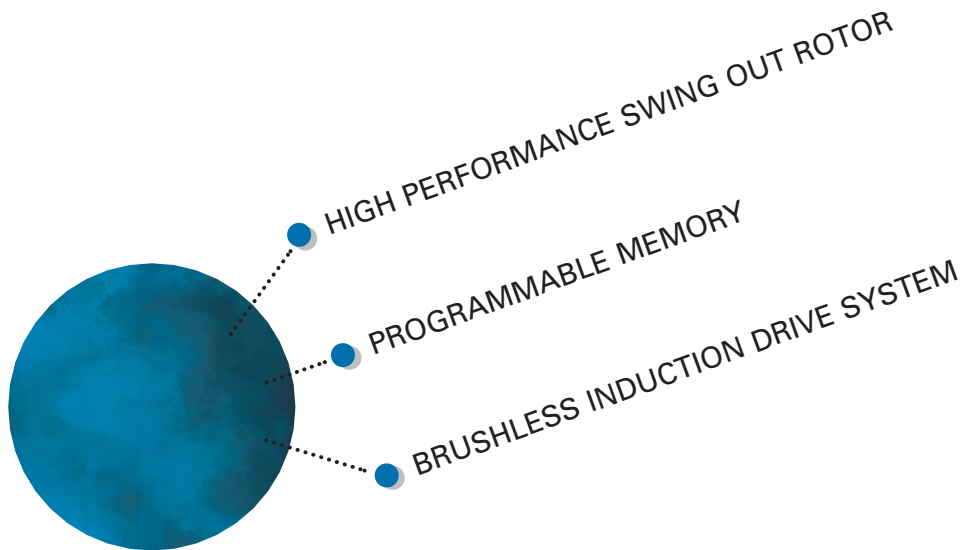




## **FALCON 6/300 - 6/300R**





**Falcon  
6/300  
6/300R**

- INTELLIGENT MICROPROCESSOR CONTROL
- INVERTER CONTROLLED BRUSHLESS MOTOR
- AUTOMATIC ROTOR IDENTIFICATION SYSTEM
- SET AND RUN IN RCF OR RPM
- HIGH CAPACITY SWING OUT ROTOR  
4 X 750ML
- 5,600RPM (7,047G) WITH 4 X 750ML  
SWING OUT ROTOR (FALCON 6/300R)
- KEY LOCK FACILITY
- INSTANT RCF READING
- 49 PROGRAM MEMORY
- GREEN LED DISPLAY
- OVERSPEED PROTECTION SYSTEM
- FULL LID INTERLOCK
- IMBALANCE DETECTION SYSTEM
- SELF DIAGNOSTICS
- STATUS INDICATOR
- CFC - FREE REFRIGERANT GAS (FALCON 6/300R)
- FAST EFFICIENT COOLING (FALCON 6/300R)
- SELECTABLE TEMPERATURE RANGE  
-9°C TO +40°C (FALCON 6/300R)
- PRECOOL FACILITY (FALCON 6/300R)
- CFC-FREE INSULATION (FALCON 6/300R)
- SIMPLE AND EASY TO USE
- EASY TO SERVICE
- 10 ACCELERATION RATES
- 10 BRAKE RATES
- WIDE RANGE OF ACCESSORIES
- ALL ACCESSORIES FULLY AUTOCLAVABLE
- SEALED BUCKETS WITH PORTON  
DOWN APPROVAL
- DESIGNED TO COMPLY WITH  
BS EN 61010-2-020: 1995



**MSE were one of the first manufacturers to introduce high capacity bench top centrifuges with induction drive. This tradition for innovation has continued with the introduction of the new Falcon range of large capacity bench top centrifuges. Both refrigerated and non-refrigerated models take a full 3 litre load - the refrigerated version having a much increased g force capability. These centrifuges represent excellent value for money in terms of their performance, ease of use, safety and reliability.**

### Refrigerated version with high performance rotor

The Falcon 6/300 Refrigerated incorporates performance features normally found only on much larger floor standing units. The new high capacity / high performance 4 x 750ml windshielded rotor has a maximum speed of 5,600rpm which gives an incredible 7,047g. This means that protocols needing a minimum of 6,000g in a large capacity swing out rotor can now be performed on the bench - previously this could only be done in a floor standing unit. The same rotor can be used on the non-refrigerated Falcon 6/300 though the maximum speed is limited to 3,660rpm to prevent excessive heat build-up over long time periods.

The temperature can be selected from a range of -9°C to +40°C. A precool facility means that the centrifuge can be cooled to the

required temperature prior to use. Naturally, refrigerant gas and all insulation are totally CFC-free.

### Automatic rotor identification system

Both Falcon centrifuges incorporate the well known MSE automatic rotor identification system. This important feature ensures that the centrifuge recognises the rotor in use and prevents it from being used beyond its maximum speed. Once the centrifuge has identified the rotor it can also work out the g force at any set speed. This means that the centrifuge can convert rpm to g and vice versa once a run has commenced.

### Microprocessor controlled induction drive

Brushless induction drive motors have become a familiar feature in bench top centrifuges since they were first introduced by MSE in the early 1980's. Naturally both Falcons follow this tradition. Combined with microprocessor control, each version exhibits extremely accurate run to run reproducibility - an important feature for users where accountability for analysis and production is becoming an increased necessity.



## Fully programmable

Operation of both units is fully programmable with a memory capability of up to 49 different programmes. This includes all parameters such as speed (or  $\ddot{e}$ g force), time, acceleration rate, brake rate and temperature control.

## Wide range of accessories available

Most centrifuge work can be accomplished using the 4 x 750ml windshilded rotor as this is available with a wide range of adaptors that fit into the 750ml buckets. Microtitre carriers and special buckets for 250ml tissue culture bottles are available for the 4 x 750ml non-windshilded rotor only. The 8 x 200ml swing out rotor and various angle rotors complete the full list of accessories making this one of the most versatile centrifuges on the market. Please see rotor tables for details.

## Safety features

MSE have always prided themselves on customer safety and the Falcons prove to be no exception. Both centrifuges have a 7mm steel guard ring so that in the unlikely event that there should be a disruption, no debris can escape from the centrifuge. An imbalance sensor aborts a run if a significant imbalance is detected and a lid interlock prevents the lid from being opened when the rotor is in motion.



## FALCON 6/300 - 6/300R SPECIFICATION

	6/300	6/300R
Max speed swing out rotor	3,660 rpm	5,600 rpm
Max RCF swing out rotor	3,054 g	7,047 g
Max speed angle rotor	6,000 rpm	6,000 rpm
Max RCF angle rotor	6,030 g	6,030 g
Max bottle size	750 ml	750 ml
Max capacity	3,000 ml	3,000 ml
Speed control range	200 - 6,000 rpm	200 - 6,000 rpm
Speed control accuracy	1 rpm	1 rpm
Speed display	$\pm 10$ rpm	$\pm 10$ rpm
Temperature range		-9°C to +40°C
Temperature control		$\pm 2^{\circ}\text{C}$
Time set range (both)	0 - 59 mins 59 secs	
	0 - 99 hrs 59 mins	
	Time hold	
Timer accuracy (secs)	0.1	0.1

## DIMENSIONS

Height (mm)	433	433
Width (mm)	826	826
Depth (mm)	600	600
Weight (kg)	121	146

## CATALOGUE NUMBERS

220/230V 50/Hz	MSB300.CX3.5	
120V 60Hz	MSB300.CX3.I	
220/230V 50Hz	MSB300.CR3.K	
120V 60Hz	MSB300.CR3.I	

## For use with 4 x 750ml non-windshilded rotor (43124-1298)

CAT. NO.	DESCRIPTION	MAX. SPEED	MAX 'g' FORCE
43551-130	Slotted cup for 250ml tissue culture bottle	2,500 rpm	1,450
41159-1900	Microtitre carrier (3 plates per carrier)	2,500 rpm	1,329

**For use in 750ml Sealed Bucket (43551-140) with 4 x 750ml windshielded high speed swing out rotor (43124-750) ONLY Max speed 5,600 rpm FALCON 6/300 REFRIGERATED.  
Max speed 3,660 rpm FALCON 6/300.**

CAT NO.	ADAPTOR	COLOUR	ROTOR CAPACITY	MAX DIAMETER	MAX LENGTH	MIN LENGTH	MAX SPEED	MAX 'g' FORCE	MAX SPEED	MAX 'g' FORCE
43155-1322	37 x 5ml	BLUE	148	12mm	125mm	50mm	5,600 rpm	6,609	3,660 rpm	2,823
43155-1335	28 X 7ml	ORANGE	112	13mm	125mm	48mm	5,600 rpm	6,609	3,660 rpm	2,823
43155-134A	19 x 15ml	GREEN	76	17mm	125mm	63mm	5,600 rpm	6,784	3,660 rpm	2,898
43155-1354	5 x 50ml	RED	20	32mm	125mm	77mm	5,600 rpm	6,925	3,660 rpm	2,958
43155-1369	7 x 30ml Flat bottomed	YELLOW	28	28.5mm	125mm	67mm	5,600 rpm	6,609	3,660 rpm	2,823
43155-152	6 x 50ml Falcon	BEIGE	24	29mm	125mm	78mm	5,600 rpm	6,925	3,660 rpm	2,958
43155-153	12 x 15ml Falcon	MAROON	48	17mm	125mm	75mm	5,600 rpm	6,784	3,660 rpm	2,898
43551-1269	Blood bag liner	WHITE	4	98mm	-	-	5,600 rpm	7,047	3,660 rpm	3,003
43551-124A	750ml PP bottleaa	WHITE	4	98mm	-	-	5,600 rpm	7,047	3,660 rpm	3,003



**For use in 200ml Sealed Bucket (43551-1215) with 8 x 200ml swing out rotor (43122-105A).**

CAT NO.	ADAPTOR	COLOUR	CAPACITY	MAX DIAMETER	MIN LENGTH	MAX LENGTH	MAX SPEED	MAX 'g' FORCE
34159-3021	1 x 100ml	Brown	8 x 100ml	39.5mm	75mm	118mm	3,200 rpm	2,375
34159-3017	1 x 50ml	Yellow	8 x 50ml	29.0mm	72mm	118mm	3,200 rpm	2,375
34159-3040	7 x 15ml	Green	56 x 15ml	17.0mm	74mm	118mm	3,200 rpm	2,375
34159-3036	4 x 10ml flat bottom tube	Grey	32 x 10ml	16.5mm	43mm	110mm	3,200 rpm	2,335
34159-3055	9 x 7ml	Orange	72 x 7ml	13.0mm	58mm	118mm	3,200 rpm	2,357
34159-306A	12 x 5ml	Blue	96 x 5ml	12.0mm	49mm	118mm	3,200 rpm	2,375
34159-308	7 x 15ml flat bottom tube	Black	56 x 15ml	17.0mm	74mm	118mm	3,200 rpm	2,315
34159-309	1 x 50ml Falcon	Beige	8 x 50ml	29.0mm	74mm	120mm	3,200 rpm	2,375
34159-310	3 x 15ml Falcon	Maroon	24 x 15ml	17.0mm	90mm	120mm	3,200 rpm	2,375
200ml bottle (43551-103A) does not require adaptor			8 x 200ml		57.7mm	120mm	3,200 rpm	2,370

## Angle rotors for use on Falcon 6/300 Refrigerated and Falcon 6/300

ROTOR	BUCKET	ADAPTOR	CAPACITY	MAX DIAMETER	MIN LENGTH	MAX SPEED	MAX 'g'
6 place Universal 43117-605A	34411-9120 100ml stainless steel bucket	34142-1057 rubber cushion	6 x 100ml	42.0mm	125mm	6,000 rpm	5,524
		34144-3087	8 x 50ml	29.0mm	72mm	6,000 rpm	5,108
		34151-302A	12 x 15ml	17.0mm	74mm	6,000 rpm	5,524
		34153-302	30x 7ml	13.0mm	43mm	6,000 rpm	5,311
16 place Universal 43114-609A	No bucket required	-	16x50ml	29.0mm	58mm	6,000 rpm	5,920
		34144-3072	16 x 15ml	17.5mm	49mm	6,000 rpm	5,720
24 place Universal 43114-6085	No bucket required	-	24 x 15ml	17.0mm	74mm	6,000 rpm	6,030
		-	8 x 50ml	29mm	74mm	6,000 rpm	5,635
8 place Sealed rotor 43117-610	43156-603 sealed aluminium bucket	34142-110 59ml conical tube adaptor	8 x 50m	29mm	90mm	6,000 rpm	5,635



The information contained in this brochure is correct at the time of printing, but is subject to change without notice.  
All orders are accepted subject to our current conditions of sale, copies of which are available on request.



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