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## Velocity 14 / 14R Pro



The Velocity 14 / 14R Pro centrifuges feature a compact footprint and provides the flexibility to alternate from micro-volume centrifugation to medium-volume centrifugation at an impressive maximum speed of 14,000 RPM / 20,290xg.

### Smart, Compact, 3-in-1 Design

The versatile design of the Velocity 14 / 14R Pro centrifuges offers the best from the perspective of micro-volume and medium-volume centrifugation.

The FA15A rotor is sufficiently fast and yet accommodating for up to 24 x 1.5/2 ml tubes with a terminal velocity of 14,000 RPM (18,726 x g) whilst the FA15C rotor has sufficient capacity for up to 6 x 50 ml tubes reaching an impressive terminal velocity of 14,000 RPM (20,290 x g) in V14R Pro. The new SW4C Swing Bucket Rotor further expands the flexibility of the centrifuges to incorporate a wide range of new applications.

### Quick Set Rotor System

With the Velocity 14 / 14R Pro simply place the rotor on the drive shaft and that's all. The auto lock and secure mechanism performs the rest. Once centrifugation is complete simply lift the rotor off the drive shaft.

## Auto Rotor Recognition

Microchip technology allows for automatic recognition of rotor and confirmation once centrifugation has commenced, including rotational speed calculation and optimum temperature control. Furthermore, new rotors can be easily loaded on the on-board database as they are introduced

## Fast Acceleration and Deceleration

The innovative high torque, drive technology effortlessly accelerates even the heaviest rotors to terminal velocity quickly and efficiently. Even the heaviest rotors with a full load will achieve maximum velocity within a few minutes. Besides, 9 pre-set acceleration and 9 pre-set deceleration profiles ensure the right conditions are set for the most precious of samples including density gradients.

## High Imbalance Tolerances

Innovative motor engineering and mounting including a flexible drive shaft allow for greater imbalance tolerances, so much so that samples can be balanced simply with the naked eye. No more weighing, just fill tubes or bottles to within 5mm of each other.

## Powerful Refrigeration (Velocity 14R Pro)

A powerful non-CFC compressor cools the chamber quickly whilst maintaining the rotor at set temperature during centrifugation. Twin cooling fans - one each for the compressor and motor respectively - dissipate heat quickly to improve cooling efficiency and extend motor life.

## Actual Sample (Rotor) Temperature Measurement and Display (Velocity 14R Pro)

The temperature displayed on the LCD panel during centrifugation is that of the rotor (and hence samples) and not the temperature of the chamber nor the temperature at the sensor to allow for more precise, reproducible and efficient experimentation.

## Safety Features

Non-contact imbalance detection and shutdown based on the run profile for each rotor across its entire speed range rather than the inferior and conventional micro-switch detector.

Guard barrier

Dual lid electronic interlock

Auto-hinge for improved sealing and door opening

Over speed detection and shutdown

Motor overheat detection and shutdown

## User Friendly Operation and Information Rich Display

Parameters are quickly and effortlessly inputted through the uncomplicated touch pad interface and displayed on the brightly backlit and easy to read LCD panel. The LCD panel concurrently displays all experimentation parameters including diagnostic information as it occurs.

## Quiet Operation

Noise abating insulation in the console including lower noise fans combine to reduce the audible operating noise to 53dB (58 dB for V14R).

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