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Барнаул (3852)73-04-60  
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Пермь (342)205-81-47

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Рязань (4912)46-61-64  
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Сочи (862)225-72-31  
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Сургут (3462)77-98-35  
Сыктывкар (8212)25-95-17  
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Тюмень (3452)66-21-18  
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Улан-Удэ (3012)59-97-51  
Уфа (347)229-48-12  
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Чита (3022)38-34-83  
Якутск (4112)23-90-97  
Ярославль (4852)69-52-93

Россия +7(495)268-04-70

Казахстан +7(7172)727-132

Киргизия +996(312)96-26-47

<https://dynamica.nt-rt.ru> || [day@nt-rt.ru](mailto:day@nt-rt.ru)

# Velocity 18R Pro



The Dynamica Velocity range sets another benchmark in laboratory instrumentation. The Velocity 18R pro delivers exceptional capacity (36 x 15ml, 16 x 50ml), refrigerated centrifugation with an impressive maximum speed of 18,000 RPM (28,978 x g) and all from the convenience of the bench.

## Quick Set Rotor System

With the Velocity 18R 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. Quicker, easier, more efficient and safer.

## Auto rotor recognition

Automatic rotor recognition and confirmation once centrifugation has commenced, including rotational speed calculation and optimum temperature control. Furthermore new rotors can be easily loaded onto 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 10 pre-set deceleration profiles (including coasting deceleration) ensure the best separation even for the most delicate 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

A powerful non-CFC compressor cools the chamber quickly whilst maintaining the rotor at set temperature during centrifugation.

The 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

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 58dB.

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