

## RAVEN PROCESS CENTRIFUGE F-10300

Manufactured in USA by Raven



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 must and wine 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-20200

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