- **Locate samples opposite one another (1&2, 3&4, 5&6).**

Centrifuge must be on a flat level surface. Before inserting or removing tubes from ring holders verify centrifuge is unplugged from power source. Place tubes in centrifuge ring holders opposite one another (1&2, 3&4, 5&6).

All centrifuge tube rings shall have duplicate samples or water filled tubes, to maintain uniform loading on the unit during each test to assure a consistent speed (in RPM) for all spin tests.

Spin Test

NOTE

- **Immediately switch [OFF] the centrifuge in the event of an unbalanced condition. (ON/OFF switch is at rear of unit near power cord)**
- **Do not open lid while centrifuge is spinning.**
- **Do not move unit while operating.**

Plug centrifuge into power source and switch the ON/OFF switch to the [ON] position. Press the keys on the control panel to the desired period. The centrifuge will begin spinning and automatically power down at the end of the timer setting. A forty-second “Spin Down” will display on the control panel after the motor has automatically switched off. Do not open lid until centrifuge has come to a complete stop at the end of the forty-second “Spin Down.” Switch the ON/OFF switch [OFF] when the forty-second “Spin Down” is complete. Remove the tube samples from the centrifuge ring holders and close lid.

Test Results

The Raven centrifuge tubes will indicate the suspended solids concentration in percent volume.

Clean sample tubes

The centrifuge tubes must be thoroughly cleaned prior to reuse or future results will be inaccurate. Clean with a high velocity stream of tap water into the bottom of the emptied tube to remove the solids. A pipette can also be used to loosen compacted solids in bottom of tube.

More process control instruments manufactured by Raven Process Control Instruments:



Replacement centrifuge tubes
19mm per dozen.
Model B-10104-19mm



LIQUA-CORE Core Sampler
for viewing and measuring
settled solids in wine and
beverage tanks.
Model L-20208



Sediment Interface Detector is a
portable infrared meter locates
sediment depth for racking and
verifying progress of settling in must,
juice and wine tanks.
SID-25200

Raven Process Control Instruments
Saint Louis, Missouri 63122 USA
Sales 800-545-6953
Fax Orders 314-822-9968
ravenpci.com

