

Dynamica



The VELOCITY Range

BENCH TOP CENTRIFUGES

REDVOLUTION

RED VOLUTION

The Dynamica Velocity range sets another benchmark in laboratory instrumentation. Dynamica’s extensive manufacturing experience, commitment to innovation and continuous refinement, has resulted in an extensive range of precision laboratory instrumentation that fulfils the challenges of the contemporary and multifaceted laboratory environment. Versatility, flexibility, performance, efficiency, design are hallmarks of Dynamica’s dedication to excellence.

The Dynamica range of bench-top centrifuges are characterized by quality and safety and are complemented by a wide array of convenience features, from the user friendly control pad with clear, bright LED display to the dual interlocking door mechanism to name a few. An extensive model range with accompanying accessories extend suitability to many laboratory applications.

We test our electrical products against the CE and safety standard. Dynamica products are independently tested by accredited test house and this is reinforced by comprehensive technical and manufacturing data.

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VELOCITY 18R
Refrigerated Benchtop Centrifuge

The Velocity 18R delivers high capacity, refrigerated centrifugation with an impressive maximum speed of 18,000 RPM (28,978 x g) (with the fixed angle FA18C rotor) and all from the convenience of the bench

Quick Set and forget Rotor System

Screwing or bolting rotors to the drive shaft is a thing of the past. Likewise lost spanners and rotor over tightening. With the Velocity 18R 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. Furthermore, 9 pre-set acceleration and 10 pre-set deceleration profiles 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.

Furthermore, 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 is Paramount

The Velocity 18R offers many safety features in the unlikely event of an emergency such as:

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. Furthermore, once centrifugation has commenced, a real time graphic profile of the centrifugation status is displayed.













Quiet Operation

Noise abating insulation in the console including lower noise fans combine to reduce the audible operating noise to ≤58 dB.






Liquid Seeping Prevention

A single continuous rubber cap with strong gasket, firmly seals the motor chamber opening and drive shaft to prevent liquid from seeping into the motor and electronic components. As additional back-up, a highly absorbent sponge positioned beneath the rubber cap soaks up any liquid or condensation which then evaporates during operation.

VELOCITY 18R ROTORS

ROTOR TYPE	CAT. NO.#		MATERIAL	MAX SPEED (RPM)	MAX RCF (XG)	TUBE VOLUME (ML)	TUBE DESCRIPTION	TUBE DIMENSIONS(O X MM)	TUBE MATERIAL	CAPACITY	ADAPTOR	ROTOR AUTOCLAVABLE	ROTOR LID
Fixed Angle	FA12A		Aluminium	12,000	14,100	0.2	PCR single or strip	6 x 24	PP	48 x 0.2 ml	N/A	121°C	Aluminium
Fixed Angle	FA18B		Aluminium	18,000	24,990	1.5/2.0	Standard micro-tube	10.5 x 41	PP	18 x 1.5/2.0 ml	N/A	121°C	Aluminium
				"	"	0.5	PCR single tube	8 x 32	PP	18 x 0.5 ml	FA15.05		
				"	"	0.2	PCR single tube	6 x 24	PP	18 x 0.2 ml	FA15.02		
Fixed Angle	FA15A		Aluminium	15,000	21,500	1.5 /2.0	Standard micro-tube	10.5 x 41	PP	24 x 1.5/2.0 ml	N/A	121°C	Aluminium
				"	"	0.5	PCR single tube	8 x 32	PP	24 x 0.5 ml	FA15.05		
				"	"	0.2	PCR single tube	6 x 24	PP	24 x 0.2ml	FA15.02		
Fixed Angle	FA15P		Plastic	15,000	18,800	1.5 /2.0	Standard micro-tube	10.5 x 41	PP	18 x 1.5/2.0 ml	N/A	No	N/A
				"	"	0.5	PCR single tube	8 x 32	PP	18 x 0.5 ml	FA15.05		
				"	"	0.2	PCR single tube	6 x 24	PP	18 x 0.2ml	FA15.02		
Fixed Angle NEW	FA11A		Aluminum	11,000	12,000	1.5/ 2.0	Standard micro-tube	10.5 x 41	PP	48 x 2 ml	N/A	121°C	Aluminum
Fixed Angle NEW	FA14A		Aluminum	14,000	20,000	5	V Bottom		PP	12 x 5 ml	N/A	121°C	Aluminum
Fixed Angle NEW	FA14B		Aluminum	14,000	20,000	5	Round Bottom		PP	12 x 5 ml	N/A	121°C	Aluminium
Fixed Angle	FA18A		Aluminium	18,000	27,070	10	Round Bottom	16 x 81	PP	8 x 10 ml	N/A	121°C	Aluminium
Fixed Angle NEW	FA18C		Aluminium	18,000	28,978	10	Round Bottom	16 x 81	PP	10 x 10 ml	N/A	121°C	Aluminium
Fixed Angle NEW	FA5A		Aluminium	5,500	5,000	15	Culture V Bottom	17 x 120	PP	12 x 15 ml	N/A	121°C	Aluminium
Fixed Angle	FA15C		Aluminium	15,000	23,300	50	Round Bottom	29 x 106	PP/PC	6 x 50 ml	N/A	121°C	Aluminium
				"	"	15	Culture V Bottom	17 x 120	PP	6 x 15 ml	FA15.15C		
				"	"	15	Round Bottom	16.5 x 113	PP	6 x 15 ml	FA15.15R		
Fixed Angle	FA10B		Aluminium	10,000	11,400	50	Culture V Bottom	29 x 115	PP	6 x 50 ml	N/A	121°C	Aluminium
				"	"	15	Culture V Bottom	17 x 120	PP	6 x 15 ml	FA10.15C		

VELOCITY 18R ROTORS

ROTOR TYPE	CAT. NO.#		MATERIAL	MAX SPEED (RPM)	MAX RCF (XG)	TUBE VOLUME (ML)	TUBE DESCRIPTION	TUBE DIMENSIONS(O X MM)	TUBE MATERIAL	CAPACITY	ADAPTOR	ROTOR AUTOCLAVABLE	ROTOR LID
Fixed Angle	FA14C*		Aluminium	14,000	21,000	50	himac 50 TC tube [△]	30 x 115	PP	4 x 50 ml	N/A	121°C	Aluminium
				10,000	10,600	50	Culture V Bottom	29 x 115	PP	4 x 50 ml	N/A		
				10,000	10,600	15	Culture V Bottom	17 x 120	PP	4 x 15 ml	FA10.15C		
				14,000	21,000	15	Round Bottom	16.5 x 113	PP	4 x 15 ml	N/A		
Fixed Angle	FA15D		Aluminium	15,000	20,900	100	Round Bottom		PC	4 x 100 ml	N/A	121°C	Aluminium
				"	20,900	50	Round Bottom	29 x 106	PP	4 x 50 ml	FA15D.50R		
				"	20,900	15	Culture V Bottom	17 x 120	PP	4 x 15 ml	FA15D.15C		
				"	20,900	15	Round Bottom	16.5 x 113	PP	4 x 15 ml	FA15D.15R		
Swing Bucket	SW5MP		Aluminium	4,800	3,120	96 Well Microplates	PCR / Culture	128W x 86L x 14H	PP/PC	2 x Plates	N/A	121°C (buckets)	N/A
				"	"	96 Deep Well Plates	PCR / Culture	128W x 86L x 55H	PP/PC	2 x Plates	N/A		
				"	"	1.5 /2.0	Standard micro-tube	10.8 x 40.5	PP	48x 1.5/2.0 ml	SW5MP.15		
				"	"	0.2	PCR single or strip		PP	192x 0.2 ml	SW5MP.02		
Swing Bucket	SW4A		Aluminium	4,000	2,900	15	Culture V Bottom	17 x 120	PP	24 x 15ml	SW4A.15C	121°C (buckets)	N/A
				4,000	2,860	50	Culture V Bottom	29 x 115	PP	8 x 50ml	SW4A.50C		
Swing Bucket	SW5		Aluminium Bucket	4,800	4,170	250	Bottle	61.6 x 135	PP/PC	4 x 250ml	N/A	121°C (buckets)	Plastic Caps with o-ring (Order Separately)
				4,800	4,170	5	Blood collection	12-13 x 75-78		28 x 5ml	SW5.5B		
				4,800	4,170	7	Blood collection	12-13 x 100		28 x 7ml	SW5.7B		
				4,800	4,170	10	Blood collection	16 x 100		28 x 10ml	SW5.10B		
				3,000	1,630	10	Round Bottom	12 x 105	Glass	28 x 10ml	SW5.10G		
				3,000	1,630	15	Round Bottom	17 x 110	Glass	28 x 15ml	SW5.15G		
				4,800	4,170	15	Round Bottom	16.5 x 113	PP	16 x 15ml	SW5.15P [#]		
				4,800	4,170	15	Culture V Bottom	17 x 120	PP	12 x 15ml	SW5.15CA		
				4,800	4,170	15	Culture V Bottom	17 x 120	PP	16x 15ml	SW5.15CB [#]		
				4,800	4,170	50	Round Bottom	29 x 104	PP	4 x 50ml	SW5.50P		
				4,800	3,990	50	Round Bottom	35 x 100	Glass	4 x 50ml	SW5.50G		
				4,800	4,170	50	Culture V Bottom	29 x 115	PP	4x 50ml	SW5.50C		
				4,800	4,170	50	Skirted bottom	29 x 115	PP	4x 50ml	SW5.50CB		

PP- Polypropylene PA - Polyallomer PC - Polycarbonate * Plastic seal caps cannot be used with these adaptors

* 50ml TC tubes and 15ml round bottom tubes can be used in FA14C without adaptors. Different volume of tubes cannot be centrifuged together in the same run.

△ himac 50TC tubes are purchased separately. The tubes are specially designed for higher speed at maximum 14,000 rpm.

Plastic seal caps cannot be used with these adaptors.

VELOCITY 18R SPECIFICATIONS

MODEL	V18R
Maximum Speed	18,000 RPM (FA18A rotor)
Maximum RCF	28,978 x g (FA18C rotor)
Maximum Capacity	1,000 ml (4 x 250 ml)
Drive Mechanism	Brushless Induction
Control	Microprocessor based
Speed Range	300-18,000 RPM (100 RPM increments)
Speed Accuracy	±20 RPM
Speed / RCF Conversion	Yes
Timer	1 min - 99 Hrs 59 mins plus HOLD function
Display	Backlit LCD
Operating Noise	<58dB (A)
Temperature Range	-20°C to +40°C
Temperature Accuracy	±2°C
Memory	9 Programs
Acceleration/Deceleration	9 stages / 10 stages
Automatic Rotor Identification	Yes
Imbalance Detection	Yes
Dimensions (L x D x H)	730 x 610 x 380 mm
Weight (Net)	100 Kg
Power Supply	Single Phase AC220V, 50Hz, 10A AC220V, 60Hz AC110V, 60Hz



VELOCITY 14 / 14R
Benchtop Centrifuges

The Velocity 14 / 14R centrifuges set a new benchmark in versatility and compactness. The clever design results in a compact footprint yet generous capacity which not only frees up precious bench space but also provides the flexibility to alternate from micro-volume centrifugation to medium-volume centrifugation and all at an impressive maximum speed of 14,000 RPM / 20,290xg (with the FA15C rotor). Furthermore the V14R incorporates powerful and efficient refrigeration whilst the absence of refrigeration in the Velocity 14 further reduces its footprint by at least 50% compared to that of the Velocity 14R.

Smart, Compact, 3-in-1 Design

The versatile design of the Velocity 14 / 14R centrifuges offers the best of both worlds 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. The new SW4C Swing Bucket Rotor further expands the flexibility of the Velocity 14/14R centrifuges to incorporate a wide range of new applications.

Quick Set and forget Rotor System

Screwing or bolting rotors to the drive shaft is a thing of the past. Likewise lost spanners and rotor over tightening. With the Velocity 14 / 14R 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.

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 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. Furthermore, 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 model only)

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

Furthermore, 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 only)

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 is Paramount

The Velocity 14 / 14R offers many safety features in the unlikely event of an emergency such as:

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. Furthermore, once centrifugation has commenced, a real time graphic profile of the centrifugation status is displayed.













Quiet Operation

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

Liquid Seeping Prevention

A single continuous rubber cap with strong gasket, firmly seals the motor chamber opening and drive shaft to prevent liquid from seeping into the motor and electronic components. As additional back-up, a highly absorbent sponge positioned beneath the rubber cap soaks up any liquid or condensation which then evaporates during operation.

VELOCITY 14R & 14 ROTORS

ROTOR TYPE	CAT. NO.#		MATERIAL	V14R (V14) MAX SPEED (RPM)	V14R (V14) MAX RCF (XG)	TUBE VOLUME (ML)	TUBE DESCRIPTION	TUBE DIMENSIONS(O X MM)	TUBE MATERIAL	CAPACITY	ADAPTOR	ROTOR AUTOCLAVABLE	ROTOR LID
Fixed Angle	FA12A		Aluminium	12,000 (12,000)	12,290 (12,290)	0.2	PCR single or strip	6 x 24	PP	48 x 0.2 ml	N/A	121°C	Aluminum
Fixed Angle	FA15A		Aluminium	14,000 (14,000)	18,728 (18,728)	1.5 /2.0	Standard micro-tube	10.5 x 41	PP	24 x 1.5/2.0 ml	N/A	121°C	Aluminum
				"	"	0.5	PCR single tube	8 x 32	PP	24 x 0.5 ml	FA15A.05		
				"	"	0.2	PCR single tube	6 x 24	PP	24 x 0.2ml	FA15A.02		
Fixed Angle	FA11A		Aluminum	11,000 (11,000)	12,000 (12,000)	1.5/ 2.0	Standard micro-tube	10.5 x 41	PP	48 x 2 ml	N/A	121°C	Aluminum
NEW													
Fixed Angle	FA14A		Aluminum	14,000 (14,000)	20,000 (20,000)	5	V Bottom	17 x 60	PP	12 x 5 ml	N/A	121°C	Aluminum
NEW													
Fixed Angle	FA14B		Aluminum	14,000 (14,000)	20,000 (20,000)	5	Round Bottom	15 x 62	PP	12 x 5 ml	N/A	121°C	Aluminum
NEW													
Fixed Angle	FA18A		Aluminium	14,000 (14,000)	16,200 (16,200)	10	Round Bottom	16 x 81	PP	8 x 10 ml	N/A	121°C	Aluminum
Fixed Angle	FA18C		Aluminium	14,000 (14,000)	17,530 (17,530)	10	Round Bottom	16 x 81	PP	10 x 10 ml	N/A	121°C	Aluminum
NEW													
Fixed Angle	FA15B		Aluminium	14,000 (12,000)	18,990 (13,950)	50	Round Bottom	29 x 106	PP/PC	4 x 50 ml	N/A	121°C	Aluminum
				"	"	15	Culture V Bottom	17 x 120	PP	4 x 15 ml	FA15.15C		
				"	"	15	Round Bottom	16.5 x 113	PP	4 x 15 ml	FA15.15R		
Fixed Angle	FA15C		Aluminium	14,000 (12,000)	20,290 (14,900)	50	Round Bottom	29 x 106	PP	6 x 50 ml	N/A	121°C	Aluminium
				"	"	15	Culture V Bottom	17 x 120	PP	6 x 15 ml	FA15.15C		
				"	"	15	Round Bottom	16.5 x 113	PP	6 x 15 ml	FA15.15R		
Fixed Angle*	FA14C		Aluminium	10,000 (10,000)	10,600 (10,600)	50	Culture V Bottom	29 x 115	PP	4 x 50 ml	N/A	121°C	Aluminium
				"	"	15	Culture V Bottom	17 x 120	PP	4 x 15 ml	FA14.15C		
				"	"	15	Round Bottom	16.5 x 113	PP	4 x 15 ml	N/A		
Swing Bucket*	SW4C		Aluminium	4,000 (4,000)	1,780 (1,780)	7	Blood collection	12 x 81		4 x 5 ml	Included	121°C	N/A
IntelliRotor	CF14A**		Carbon Fibre	14,000 (N/A)	17,750 (N/A)	0.2 ~ 50	← See next page →					No	N/A
NEW													

IntelliRotor (For Velocity 14R only)

Carbon Fibre Construction

The IntelliRotor's shell is constructed from a carbon fibre composite which imparts strength, durability and reduces overall weight. The benefits include shorter spin times due to reduced acceleration and deceleration cycles and increased capacities for tubes of varying dimensions and volumes. And with a maximum speed of 14,000 RPM and maximum RCF of 17,750 x g, the IntelliRotor's versatility is exceptional.

Simply Set and Forget







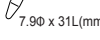







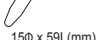












The IntelliRotor is extremely user friendly. Simply place the IntelliRotor shell on the drive shaft, position the preferred polypropylene rack (or rack combinations) into the shell and all is set. Neither tools nor securement to the drive shaft is necessary. Once the spin is complete, the IntelliRotor shell remains in position whilst the racks are removed or replaced accordingly for subsequent applications

Smart, Flexible Design Racks

The interchangeable and stackable racks underpin the flexibility of the IntelliRotor. The racks are designed to accommodate a wide range of tubes. Mix and match racks accordingly to create the optimum combination for capacity and volume. For example use a single AR015-24 rack to spin up to 24 x 2 ml tubes. Stack three of the AR015-24 racks into the single IntelliRotor shell and increase the capacity to 72 x 2 ml tubes. Consolidate several rotors to a single IntelliRotor.

Capacity and Volumes

The IntelliRotor handles an impressive range of tube sizes, from as small as 0.2ml PCR tubes with the AR002-64 rack up to 50ml culture tubes with the AR510-04. The PCR96-02 rack is designed for PCR plates. Stack three AR002-64 racks and maximise capacity to 192 x 0.2ml tubes. Mix the AR002-64 and AR015-24 racks to spin 0.2 ml and 2 ml tubes concurrently. Flexibility at your fingertips. Use the table below to configure rack combinations.

Rotor	Rack	Type
<div>IntelliRotor</div> <div>CF14A</div> <div></div> <div>Max. Capacity</div> <div>3xS</div> <div>OR</div> <div>1xM + 1xS</div> <div>OR</div> <div>1xL</div>	<div></div> <div>AR002-64 8x8-Strip PCR Tube 14,000rpm/Outer row RCF:15,780G/ Inner row RCF:14,240G</div>	<div>S</div> <div></div>
	<div></div> <div>AR004-24 24x0.4ml 14,000rpm/17,750G</div> <div></div> <div>AR005-24 24x0.5ml 14,000rpm/17,310G</div> <div></div> <div>AR015-24 24x2ml 14,000rpm/17,750G</div>	
	<div></div> <div>AR015-SC24 24x2ml 14,000rpm/17,750G</div> <div></div> <div>AR300-06 6x30ml 14,000rpm/17,750G</div> <div></div> <div>AR050-12 12x5ml 14,000rpm/17,530G</div> <div></div> <div>AR141-08 8x14ml 14,000rpm/17,750G</div>	
	<div></div> <div>AR150-08 8x15ml 14,000rpm/17,750G</div> <div></div> <div>AR510-04 4x50ml or 15ml 14,000rpm/17,750G</div> <div></div> <div>AR501-04 4x50ml or 14ml 14,000rpm/17,530</div> <div></div> <div>PCR96-02 2x96 Well PCR Plate 14,000rpm/15,340G Optional adater, A96-01PC is required.</div>	<div>L</div> <div></div>

VELOCITY 14R & 14 SPECIFICATIONS

MODEL	V14R	V14
Maximum Speed	14,000 RPM (FA15C rotor)	14,000 RPM (FA15A rotor)
Maximum RCF	20,290 x g (FA15C rotor)	18,728 x g (FA15A rotor)
Maximum Capacity	300 ml (6 x 50 ml)	
Drive Mechanism	Brushless Induction	
Control	Microprocessor based	
Speed Range	300-14,000 RPM (100 RPM increments)	
Speed Accuracy	±20 RPM	
Speed / RCF Conversion	Yes	
Timer	1 min - 99 Hrs 59 mins plus HOLD function	
Display	Backlit LCD	
Operating Noise	<58dB (A)	<53dB (A)
Temperature Range	-20°C to +40°C	-
Temperature Accuracy	±2°C	-
Acceleration/Deceleration	9 stages	9 stages
Automatic Rotor Identification	Yes	Yes
Imbalance Detection	Yes	Yes
Dimensions (L x D x H)	560 x 500 x 380 mm	340 x 490 x 380 mm
Weight (Net)	60 Kg	40 Kg
Power Supply	Single Phase AC220V, 50Hz, 10A AC220V, 60Hz AC110V, 60Hz	Single Phase AC220V, 50Hz/60Hz, 8A AC110V, 60Hz



VELOCITY 10R
Refrigerated Benchtop Centrifuge

The Velocity 10R takes the helm as Dynamica's highest capacity centrifuge –up to 3 litres with the SW3A rotor. Powerful refrigeration combined with an exceptional maximum speed of 10,000 RPM (12,740 x g with the FA10D rotor) offer the versatility and convenience to manage a wide range of larger scale applications and all in a footprint sufficiently compact to fit on a bench.

Auto rotor recognition

Microchip technology allows for 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, heavy duty, frequency conversion motor is purposely designed to handle the heaviest of rotors with abundant power output for smooth, quick and efficient acceleration to terminal velocity under fully laden conditions. Furthermore, 9 pre-set acceleration and 9 pre-set deceleration profiles ensure the right conditions are met for the most precious and vibration sensitive samples.

Powerful Refrigeration

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

Furthermore, 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 neither the temperature of the chamber nor the temperature at the sensor. This allows for more precise, reproducible and efficient experimentation.

Safety is Paramount

The Velocity 10R offers many safety features in the unlikely event of an emergency such as:

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 ergonomic 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. Furthermore, once centrifugation has commenced, a real time graphic profile of the centrifugation status is displayed.






Quiet Operation

Noise abating insulation in the console including lower noise fans combine to reduce the audible operating noise to ≤62 dB - quite impressive for a large capacity, refrigerated centrifuge such as the Velocity 10R.

Liquid Seeping Prevention

A single continuous rubber cap with

VELOCITY 10R ROTORS

ROTOR TYPE	CAT. NO.#		MATERIAL	MAX SPEED (RPM)	MAX RCF (XG)	TUBE VOLUME (ML)	TUBE DESCRIPTION	TUBE DIMENSIONS(O X MM)	TUBE MATERIAL	CAPACITY	ADAPTOR	ROTOR AUTOCLAVABLE	ROTOR LID
Fixed Angle	FA8B		Aluminium	8,000	9,180	50	Culture V Bottom	29 x 115	PP	10 x 50 ml	N/A	121°C	Aluminum
				8,000	9,000	15	Culture V Bottom	17 x 120	PP	10 x 15 ml	FA8B.15C		
				8,000	8,900	15	Round Bottom	16.5 x 113	PP	10 x 15ml	FA8B.15P		
Fixed Angle	FA8C		Aluminium	8,000	9,560	50	Round Bottom	29 x 106	PP	12 x 50 ml	-	121°C	Aluminum
				8,000	9,200	15	Culture V Bottom	17 x 120	PP	12 x 15 ml	FA8C.15C		
				8,000	9,350	15	Round Bottom	16.5 x 113	PP	12 x 15 ml	FA8C.15P		
Fixed Angle	FA10D		Aluminium	10,000	12,740	100	Round Bottom	38 x 106	PP	6 x 100 ml	-	121°C	Aluminum
				10,000	11,840	50	Culture V Bottom	29 x 115	PP	6 x 50 ml	FA10D.50C		
				10,000	12,070	50	Round Bottom	29 x 106	PP	6 x 50 ml	FA10D.50P		
Swing Bucket	SW4B		Aluminium	4,000	3,500	250 + 50	Bottle + Culture V Bottom	61.6 x 135 & 30 x 116	PP/PC	2 x 250 ml + 2 x 50 ml	SW4B.250P	121°C (buckets)	Plactic Caps with o-ring (Order Separately)
				4,000	3,500	3	Blood Collection	12 x 81		120 x 3 ml	SW4B.3B		
				4,000	3,500	5	Blood Collection	12.5 x 106		120 x 5 ml	SW4B.5B		
				4,000	3,500	7	Blood Collection	12.5 x 106		120 x 7 ml	SW4B.5B		
				4,000	3,450	10	Blood Collection	12.5 x 106		120 x 10 ml	SW4B.10B		
				4,000	3,510	15	Culture V Bottom	17 x 120	PP	64 x 15 ml	SW4B.15C		
				4,000	3,500	50	Culture V Bottom	29 x 115	PP	20 x 50 ml	SW4B.50CB		
				4,000	3,500	50	Culture V Bottom	29 x 115	PP	32 x 50 ml	SW4B.50CA*		
Swing Bucket	SW3A		Aluminium	3,200	2,500	750	Bottle	97 x 157	PP/PC	4 x 750 ml	N/A	121°C (buckets)	N/A

PP

Polypropylene

PA

Polyallomer

PC

Polycarbonate

*

Plastic seal caps cannot be used with these adaptors

VELOCITY 10R SPECIFICATIONS

MODEL	V10R
Maximum speed	10,000 RPM (FA10D)
Maximum RCF	12,740 x g (FA10D rotor)
Maximum capacity	3,000 ml (4 x 750ml)
Drive Mechanism	Frequency conversion motor
Control	Microprocessor based
Speed Range	300- 10,000 RPM (100 RPM increments)
Speed Accuracy	±20 RPM
Speed/ RCF conversion	Yes
Timer	1 min- 99 Hrs 59 mins plus HOLD function
Display	Backlit LCD
Operating Noise	≤62 dB (A)
Temperature range	-20°C to 40°C
Temperature accuracy	±2°C
Memory	9 programs
Acceleration	9 stages / 9 stages
Automatic Rotor Identification	Yes
Imbalance Detection	Yes
Dimensions (L x D x H)	876 x 695 x 460 mm
Weight (Net)	160 Kg
Power requirements	Single phase 220V, 50Hz, 15A 110V, 60Hz

SW20RHS

Large Capacity Refrigerated Floor Centrifuge

SW20RHS is powerful, easy-to-use large capacity refrigerated floor centrifuge that allows you to separate blood components quickly and costeffectively while ensuring product quality, safety, and GMP compliance. SW20RHS is specially for blood bags application with its outstanding performance, which makes SW20RHS a best choice for blood bank usage.

High Performance

High performance and large capacity of the centrifuge satisfy the stringent requirements of blood bank and biotechnology products manufacturing.

Max. speed at 4,000 rpm

Max. g-force at 5,260 × g

Max. capacity at 12 x 450 ml

Advanced Induction Drive

With its advanced induction drive, there is no need to change carbon brushes. This innovative drive provides outstanding performance and prolongs drive lifespan.

9 Accel./ 10 Decel. Profile

Choice of 9 acceleration and 10 deceleration settings allow delicate gradients and protect sensitive samples from abrupt speed changes in the crucial range between 0 and 500 rpm.

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. Furthermore, once centrifugation has commenced, a real time graphic profile of the centrifugation status is displayed. SW20RHS not only has the advantage of LCD display but also has a convenient conspicuous LED parameter monitor to display real-time running process.

Rotor Expandable System

The parameters for new rotors can be registered into rotor library.

Intuitive GLP/GMP Management Software


GLP/GMP Management software is a laboratory information system for centrifuges, providing accurate data collection. It also provides consistent processcontrol, complete traceability, multi-unit monitoring and database management with a user-friendly interface.

Safety is Paramount

SW20RHS is equipped with dual lid lock and error detection function including overspeed, imbalance and motor overheat as well as 21 types self diagnosis message for easy fault finding.



VELOCITY SW20RHS ROTOR

ROTOR TYPE	CAT. NO.#		MATERIAL	MAX SPEED (RPM)	MAX RCF (XG)	BLOOD BAG VOLUME (ML)	TUBE DESCRIPTION	CAPACITY	ADAPTOR
Swing Bucket	SW4E		Aluminium	4,000	5,260	450	Blood Bag	12 x 450 ml quadruple blood bags	Insert cup
				4,000	5,260	350	Blood Bag	12 x 350 ml quadruple blood bags	Insert cup



SW20RHS SPECIFICATIONS






MODEL	SW20RHS
Maximum Speed	4,000 RPM (SW4E)
Maximum RCF	5,260 x g (SW4E)
Maximum Capacity	12 x 450ml quadruple blood bags
Drive Mechanism	Inverted frequency motor
Control	Microelectronic control
Speed Range	300 - 4,000 RPM (100 RPM increments)
Speed Accuracy	±10 RPM
Speed / RCF Conversion	Yes
Timer	1 min - 99 Hrs 59 mins plus HOLD function (continuous mode) (SW4E)
Display	Blacklit LCD & Parameter Display LED
Operating Noise	62dB (A)
Temperature Range	-20°C to +40°C (±1°C)
Temperature Accuracy	±1°C
Acceleration/Deceleration	9 stages /10 stages (Stages 9 is the fastest)
Automatic Rotor Identification	Yes
Imbalance Detection	3 x 30 g
Other functions	RPM/ RCF settable, run profile display, stored program, accumulated centrifugation function, pre-set time operation, barcode scanner
Dimensions (L x D x H)	1,075 x 860 x 960 mm
Weight (Net)	450 kg
Power Supply	Single phase ~220V±10% 50±1Hz, Rate 30A

ORDERING INFORMATION

PRODUCT		Cat. No.#	Components	
Velocity 18R Refrigerated Centrifuge	(220V, 50Hz)	V18R-2	Main Unit	
	(220V, 60Hz)	V18R-2A	Spanner set and nuts	
	(110V, 60Hz)	V18R-1	Spare Fuses Spirit Level Silicon Grease Rotor rest pad Instruction Manual	
Velocity 14R Refrigerated Centrifuge	(220V, 50Hz)	V14R-2	Main Unit	
	(220V, 60Hz)	V14R-2A	Spanner set and nuts	
	(110V, 60Hz)	V14R-1	Spare Fuses Spirit Level Silicon Grease Rotor rest pad Instruction Manual	
Velocity 14 Centrifuge	(220V, 50/60Hz)	V14-2	Main Unit	
	(110V, 60Hz)	V14-1	Spanner set and nuts Spare Fuses Spirit Level Silicon Grease Rotor rest pad Instruction Manual	
Velocity 10R Refrigerated Centrifuge	(220V, 50Hz)	V10R-2	Main Unit	
	(110V, 60Hz)	V10R-1	Spanner set and nuts Spare Fuses Spirit Level Silicon Grease Rotor rest pad Instruction Manual	
SW20RHS Large Capacity Refrigerated Centrifuge		SW20RHS	Main unit Spanner set and unts Spare fuses Spirit level Silicon grease Rotor rest pad Instruction manual	
FA18A Fixed angle aluminium rotor (8 x 10 ml)		FA18A	Rotor Lubricant Aluminium lid Spare rubber o-rings Manual	V18R V14R V14 V10R SW20RHS
FA18B Fixed angle aluminium rotor (18 x 1.5/2.0 ml)		FA18B	Rotor Lubricant Aluminium lid Spare rubber o-rings Manual	V18R V14R V14 V10R SW20RHS
Adaptors for 0.2 ml PCR tubes / strips Adaptors for 0.5 ml PCR tubes		FA15.02 FA15.02	24 x adaptors 24 x adaptors	

PRODUCT		Cat. No.#	Components	
FA18C Fixed angle aluminium rotor (10 x 10 ml)		FA18C	Rotor Lubricant Aluminium lid Spare rubber o-rings Manual	V18R V14R V14 V10R SW20RHS
FA15A Fixed angle aluminium rotor (24 x 1.5/2.0 ml)		FA15A	Velocity Rotor Aluminium Biosafety lid Spare rubber o-rings Lubricant Manual	V18R V14R V14 V10R SW20RHS
Adaptors for 0.2 ml PCR tubes / strips Adaptors for 0.5 ml PCR tubes		FA15.02 FA15.05	24 x adaptors 24 x adaptors	
FA15P Fixed angle aluminium rotor (18 x 1.5/2.0 ml)		FA15P	Rotor Lubricant Manual	V18R V14R V14 V10R SW20RHS
Adaptors for 0.2 ml PCR tubes / strips Adaptors for 0.5 ml PCR tubes		FA15.02 FA15.05	24 x adaptors 24 x adaptors	
FA15B Fixed Angle Aluminium Rotor (4 x 50 ml)		FA15B	Rotor Lubricant Aluminium Biosafety lid Spare rubber o-rings Manual	V18R V14R V14 V10R SW20RHS
Adaptors for 15 ml round bottom tubes Adaptors for 15 ml Culture tubes		FA15.15R FA15.15C	4 x adaptors 4 x adaptors	
FA15C Fixed Angle Aluminium Rotor (6 x 50 ml)		FA15C	Rotor Lubricant Aluminium Biosafety lid Spare rubber o-rings	V18R V14R V14 V10R SW20RHS
Adaptors for 15 ml round bottom tubes Adaptors for 15 ml Culture tubes		FA15.15R FA15.15C	4 x adaptors 4 x adaptors	
FA15D Fixed Angle Aluminium Rotor (4 x 100 ml)		FA15D	Rotor Lubricant Aluminium lid Spare rubber o-rings Manual	V18R V14R V14 V10R SW20RHS
FA14A Fixed Angle Aluminium Rotor (12 x 5 ml)		FA14A	Rotor Lubricant Aluminium lid Spare rubber o-rings Manual	V18R V14R V14 V10R SW20RHS

PRODUCT	Cat. No.#	Components	
 FA14B Fixed Angle Aluminium Rotor (12 x 5 ml)	FA14B	Rotor Lubricant Aluminium lid Spare rubber o-rings Manual	V18R V14R V14 V10R SW20RHS
 FA14C Fixed Angle Aluminium Rotor (4 x 50 ml)	FA14C	Rotor Lubricant Aluminium lid Spare rubber o-rings Manual	V18R V14R V14 V10R SW20RHS
Adaptors for 15 ml Culture tubes	FA14.15C	4 x adaptors	
 CF14A Cabon Fibre IntelliRotor	CF14A	Rotor Manual	V18R V14R V14 V10R SW20RHS
Adaptors from 0.4 ml to 50 ml tubes and PCR Plate, please refer to page 10 for detail			
 FA12A Fixed Angle Aluminium Rotor (48 x 0.2 ml)	FA12A	Rotor Lubricant Aluminium lid Spare rubber o-rings Manual	V18R V14R V14 V10R SW20RHS
 FA11A Fixed Angle Aluminium Rotor (24 x 1.5/2.0 ml)	FA11A	Rotor Lubricant Aluminium lid Spare rubber o-rings Manual	V18R V14R V14 V10R SW20RHS
 FA10B Fixed Angle Aluminium Rotor (6 x 50 ml)	FA10B	Rotor Lubricant Aluminium lid Spare rubber o-rings Manual	V18R V14R V14 V10R SW20RHS
Adaptors for 15 ml Culture tubes	FA10.15C	6 x adaptors	
 FA10D Fixed Angle Aluminium Rotor (6 x 100 ml)	FA10D	Rotor Lubricant Aluminium lid Spare rubber o-rings Manual	V18R V14R V14 V10R SW20RHS
Adaptors for 50 ml Culture tubes	FA10D.50C	6 x adaptors	
Adaptors for 50 ml round bottom tubes	FA10D.50P	6 x adaptors	

PRODUCT	Cat. No.#	Components	
 FA8B Fixed Angle Aluminium Rotor (10 x 50 ml)	FA8B	Rotor Lubricant Aluminium lid Spare rubber o-rings Manual	V18R V14R V14 V10R SW20RHS
Adaptors for 15 ml Culture tubes	FA8B.15C	10 x adaptors	
Adaptors for 15 ml round bottom tubes	FA8B.15P	10 x adaptors	
 FA8C Fixed Angle Aluminium Rotor (12 x 50 ml)	FA8C	Rotor Lubricant Aluminium lid Spare rubber o-rings Manual	V18R V14R V14 V10R SW20RHS
Adaptors for 15 ml Culture tubes	FA8C.15C	12 x adaptors	
Adaptors for 15 ml round bottom tubes	FA8C.15P	12 x adaptors	
 FA5A Fixed Angle Aluminium Rotor (12 x 15 ml)	FA5A	Rotor Lubricant Aluminium lid Spare rubber o-rings Manual	V18R V14R V14 V10R SW20RHS
 SW5 Swing Bucket Aluminium Rotor (4 x 250 ml)	SW5	Rotor 4 x Aluminium Round Buckets Lubricant Manual	V18R V14R V14 V10R SW20RHS
Adaptors for 5 ml blood collection tubes	SW5.5B	4 x adaptors	
Adaptors for 7 ml blood collection tubes	SW5.7B	4 x adaptors	
Adaptors for 10 ml blood collection tubes	SW5.10B	4 x adaptors	
Adaptors for 10 ml round bottom glass tubes	SW5.10G	4 x adaptors	
Adaptors for 15 ml round bottom glass tubes	SW5.15G	4 x adaptors	
Adaptors for 15 ml round bottom PP tubes	SW5.15P*	4 x adaptors	
Adaptors for 15 ml culture tubes	SW5.15CA	4 x adaptors	
Adaptors for 15 ml culture tubes	SW5.15CB*	4 x adaptors	
Adaptors for 50 ml round bottom glass tubes	SW5.50G	4 x adaptors	
Adaptors for 50 ml round bottom PP tubes	SW5.50P	4 x adaptors	
Adaptors for 50 ml culture tubes	SW5.50C	4 x adaptors	V18R V14R V14 V10R SW20RHS
Adaptors for 50 ml skirted bottom culture tubes	SW5.50CB	4 x adaptors	
Plastic Seal Caps	SW5.SC	4 x clear caps with rubber o-rings	
 SW5MP Swing Bucket Aluminium Rotor (2 x Plates)	SW5MP	Rotor 2 x Aluminium Rectangular Buckets Lubricant Manual	V18R V14R V14 V10R SW20RHS
Adaptors for 1.5 ml micro tubes	SW5MP.15	2 x adaptors	
Adaptors for 0.2 ml PCR tubes	SW5MP.02	2 x adaptors	
 SW4A Swing Bucket Aluminium Rotor	SW4A	Rotor Lubricant 4 x Aluminium Rectangular Buckets Manual	V18R V14R V14 V10R SW20RHS
Adaptors for 15 ml culture tubes	SW4A.15C	4 x adaptors	
Adaptors for 50 ml culture tubes	SW4A.50C	4 x adaptors	

PRODUCT	Cat. No.#	Components
 SW4B Swing Bucket Aluminium Rotor	SW4B	Rotor Lubricant 4 x Aluminium Rectangular Buckets Spare rubber o-rings Manual Rotor lock screw 4 x Shield caps
Adaptors for 3 ml blood collection tubes	SW4B.3B	4 x adaptors
Adaptors for 5 ml blood collection tubes	SW4B.5B	4 x adaptors
Adaptors for 7 ml blood collection tubes	SW4B.5B	4 x adaptors
Adaptors for 10 ml blood collection tubes	SW4B.10B	4 x adaptors
Adaptors for 15 ml culture tubes	SW4B.15C	4 x adaptors
Adaptors for 50 ml culture tubes	SW4B.50CB	4 x adaptors
Adaptors for 50 ml culture tubes	SW4B.50CA*	4 x adaptors
Adaptors for 250 ml bottles plus 50 ml culture tubes	SW4B.250P	4 x adaptors
 SW4E Swing Bucket Aluminum Rotor	SW4E	Rotor Lubricant Aluminium lid 6 x Aluminium buckets Spare rubber o-rings Manual 6 x insert cup 6 x insert cup
Insert cups for 450 ml quadruple blood bags Insert cups for 350 ml quadruple blood bags		
 SW4C Swing Bucket Aluminium Rotor (4 x 5 ml)	SW4C	Rotor 4 x Aluminium Rectangular Buckets Lubricant Manual 4 x adaptors
 SW3A Swing Bucket Aluminium Rotor (4 x 750 ml)	SW3A	Rotor 4 x Aluminium Round Buckets Lubricant Manual
 Rotor Stand for Swing Bucket	RST	Rotor Stand
For free standing of swing bucket, SW3A, SW4A, SW5 and SW5MP		

*not suitable with plastic caps

VELOCITY 6μ

Micro Fuge

The Velocity 6μ and 13μ are designed to operate easily and save space. They also offer a high degree of convenience and ultimate safety for your laboratory application.

Features & Characteristics

- Microtubes rotor and 8-strip rotor included
- Rotors can be easily exchanged without tools
- Compact design
- Simple & user-friendly operation
- Quiet operation (noise level ≤ 45dB)



VELOCITY 6μ Specifications

MODEL	VELOCITY 6μ
Maximum Speed	6,000 RPM
Maximum RCF	2,910 x g
Run Time	Continuous
Rotor (Standard)	8 x 1.5/2.0 ml, 2 x 8-strip PCR or 16 x 0.2 ml PCR tubes
Rotor (Optional)	-
Dimensions	155 x 175 x 125 mm (w x d x h)
Weight	1 kg
Power Supply	AC 110-220V 50/60Hz

VELOCITY 6μ Ordering Information

PRODUCT	CATALOG NUMBER#
Velocity 6μ Micro Fuge, with microtube rotor & tube-stripes rotor, 110-220V, 50/60Hz	V6U

VELOCITY 13μ

Mini Fuge

Features & Characteristics

- Maximum speed 13,500rpm (12,300 xg)
- Choices of rotors for 12 x 1.5/2.0ml tubes and 32 PCR tubes or strips
- Compact design
- Rapid acceleration (≤12 sec) and deceleration (≤16 sec)
- Autoclavable rotor
- Safe operation with lid-lock function
- User-friendly control panel with LCD display



VELOCITY 13μ Specifications

MODEL	VELOCITY 13μ
Maximum Speed	13,500 RPM
Maximum RCF	12,300 x g
Run Time	Up to 30 minutes or HOLD (Continuous)
Rotor (Standard)	12 x 1.5/2.0 ml tubes
Rotor (Optional)	32 x 0.2 ml PCR tubes or strips
Dimensions	208 x 245 x 145 mm (w x d x h)
Weight	4.4 kg
Power Supply	AC 200-240V 50/60Hz or AC 110-120V 50/60Hz

VELOCITY 13μ Ordering Information

PRODUCT	CATALOG NUMBER#
Velocity 13μ Mini Fuge, with FA13A rotor & FA13.02 Adapters, 200-240V, 50/60Hz	V13U-2A
Velocity 13μ Mini Fuge, with FA13A rotor & FA13.02 Adapters, 110-120V, 50/60Hz	V13U-1A
12 place rotor, 1.5/2ml x 12, 13,500rpm	FA13A
32 place rotor, 0.2ml x 32 PCR tubes or 4x 8-strip PCR tubes, 6,000rpm	FA6B
0.2ml PCR tube rotor adapter, used with FA13A rotor, 12pcs/pk	FA13.02
0.5ml PCR tube rotor adapter, used with FA13A rotor, 12pcs/pk	FA13.05

VELOCITY 15μ / 15μR

High Speed Microcentrifuge

The Dynamica Velocity Microcentrifuge is now available with refrigerated model, Velocity 15μR. Velocity 15μR is built with a powerful refrigeration module and is able to maintain the sample temperature below 2°C at the highest speed.

The Velocity 15μ / 15μR High Speed Microcentrifuge are designed to accelerate your laboratory works by providing excellent and reliable performance. The Velocity 15μ series are compact and easy to use.

Features & Characteristics

- Maximum speed 15,000rpm (21,380 xg)
- Choices of rotors for 24 x 0.2/0.5/1.5/2.0ml tubes, 18 x 5ml tubes, 36 x 0.5ml tubes and 4x 8-strip PCR tubes
- Powerful refrigeration for model Velocity 15μR
- Autoclavable Bio-safe rotors
- Advanced air-cooling technology to lower rotor temperature for model Velocity 15μ
- Automatic lid release after run
- Dual door interlock safety design
- User-friendly control panel with large LCD display



FAS15B

VELOCITY 15μ / 15μR Specifications

VELOCITY 15μ SPECIFICATIONS	Velocity 15μ	Velocity 15μR
Maximum Speed	15,000 RPM	
Maximum RCF	21,380 x g	
Run Time	30 seconds to 99 minutes or HOLD (Continuous)	
Rotor (Standard)	24 x 1.5/2.0 ml tubes	
Rotor (Optional)	18 x 5 ml tubes, 36 x 0.5 ml tubes, 4 x 0.2ml 8-strip PCR tubes	
Temperature Setting Range	N/A	-20°C to 40°C
Noise Level	≤ 58dB	≤ 56dB
Dimensions (w x d x h)	280 x 364 x 266 mm	338 x 580 x 324 mm
Weight	12 kg	30 kg
Power Supply	AC 200-240V 50/60Hz or AC 110-120V 50/60Hz	

Velocity 15μ Ordering Information

PRODUCT	CATALOG NUMBER#
Velocity 15μ High Speed Microcentrifuge, with FAS15B aluminum alloy rotor kit, 200-240V, 50/60Hz	V15U-220
Velocity 15μ High Speed Microcentrifuge, with FAS15B aluminum alloy rotor kit, 110-120V, 50/60Hz	V15U-110
Velocity 15μR High Speed Refrigerated Microcentrifuge, with FAS15B aluminum alloy rotor kit, 200-240V, 50/60Hz	V15UR-220
Velocity 15μR High Speed Refrigerated Microcentrifuge, with FAS15B aluminum alloy rotor kit, 110-120V, 50/60Hz	V15UR-110
18 place rotor with lid, 5ml x 18, 15000rpm	FAS15A
24 place rotor with lid, 1.5/2ml x 24, 15000rpm	FAS15B
36 place rotor with lid, 0.5ml x 36, 15000rpm	FAS15C
4 place 8-strip PCR tubes rotor with lid, 15000rpm	FAS15D
0.2ml rotor adapter, used with FAS15B 24 place rotor, 24pcs/pk	FAS15B.02
0.5ml rotor adapter, used with FAS15B 24 place rotor, 24pcs/pk	FAS15B.05
0.2ml rotor adapter, used with FAS15C 36 place rotor, 36pcs/pk	FAS15C.02



The VELOCITY Range

BENCH TOP CENTRIFUGES

Headquarters

Dynamica Scientific Ltd.

Unit 12 Cromwell Business Centre,
Howard Way, Newport Pagnell,
MK16 9QS, United Kingdom

P: +44(0)1908 211 900

F: +44(0)1908 211 909

Email: info@dynamica-eu.com

Australasia

Dynamica Pty Ltd

Unit C3 Hallmarc Business Park
Corner Centre and Westall Roads
Clayton, Victoria, 3168, Australia

P: +61 3 8540 5988

F: +61 3 9548 7177

Email: info@dynamica.com.au

Asia

Dynamica (Asia) Limited

6/F., Mita Ctr.,
552-566 Castle Peak Rd.,
Kwai Chung, Hong Kong

P: +852 3583 1581

F: +852 3583 1580

Email: info@dynamica-asia.com

Web: www.dynamica-eu.com